



Incident Number: nSAP0215477198

Reclamation Report

Jackson Unit #003

Unit N, Section 15, Township 24 South, Range 33 East

API: 30-025-33238

County: Lea

Vertex File Number: 24E-03316

Prepared for:

Tap Rock Resources

Prepared by:

Vertex Resource Services Inc.

Date:

July 2025

Tap Rock Resources
Jackson Unit #003

Reclamation Report
May 2025

Reclamation Report
Jackson Unit #003
Unit N, Section 15, Township 24 South, Range 33 East
API: 30-025-33238
NMSLO Lease Number: LG63370001
County: Lea

Prepared for:
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Date

Chance Dixon, B.Sc.
PROJECT MANAGER, REPORT REVIEW

Date

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1.0 Introduction

Tap Rock Resources retained Vertex Resource Services Inc. (Vertex) to conduct the Land Reclamation Report for the former Jackson Unit #003 (hereafter referred to as “site”) with the understanding that the open release that was approved on September 26, 2024. The well was plugged and abandoned on December 15, 2022. After the site was decompacted, and it was deemed that additional reclamation activities would be required, Vertex completed oversight of the release and pad reclamations.

This report provides a description of the remediation and reclamation activities associated with the site. The information presented demonstrates that closure criteria established in Table I of 19.15.29.12 of the *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) related to New Mexico Oil Conservation Division (NMOCD) has been met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain reclamation approval from NMOCD for closure of this release, with the understanding that restoration of the site was completed immediately following remediation activities as per NMAC 19.15.29.13.

2.0 Site Characteristics

The site is located approximately 24 miles southwest of Jal, New Mexico. The legal location for the site is Unit N, Section 15, Township 24 South and Range 33 East in Lea County, New Mexico. The release area is located on state property. An aerial photograph and site schematic are presented in Figure 1.

The location is typical of oil and gas exploration and production sites in the Permian Basin and is currently used for oil and gas production and storage. The following sections specifically describe the release area on or in proximity to the constructed pad (Figure 1).

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2025) indicates the site’s surface geology primarily comprises Qp – piedmont alluvial deposits (Holocene to lower Pleistocene) and the soil at the site is characterized as fine sand (United States Department of Agriculture, Natural Resources Conservation Service, 2025). Additional soil characteristics include a drainage class of well drained with a runoff class of low. The karst geology potential for the site is low (United States Department of the Interior, Bureau of Land Management, 2018).

The surrounding landscape was associated with plains with elevations ranging between 3,000 to 4,400 feet. The climate is semiarid with average annual precipitation ranging between 10 and 13 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be black grama. Grasses with shrubs and half-shrubs dominate the historical plant community (United States Department of Agriculture, Natural Resources Conservation Service, 2025). Limited to no vegetation is allowed to grow on the compacted production pad, right-of-way and access road.

5.0 Land Reclamation

The land reclamation for the site (surface reclamation) is detailed below. This section outlines the principles that were used during the surface reclamation phase for the site. After the ripping and seeding of the reclamation, a heavy rain event occurred which washed out the rips and flattened the area, embedding the seed underneath. Site photographs obtained after ripping/seeding and after the rain event are included in Appendix B.

5.1 End Land Use and Capability

The land use surrounding the site is defined as natural; therefore, the end land use would be natural land. A natural area is described as: away from human habitation and activities, where the primary concern is the protection of ecological receptors. The site was reclaimed so that the capability of the land matches that of the areas immediately surrounding the site, which consists of rangeland.

5.2 Soil Replacement

Surface reclamation included determination of background topsoil depth as site conditions are required to meet pre-existing conditions. Reclamation of the location and of the was completed after backfilling operations. Clean, locally sourced topsoil and caliche were imported to the site to backfill the excavation (Table 1). The entire reclamation area was fenced with a 4-strand barbed wire fence.

5.3 Production Pad Reclamation

All production equipment related to the pad was removed including the two pipeline risers on the northeast and southeast portion of the former pad. The remaining topsoil on the pad including the backfilled area was decompacted using mechanical equipment, which ripped the surface to a depth of approximately 12 inches while avoiding the exposure of underlying caliche or concrete materials. The surface was then contoured to blend with the surrounding landscape and subsequently seeded. The utility power lines that were used to operate the former well pad remain at the site.

5.4 Restoration of Drainage

Currently, the site consists of a mostly-level pasture area. The site was contoured to match surrounding topography as near as practicable to restore natural drainage. Any compaction on-site was addressed by de-compaction to an approximate depth of 12 inches. All de-compaction activities were conducted post-backfill procedures and pre-seeding to maximize seed to soil contact and promote vegetation establishment.

5.5 Erosion Control

There are currently no erosion concerns on-site, and the use of erosion control devices at this location is not anticipated; however, erosion control devices will be installed at the discretion of the on-site environmental inspector.

5.6 Re-vegetation

5.6.1 Seeding

A seed mix suitable for the site and surrounding area was used and applied at appropriate rates. Seed establishment and re-vegetation will be monitored, bi-annually, to determine success. An NMSLO loamy seed mix consisting of

Sideoats grama – 4.0 lb/acre, Blue grama – 1 lb/acre, Black grama – 1 lb/acre, Sand dropseed – 2 lb/acre, Alkali sacaton – 1 lb/acre, Little bluestem 1.5 lb/acre was obtained for the site and administered by Vertex personnel. Seeding was completed using a tractor with rotating discs and broadcasted on all areas under reclamation. Photo documentation of the excavation area after backfilling and seeding is located in Appendix B.

5.6.2 Reclamation Standards

Reclamation success will meet requirements outlined in Chapter 6 of The Gold Book (United States Department of the Interior and U.S. Department of Agriculture, 2007) which states that “a self-sustaining, vigorous, diverse, native (or otherwise approved) plant community is established on site, with a density sufficient to control erosion and non-native plant invasion and to re-establish wildlife habitat or forage production”.

5.7 Weed Management

The site will be monitored for vegetative growth throughout the year. Should noxious vegetation be identified on-site, a control program will be implemented and managed as required.

Weed management programs will identify weed species of concern and utilize effective control methods. These methods include but are not limited to chemical (herbicide) control, mechanical (mowing) control or biological control as approved by governing regulatory agencies.

6.0 Monitoring Program

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

7.0 Final Summary

Reclamation of the release has been completed. Vertex will monitor the site for vegetative growth with the specifications listed in Section 8. During the tri-annual inspections, if site conditions are at or nearing background conditions with 70% coverage, the final reclamation/re-vegetation report will be completed. The report will provide a summary of the vegetation establishment, a summary and interpretation of monitoring data collected, interpretation of historical monitoring data, and suggested corrective actions if applicable.

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

8.0 References

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Tap Rock Resources
Jackson Unit #003

Reclamation Report
July 2025

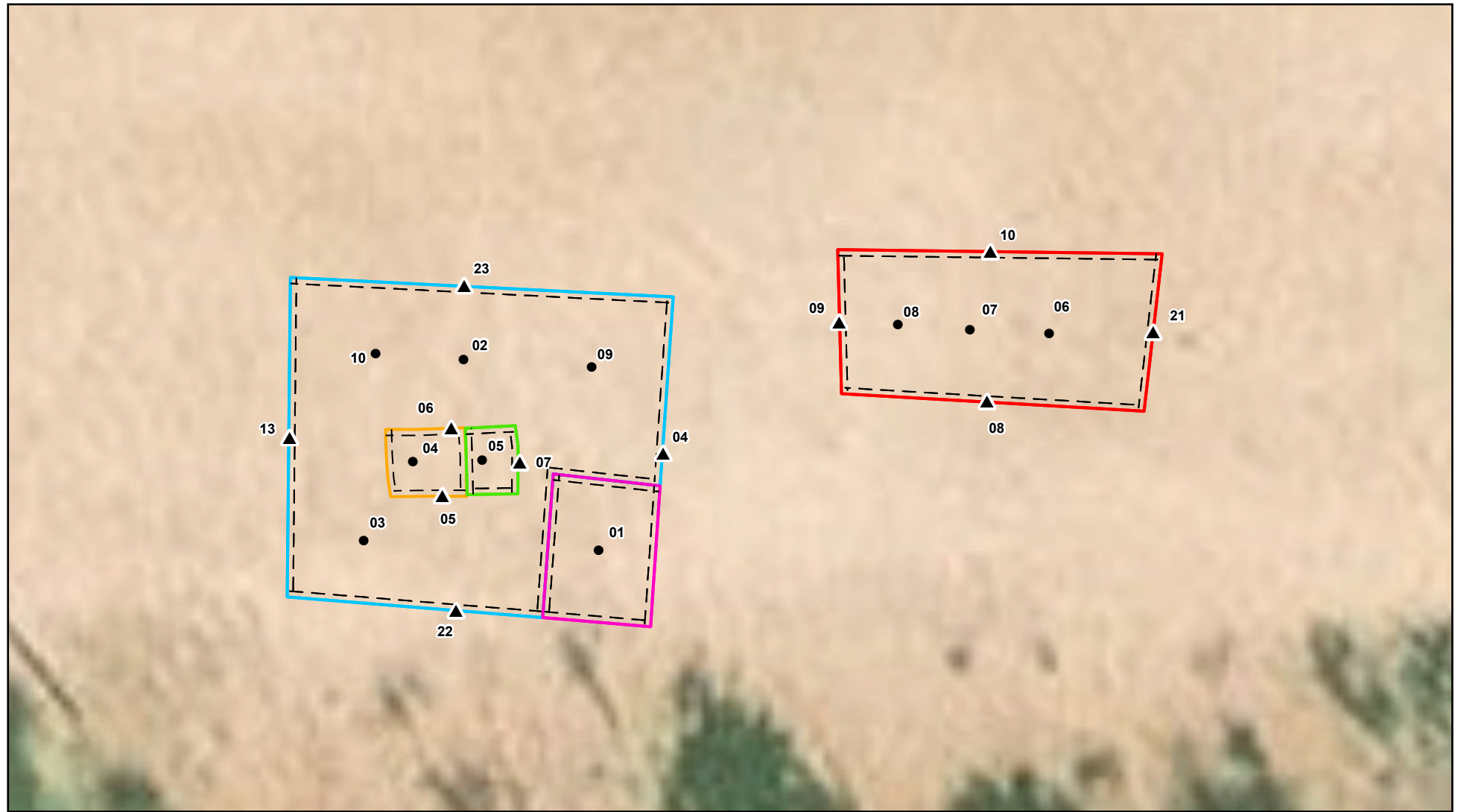
United States Department of the Interior and United States Department of Agriculture. (2007). *Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development: The Gold Book (Chapter 6)*

9.0 Limitations

This report has been prepared for the sole benefit of Tap Rock Resources and Jonah Energy. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division and the New Mexico State Land Office, without the express written consent of Vertex Resource Services Inc. (Vertex) and Tap Rock Resources. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. The conclusions and recommendations presented in this report should not be considered legal advice.

FIGURES



- Base Sample (Prefixed by "BES24-")
- ▲ Wall Sample (Prefixed by "WES24-")
- East Excavation to 4' bgs (~642 sq. ft. | 108 ft.)
- Excavation to 5' bgs (~209 sq. ft. | 58 ft.)
- Excavation to 8' bgs (~121 sq. ft. | 46 ft.)
- Excavation to 6' bgs (~50 sq. ft. | 27 ft.)
- West Excavation to 4' bgs (~1645 sq. ft. | 163 ft.)



0 5 10 ft
NAD 1983 UTM Zone 13N
Date: Sep 17/24

Map Center:
Lat/Long
32.21179°, -103.562263°



Confirmation Sampling Site Schematic Jackson Unit #003

FIGURE:

2



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, 2023. Approximate site boundary from sketch by Vertex Professional Services Ltd. (Vertex), 2024. Site features from GPS, Vertex, 2024.

VERSATILITY. EXPERTISE.



Map Center:
Lat/Long: 32.212646°N, 103.560481°W
Date: May 12/25
NAD 1983 StatePlane New Mexico East FIPS 3001 Feet



**Reclamation Site Schematic
Jackson Unit #003**

FIGURE:

3



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.

VERSATILITY. EXPERTISE.

TABLES

Client Name: Tap Rock Resources
 Site Name: Jackson Unit #003
 NMOCD Tracking #: nSAP0215477198
 Project #: 24E-03316
 Lab Report: E408175,E409013

Table 1. Confirmatory Sample Laboratory Results - Depth to Groundwater >100 feet bgs (Reclamation)

Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
BES24-01	4	August 19, 2024	ND	ND	ND	1570	225	1570	1795	29.7
	5	September 4, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BES24-02	4	August 19, 2024	ND	ND	ND	349	110	349	459	20
BES24-03	4	August 19, 2024	ND	ND	ND	81.8	ND	81.8	81.8	ND
BES24-04	8	August 19, 2024	ND	0.2693	ND	369	63.6	369	432.6	ND
BES24-05	6	August 19, 2024	ND	ND	ND	162	ND	162	162	ND
BES24-06	4	August 19, 2024	ND	ND	ND	232	62.1	232	294.1	32
BES24-07	4	August 19, 2024	ND	ND	ND	243	57.6	243	300.6	46.1
BES24-08	4	August 19, 2024	ND	ND	ND	54	ND	54	54	98
BES24-09	4	August 19, 2024	ND	ND	ND	81.8	ND	81.8	81.8	ND
BES24-10	4	August 19, 2024	ND	ND	ND	779	157	779	936	55.3
WES24-01	0-4	August 16, 2024	-	-	-	-	-	-	-	-
WES24-02	0-4	August 16, 2024	-	-	-	-	-	-	-	-
WES24-03	0-4	August 16, 2024	-	-	-	-	-	-	-	-
WES24-04	0-4	August 19, 2024	ND	ND	ND	26.4	ND	26.4	26.4	ND
WES24-05	4-8	August 19, 2024	ND	0.118	ND	329	55.1	329	384.1	ND
WES24-06	4-8	August 19, 2024	ND	0.2903	ND	832	103	832	935	52
WES24-07	4-6	August 19, 2024	ND	ND	ND	113	ND	113	113	ND
WES24-08	0-4	August 19, 2024	ND	ND	ND	51.3	ND	51.3	51.3	51
WES24-09	0-4	August 19, 2024	ND	ND	ND	ND	ND	ND	ND	50
WES24-10	0-4	August 19, 2024	ND	ND	ND	63.9	ND	63.9	63.9	95
WES24-11	0-4	August 19, 2024	ND	ND	ND	189	77	189	266	51
WES24-12	0-4	August 19, 2024	-	-	-	-	-	-	-	-
WES24-13	0-4	August 19, 2024	ND	ND	ND	ND	ND	ND	ND	90
WES24-14	0-4	August 19, 2024	-	-	-	-	-	-	-	-
WES24-15	0-4	August 19, 2024	ND	ND	ND	115	50	115	165	66
WES24-16	0-4	August 19, 2024	ND	ND	ND	128	ND	128	128	52
WES24-17	0-4	September 4, 2024	-	-	-	-	-	-	-	-
WES24-18	0-5	September 4, 2024	-	-	-	-	-	-	-	-
WES24-19	0-5	September 4, 2024	-	-	-	-	-	-	-	-
WES24-20	0-5	September 4, 2024	-	-	-	-	-	-	-	-
WES24-21	0-4	September 4, 2024	ND	ND	ND	ND	ND	ND	ND	52
WES24-22	0-4	September 4, 2024	ND	ND	ND	ND	ND	ND	ND	34
WES24-23	0-4	September 4, 2024	ND	ND	ND	ND	ND	ND	ND	129

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Reclamation Criteria (on-pad)

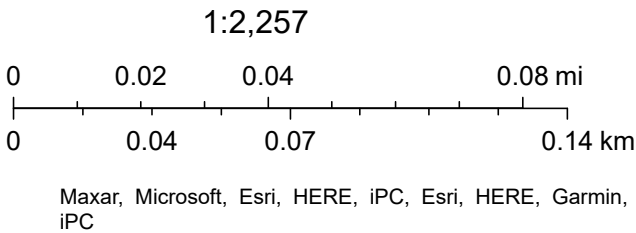
APPENDIX A – Closure Criteria Research Documentation

OSE POD Location Map



10/28/2024, 1:29:55 PM

- Override 1
- GIS WATERS PODs
- Plugged
- OSE District Boundary
- Water Right Regulations
- Closure Area



Water Right Summary



[get image](#)
[list](#)

WR File Number:	C 04867	Subbasin:	CUB	Cross Reference:
Primary Purpose:	EXP EXPLORATION			
Primary Status:	PMT Permit			
Total Acres:		Subfile:	Header:	
Total Diversion:	0.000	Cause/Case:		
Owner:	TAP ROCK OPERATING, LLC.			
Contact:	BILL RAMSEY			
Owner:	VERTEX RESOURCE SERVICES, INC.			
Contact:	CHANCE DIXON			

Documents on File

(acre-fee)

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion
.get images	765050	EXPL	2024-08-13	PMT	APR	C 04867 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 04867 POD1	NA		SE	SE	SW	15	24S	33E	635529.8	3564815.6		


* UTM location was derived from PLSS - see Help

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

Point of Diversion Summary

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 04867 POD1	SE	SE	SW	15	24S	33E	635529.8	3564815.6	

* UTM location was derived from PLSS - see Help

Driller License:	1833	Driller Company:	VISION RESOURCES, INC		
Driller Name:	JASON MALEY				
Drill Start Date:	2024-08-22	Drill Finish Date:	2024-08-22	Plug Date:	2024-08-26
Log File Date:	PCW Rcv Date:		Source:		
Pump Type:	Pipe Discharge Size:		Estimated Yield:		
Casing Size:	Depth Well:	105	Depth Water:		

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



Jackson Unit #003 Watercourse 1896ft



July 6, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- 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.



Jackson Unit #003 Pond 8,861ft



July 6, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond




- Lake
- Other
- Riverine

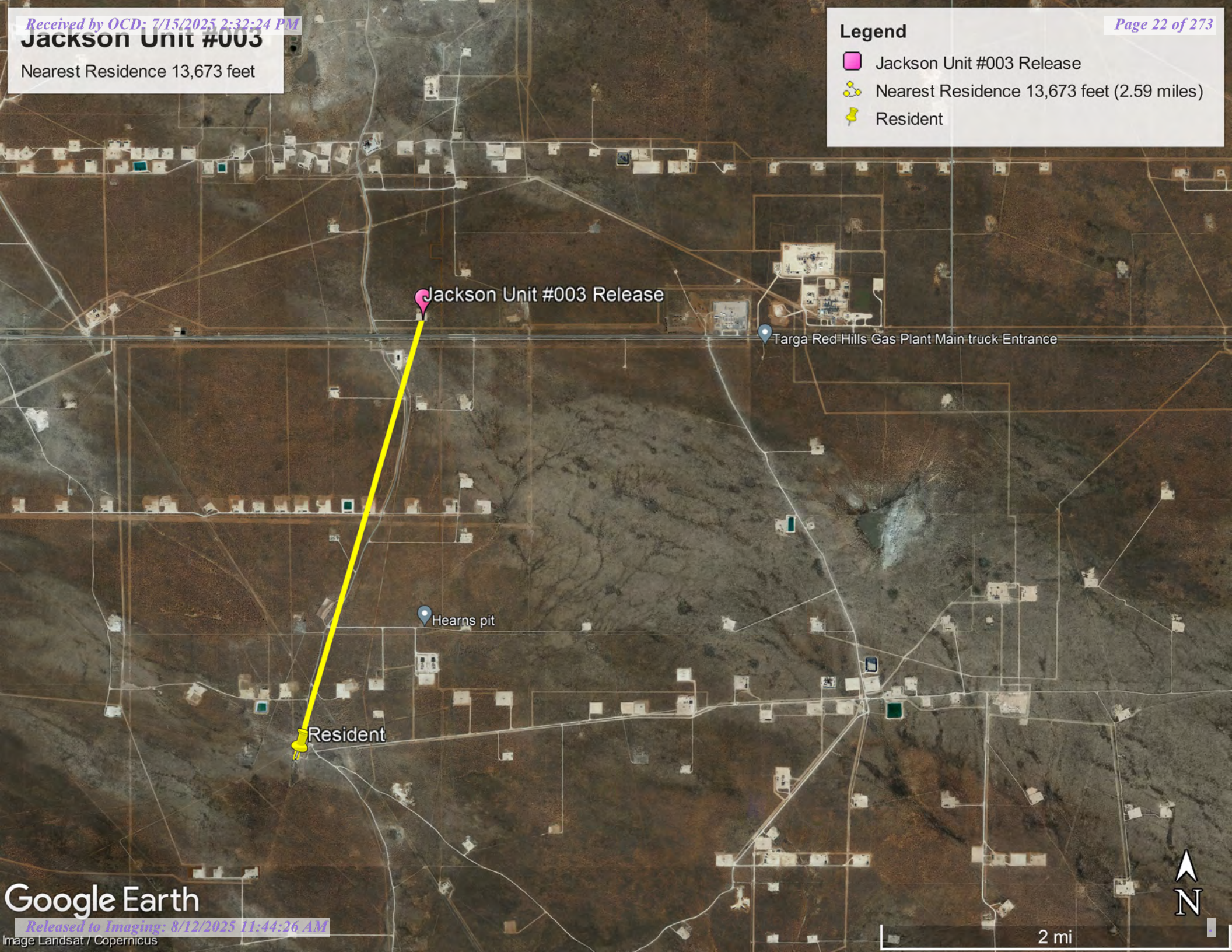
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Jackson Unit #003

Nearest Residence 13,673 feet

Legend

-  Jackson Unit #003 Release
-  Nearest Residence 13,673 feet (2.59 miles)
-  Resident





New Mexico Office of the State Engineer





















Active & Inactive Points of Diversion

(with Ownership Information)

(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)

WR File Nbr	(acre ft per annum)				County	POD Number	Well Tag	C=the file is closed)			(quarters are smallest to largest)					(NAD83 UTM in meters)				
	Sub basin	Use	Diversion	Owner				Code	Grant	Source	64	16	4	Sec	Tws	Rng	X	Y	Distance	
C 03585	CUB	EXP	0	INTERCONTINENTAL POTASH CORP	LE	C 03585 POD3					1	2	3	15	24S	33E	635393	3565270		464
					LE	C 03585 POD2					1	2	3	15	24S	33E	635418	3565363		550
					LE	C 03585 POD1					3	4	1	15	24S	33E	635368	3565544		737
C 03565	CUB	EXP	0	INTERCONTINENTAL POTASH CORP	LE	C 03565 POD8					4	1	15	24S	33E	635484	3565610		791	
C 03585	CUB	EXP	0	INTERCONTINENTAL POTASH CORP	LE	C 03585 POD4					4	4	1	15	24S	33E	635485	3565610		792
					LE	C 03585 POD5					1	2	4	15	24S	33E	636245	3565387		937
C 03565	CUB	EXP	0	INTERCONTINENTAL POTASH CORP	LE	C 03565 POD9					4	4	15	24S	33E	636429	3565005		948	
C 03585	CUB	EXP	0	INTERCONTINENTAL POTASH CORP	LE	C 03585 POD6					2	4	4	15	24S	33E	636431	3565007		950
C 04339	CUB	MON	0	OWL LANDFILL SERVICES LLC	LE	C 04339 POD7	NA				4	4	2	23	24S	33E	636473	3564011		1264
					LE	C 04339 POD8					1	1	3	23	24S	33E	636518	3563681		1527
C 03565	CUB	EXP	0	INTERCONTINENTAL POTASH CORP	LE	C 03565 POD6					3	3	10	24S	33E	635022	3566373		1626	
C 04822	CUB	MON	0	TAP ROCK RESOURCES	LE	C 04822 POD1	NA				2	2	3	16	24S	33E	633904	3565271		1658
C 04339	CUB	MON	0	OWL LANDFILL SERVICES LLC	LE	C 04339 POD1	NA				1	3	3	23	24S	33E	636525	3563309		1825
C 03662	C	DOL	3	MARK MCCLOY (M&M RANCH)	LE	C 03662 POD1				Shallow	3	1	2	23	24S	33E	637342	3564428		1883
C 03727	C	PRO	0	EOG RESOURCES INC	LE	C 03662 POD1				Shallow	3	1	2	23	24S	33E	637342	3564428		1883
C 03728	C	PRO	0	EOG RESOURCES INC	LE	C 03662 POD1				Shallow	3	1	2	23	24S	33E	637342	3564428		1883
C 03729	C	PRO	0	EOG RESOURCES INC	LE	C 03662 POD1				Shallow	3	1	2	23	24S	33E	637342	3564428		1883
C 04339	CUB	MON	0	OWL LANDFILL SERVICES LLC	LE	C 04339 POD6	NA				3	1	2	23	24S	33E	637340	3564386		1890
C 04824	CUB	MON	0	TAP ROCK RESOURCES	LE	C 04824 POD1	NA				1	1	2	16	24S	33E	634112	3566203		1960
C 04339	CUB	MON	0	OWL LANDFILL SERVICES LLC	LE	C 04339 POD2	NA				2	3	3	23	24S	33E	636789	3563315		1980

Record Count: 20

UTMNAD83 Radius Search (in meters):

Easting (X): 635500

Northing (Y): 3564819

Radius: 2000

Sorted by: Distance

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



New Mexico Office of the State Engineer


Water Right Summary



[get image list](#)

WR File Number: C 03565 **Subbasin:** CUB **Cross Reference:** -
Primary Purpose: EXP EXPLORATION
Primary Status:
Total Acres: **Subfile:** - **Header:** -
Total Diversion: 0 **Cause/Case:** -
Owner: INTERCONTINENTAL POTASH CORP
Contact: TOM COPE

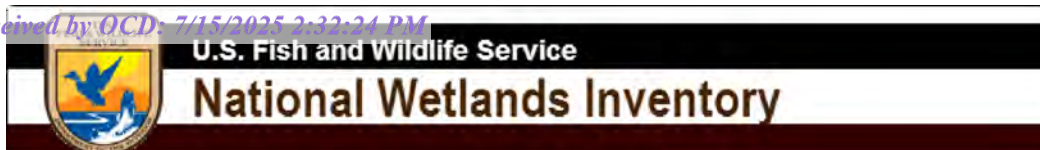
Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/		Acres	Diversion	Consumptive
			1	2		To				
 get images	509298	EXPL	2012-08-07	PMT	APR	C 03565	T	0	0	

Current Points of Diversion

(NAD83 UTM in meters)									
POD Number	Well Tag	Source	Q			X	Y	Other Location Desc	
			64	Q16	Q4Sec	Tws	Rng		
C 03565 POD1			1	4	06	24S	33E	630871	3568316 ICP-083
C 03565 POD2			3	4	07	24S	33E	631156	3566515 ICP-084
C 03565 POD3			3	4	08	24S	33E	632763	3566546 ICP-085
C 03565 POD4			4	1	09	24S	33E	633672	3567057 ICP-086
C 03565 POD5			3	4	09	24S	33E	634135	3566496 ICP-87
C 03565 POD6			3	3	10	24S	33E	635022	3566373 ICP-089
C 03565 POD7			2	2	06	24S	33E	631361	3569250 ICP-090
C 03565 POD8			4	1	15	24S	33E	635485	3565610 ICP-092
C 03565 POD9			4	4	15	24S	33E	636430	3565005 ICP-093

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.



Jackson Unit #003 Wetland 6,225ft



June 29, 2024

Wetlands

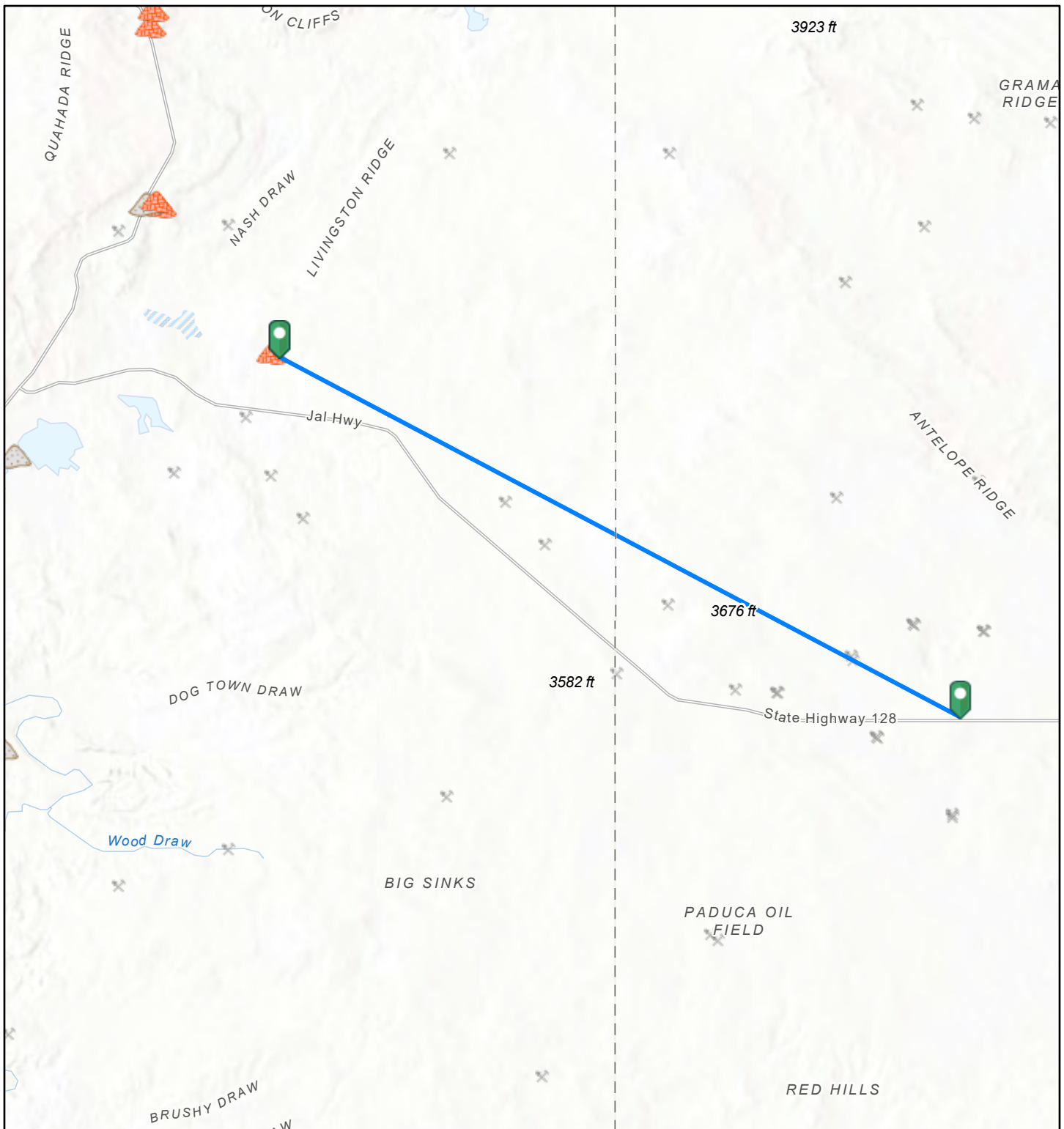
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- 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.

Jackson Unit #003 Mine 112,00ft



10/28/2024, 1:50:19 PM

Registered Mines



Aggregate, Stone etc.



Aggregate, Stone etc.



Aggregate, Stone etc.

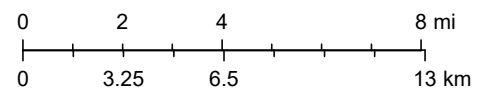


Potash

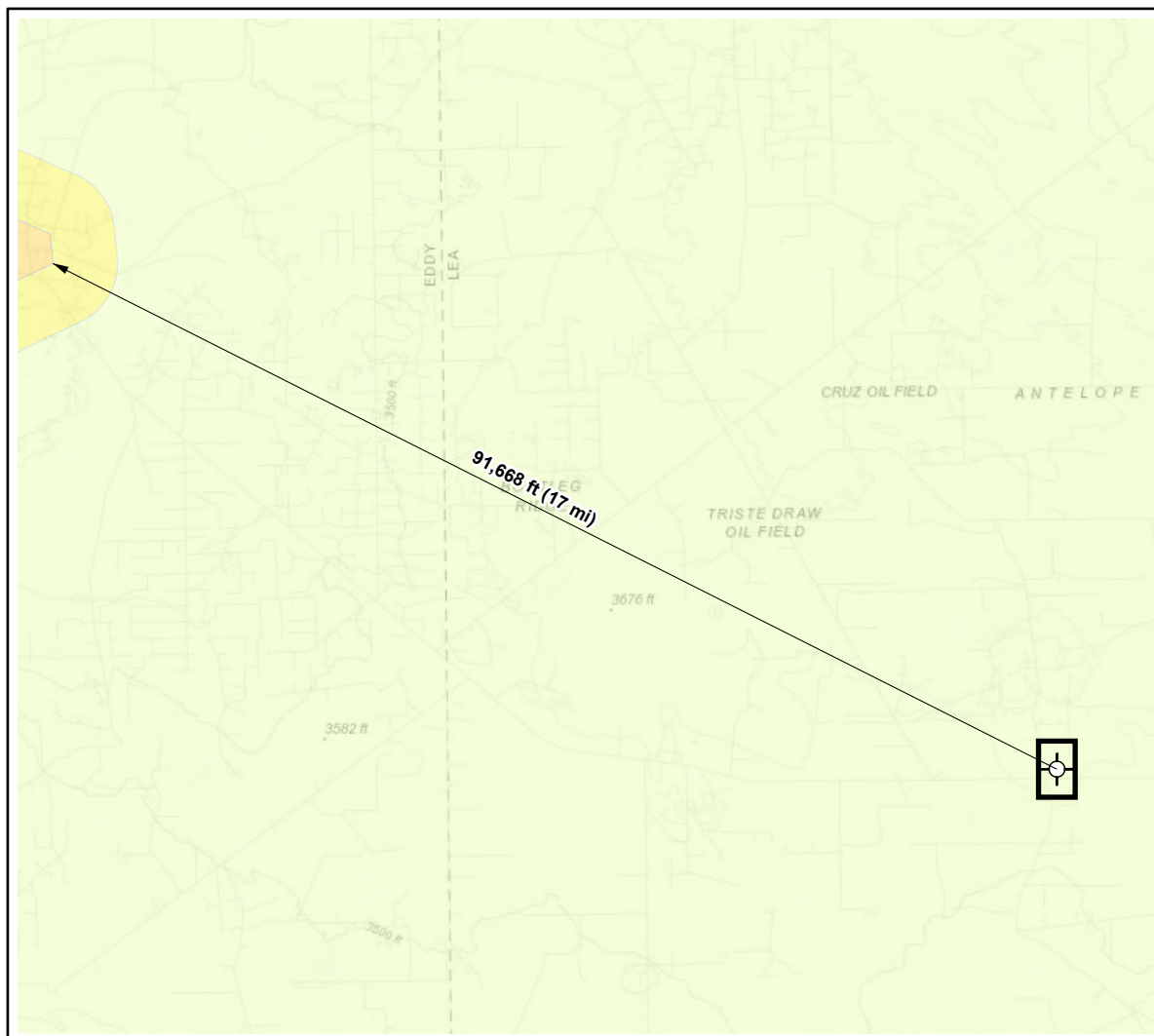


Salt

1:288,895



Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, METI/
NASA, USGS, EPA, NPS, USDA, USFWS, Esri, NASA, NGA, USGS



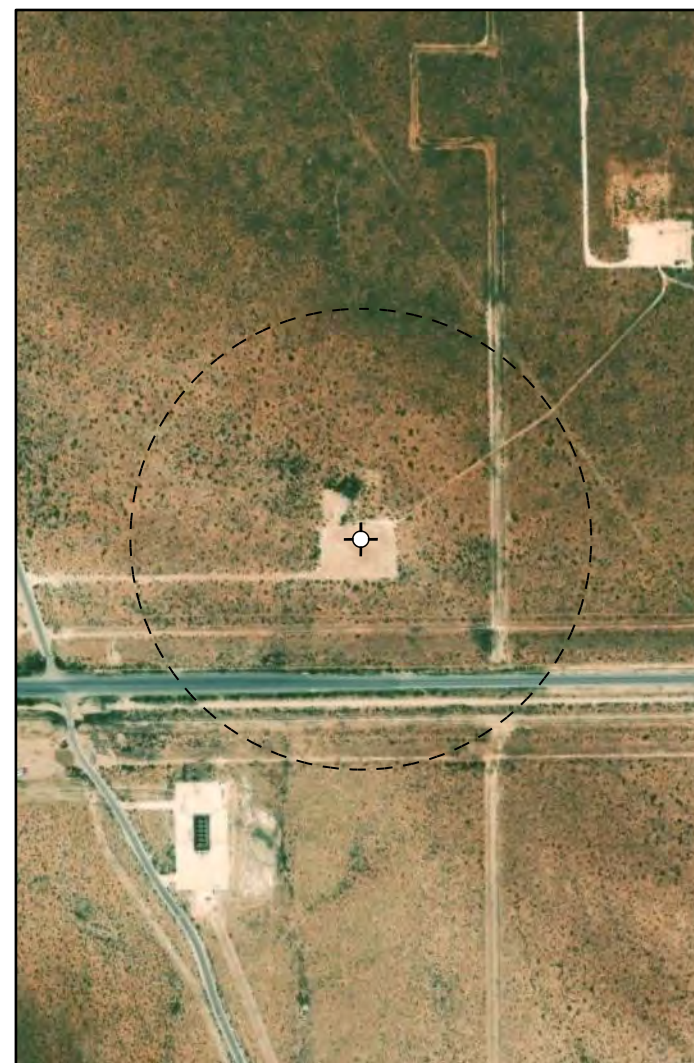
Karst Potential

- Critical
- High
- Medium
- Low

- Site Location
- Site Buffer (1000 ft)

Overview Map

0 0.5 1 2 mi



Detail Map

0 150 300 600 ft



Map Center:
Lat/Long
32.212196°,-103.562317°

NAD 1983 UTM Zone 13N
Date: Jul 03/24



Karst Potential Map Jackson Unit #003

Figure:
X



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: Inset Map, Esri 2022; Overview Map: Esri World Topographic. Karst potential data sources from Roswell Field Office, Bureau of Land Management, 2020 or United States Department of the Interior, Bureau of Land Management, (2018). Karst Potential.

VERSATILITY. EXPERTISE.

National Flood Hazard Layer FIRMette



103°34'3"W 32°12'59"N



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

1:6,000

103°33'26"W 32°12'29"N

Released to Imaging: 8/12/2025 11:44:26 AM

Basemap Imagery Source: USGS National Map 2023

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		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 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
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 6/29/2024 at 1:33 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.

Jackson Unit #003

Nearest FEMA Zone A:
67,208 ft.
12.73 miles

Legend

-  Feature 1
-  Feature 2

32.2121964, -103.5623169

Google Earth

8 mi



Custom Soil Resource Report

Lea County, New Mexico

BH—Berino-Cacique association, hummocky

Map Unit Setting

National map unit symbol: dmpg
Elevation: 3,000 to 4,400 feet
Mean annual precipitation: 10 to 13 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

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

Description of Berino

Setting

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

Typical profile

A - 0 to 10 inches: fine sand
Btk - 10 to 60 inches: sandy clay loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Moderate (about 8.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7c
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Custom Soil Resource Report

Description of Cacique**Setting**

Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 7 inches: fine sand
Bt - 7 to 28 inches: sandy clay loam
Bkm - 28 to 38 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 20 to 40 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 3.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7c
Hydrologic Soil Group: C
Ecological site: R070BD004NM - Sandy
Hydric soil rating: No

Minor Components**Kermit**

Percent of map unit: 4 percent
Ecological site: R070BD005NM - Deep Sand
Hydric soil rating: No

Maljamar

Percent of map unit: 3 percent
Ecological site: R077CY028TX - Limy Upland 16-21" PZ
Hydric soil rating: No

Palomas

Percent of map unit: 2 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Dune land

Percent of map unit: 1 percent
Hydric soil rating: No

Custom Soil Resource Report

SR—Simona-Upton association**Map Unit Setting**

National map unit symbol: dmr3
Elevation: 3,000 to 4,400 feet
Mean annual precipitation: 10 to 16 inches
Mean annual air temperature: 58 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 50 percent
Upton and similar soils: 35 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Simona**Setting**

Landform: Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: gravelly fine sandy loam
Bk - 8 to 16 inches: fine sandy loam
Bkm - 16 to 26 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 50 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: Very low (about 1.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Custom Soil Resource Report

Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

Description of Upton**Setting**

Landform: Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: gravelly loam
Bkm - 8 to 18 inches: cemented material
BCK - 18 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high
(0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 75 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: Very low (about 0.9 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R070BC025NM - Shallow
Hydric soil rating: No

Minor Components**Kimbrough**

Percent of map unit: 6 percent
Ecological site: R077CY037TX - Very Shallow 16-21" PZ
Hydric soil rating: No

Stegall

Percent of map unit: 5 percent
Ecological site: R077CY028TX - Limy Upland 16-21" PZ
Hydric soil rating: No

Slaughter

Percent of map unit: 4 percent
Ecological site: R077CY028TX - Limy Upland 16-21" PZ

APPENDIX B – Daily Field Reports

Daily Site Visit Report



Site Photos

Viewing Direction: Southeast



Northwest corner of western excavation facing southeast.

Viewing Direction: Northeast



Southwest corner of western excavation facing northeast.

Viewing Direction: Northwest



Southeast corner of western excavation facing northwest.

Viewing Direction: Southwest



Northeast corner of western excavation facing southwest.



Daily Site Visit Report

Viewing Direction: Southeast



Northwest corner of eastern excavation facing southeast.

Viewing Direction: Northeast



Southwest corner of eastern excavation facing northeast.

Viewing Direction: Northwest



Southeast corner of eastern excavation facing northwest.

Viewing Direction: Southwest



Northeast corner of eastern excavation facing southwest.






Daily Site Visit Report

<p>Viewing Direction: West</p>  <p><small>Descriptive Photo - 9 Viewing Direction: West Desc: The south 4 ft excavation wall of the western excavation where WES24-01 at 0-4' was collected. Created: 8/16/2024 3:02:44 PM Lat=32.211786, Long=103.584408</small></p> <p>The south 4 ft excavation wall of the western excavation where WES24-01 at 0-4' was collected.</p>	<p>Viewing Direction: North</p>  <p><small>Descriptive Photo - 10 Viewing Direction: North Desc: The west 4 ft excavation wall of the western excavation where WES24-02 at 0-4' was collected. Created: 8/16/2024 3:06:28 PM Lat=32.211785, Long=103.584408</small></p> <p>The west 4 ft excavation wall of the western excavation where WES24-02 at 0-4' was collected.</p>
<p>Viewing Direction: West</p>  <p><small>Descriptive Photo - 11 Viewing Direction: West Desc: The north 4 ft excavation wall of the western excavation where WES24-03 at 0-4' was collected. Created: 8/16/2024 3:07:18 PM Lat=32.211819, Long=103.582280</small></p> <p>The north 4 ft excavation wall of the western excavation where WES24-03 at 0-4' was collected.</p>	<p>Viewing Direction: South</p>  <p><small>Descriptive Photo - 12 Viewing Direction: South Desc: The east 4 ft excavation wall of the western excavation where WES24-04 at 0-4' was collected. Created: 8/16/2024 3:07:58 PM Lat=32.211819, Long=103.582310</small></p> <p>The east 4 ft excavation wall of the western excavation where WES24-04 at 0-4' was collected.</p>



Daily Site Visit Report

<p>Viewing Direction: West</p>  <p>Descriptive Photo - 14 Viewing Direction: West Site: The south and west excavation walls of the 8 ft excavation where WES24-05 was collected. Created: 8/16/2024 3:00:08 PM Lat: 33.1775, Long: -103.662347</p>	<p>Viewing Direction: East</p>  <p>Descriptive Photo - 14 Viewing Direction: East Site: The north and east excavation walls of the 8 ft excavation where WES24-06 was collected. Created: 8/16/2024 3:10:43 PM Lat: 33.1775, Long: -103.662347</p>
<p>The south and west excavation walls of the 8 ft excavation where WES24-05 was collected.</p>	<p>The north and east excavation walls of the 8 ft excavation where WES24-06 was collected.</p>
<p>Viewing Direction: Northeast</p>  <p>Descriptive Photo - 15 Viewing Direction: East Site: The north, east, and south excavation walls of the 6 ft excavation where WES24-07 was collected. Created: 8/16/2024 3:11:08 PM Lat: 33.1775, Long: -103.662347</p>	<p>Viewing Direction: Southeast</p>  <p>Descriptive Photo - 16 Viewing Direction: Southwest Site: The north, east, and south excavation walls of the 6 ft excavation where WES24-07 was collected. Created: 8/16/2024 3:12:41 PM Lat: 33.1775, Long: -103.662347</p>
<p>The north, east, and south excavation walls of the 6 ft excavation where WES24-07 was collected.</p>	<p>The north, east, and south excavation walls of the 6 ft excavation where WES24-07 was collected.</p>



Daily Site Visit Report

Viewing Direction: South



Area where BES24-01 was collected at 4' bgs.

Viewing Direction: South



Area where BES24-02 was collected at 4' bgs.

Viewing Direction: South



Area where BES24-03 was collected at 4' bgs.

Viewing Direction: Southeast



Area where BES24-04 was collected at 8' bgs.



Daily Site Visit Report

Viewing Direction: North



Area where BES24-05 was collected at 6' bgs.

Viewing Direction: West



The south 4 ft excavation wall of the eastern excavation where WES24-08 at 0-4' was collected.

Viewing Direction: North



The west 4 ft excavation wall of the eastern excavation where WES24-09 at 0-4' was collected.

Viewing Direction: East



The north 4 ft excavation wall of the eastern excavation where WES24-03 at 0-4' was collected.



Daily Site Visit Report

Viewing Direction: South



Descriptive Photo - 25
Viewing Direction: South
Desc: The east 4 ft excavation wall of the eastern excavation where WES24-04 at 0-4' was collected.
Created: 8/16/2024 3:25:13 PM
Lat:32.211855, Long:-103.562199

The east 4 ft excavation wall of the eastern excavation where WES24-04 at 0-4' was collected.

Viewing Direction: North



Descriptive Photo - 26
Viewing Direction: North
Desc: Area where BES24-06 was collected at 4' bgs.
Created: 8/16/2024 3:26:47 PM
Lat:32.211785, Long:-103.562147

Area where BES24-06 was collected at 4' bgs.

Viewing Direction: North



Descriptive Photo - 27
Viewing Direction: North
Desc: Area where BES24-07 was collected at 4' bgs.
Created: 8/16/2024 3:27:35 PM
Lat:32.211775, Long:-103.562199

Area where BES24-07 was collected at 4' bgs.

Viewing Direction: North



Descriptive Photo - 28
Viewing Direction: North
Desc: Area where BES24-08 was collected at 4' bgs.
Created: 8/16/2024 3:27:46 PM
Lat:32.211785, Long:-103.562147

Area where BES24-08 was collected at 4' bgs.

Daily Site Visit Report



Site Photos

Viewing Direction: East



Northwest corner of one call.

Viewing Direction: South



Northeast corner of one call.

Viewing Direction: North



Southeast corner of one call.

Viewing Direction: North



Southwest corner of one call.



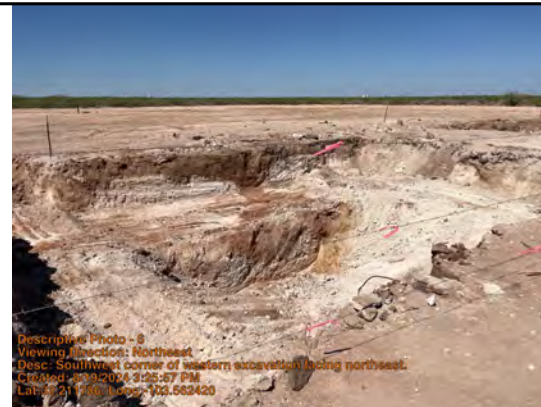
Daily Site Visit Report

Viewing Direction: Southeast



Northwest corner of western excavation facing southeast.

Viewing Direction: Northeast



Southwest corner of western excavation facing northeast.

Viewing Direction: Northwest



Southeast corner of western excavation facing northwest.

Viewing Direction: Southwest



Northeast corner of western excavation facing southwest.



Daily Site Visit Report

Viewing Direction: Southeast



Northwest corner of eastern excavation facing southeast.

Viewing Direction: Northeast



Southwest corner of eastern excavation facing northeast.

Viewing Direction: Northwest



Southeast corner of eastern excavation facing northwest.





Viewing Direction: Southwest



Northeast corner of eastern excavation facing southwest.



Daily Site Visit Report

<p>Viewing Direction: West</p>  <p><small>Descriptive Photo - 19 Viewing Direction: West Depth: The north 4 ft excavation wall of the western excavation where WES24-16 at 0-4' was collected. Created: 8/19/2024 3:34:28 PM Lat:32.211895, Long:-103.582257</small></p> <p>The north 4 ft excavation wall of the western excavation where WES24-16 at 0-4' was collected.</p>	<p>Viewing Direction: West</p>  <p><small>Descriptive Photo - 14 Viewing Direction: West Depth: The south 4 ft excavation wall of the western excavation where WES24-15 at 0-4' was collected. Created: 8/19/2024 3:35:42 PM Lat:32.211895, Long:-103.582189</small></p> <p>The south 4 ft excavation wall of the western excavation where WES24-15 at 0-4' was collected.</p>
<p>Viewing Direction: South</p>  <p><small>Descriptive Photo - 13 Viewing Direction: South Depth: The west 4 ft excavation wall of the western excavation where WES24-13 at 0-4' was collected. Created: 8/19/2024 3:37:20 PM Lat:32.211816, Long:-103.582413</small></p> <p>The west 4 ft excavation wall of the western excavation where WES24-13 at 0-4' was collected.</p>	<p>Viewing Direction: South</p>  <p><small>Descriptive Photo - 16 Viewing Direction: South Depth: The east 4 ft excavation wall of the western excavation where WES24-04 at 0-4' was collected. Created: 8/19/2024 3:38:32 PM Lat:32.211895, Long:-103.582312</small></p> <p>The east 4 ft excavation wall of the western excavation where WES24-04 at 0-4' was collected.</p>



Daily Site Visit Report

Viewing Direction: Southwest



The south and west excavation walls of the 8 ft excavation where WES24-05 was collected.

Viewing Direction: Northeast



The north and east excavation walls of the 8 ft excavation where WES24-06 was collected.

Viewing Direction: East



The north, east, and south excavation walls of the 6 ft excavation where WES24-07 was collected.

Viewing Direction: South



Area where BES24-01 and -09 were collected at 4' bgs.



Daily Site Visit Report

Viewing Direction: South



Area where BES24-02 was collected at 4' bgs.

Viewing Direction: South



Area where BES24-03 and -10 were collected at 4' bgs.

Viewing Direction: West



Area where BES24-04 was collected at 8' bgs.





Viewing Direction: Northeast



Area where BES24-05 was collected at 6' bgs.



Daily Site Visit Report

<p>Viewing Direction: East</p>  <p><small>Descriptive Photo - 25 Viewing Direction: East Desc: The south 4 ft excavation wall of the eastern excavation where WES24-08 at 0-4' was collected. Created: 8/19/2024 3:53:45 PM Lat:32.211894, Long:-103.562222</small></p> <p>The south 4 ft excavation wall of the eastern excavation where WES24-08 at 0-4' was collected.</p>	<p>Viewing Direction: North</p>  <p><small>Descriptive Photo - 26 Viewing Direction: North Desc: The west 4 ft excavation wall of the eastern excavation where WES24-09 at 0-4' was collected. Created: 8/19/2024 3:54:30 PM Lat:32.211855, Long:-103.562904</small></p> <p>The west 4 ft excavation wall of the eastern excavation where WES24-09 at 0-4' was collected.</p>
<p>Viewing Direction: East</p>  <p><small>Descriptive Photo - 27 Viewing Direction: East Desc: The north 4 ft excavation wall of the eastern excavation where WES24-10 at 0-4' was collected. Created: 8/19/2024 3:56:23 PM Lat:32.211882, Long:-103.562277</small></p> <p>The north 4 ft excavation wall of the eastern excavation where WES24-10 at 0-4' was collected.</p>	<p>Viewing Direction: Northeast</p>  <p><small>Descriptive Photo - 28 Viewing Direction: Northeast Desc: The east 4 ft excavation wall of the eastern excavation where WES24-11 at 0-4' was collected. Created: 8/19/2024 3:56:15 PM Lat:32.211851, Long:-103.562149</small></p> <p>The east 4 ft excavation wall of the eastern excavation where WES24-11 at 0-4' was collected.</p>



Daily Site Visit Report

Viewing Direction: North



Area where BES24-06 was collected at 4' bgs.

Viewing Direction: North



Area where BES24-07 was collected at 4' bgs.

Viewing Direction: North



Area where BES24-08 was collected at 4' bgs.



Daily Site Visit Report

Client:	Tap Rock	Inspection Date:	9/4/2024
Site Location Name:	Jackson Unit #003	Report Run Date:	9/4/2024 11:56 PM
Client Contact Name:	Bill Ramsey	API #:	
Client Contact Phone #:	720-238-2787		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	9/4/2024 7:22 AM
Departed Site	9/4/2024 1:00 PM

Field Notes

- 8:02** Arrived on site, completed JSA and held a safety brief along with the scope of work that needed to be done with the crew from APECK.
- 8:03** On site today to continue the ongoing excavation.
- 15:42** BS24-01 was pushed to 5ft bgs. WS24-11 was pushed out approximately 2ft. WS24-15 was pushed out approximately 3-4ft. WS24-16 was pushed out approximately 3-4ft.
- 15:44** 10 samples were collected during the excavation today. All samples were screened for TPH using a Dexsil Petroflag and the clean samples (4 samples) were screened for chlorides using silver nitrate titration.
- 15:45** 4 samples were jarred in preparation to be sent to Envirotech laboratory for further analysis.
- 15:45** All walls and bases of the east and west excavation meet NMOCD closure criteria.

Next Steps & Recommendations

- 1 Proceed with confirmation sampling.

Daily Site Visit Report



Site Photos

Viewing Direction: Southeast



WES24-15 at 0-5ft bgs. Located on the south wall of the 5ft excavation.

Viewing Direction: Northeast



WES24-16 at 0-5ft bgs. Located on the north wall of the 5ft excavation.

Viewing Direction: East



BES24-01 at 5ft bgs.

Viewing Direction: Northwest



Overview of the 5ft excavation, viewed from the southeast corner.



Daily Site Visit Report

<p>Viewing Direction: East</p>  <p>Photograph Photo - 6 Viewing Direction: East Desc: Overview of the 5ft excavation viewed from the the western wall. Created: 9/4/2024 12:02:56 PM Lat: 32.211819, Long: -103.553472</p> <p>Overview of the 5ft excavation viewed from the the western wall.</p>	<p>Viewing Direction: East</p>  <p>Photograph Photo - 6 Viewing Direction: East Desc: WES24-11 at 0-4ft bgs inside the 4ft excavation. Created: 9/4/2024 12:04:02 PM Lat: 32.211819, Long: -103.553472</p> <p>WES24-11 at 0-4ft bgs inside the 4ft excavation.</p>
<p>Viewing Direction: West</p>  <p>Photograph Photo - 7 Viewing Direction: West Desc: Overview of the 4ft bgs excavation viewed from the northeast corner. Created: 9/4/2024 12:05:00 PM Lat: 32.211819, Long: -103.553472</p> <p>Overview of the 4ft bgs excavation viewed from the northeast corner.</p>	<p>Viewing Direction: East</p>  <p>Photograph Photo - 8 Viewing Direction: East Desc: Overview of the 4ft bgs excavation, viewed from the southwest corner. Created: 9/4/2024 12:05:00 PM Lat: 32.211819, Long: -103.553472</p> <p>Overview of the 4ft bgs excavation, viewed from the southwest corner.</p>



Daily Site Visit Report

Viewing Direction: South



Soil pile sitting on top of a plastic liner.
Approximately 80-120 cubic yards of soil.

Viewing Direction: South



The entire excavation has been fenced off for safety purposes after work was completed for the day.

Viewing Direction: South



Smaller soil pile next to the 4ft excavation.

















Daily Site Visit Report



Site Photos

Viewing Direction: Northwest



East end of ripped two-track road

Viewing Direction: West



East end of ripped two-track road, moving towards the west

Viewing Direction: West



East half of ripped two-track road, moving towards the west

Viewing Direction: West



East half of ripped two-track road, moving towards the west



Daily Site Visit Report

Viewing Direction: West



East half of ripped two-track road, moving towards the west

Viewing Direction: West



East half of ripped two-track road, moving towards the west

Viewing Direction: West



East end of two-track road, moving towards the west

Viewing Direction: Northwest



Ripped two-track road, south of north pad



Daily Site Visit Report

Viewing Direction: North



Ripped two-track road, south of north pad

Viewing Direction: South



Ripped two-track, south of north pad, heading towards pad/pit

Viewing Direction: Southwest



Ripped two-track road heading west towards pad/pit





Viewing Direction: Southwest



Ripped two-track road heading west towards pad/pit



Daily Site Visit Report

<p>Viewing Direction: Southwest</p>  <p>Descriptive Photo - 13 Viewing Direction: Southwest Desc: Two-track road heading west towards pad/pit Created: 5/19/2025 11:20:23 AM Lat:32.214311, Long:-103.559210</p>	<p>Viewing Direction: Southwest</p>  <p>Descriptive Photo - 14 Viewing Direction: Southwest Desc: Two-track road heading west towards pad/pit Created: 5/19/2025 11:23:19 AM Lat:32.213806, Long:-103.559468</p>
<p>Ripped two-track heading west towards pad/pit</p>	<p>Ripped two-track heading west towards pad/pit</p>
<p>Viewing Direction: Southwest</p>  <p>Descriptive Photo - 15 Viewing Direction: Southwest Desc: Two-track road heading west towards pad/pit Created: 5/19/2025 11:25:16 AM Lat:32.215387, Long:-103.559156</p>	<p>Viewing Direction: Southwest</p>  <p>Descriptive Photo - 16 Viewing Direction: Southwest Desc: Two-track road heading west towards pad/pit Created: 5/19/2025 11:27:28 AM Lat:32.212536, Long:-103.559093</p>
<p>Ripped two-track heading west towards pad/pit</p>	<p>Ripped two-track road heading west towards pad/pit</p>



Daily Site Visit Report

Viewing Direction: Southwest



Ripped two-track heading west towards pad/pit

Viewing Direction: West



Northeast corner of reclaimed pad facing west.

Viewing Direction: South



Northeast corner of reclaimed pad facing south

Viewing Direction: South



North, center of reclaimed pad facing south towards plugged wellhead



Daily Site Visit Report

Viewing Direction: West



North, center of reclaimed pad facing west

Viewing Direction: Northwest



North, center of reclaimed pad facing northwest.

Viewing Direction: Southwest



Northeast corner of reclaimed pad facing southwest

Viewing Direction: West



Northeast corner of reclaimed pad facing west



Daily Site Visit Report

Viewing Direction: Southeast



Northwest corner of reclaimed pad facing southeast

Viewing Direction: South



Northwest corner of reclaimed pad facing south

Viewing Direction: Northeast



Southwest corner of reclaimed pad facing northeast





Viewing Direction: East



West, center of reclaimed pad facing east towards plugged wellhead



Daily Site Visit Report

<p>Viewing Direction: South</p>  <p><small>Descriptive Photo - 29 Viewing Direction: South Desc: West, center of reclaimed pad facing east towards plugged wellhead Created: 5/19/2025 11:53:05 AM Lat:32.212202, Long:-103.562861</small></p>	<p>Viewing Direction: Northeast</p>  <p><small>Descriptive Photo - 30 Viewing Direction: Northeast Desc: Southwest corner of reclaimed pad facing northeast Created: 5/19/2025 11:55:05 AM Lat:32.211758, Long:-103.562809</small></p>
<p>West, center of reclaimed pad facing east towards plugged wellhead</p>	<p>Southwest corner of reclaimed pad facing northeast</p>
<p>Viewing Direction: East</p>  <p><small>Descriptive Photo - 31 Viewing Direction: East Desc: Southwest corner of reclaimed pad facing east Created: 5/19/2025 11:56:33 AM Lat:32.211765, Long:-103.562900</small></p>	<p>Viewing Direction: North</p>  <p><small>Descriptive Photo - 32 Viewing Direction: North Desc: South, center of reclaimed pad facing north towards plugged wellhead Created: 5/19/2025 11:58:15 AM Lat:32.211781, Long:-103.562324</small></p>
<p>Southwest corner of reclaimed pad facing east</p>	<p>South, center of reclaimed pad facing north towards plugged wellhead</p>



Daily Site Visit Report

Viewing Direction: West



Southeast corner of reclaimed pad facing west

Viewing Direction: North



Southeast corner of reclaimed pad facing north

Viewing Direction: West



East, center of reclaimed pad facing west towards plugged wellhead





Viewing Direction: West



Reclaimed access road facing west





Daily Site Visit Report

<p>Viewing Direction: West</p>  <p>Descriptive Photo - 37 Viewing Direction: West Desc: Reclaimed access road moving to the west Created: 5/19/2025 12:08:41 PM Lat:32.211755, Long:-103.553274</p>	<p>Viewing Direction: West</p>  <p>Descriptive Photo - 38 Viewing Direction: West Desc: Reclaimed access road moving to the west Created: 5/19/2025 12:10:44 PM Lat:32.211755, Long:-103.553600</p>
Reclaimed access road moving to the west	Reclaimed access road moving to the west
<p>Viewing Direction: West</p>  <p>Descriptive Photo - 39 Viewing Direction: West Desc: Reclaimed access road moving to the west Created: 5/19/2025 12:12:04 PM Lat:32.211755, Long:-103.554677</p>	<p>Viewing Direction: West</p>  <p>Descriptive Photo - 40 Viewing Direction: West Desc: Reclaimed access road moving to the west Created: 5/19/2025 12:13:54 PM Lat:32.211755, Long:-103.555845</p>
Reclaimed access road moving to the west	Reclaimed access road moving to the west



Daily Site Visit Report

Viewing Direction: West	Viewing Direction: East
 <p>Descriptive Photo - 61 Viewing Direction: West Desc: East end of reclaimed access road Created: 5/19/2025 12:45:41 PM Lat:32.211798, Long:-103.588477</p>	 <p>Descriptive Photo - 62 Viewing Direction: East Desc: West end of reclaimed access road Created: 5/19/2025 12:43:08 PM Lat:32.211798, Long:-103.588706</p>
East end of reclaimed access road	West end of reclaimed access road

APPENDIX C – Laboratory Data Report(s) and Chain of Custody Form(s)

Report to:
Chance Dixon



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Vertex Resource Services Inc.

Project Name: Jackson Unit #003

Work Order: E407052

Job Number: 24015-001

Received: 7/10/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/11/24

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: 7/11/24

Chance Dixon
3101 Boyd Drive
Carlsbad, NM 88220



Project Name: Jackson Unit #003
Workorder: E407052
Date Received: 7/10/2024 8:30:00AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/10/2024 8:30:00AM, under the Project Name: Jackson Unit #003.

The analytical test results summarized in this report with the Project Name: Jackson Unit #003 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 #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 07/11/24 13:18
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH24-01 0'	E407052-01A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.
BH24-01 1'	E407052-02A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.
BH24-01 2'	E407052-03A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.
BH24-01 3'	E407052-04A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.
BH24-01 4'	E407052-05A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.
BH24-02 0'	E407052-06A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.
BH24-02 1'	E407052-07A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.
BH24-02 2'	E407052-08A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.
BH24-02 3'	E407052-09A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.
BH24-02 4'	E407052-10A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.
BH24-03 0'	E407052-11A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.
BH24-03 1'	E407052-12A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.
BH24-03 2'	E407052-13A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.
BH24-03 3'	E407052-14A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.
BH24-04 0'	E407052-15A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.
BH24-04 1'	E407052-16A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.
BH24-04 2'	E407052-17A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.
BH24-04 3'	E407052-18A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.
BH24-05 0'	E407052-19A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.
BH24-05 1'	E407052-20A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 1:18:27PM
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BH24-01 0'
E407052-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2428053	
Benzene	ND	0.0250	1	07/10/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/11/24	
Toluene	ND	0.0250	1	07/10/24	07/11/24	
o-Xylene	ND	0.0250	1	07/10/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/11/24	
Surrogate: 4-Bromochlorobenzene-PID	90.1 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2428053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.5 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2428049	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/10/24	
Surrogate: n-Nonane	93.6 %	50-200		07/10/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2428057	
Chloride	42.2	20.0	1	07/10/24	07/10/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 1:18:27PM
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BH24-01 1'
E407052-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2428053	
Benzene	ND	0.0250	1	07/10/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/11/24	
Toluene	ND	0.0250	1	07/10/24	07/11/24	
o-Xylene	ND	0.0250	1	07/10/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/11/24	
Surrogate: 4-Bromochlorobenzene-PID	91.5 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2428053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.3 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2428049	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/10/24	
Surrogate: n-Nonane	93.4 %	50-200		07/10/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2428057	
Chloride	ND	20.0	1	07/10/24	07/10/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 1:18:27PM
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BH24-01 2'
E407052-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2428053	
Benzene	ND	0.0250	1	07/10/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/11/24	
Toluene	ND	0.0250	1	07/10/24	07/11/24	
o-Xylene	ND	0.0250	1	07/10/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/11/24	
Surrogate: 4-Bromochlorobenzene-PID	92.0 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2428053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.6 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2428049	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/10/24	
Surrogate: n-Nonane	88.6 %	50-200		07/10/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2428057	
Chloride	ND	20.0	1	07/10/24	07/10/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 1:18:27PM
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BH24-01 3'
E407052-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2428053	
Benzene	ND	0.0250	1	07/10/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/11/24	
Toluene	ND	0.0250	1	07/10/24	07/11/24	
o-Xylene	ND	0.0250	1	07/10/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/11/24	
Surrogate: 4-Bromochlorobenzene-PID	92.5 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2428053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.5 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2428049	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/10/24	
Surrogate: n-Nonane	95.6 %	50-200		07/10/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2428057	
Chloride	ND	20.0	1	07/10/24	07/10/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-001
Project Manager: Chance Dixon

Reported:
7/11/2024 1:18:27PM

BH24-01 4'

E407052-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2428053	
Benzene	ND	0.0250	1	07/10/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/11/24	
Toluene	ND	0.0250	1	07/10/24	07/11/24	
o-Xylene	ND	0.0250	1	07/10/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.4 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2428053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.6 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2428049	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/10/24	
<i>Surrogate: n-Nonane</i>	97.7 %	50-200		07/10/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2428057	
Chloride	ND	20.0	1	07/10/24	07/10/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 1:18:27PM
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BH24-02 0'
E407052-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2428053
Benzene	ND	0.0250	1	07/10/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/11/24	
Toluene	ND	0.0250	1	07/10/24	07/11/24	
o-Xylene	ND	0.0250	1	07/10/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.6 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2428053
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.3 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2428049
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/10/24	
<i>Surrogate: n-Nonane</i>						
	96.2 %	50-200		07/10/24	07/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2428057
Chloride	ND	20.0	1	07/10/24	07/10/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 1:18:27PM
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BH24-02 1'
E407052-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2428053
Benzene	ND	0.0250	1	07/10/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/11/24	
Toluene	ND	0.0250	1	07/10/24	07/11/24	
o-Xylene	ND	0.0250	1	07/10/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.7 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2428053
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.6 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2428049
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/10/24	
<i>Surrogate: n-Nonane</i>						
	95.8 %	50-200		07/10/24	07/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2428057
Chloride	ND	20.0	1	07/10/24	07/10/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 1:18:27PM
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BH24-02 2'
E407052-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2428053	
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: 4-Bromochlorobenzene-PID	91.5 %	70-130		07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2428053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.3 %	70-130		07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2428049	
Diesel Range Organics (C10-C28)	45.7	25.0	1	07/10/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/10/24	
Surrogate: n-Nonane	93.3 %	50-200		07/10/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2428057	
Chloride	ND	20.0	1	07/10/24	07/10/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-001
Project Manager: Chance Dixon

Reported:
7/11/2024 1:18:27PM

BH24-02 3'

E407052-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2428053
Benzene	ND	0.0250	1	07/10/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/11/24	
Toluene	ND	0.0250	1	07/10/24	07/11/24	
o-Xylene	ND	0.0250	1	07/10/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.3 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2428053
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.3 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2428049
Diesel Range Organics (C10-C28)	169	25.0	1	07/10/24	07/10/24	
Oil Range Organics (C28-C36)	79.2	50.0	1	07/10/24	07/10/24	
<i>Surrogate: n-Nonane</i>						
	95.3 %	50-200		07/10/24	07/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2428057
Chloride	ND	20.0	1	07/10/24	07/10/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 1:18:27PM
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BH24-02 4'
E407052-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2428053	
Benzene	ND	0.0250	1	07/10/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/11/24	
Toluene	ND	0.0250	1	07/10/24	07/11/24	
o-Xylene	ND	0.0250	1	07/10/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/11/24	
Surrogate: 4-Bromochlorobenzene-PID	92.1 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2428053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.4 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2428049	
Diesel Range Organics (C10-C28)	321	25.0	1	07/10/24	07/10/24	
Oil Range Organics (C28-C36)	116	50.0	1	07/10/24	07/10/24	
Surrogate: n-Nonane	99.7 %	50-200		07/10/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2428057	
Chloride	ND	20.0	1	07/10/24	07/10/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 1:18:27PM
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BH24-03 0'
E407052-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2428053	
Benzene	ND	0.0250	1	07/10/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/11/24	
Toluene	ND	0.0250	1	07/10/24	07/11/24	
o-Xylene	ND	0.0250	1	07/10/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/11/24	
Surrogate: 4-Bromochlorobenzene-PID	92.7 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2428053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.1 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2428049	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/10/24	
Surrogate: n-Nonane	100 %	50-200		07/10/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2428057	
Chloride	ND	20.0	1	07/10/24	07/10/24	

Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-001
Project Manager: Chance Dixon

Reported:
7/11/2024 1:18:27PM

BH24-03 1'

E407052-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2428053
Benzene	ND	0.0250	1	07/10/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/11/24	
Toluene	ND	0.0250	1	07/10/24	07/11/24	
o-Xylene	ND	0.0250	1	07/10/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.7 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2428053
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.7 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2428049
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/10/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		07/10/24	07/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2428057
Chloride	ND	20.0	1	07/10/24	07/10/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-001
Project Manager: Chance Dixon

Reported:
7/11/2024 1:18:27PM

BH24-03 2'

E407052-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2428053
Benzene	ND	0.0250	1	07/10/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/11/24	
Toluene	ND	0.0250	1	07/10/24	07/11/24	
o-Xylene	ND	0.0250	1	07/10/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.5 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2428053
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.6 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2428049
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24	
<i>Surrogate: n-Nonane</i>						
	92.9 %	50-200		07/10/24	07/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2428057
Chloride	ND	20.0	1	07/10/24	07/10/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 1:18:27PM
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BH24-03 3'
E407052-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2428053	
Benzene	ND	0.0250	1	07/10/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/11/24	
Toluene	ND	0.0250	1	07/10/24	07/11/24	
o-Xylene	ND	0.0250	1	07/10/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.7 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2428053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.9 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2428049	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24	
<i>Surrogate: n-Nonane</i>						
	87.6 %	50-200		07/10/24	07/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2428057	
Chloride	ND	20.0	1	07/10/24	07/10/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 1:18:27PM
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BH24-04 0'
E407052-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2428053	
Benzene	ND	0.0250	1	07/10/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/11/24	
Toluene	ND	0.0250	1	07/10/24	07/11/24	
o-Xylene	ND	0.0250	1	07/10/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/11/24	
Surrogate: 4-Bromochlorobenzene-PID	92.8 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2428053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.3 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2428049	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24	
Surrogate: n-Nonane	98.2 %	50-200		07/10/24	07/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2428057	
Chloride	ND	20.0	1	07/10/24	07/10/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 1:18:27PM
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BH24-04 1'
E407052-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2428053	
Benzene	ND	0.0250	1	07/10/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/11/24	
Toluene	ND	0.0250	1	07/10/24	07/11/24	
o-Xylene	ND	0.0250	1	07/10/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/11/24	
Surrogate: 4-Bromochlorobenzene-PID	93.1 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2428053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.9 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2428049	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24	
Surrogate: n-Nonane	94.5 %	50-200		07/10/24	07/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2428057	
Chloride	ND	20.0	1	07/10/24	07/10/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-001
Project Manager: Chance Dixon

Reported:
7/11/2024 1:18:27PM

BH24-04 2'

E407052-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2428053
Benzene	ND	0.0250	1	07/10/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/11/24	
Toluene	ND	0.0250	1	07/10/24	07/11/24	
o-Xylene	ND	0.0250	1	07/10/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.6 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2428053
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.1 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2428049
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24	
<i>Surrogate: n-Nonane</i>						
	90.7 %	50-200		07/10/24	07/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2428057
Chloride	ND	20.0	1	07/10/24	07/10/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 1:18:27PM
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BH24-04 3'
E407052-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2428053	
Benzene	ND	0.0250	1	07/10/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/11/24	
Toluene	ND	0.0250	1	07/10/24	07/11/24	
o-Xylene	ND	0.0250	1	07/10/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/11/24	
Surrogate: 4-Bromochlorobenzene-PID	93.0 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2428053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.6 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2428049	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24	
Surrogate: n-Nonane	91.7 %	50-200		07/10/24	07/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2428057	
Chloride	ND	20.0	1	07/10/24	07/10/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-001
Project Manager: Chance Dixon

Reported:
7/11/2024 1:18:27PM

BH24-05 0'

E407052-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2428053	
Benzene	ND	0.0250	1	07/10/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/11/24	
Toluene	ND	0.0250	1	07/10/24	07/11/24	
o-Xylene	ND	0.0250	1	07/10/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.8 %	70-130	07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2428053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.0 %	70-130	07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2428049	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24	
<i>Surrogate: n-Nonane</i>		97.3 %	50-200	07/10/24	07/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2428057	
Chloride	ND	20.0	1	07/10/24	07/10/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-001
Project Manager: Chance Dixon

Reported:
7/11/2024 1:18:27PM

BH24-05 1'

E407052-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2428053
Benzene	ND	0.0250	1	07/10/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/11/24	
Toluene	ND	0.0250	1	07/10/24	07/11/24	
o-Xylene	ND	0.0250	1	07/10/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.6 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2428053
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.5 %	70-130		07/10/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2428049
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24	
<i>Surrogate: n-Nonane</i>						
	91.4 %	50-200		07/10/24	07/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2428057
Chloride	ND	20.0	1	07/10/24	07/10/24	



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 1:18:27PM
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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 (2428053-BLK1) Prepared: 07/10/24 Analyzed: 07/10/24

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	7.13		8.00		89.2	70-130			

LCS (2428053-BS1) Prepared: 07/10/24 Analyzed: 07/10/24

Benzene	4.55	0.0250	5.00		91.0	70-130			
Ethylbenzene	4.38	0.0250	5.00		87.6	70-130			
Toluene	4.48	0.0250	5.00		89.7	70-130			
o-Xylene	4.39	0.0250	5.00		87.8	70-130			
p,m-Xylene	8.91	0.0500	10.0		89.1	70-130			
Total Xylenes	13.3	0.0250	15.0		88.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.22		8.00		90.3	70-130			

Matrix Spike (2428053-MS1) Source: E407052-08 Prepared: 07/10/24 Analyzed: 07/10/24

Benzene	4.83	0.0250	5.00	ND	96.6	54-133			
Ethylbenzene	4.64	0.0250	5.00	ND	92.8	61-133			
Toluene	4.75	0.0250	5.00	ND	95.1	61-130			
o-Xylene	4.63	0.0250	5.00	ND	92.6	63-131			
p,m-Xylene	9.41	0.0500	10.0	ND	94.1	63-131			
Total Xylenes	14.0	0.0250	15.0	ND	93.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.31		8.00		91.4	70-130			

Matrix Spike Dup (2428053-MSD1) Source: E407052-08 Prepared: 07/10/24 Analyzed: 07/11/24

Benzene	4.73	0.0250	5.00	ND	94.7	54-133	2.07	20	
Ethylbenzene	4.55	0.0250	5.00	ND	91.1	61-133	1.83	20	
Toluene	4.66	0.0250	5.00	ND	93.2	61-130	1.95	20	
o-Xylene	4.54	0.0250	5.00	ND	90.7	63-131	2.01	20	
p,m-Xylene	9.25	0.0500	10.0	ND	92.5	63-131	1.74	20	
Total Xylenes	13.8	0.0250	15.0	ND	91.9	63-131	1.83	20	
Surrogate: 4-Bromochlorobenzene-PID	7.33		8.00		91.6	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 1:18:27PM
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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 (2428053-BLK1) Prepared: 07/10/24 Analyzed: 07/10/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		8.00		97.4	70-130			

LCS (2428053-BS2) Prepared: 07/10/24 Analyzed: 07/10/24

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.8	70-130			

Matrix Spike (2428053-MS2) Source: E407052-08 Prepared: 07/10/24 Analyzed: 07/11/24

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0	ND	89.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.75		8.00		96.9	70-130			

Matrix Spike Dup (2428053-MSD2) Source: E407052-08 Prepared: 07/10/24 Analyzed: 07/11/24

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0	ND	89.0	70-130	0.111	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.1	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 1:18:27PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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 (2428049-BLK1)					Prepared: 07/10/24 Analyzed: 07/10/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.0		50.0		104	50-200			

LCS (2428049-BS1)					Prepared: 07/10/24 Analyzed: 07/10/24				
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	48.7		50.0		97.4	50-200			

Matrix Spike (2428049-MS1)					Source: E407052-07		Prepared: 07/10/24 Analyzed: 07/10/24		
Diesel Range Organics (C10-C28)	273	25.0	250	ND	109	38-132			
Surrogate: n-Nonane	50.7		50.0		101	50-200			

Matrix Spike Dup (2428049-MSD1)					Source: E407052-07		Prepared: 07/10/24 Analyzed: 07/10/24		
Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	38-132	0.240	20	
Surrogate: n-Nonane	51.3		50.0		103	50-200			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 1:18:27PM
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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 (2428057-BLK1)					Prepared: 07/10/24 Analyzed: 07/10/24				
Chloride	ND	20.0							
LCS (2428057-BS1)					Prepared: 07/10/24 Analyzed: 07/10/24				
Chloride	256	20.0	250		103	90-110			
Matrix Spike (2428057-MS1)					Source: E407052-04		Prepared: 07/10/24 Analyzed: 07/10/24		
Chloride	263	20.0	250	ND	105	80-120			
Matrix Spike Dup (2428057-MSD1)					Source: E407052-04		Prepared: 07/10/24 Analyzed: 07/10/24		
Chloride	263	20.0	250	ND	105	80-120	0.0541	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.	Project Name:	Jackson Unit #003	
3101 Boyd Drive	Project Number:	24015-001	Reported:
Carlsbad NM, 88220	Project Manager:	Chance Dixon	07/11/24 13:18

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 Tap Rock)				Company: Tap Rock (Bill Ramsay)				Lab WO#		Job Number		1D		2D		3D		Std		
Project Name: Jackson Unit #003				Address:				E 407052		24015-0001		X								
Project Manager: Chance Dixon				City, State, Zip:																
Project Number: 24E-03316				Phone:																
City, State, Zip:				Email:																
Phone:				Miscellaneous: Direct bill to Tap Rock ATTN:																
Email: cdixon@vertexresource.com				Bill Ramsay.																
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
14:30	07.04.2024	Soil	1	BH24-01 0'		1		X	X	X		X								
14:30	07.04.2024	Soil	1	BH24-01 1'		2		X	X	X		X								
14:35	07.04.2024	Soil	1	BH24-01 2'		3		X	X	X		X								
14:40	07.04.2024	Soil	1	BH24-01 3'		4		X	X	X		X								
14:45	07.04.2024	Soil	1	BH24-01 4'		5		X	X	X		X								
14:50	07.04.2024	Soil	1	BH24-02 0'		6		X	X	X		X								
14:50	07.04.2024	Soil	1	BH24-02 1'		7		X	X	X		X								
14:55	07.04.2024	Soil	1	BH24-02 2'		8		X	X	X		X								
15:00	07.04.2024	Soil	1	BH24-02 3'		9		X	X	X		X								
15:05	07.04.2024	Soil	1	BH24-02 4'		10		X	X	X		X								
Additional Instructions: Direct bill to Tap Rock ATTN: Bill Ramsay. Please email final report to cdixon@vertexresource.com, permmain@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)		Date		Time		Received by: (Signature)		Date		Time		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: 0 / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		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.																				



envirotech

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Vertex (bill direct to Tap Rock)				Company: Tap Rock (Bill Ramsay)				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: Jackson Unit #003				Address:				E 407052		24015-0001			X						
Project Manager: Chance Dixon				City, State, Zip:															
Project Number: 24E-03316				Phone:															
City, State, Zip:				Email:															
Phone:				Miscellaneous: Direct bill to Tap Rock ATTN: Bill Ramsay.															
Email: cdixon@vertexresource.com																			

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
15:10	07.04.2024	Soil	1	BH24-03 0'		11		X	X	X		X								
15:10	07.04.2024	Soil	1	BH24-03 1'		12		X	X	X		X								
15:15	07.04.2024	Soil	1	BH24-03 2'		13		X	X	X		X								
15:20	07.04.2024	Soil	1	BH24-03 3'		14		X	X	X		X								
15:25	07.04.2024	Soil	1	BH24-04 0'		15		X	X	X		X								
15:25	07.04.2024	Soil	1	BH24-04 1'		16		X	X	X		X								
15:30	07.04.2024	Soil	1	BH24-04 2'		17		X	X	X		X								
15:35	07.04.2024	Soil	1	BH24-04 3'		18		X	X	X		X								
15:40	07.04.2024	Soil	1	BH24-05 0'		19		X	X	X		X								
15:40	07.04.2024	Soil	1	BH24-05 1'		20		X	X	X		X								

Additional Instructions: Direct bill to Tap Rock ATTN: Bill Ramsay. Please email final report to cdixon@vertexresource.com, permair@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: 7-9-2024 Time: 07:00				Received by: (Signature) <i>Michelle Gonzales</i>				Date: 7-9-24 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 <u>4</u>			
Relinquished by: (Signature) <i>Michelle Gonzales</i>				Date: 7-9-24 Time: 1725				Received by: (Signature) <i>J.M.</i>				Date: 7-9-24 Time: 1725											
Relinquished by: (Signature) <i>J.M.</i>				Date: 7-9-24 Time: 2345				Received by: (Signature) <i>[Signature]</i>				Date: 7-10-24 Time: 0830											
Relinquished by: (Signature)				Date				Received by: (Signature)				Date											

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: 7/10/2024 2:18:52PM

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:	07/10/24 08:30	Work Order ID:	E407052
Phone:	(575) 748-0176	Date Logged In:	07/09/24 17:47	Logged In By:	Alexa Michaels
Email:	cdixon@vertex.ca	Due Date:	07/11/24 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

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

Carrier: CourierComments/Resolution

Jackson Unit #003 has been separated into multiple WO due to high sample volume. WO are E407052 and E407053.

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? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

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

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

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

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 #003

Work Order: E407053

Job Number: 24015-001

Received: 7/10/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/11/24

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: 7/11/24

Chance Dixon
3101 Boyd Drive
Carlsbad, NM 88220



Project Name: Jackson Unit #003
Workorder: E407053
Date Received: 7/10/2024 8:30:00AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/10/2024 8:30:00AM, under the Project Name: Jackson Unit #003.

The analytical test results summarized in this report with the Project Name: Jackson Unit #003 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 #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 07/11/24 15:41
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH24-05 2'	E407053-01A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.
BH24-05 3'	E407053-02A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.
BH24-05 4'	E407053-03A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.
BH24-06 0'	E407053-04A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.
BH24-06 1'	E407053-05A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.
BH24-06 2'	E407053-06A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.
BH24-06 3'	E407053-07A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.
BH24-06 4'	E407053-08A	Soil	07/04/24	07/10/24	Glass Jar, 2 oz.
BH24-07 0'	E407053-09A	Soil	07/05/24	07/10/24	Glass Jar, 2 oz.
BH24-07 1'	E407053-10A	Soil	07/05/24	07/10/24	Glass Jar, 2 oz.
BH24-07 2'	E407053-11A	Soil	07/05/24	07/10/24	Glass Jar, 2 oz.
BH24-07 3'	E407053-12A	Soil	07/05/24	07/10/24	Glass Jar, 2 oz.
BH24-07 4'	E407053-13A	Soil	07/05/24	07/10/24	Glass Jar, 2 oz.
BH24-08 0'	E407053-14A	Soil	07/05/24	07/10/24	Glass Jar, 2 oz.
BH24-08 1'	E407053-15A	Soil	07/05/24	07/10/24	Glass Jar, 2 oz.
BH24-08 2'	E407053-16A	Soil	07/05/24	07/10/24	Glass Jar, 2 oz.
BH24-08 3'	E407053-17A	Soil	07/05/24	07/10/24	Glass Jar, 2 oz.
BH24-08 4'	E407053-18A	Soil	07/05/24	07/10/24	Glass Jar, 2 oz.
BH24-02 5'	E407053-19A	Soil	07/05/24	07/10/24	Glass Jar, 2 oz.
BH24-02 6'	E407053-20A	Soil	07/05/24	07/10/24	Glass Jar, 2 oz.
BH24-05 5'	E407053-21A	Soil	07/05/24	07/10/24	Glass Jar, 2 oz.



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-001
Project Manager: Chance Dixon

Reported:
7/11/2024 3:41:06PM

BH24-05 2'

E407053-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		106 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		91.0 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		102 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		106 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		91.0 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		102 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2428050
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/10/24	
Surrogate: n-Nonane		107 %	50-200	07/10/24	07/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2428058
Chloride	ND	20.0	1	07/10/24	07/10/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-001
Project Manager: Chance Dixon

Reported:
7/11/2024 3:41:06PM

BH24-05 3'

E407053-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		91.7 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		102 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		91.7 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		102 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2428050
Diesel Range Organics (C10-C28)	68.0	25.0	1	07/10/24	07/10/24	
Oil Range Organics (C28-C36)	54.7	50.0	1	07/10/24	07/10/24	
Surrogate: n-Nonane		105 %	50-200	07/10/24	07/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2428058
Chloride	ND	20.0	1	07/10/24	07/10/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-001
Project Manager: Chance Dixon

Reported:
7/11/2024 3:41:06PM

BH24-05 4'

E407053-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		90.3 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		102 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		90.3 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		102 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2428050
Diesel Range Organics (C10-C28)	156	25.0	1	07/10/24	07/10/24	
Oil Range Organics (C28-C36)	90.6	50.0	1	07/10/24	07/10/24	
Surrogate: n-Nonane		116 %	50-200	07/10/24	07/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2428058
Chloride	ND	20.0	1	07/10/24	07/10/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-001
Project Manager: Chance Dixon

Reported:
7/11/2024 3:41:06PM

BH24-06 0'

E407053-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		89.2 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		104 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		89.2 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		104 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2428050
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/10/24	
Surrogate: n-Nonane		117 %	50-200	07/10/24	07/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2428058
Chloride	ND	20.0	1	07/10/24	07/10/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-001
Project Manager: Chance Dixon

Reported:
7/11/2024 3:41:06PM

BH24-06 1'

E407053-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		106 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		86.8 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		104 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		106 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		86.8 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		104 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2428050
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24	
Surrogate: n-Nonane		114 %	50-200	07/10/24	07/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2428058
Chloride	ND	20.0	1	07/10/24	07/10/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-001
Project Manager: Chance Dixon

Reported:
7/11/2024 3:41:06PM

BH24-06 2'

E407053-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		107 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		92.3 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		103 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		107 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		92.3 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		103 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2428050
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24	
Surrogate: n-Nonane		119 %	50-200	07/10/24	07/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2428058
Chloride	ND	20.0	1	07/10/24	07/10/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-001
Project Manager: Chance Dixon

Reported:
7/11/2024 3:41:06PM

BH24-06 3'

E407053-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		90.8 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		102 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		90.8 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		102 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2428050
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24	
Surrogate: n-Nonane		118 %	50-200	07/10/24	07/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2428058
Chloride	44.4	20.0	1	07/10/24	07/10/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 3:41:06PM
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BH24-06 4'
E407053-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		92.2 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		103 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		92.2 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		103 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2428050
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24	
Surrogate: n-Nonane		120 %	50-200	07/10/24	07/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2428058
Chloride	49.4	20.0	1	07/10/24	07/10/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-001
Project Manager: Chance Dixon

Reported:
7/11/2024 3:41:06PM

BH24-07 0'

E407053-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		92.6 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		103 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		92.6 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		103 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2428050
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24	
Surrogate: n-Nonane		113 %	50-200	07/10/24	07/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2428058
Chloride	ND	20.0	1	07/10/24	07/11/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 3:41:06PM
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BH24-07 1'
E407053-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		89.4 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		103 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		89.4 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		103 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2428050
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24	
Surrogate: n-Nonane		113 %	50-200	07/10/24	07/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2428058
Chloride	ND	20.0	1	07/10/24	07/11/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-001
Project Manager: Chance Dixon

Reported:
7/11/2024 3:41:06PM

BH24-07 2'

E407053-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		89.3 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		104 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		89.3 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		104 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2428050
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24	
Surrogate: n-Nonane		111 %	50-200	07/10/24	07/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2428058
Chloride	23.0	20.0	1	07/10/24	07/11/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-001
Project Manager: Chance Dixon

Reported:
7/11/2024 3:41:06PM

BH24-07 3'

E407053-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		91.0 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		103 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		91.0 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		103 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2428050
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24	
Surrogate: n-Nonane		120 %	50-200	07/10/24	07/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2428058
Chloride	25.2	20.0	1	07/10/24	07/11/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 3:41:06PM
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BH24-07 4'
E407053-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		103 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		90.9 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		103 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		103 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		90.9 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		103 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2428050
Diesel Range Organics (C10-C28)	412	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	115	50.0	1	07/10/24	07/11/24	
Surrogate: n-Nonane		119 %	50-200	07/10/24	07/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2428058
Chloride	20.2	20.0	1	07/10/24	07/11/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-001
Project Manager: Chance Dixon

Reported:
7/11/2024 3:41:06PM

BH24-08 0'

E407053-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		103 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		88.7 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		101 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		103 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		88.7 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		101 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2428050
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24	
Surrogate: n-Nonane		111 %	50-200	07/10/24	07/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2428058
Chloride	ND	20.0	1	07/10/24	07/11/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-001
Project Manager: Chance Dixon

Reported:
7/11/2024 3:41:06PM

BH24-08 1'

E407053-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		91.9 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		104 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		91.9 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		104 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2428050
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24	
Surrogate: n-Nonane		115 %	50-200	07/10/24	07/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2428058
Chloride	ND	20.0	1	07/10/24	07/11/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-001
Project Manager: Chance Dixon

Reported:
7/11/2024 3:41:06PM

BH24-08 2'

E407053-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		90.6 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		102 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		90.6 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		102 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2428050
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24	
Surrogate: n-Nonane		115 %	50-200	07/10/24	07/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2428058
Chloride	83.7	20.0	1	07/10/24	07/11/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-001
Project Manager: Chance Dixon

Reported:
7/11/2024 3:41:06PM

BH24-08 3'

E407053-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		104 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		104 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2428050
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24	
Surrogate: n-Nonane		101 %	50-200	07/10/24	07/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2428058
Chloride	142	20.0	1	07/10/24	07/11/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-001
Project Manager: Chance Dixon

Reported:
7/11/2024 3:41:06PM

BH24-08 4'

E407053-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		89.6 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		102 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		89.6 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		102 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2428050
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24	
Surrogate: n-Nonane		108 %	50-200	07/10/24	07/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2428058
Chloride	91.4	20.0	1	07/10/24	07/11/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-001
Project Manager: Chance Dixon

Reported:
7/11/2024 3:41:06PM

BH24-02 5'

E407053-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		107 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		93.0 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		103 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		107 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		93.0 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		103 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2428050
Diesel Range Organics (C10-C28)	412	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	84.6	50.0	1	07/10/24	07/11/24	
Surrogate: n-Nonane		111 %	50-200	07/10/24	07/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2428058
Chloride	ND	20.0	1	07/10/24	07/11/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-001
Project Manager: Chance Dixon

Reported:
7/11/2024 3:41:06PM

BH24-02 6'

E407053-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		89.1 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		103 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428054
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		89.1 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		103 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2428050
Diesel Range Organics (C10-C28)	237	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	67.7	50.0	1	07/10/24	07/11/24	
Surrogate: n-Nonane		110 %	50-200	07/10/24	07/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2428058
Chloride	ND	20.0	1	07/10/24	07/11/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-001
Project Manager: Chance Dixon

Reported:
7/11/2024 3:41:06PM

BH24-05 5'

E407053-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428055
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		106 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		89.5 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		102 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428055
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: Bromofluorobenzene		106 %	70-130	07/10/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		89.5 %	70-130	07/10/24	07/10/24	
Surrogate: Toluene-d8		102 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2428051
Diesel Range Organics (C10-C28)	334	25.0	1	07/10/24	07/10/24	
Oil Range Organics (C28-C36)	88.4	50.0	1	07/10/24	07/10/24	
Surrogate: n-Nonane		99.4 %	50-200	07/10/24	07/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2428052
Chloride	21.6	20.0	1	07/10/24	07/10/24	



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 3:41:06PM
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Volatile Organic Compounds by EPA 8260B

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 (2428054-BLK1)

Prepared: 07/10/24 Analyzed: 07/10/24

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: Bromofluorobenzene	0.540		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.446		0.500		89.2	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			

LCS (2428054-BS1)

Prepared: 07/10/24 Analyzed: 07/10/24

Benzene	2.30	0.0250	2.50		92.2	70-130			
Ethylbenzene	2.49	0.0250	2.50		99.4	70-130			
Toluene	2.48	0.0250	2.50		99.3	70-130			
o-Xylene	2.60	0.0250	2.50		104	70-130			
p,m-Xylene	5.19	0.0500	5.00		104	70-130			
Total Xylenes	7.79	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.537		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.458		0.500		91.5	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

Matrix Spike (2428054-MS1)

Source: E407053-10

Prepared: 07/10/24 Analyzed: 07/10/24

Benzene	2.34	0.0250	2.50	ND	93.5	48-131			
Ethylbenzene	2.50	0.0250	2.50	ND	100	45-135			
Toluene	2.48	0.0250	2.50	ND	99.1	48-130			
o-Xylene	2.63	0.0250	2.50	ND	105	43-135			
p,m-Xylene	5.23	0.0500	5.00	ND	105	43-135			
Total Xylenes	7.85	0.0250	7.50	ND	105	43-135			
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

Matrix Spike Dup (2428054-MSD1)

Source: E407053-10

Prepared: 07/10/24 Analyzed: 07/10/24

Benzene	2.38	0.0250	2.50	ND	95.2	48-131	1.80	23	
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135	1.71	27	
Toluene	2.52	0.0250	2.50	ND	101	48-130	1.82	24	
o-Xylene	2.64	0.0250	2.50	ND	106	43-135	0.608	27	
p,m-Xylene	5.26	0.0500	5.00	ND	105	43-135	0.563	27	
Total Xylenes	7.90	0.0250	7.50	ND	105	43-135	0.578	27	
Surrogate: Bromofluorobenzene	0.532		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.2	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 3:41:06PM
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Volatile Organic Compounds by EPA 8260B

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 (2428055-BLK1)

Prepared: 07/10/24 Analyzed: 07/11/24

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: Bromofluorobenzene	0.529		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.457		0.500		91.3	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			

LCS (2428055-BS1)

Prepared: 07/10/24 Analyzed: 07/11/24

Benzene	2.25	0.0250	2.50		89.8	70-130			
Ethylbenzene	2.42	0.0250	2.50		96.9	70-130			
Toluene	2.39	0.0250	2.50		95.4	70-130			
o-Xylene	2.53	0.0250	2.50		101	70-130			
p,m-Xylene	5.06	0.0500	5.00		101	70-130			
Total Xylenes	7.58	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	0.533		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.5	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

Matrix Spike (2428055-MS1)

Source: E407057-03

Prepared: 07/10/24 Analyzed: 07/11/24

Benzene	2.26	0.0250	2.50	ND	90.3	48-131			
Ethylbenzene	2.46	0.0250	2.50	ND	98.6	45-135			
Toluene	2.42	0.0250	2.50	ND	96.7	48-130			
o-Xylene	2.56	0.0250	2.50	ND	102	43-135			
p,m-Xylene	5.11	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.67	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			

Matrix Spike Dup (2428055-MSD1)

Source: E407057-03

Prepared: 07/10/24 Analyzed: 07/11/24

Benzene	2.19	0.0250	2.50	ND	87.5	48-131	3.08	23	
Ethylbenzene	2.42	0.0250	2.50	ND	97.0	45-135	1.64	27	
Toluene	2.37	0.0250	2.50	ND	94.8	48-130	1.96	24	
o-Xylene	2.54	0.0250	2.50	ND	101	43-135	0.864	27	
p,m-Xylene	5.06	0.0500	5.00	ND	101	43-135	0.904	27	
Total Xylenes	7.60	0.0250	7.50	ND	101	43-135	0.891	27	
Surrogate: Bromofluorobenzene	0.542		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.8	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 3:41:06PM
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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 (2428054-BLK1) Prepared: 07/10/24 Analyzed: 07/10/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.540		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.446		0.500		89.2	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			

LCS (2428054-BS2) Prepared: 07/10/24 Analyzed: 07/10/24

Gasoline Range Organics (C6-C10)	57.4	20.0	50.0		115	70-130			
Surrogate: Bromofluorobenzene	0.540		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.458		0.500		91.6	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

Matrix Spike (2428054-MS2) Source: E407053-10 Prepared: 07/10/24 Analyzed: 07/10/24

Gasoline Range Organics (C6-C10)	56.4	20.0	50.0	ND	113	70-130			
Surrogate: Bromofluorobenzene	0.535		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.6	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			

Matrix Spike Dup (2428054-MSD2) Source: E407053-10 Prepared: 07/10/24 Analyzed: 07/10/24

Gasoline Range Organics (C6-C10)	57.6	20.0	50.0	ND	115	70-130	2.08	20	
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.2	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 3:41:06PM
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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 (2428055-BLK1)

Prepared: 07/10/24 Analyzed: 07/11/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.457		0.500		91.3	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			

LCS (2428055-BS2)

Prepared: 07/10/24 Analyzed: 07/11/24

Gasoline Range Organics (C6-C10)	57.2	20.0	50.0		114	70-130			
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.455		0.500		91.0	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

Matrix Spike (2428055-MS2)

Source: E407057-03

Prepared: 07/10/24 Analyzed: 07/11/24

Gasoline Range Organics (C6-C10)	55.5	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	0.537		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.445		0.500		88.9	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			

Matrix Spike Dup (2428055-MSD2)

Source: E407057-03

Prepared: 07/10/24 Analyzed: 07/11/24

Gasoline Range Organics (C6-C10)	56.9	20.0	50.0	ND	114	70-130	2.39	20	
Surrogate: Bromofluorobenzene	0.561		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.465		0.500		93.0	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 3:41:06PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

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 (2428050-BLK1)					Prepared: 07/10/24 Analyzed: 07/10/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.7		50.0		119	50-200			

LCS (2428050-BS1)					Prepared: 07/10/24 Analyzed: 07/10/24				
Diesel Range Organics (C10-C28)	318	25.0	250		127	38-132			
Surrogate: n-Nonane	60.3		50.0		121	50-200			

Matrix Spike (2428050-MS1)					Source: E407053-08		Prepared: 07/10/24 Analyzed: 07/11/24		
Diesel Range Organics (C10-C28)	329	25.0	250	ND	131	38-132			
Surrogate: n-Nonane	61.8		50.0		124	50-200			

Matrix Spike Dup (2428050-MSD1)					Source: E407053-08		Prepared: 07/10/24 Analyzed: 07/11/24		
Diesel Range Organics (C10-C28)	328	25.0	250	ND	131	38-132	0.155	20	
Surrogate: n-Nonane	59.5		50.0		119	50-200			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 3:41:06PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

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 (2428051-BLK1)					Prepared: 07/10/24 Analyzed: 07/10/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.3		50.0		109	50-200			

LCS (2428051-BS1)					Prepared: 07/10/24 Analyzed: 07/10/24				
Diesel Range Organics (C10-C28)	273	25.0	250		109	38-132			
Surrogate: n-Nonane	58.2		50.0		116	50-200			

Matrix Spike (2428051-MS1)					Source: E407054-04		Prepared: 07/10/24 Analyzed: 07/10/24		
Diesel Range Organics (C10-C28)	274	25.0	250	ND	110	38-132			
Surrogate: n-Nonane	53.1		50.0		106	50-200			

Matrix Spike Dup (2428051-MSD1)					Source: E407054-04		Prepared: 07/10/24 Analyzed: 07/10/24		
Diesel Range Organics (C10-C28)	278	25.0	250	ND	111	38-132	1.34	20	
Surrogate: n-Nonane	54.1		50.0		108	50-200			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 3:41:06PM
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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 (2428052-BLK1)					Prepared: 07/10/24 Analyzed: 07/10/24				
Chloride	ND	20.0							
LCS (2428052-BS1)					Prepared: 07/10/24 Analyzed: 07/10/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2428052-MS1)					Source: E407049-01		Prepared: 07/10/24 Analyzed: 07/10/24		
Chloride	281	200	250	ND	112	80-120			
Matrix Spike Dup (2428052-MSD1)					Source: E407049-01		Prepared: 07/10/24 Analyzed: 07/10/24		
Chloride	275	200	250	ND	110	80-120	2.01	20	



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-001 Project Manager: Chance Dixon	Reported: 7/11/2024 3:41:06PM
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Anions by EPA 300.0/9056A

Analyst: WF

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 (2428058-BLK1)					Prepared: 07/10/24 Analyzed: 07/10/24				
Chloride	ND	20.0							
LCS (2428058-BS1)					Prepared: 07/10/24 Analyzed: 07/10/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2428058-MS1)					Source: E407053-03		Prepared: 07/10/24 Analyzed: 07/10/24		
Chloride	264	20.0	250	ND	106	80-120			
Matrix Spike Dup (2428058-MSD1)					Source: E407053-03		Prepared: 07/10/24 Analyzed: 07/10/24		
Chloride	263	20.0	250	ND	105	80-120	0.603	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.	Project Name:	Jackson Unit #003	
3101 Boyd Drive	Project Number:	24015-001	Reported:
Carlsbad NM, 88220	Project Manager:	Chance Dixon	07/11/24 15:41

- 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 Tap Rock)				Company: Tap Rock (Bill Ramsay)				Lab WO#		Job Number		1D		2D		3D		Std	
Project Name: Jackson Unit #003				Address:				E407053		24015-0001				X				NM CO UT TX	
Project Manager: Chance Dixon				City, State, Zip:															
Project Number: 24E-03316				Phone:															
City, State, Zip:				Email:															
Phone:				Miscellaneous: Direct bill to Tap Rock ATTN:															
Email: cdixon@vertexresource.com				Bill Ramsay.															
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
15:45	07.04.2024	Soil	1	BH24-05 2'		1		X	X	X		X							
15:50	07.04.2024	Soil	1	BH24-05 3'		2		X	X	X		X							
15:55	07.04.2024	Soil	1	BH24-05 4'		3		X	X	X		X							
16:00	07.04.2024	Soil	1	BH24-06 0'		4		X	X	X		X							
16:00	07.04.2024	Soil	1	BH24-06 1'		5		X	X	X		X							
16:05	07.04.2024	Soil	1	BH24-06 2'		6		X	X	X		X							
16:10	07.04.2024	Soil	1	BH24-06 3'		7		X	X	X		X							
16:15	07.04.2024	Soil	1	BH24-06 4'		8		X	X	X		X							
8:00	07.05.2024	Soil	1	BH24-07 0'		9		X	X	X		X							
8:05	07.05.2024	Soil	1	BH24-07 1'		10		X	X	X		X							
Additional Instructions: Direct bill to Tap Rock ATTN: Bill Ramsay. Please email final report to cdixon@vertexresource.com, permain@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)		Date		Time		Received by: (Signature)		Date		Time		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="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		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.																			

Client Information				Invoice Information				Lab Use Only				TAT				State											
Client: Vertex (bill direct to Tap Rock)				Company: Tap Rock (Bill Ramsay)				Lab WO#		Job Number		1D		2D		3D		Std		NM		CO		UT		TX	
Project Name: Jackson Unit #003				Address:				E 407083		24015-0001				X													
Project Manager: Chance Dixon				City, State, Zip:																							
Project Number: 24E-03316				Phone:																							
City, State, Zip:				Email:																							
Phone:				Miscellaneous: Direct bill to Tap Rock ATTN:																							
Email: cdixon@vertexresource.com				Bill Ramsay.																							
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										
8:10	07.05.2024	Soil	1	BH24-07 2'		11	X	X	X		X																
8:15	07.05.2024	Soil	1	BH24-07 3'		12	X	X	X		X																
8:25	07.05.2024	Soil	1	BH24-07 4'		13	X	X	X		X																
8:35	07.05.2024	Soil	1	BH24-08 0'		14	X	X	X		X																
8:40	07.05.2024	Soil	1	BH24-08 1'		15	X	X	X		X																
8:45	07.05.2024	Soil	1	BH24-08 2'		16	X	X	X		X																
8:50	07.05.2024	Soil	1	BH24-08 3'		17	X	X	X		X																
9:00	07.05.2024	Soil	1	BH24-08 4'		18	X	X	X		X																
9:35	07.05.2024	Soil	1	BH24-02 5'		19	X	X	X		X																
9:40	07.05.2024	Soil	1	BH24-02 6'		20	X	X	X		X																
Additional Instructions: Direct bill to Tap Rock ATTN: Bill Ramsay. Please email final report to cdixon@vertexresource.com, permain@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)		Date		Time		Received by: (Signature)		Date		Time		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.															
L. Pullman		7-9-24		07:00		Michelle Gonzales		7-9-24		07:00		Lab Use Only															
Michelle Gonzales		7-9-24		1725		A.M.		7-9-24		1725		Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N															
A.M.		7-9-24		2345		St		7-10-24		0830		T1 _____ T2 _____ T3 _____															
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C 4															
A.M.		7-9-24		2345		St		7-10-24		0830																	
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

Envirotech Analytical Laboratory

Printed: 7/10/2024 2:41:17PM

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:	07/10/24 08:30	Work Order ID:	E407053
Phone:	(575) 748-0176	Date Logged In:	07/09/24 18:05	Logged In By:	Alexa Michaels
Email:	cdixon@vertex.ca	Due Date:	07/11/24 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

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

Carrier: CourierComments/Resolution

Jackson Unit #003 has been separated into multiple WO due to high sample volume. WO are E407052 and WO E407053.

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? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

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

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

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

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 #003

Work Order: E407173

Job Number: 24015-0001

Received: 7/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/29/24

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: 7/29/24

Chance Dixon
3101 Boyd Drive
Carlsbad, NM 88220



Project Name: Jackson Unit #003
Workorder: E407173
Date Received: 7/23/2024 8:30:00AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/23/2024 8:30:00AM, under the Project Name: Jackson Unit #003.

The analytical test results summarized in this report with the Project Name: Jackson Unit #003 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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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 #003
Project Number: 24015-0001
Project Manager: Chance Dixon

Reported:
07/29/24 05:41

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH24 - 09 0'	E407173-01A	Soil	07/19/24	07/23/24	Glass Jar, 2 oz.
BH24 - 09 2'	E407173-02A	Soil	07/19/24	07/23/24	Glass Jar, 2 oz.
BH24 - 09 4'	E407173-03A	Soil	07/19/24	07/23/24	Glass Jar, 2 oz.
BH24 - 10 0'	E407173-04A	Soil	07/19/24	07/23/24	Glass Jar, 2 oz.
BH24 - 10 2'	E407173-05A	Soil	07/19/24	07/23/24	Glass Jar, 2 oz.
BH24 - 11 0'	E407173-06A	Soil	07/19/24	07/23/24	Glass Jar, 2 oz.
BH24 - 11 2'	E407173-07A	Soil	07/19/24	07/23/24	Glass Jar, 2 oz.
BH24 - 11 4'	E407173-08A	Soil	07/19/24	07/23/24	Glass Jar, 2 oz.
BH24 - 12 0'	E407173-09A	Soil	07/19/24	07/23/24	Glass Jar, 2 oz.
BH24 - 12 2'	E407173-10A	Soil	07/19/24	07/23/24	Glass Jar, 2 oz.
BH24 - 13 0'	E407173-11A	Soil	07/19/24	07/23/24	Glass Jar, 2 oz.
BH24 - 13 2'	E407173-12A	Soil	07/19/24	07/23/24	Glass Jar, 2 oz.
BH24 - 13 4'	E407173-13A	Soil	07/19/24	07/23/24	Glass Jar, 2 oz.
BH24 - 14 0'	E407173-14A	Soil	07/19/24	07/23/24	Glass Jar, 2 oz.
BH24 - 14 2'	E407173-15A	Soil	07/19/24	07/23/24	Glass Jar, 2 oz.
BH24 - 14 4'	E407173-16A	Soil	07/19/24	07/23/24	Glass Jar, 2 oz.
BH24 - 15 0'	E407173-17A	Soil	07/19/24	07/23/24	Glass Jar, 2 oz.
BH24 - 15 2'	E407173-18A	Soil	07/19/24	07/23/24	Glass Jar, 2 oz.
BH24 - 15 4'	E407173-19A	Soil	07/19/24	07/23/24	Glass Jar, 2 oz.
BH24 - 16 0'	E407173-20A	Soil	07/19/24	07/23/24	Glass Jar, 2 oz.
BH24 - 16 2'	E407173-21A	Soil	07/19/24	07/23/24	Glass Jar, 2 oz.
BH24 - 16 4'	E407173-22A	Soil	07/19/24	07/23/24	Glass Jar, 2 oz.
BH24 - 17 0'	E407173-23A	Soil	07/19/24	07/23/24	Glass Jar, 2 oz.
BH24 - 17 2'	E407173-24A	Soil	07/19/24	07/23/24	Glass Jar, 2 oz.
BH24 - 17 4'	E407173-25A	Soil	07/19/24	07/23/24	Glass Jar, 2 oz.



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-0001
Project Manager: Chance Dixon

Reported:
7/29/2024 5:41:40AM

BH24 - 09 0'

E407173-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Benzene	ND	0.0250	1	07/23/24	07/23/24	
Ethylbenzene	ND	0.0250	1	07/23/24	07/23/24	
Toluene	ND	0.0250	1	07/23/24	07/23/24	
o-Xylene	ND	0.0250	1	07/23/24	07/23/24	
p,m-Xylene	ND	0.0500	1	07/23/24	07/23/24	
Total Xylenes	ND	0.0250	1	07/23/24	07/23/24	
<i>Surrogate: Bromofluorobenzene</i>		97.8 %	70-130	07/23/24	07/23/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.0 %	70-130	07/23/24	07/23/24	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	07/23/24	07/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/24	07/23/24	
<i>Surrogate: Bromofluorobenzene</i>		97.8 %	70-130	07/23/24	07/23/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.0 %	70-130	07/23/24	07/23/24	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	07/23/24	07/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430041
Diesel Range Organics (C10-C28)	ND	25.0	1	07/23/24	07/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/23/24	07/23/24	
<i>Surrogate: n-Nonane</i>		120 %	50-200	07/23/24	07/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2430049
Chloride	ND	20.0	1	07/23/24	07/23/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-0001 Project Manager: Chance Dixon	Reported: 7/29/2024 5:41:40AM
--	--	----------------------------------

BH24 - 09 2'
E407173-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Benzene	ND	0.0250	1	07/23/24	07/24/24	
Ethylbenzene	ND	0.0250	1	07/23/24	07/24/24	
Toluene	ND	0.0250	1	07/23/24	07/24/24	
o-Xylene	ND	0.0250	1	07/23/24	07/24/24	
p,m-Xylene	ND	0.0500	1	07/23/24	07/24/24	
Total Xylenes	ND	0.0250	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	98.7 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	106 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	98.7 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	106 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430041
Diesel Range Organics (C10-C28)	45.0	25.0	1	07/23/24	07/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/23/24	07/23/24	
Surrogate: n-Nonane	64.6 %	50-200		07/23/24	07/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2430049
Chloride	ND	20.0	1	07/23/24	07/23/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-0001
Project Manager: Chance Dixon

Reported:
7/29/2024 5:41:40AM

BH24 - 09 4'

E407173-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Benzene	ND	0.0250	1	07/23/24	07/24/24	
Ethylbenzene	ND	0.0250	1	07/23/24	07/24/24	
Toluene	ND	0.0250	1	07/23/24	07/24/24	
o-Xylene	ND	0.0250	1	07/23/24	07/24/24	
p,m-Xylene	ND	0.0500	1	07/23/24	07/24/24	
Total Xylenes	ND	0.0250	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene		106 %	70-130	07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	07/23/24	07/24/24	
Surrogate: Toluene-d8		104 %	70-130	07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Gasoline Range Organics (C6-C10)	51.8	20.0	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene		106 %	70-130	07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	07/23/24	07/24/24	
Surrogate: Toluene-d8		104 %	70-130	07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430041
Diesel Range Organics (C10-C28)	2880	25.0	1	07/23/24	07/23/24	
Oil Range Organics (C28-C36)	331	50.0	1	07/23/24	07/23/24	
Surrogate: n-Nonane		125 %	50-200	07/23/24	07/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2430049
Chloride	53.7	20.0	1	07/23/24	07/23/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-0001 Project Manager: Chance Dixon	Reported: 7/29/2024 5:41:40AM
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BH24 - 10 0'
E407173-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Benzene	ND	0.0250	1	07/23/24	07/24/24	
Ethylbenzene	ND	0.0250	1	07/23/24	07/24/24	
Toluene	ND	0.0250	1	07/23/24	07/24/24	
o-Xylene	ND	0.0250	1	07/23/24	07/24/24	
p,m-Xylene	ND	0.0500	1	07/23/24	07/24/24	
Total Xylenes	ND	0.0250	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene		100 %	70-130	07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	07/23/24	07/24/24	
Surrogate: Toluene-d8		104 %	70-130	07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene		100 %	70-130	07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	07/23/24	07/24/24	
Surrogate: Toluene-d8		104 %	70-130	07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430041
Diesel Range Organics (C10-C28)	26.0	25.0	1	07/23/24	07/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/23/24	07/23/24	
Surrogate: n-Nonane		125 %	50-200	07/23/24	07/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2430049
Chloride	ND	20.0	1	07/23/24	07/23/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-0001
Project Manager: Chance Dixon

Reported:
7/29/2024 5:41:40AM

BH24 - 10 2'

E407173-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Benzene	ND	0.0250	1	07/23/24	07/24/24	
Ethylbenzene	ND	0.0250	1	07/23/24	07/24/24	
Toluene	ND	0.0250	1	07/23/24	07/24/24	
o-Xylene	ND	0.0250	1	07/23/24	07/24/24	
p,m-Xylene	ND	0.0500	1	07/23/24	07/24/24	
Total Xylenes	ND	0.0250	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	96.9 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	106 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	96.9 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	106 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430041
Diesel Range Organics (C10-C28)	ND	25.0	1	07/23/24	07/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/23/24	07/23/24	
Surrogate: n-Nonane	115 %	50-200		07/23/24	07/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2430049
Chloride	ND	20.0	1	07/23/24	07/23/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-0001
Project Manager: Chance Dixon

Reported:
7/29/2024 5:41:40AM

BH24 - 11 0'

E407173-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Benzene	ND	0.0250	1	07/23/24	07/23/24	
Ethylbenzene	ND	0.0250	1	07/23/24	07/23/24	
Toluene	ND	0.0250	1	07/23/24	07/23/24	
o-Xylene	ND	0.0250	1	07/23/24	07/23/24	
p,m-Xylene	ND	0.0500	1	07/23/24	07/23/24	
Total Xylenes	ND	0.0250	1	07/23/24	07/23/24	
Surrogate: Bromofluorobenzene	98.7 %	70-130		07/23/24	07/23/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		07/23/24	07/23/24	
Surrogate: Toluene-d8	104 %	70-130		07/23/24	07/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/24	07/23/24	
Surrogate: Bromofluorobenzene	98.7 %	70-130		07/23/24	07/23/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		07/23/24	07/23/24	
Surrogate: Toluene-d8	104 %	70-130		07/23/24	07/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430041
Diesel Range Organics (C10-C28)	ND	25.0	1	07/23/24	07/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/23/24	07/23/24	
Surrogate: n-Nonane	114 %	50-200		07/23/24	07/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2430049
Chloride	53.6	20.0	1	07/23/24	07/23/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-0001
Project Manager: Chance Dixon

Reported:
7/29/2024 5:41:40AM

BH24 - 11 2'

E407173-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Benzene	ND	0.0250	1	07/23/24	07/24/24	
Ethylbenzene	ND	0.0250	1	07/23/24	07/24/24	
Toluene	ND	0.0250	1	07/23/24	07/24/24	
o-Xylene	ND	0.0250	1	07/23/24	07/24/24	
p,m-Xylene	ND	0.0500	1	07/23/24	07/24/24	
Total Xylenes	ND	0.0250	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	96.8 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	104 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	96.8 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	104 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430041
Diesel Range Organics (C10-C28)	ND	25.0	1	07/23/24	07/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/23/24	07/23/24	
Surrogate: n-Nonane	119 %	50-200		07/23/24	07/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2430049
Chloride	106	20.0	1	07/23/24	07/24/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-0001 Project Manager: Chance Dixon	Reported: 7/29/2024 5:41:40AM
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BH24 - 11 4'
E407173-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Benzene	ND	0.0250	1	07/23/24	07/24/24	
Ethylbenzene	ND	0.0250	1	07/23/24	07/24/24	
Toluene	ND	0.0250	1	07/23/24	07/24/24	
o-Xylene	ND	0.0250	1	07/23/24	07/24/24	
p,m-Xylene	ND	0.0500	1	07/23/24	07/24/24	
Total Xylenes	ND	0.0250	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	105 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	105 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430041
Diesel Range Organics (C10-C28)	ND	25.0	1	07/23/24	07/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/23/24	07/23/24	
Surrogate: n-Nonane	121 %	50-200		07/23/24	07/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2430049
Chloride	404	20.0	1	07/23/24	07/24/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-0001 Project Manager: Chance Dixon	Reported: 7/29/2024 5:41:40AM
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BH24 - 12 0'
E407173-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Benzene	ND	0.0250	1	07/23/24	07/24/24	
Ethylbenzene	ND	0.0250	1	07/23/24	07/24/24	
Toluene	ND	0.0250	1	07/23/24	07/24/24	
o-Xylene	ND	0.0250	1	07/23/24	07/24/24	
p,m-Xylene	ND	0.0500	1	07/23/24	07/24/24	
Total Xylenes	ND	0.0250	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	99.5 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	99.7 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	106 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	99.5 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	99.7 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	106 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430041
Diesel Range Organics (C10-C28)	ND	25.0	1	07/23/24	07/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/23/24	07/24/24	
Surrogate: n-Nonane	116 %	50-200		07/23/24	07/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2430049
Chloride	48.5	20.0	1	07/23/24	07/24/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-0001
Project Manager: Chance Dixon

Reported:
7/29/2024 5:41:40AM

BH24 - 12 2'

E407173-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Benzene	ND	0.0250	1	07/23/24	07/24/24	
Ethylbenzene	ND	0.0250	1	07/23/24	07/24/24	
Toluene	ND	0.0250	1	07/23/24	07/24/24	
o-Xylene	ND	0.0250	1	07/23/24	07/24/24	
p,m-Xylene	ND	0.0500	1	07/23/24	07/24/24	
Total Xylenes	ND	0.0250	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	99.1 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	107 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	99.1 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	107 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430041
Diesel Range Organics (C10-C28)	ND	25.0	1	07/23/24	07/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/23/24	07/24/24	
Surrogate: n-Nonane	117 %	50-200		07/23/24	07/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2430049
Chloride	76.5	20.0	1	07/23/24	07/24/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-0001
Project Manager: Chance Dixon

Reported:
7/29/2024 5:41:40AM

BH24 - 13 0'

E407173-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Benzene	ND	0.0250	1	07/23/24	07/24/24	
Ethylbenzene	ND	0.0250	1	07/23/24	07/24/24	
Toluene	ND	0.0250	1	07/23/24	07/24/24	
o-Xylene	ND	0.0250	1	07/23/24	07/24/24	
p,m-Xylene	ND	0.0500	1	07/23/24	07/24/24	
Total Xylenes	ND	0.0250	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	97.6 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	104 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	97.6 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	104 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430041
Diesel Range Organics (C10-C28)	ND	25.0	1	07/23/24	07/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/23/24	07/24/24	
Surrogate: n-Nonane	121 %	50-200		07/23/24	07/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2430049
Chloride	ND	20.0	1	07/23/24	07/24/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-0001
Project Manager: Chance Dixon

Reported:
7/29/2024 5:41:40AM

BH24 - 13 2'

E407173-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Benzene	ND	0.0250	1	07/23/24	07/24/24	
Ethylbenzene	ND	0.0250	1	07/23/24	07/24/24	
Toluene	ND	0.0250	1	07/23/24	07/24/24	
o-Xylene	ND	0.0250	1	07/23/24	07/24/24	
p,m-Xylene	ND	0.0500	1	07/23/24	07/24/24	
Total Xylenes	ND	0.0250	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	95.0 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	107 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	95.0 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	107 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430041
Diesel Range Organics (C10-C28)	ND	25.0	1	07/23/24	07/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/23/24	07/24/24	
Surrogate: n-Nonane	122 %	50-200		07/23/24	07/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2430049
Chloride	34.5	20.0	1	07/23/24	07/24/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-0001
Project Manager: Chance Dixon

Reported:
7/29/2024 5:41:40AM

BH24 - 13 4'

E407173-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Benzene	ND	0.0250	1	07/23/24	07/24/24	
Ethylbenzene	ND	0.0250	1	07/23/24	07/24/24	
Toluene	ND	0.0250	1	07/23/24	07/24/24	
o-Xylene	ND	0.0250	1	07/23/24	07/24/24	
p,m-Xylene	ND	0.0500	1	07/23/24	07/24/24	
Total Xylenes	ND	0.0250	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	97.4 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	105 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	97.4 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	105 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430041
Diesel Range Organics (C10-C28)	ND	25.0	1	07/23/24	07/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/23/24	07/24/24	
Surrogate: n-Nonane	115 %	50-200		07/23/24	07/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2430049
Chloride	66.3	20.0	1	07/23/24	07/24/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-0001 Project Manager: Chance Dixon	Reported: 7/29/2024 5:41:40AM
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BH24 - 14 0'
E407173-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2430047	
Benzene	ND	0.0250	1	07/23/24	07/24/24	
Ethylbenzene	ND	0.0250	1	07/23/24	07/24/24	
Toluene	ND	0.0250	1	07/23/24	07/24/24	
o-Xylene	ND	0.0250	1	07/23/24	07/24/24	
p,m-Xylene	ND	0.0500	1	07/23/24	07/24/24	
Total Xylenes	ND	0.0250	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	96.6 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	106 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2430047	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	96.6 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	106 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2430041	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/23/24	07/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/23/24	07/24/24	
Surrogate: n-Nonane	116 %	50-200		07/23/24	07/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2430049	
Chloride	ND	20.0	1	07/23/24	07/24/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-0001
Project Manager: Chance Dixon

Reported:
7/29/2024 5:41:40AM

BH24 - 14 2'

E407173-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Benzene	ND	0.0250	1	07/23/24	07/24/24	
Ethylbenzene	ND	0.0250	1	07/23/24	07/24/24	
Toluene	ND	0.0250	1	07/23/24	07/24/24	
o-Xylene	ND	0.0250	1	07/23/24	07/24/24	
p,m-Xylene	ND	0.0500	1	07/23/24	07/24/24	
Total Xylenes	ND	0.0250	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	97.6 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	107 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	97.6 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	107 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430041
Diesel Range Organics (C10-C28)	ND	25.0	1	07/23/24	07/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/23/24	07/24/24	
Surrogate: n-Nonane	117 %	50-200		07/23/24	07/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2430049
Chloride	35.0	20.0	1	07/23/24	07/24/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-0001
Project Manager: Chance Dixon

Reported:
7/29/2024 5:41:40AM

BH24 - 14 4'

E407173-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Benzene	ND	0.0250	1	07/23/24	07/24/24	
Ethylbenzene	ND	0.0250	1	07/23/24	07/24/24	
Toluene	ND	0.0250	1	07/23/24	07/24/24	
o-Xylene	ND	0.0250	1	07/23/24	07/24/24	
p,m-Xylene	ND	0.0500	1	07/23/24	07/24/24	
Total Xylenes	ND	0.0250	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	98.6 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	107 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	98.6 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	107 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430041
Diesel Range Organics (C10-C28)	ND	25.0	1	07/23/24	07/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/23/24	07/24/24	
Surrogate: n-Nonane	120 %	50-200		07/23/24	07/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2430049
Chloride	72.6	20.0	1	07/23/24	07/24/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-0001
Project Manager: Chance Dixon

Reported:
7/29/2024 5:41:40AM

BH24 - 15 0'

E407173-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Benzene	ND	0.0250	1	07/23/24	07/24/24	
Ethylbenzene	ND	0.0250	1	07/23/24	07/24/24	
Toluene	ND	0.0250	1	07/23/24	07/24/24	
o-Xylene	ND	0.0250	1	07/23/24	07/24/24	
p,m-Xylene	ND	0.0500	1	07/23/24	07/24/24	
Total Xylenes	ND	0.0250	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene		100 %	70-130	07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	07/23/24	07/24/24	
Surrogate: Toluene-d8		108 %	70-130	07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene		100 %	70-130	07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	07/23/24	07/24/24	
Surrogate: Toluene-d8		108 %	70-130	07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430041
Diesel Range Organics (C10-C28)	ND	25.0	1	07/23/24	07/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/23/24	07/24/24	
Surrogate: n-Nonane		120 %	50-200	07/23/24	07/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2430049
Chloride	ND	20.0	1	07/23/24	07/24/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-0001
Project Manager: Chance Dixon

Reported:
7/29/2024 5:41:40AM

BH24 - 15 2'

E407173-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Benzene	ND	0.0250	1	07/23/24	07/24/24	
Ethylbenzene	ND	0.0250	1	07/23/24	07/24/24	
Toluene	ND	0.0250	1	07/23/24	07/24/24	
o-Xylene	ND	0.0250	1	07/23/24	07/24/24	
p,m-Xylene	ND	0.0500	1	07/23/24	07/24/24	
Total Xylenes	ND	0.0250	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	99.2 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	106 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	99.2 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	106 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430041
Diesel Range Organics (C10-C28)	ND	25.0	1	07/23/24	07/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/23/24	07/24/24	
Surrogate: n-Nonane	126 %	50-200		07/23/24	07/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2430049
Chloride	ND	20.0	1	07/23/24	07/24/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-0001
Project Manager: Chance Dixon

Reported:
7/29/2024 5:41:40AM

BH24 - 15 4'

E407173-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Benzene	ND	0.0250	1	07/23/24	07/24/24	
Ethylbenzene	ND	0.0250	1	07/23/24	07/24/24	
Toluene	ND	0.0250	1	07/23/24	07/24/24	
o-Xylene	ND	0.0250	1	07/23/24	07/24/24	
p,m-Xylene	ND	0.0500	1	07/23/24	07/24/24	
Total Xylenes	ND	0.0250	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	97.2 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	106 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	97.2 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	106 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430041
Diesel Range Organics (C10-C28)	ND	25.0	1	07/23/24	07/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/23/24	07/24/24	
Surrogate: n-Nonane	122 %	50-200		07/23/24	07/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2430049
Chloride	109	20.0	1	07/23/24	07/24/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-0001
Project Manager: Chance Dixon

Reported:
7/29/2024 5:41:40AM

BH24 - 16 0'

E407173-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Benzene	ND	0.0250	1	07/23/24	07/24/24	
Ethylbenzene	ND	0.0250	1	07/23/24	07/24/24	
Toluene	ND	0.0250	1	07/23/24	07/24/24	
o-Xylene	ND	0.0250	1	07/23/24	07/24/24	
p,m-Xylene	ND	0.0500	1	07/23/24	07/24/24	
Total Xylenes	ND	0.0250	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	98.5 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	107 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/24	07/24/24	
Surrogate: Bromofluorobenzene	98.5 %	70-130		07/23/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/23/24	07/24/24	
Surrogate: Toluene-d8	107 %	70-130		07/23/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430041
Diesel Range Organics (C10-C28)	ND	25.0	1	07/23/24	07/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/23/24	07/24/24	
Surrogate: n-Nonane	126 %	50-200		07/23/24	07/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2430049
Chloride	117	20.0	1	07/23/24	07/24/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-0001
Project Manager: Chance Dixon

Reported:
7/29/2024 5:41:40AM

BH24 - 16 2'

E407173-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2430045	
Benzene	ND	0.0250	1	07/23/24	07/23/24	
Ethylbenzene	ND	0.0250	1	07/23/24	07/23/24	
Toluene	ND	0.0250	1	07/23/24	07/23/24	
o-Xylene	ND	0.0250	1	07/23/24	07/23/24	
p,m-Xylene	ND	0.0500	1	07/23/24	07/23/24	
Total Xylenes	ND	0.0250	1	07/23/24	07/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.3 %	70-130	07/23/24	07/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2430045	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/24	07/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.7 %	70-130	07/23/24	07/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2430040	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/23/24	07/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/23/24	07/24/24	
<i>Surrogate: n-Nonane</i>		81.8 %	50-200	07/23/24	07/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2430048	
Chloride	280	20.0	1	07/23/24	07/23/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-0001
Project Manager: Chance Dixon

Reported:
7/29/2024 5:41:40AM

BH24 - 16 4'

E407173-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2430045
Benzene	ND	0.0250	1	07/23/24	07/23/24	
Ethylbenzene	ND	0.0250	1	07/23/24	07/23/24	
Toluene	ND	0.0250	1	07/23/24	07/23/24	
o-Xylene	ND	0.0250	1	07/23/24	07/23/24	
p,m-Xylene	ND	0.0500	1	07/23/24	07/23/24	
Total Xylenes	ND	0.0250	1	07/23/24	07/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.7 %	70-130		07/23/24	07/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2430045
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/24	07/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.7 %	70-130		07/23/24	07/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2430040
Diesel Range Organics (C10-C28)	ND	25.0	1	07/23/24	07/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/23/24	07/24/24	
<i>Surrogate: n-Nonane</i>						
	85.0 %	50-200		07/23/24	07/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2430048
Chloride	289	20.0	1	07/23/24	07/23/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-0001
Project Manager: Chance Dixon

Reported:
7/29/2024 5:41:40AM

BH24 - 17 0'

E407173-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2430045
Benzene	ND	0.0250	1	07/23/24	07/23/24	
Ethylbenzene	ND	0.0250	1	07/23/24	07/23/24	
Toluene	ND	0.0250	1	07/23/24	07/23/24	
o-Xylene	ND	0.0250	1	07/23/24	07/23/24	
p,m-Xylene	ND	0.0500	1	07/23/24	07/23/24	
Total Xylenes	ND	0.0250	1	07/23/24	07/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.9 %	70-130		07/23/24	07/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2430045
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/24	07/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.4 %	70-130		07/23/24	07/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2430040
Diesel Range Organics (C10-C28)	ND	25.0	1	07/23/24	07/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/23/24	07/24/24	
<i>Surrogate: n-Nonane</i>						
	77.9 %	50-200		07/23/24	07/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2430048
Chloride	ND	20.0	1	07/23/24	07/23/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-0001
Project Manager: Chance Dixon

Reported:
7/29/2024 5:41:40AM

BH24 - 17 2'

E407173-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2430045
Benzene	ND	0.0250	1	07/23/24	07/23/24	
Ethylbenzene	ND	0.0250	1	07/23/24	07/23/24	
Toluene	ND	0.0250	1	07/23/24	07/23/24	
o-Xylene	ND	0.0250	1	07/23/24	07/23/24	
p,m-Xylene	ND	0.0500	1	07/23/24	07/23/24	
Total Xylenes	ND	0.0250	1	07/23/24	07/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		07/23/24	07/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2430045
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/24	07/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.2 %	70-130		07/23/24	07/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2430040
Diesel Range Organics (C10-C28)	ND	25.0	1	07/23/24	07/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/23/24	07/24/24	
<i>Surrogate: n-Nonane</i>						
	73.8 %	50-200		07/23/24	07/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2430048
Chloride	ND	20.0	1	07/23/24	07/23/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-0001
Project Manager: Chance Dixon

Reported:
7/29/2024 5:41:40AM

BH24 - 17 4'

E407173-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2430045
Benzene	ND	0.0250	1	07/23/24	07/23/24	
Ethylbenzene	ND	0.0250	1	07/23/24	07/23/24	
Toluene	ND	0.0250	1	07/23/24	07/23/24	
o-Xylene	ND	0.0250	1	07/23/24	07/23/24	
p,m-Xylene	ND	0.0500	1	07/23/24	07/23/24	
Total Xylenes	ND	0.0250	1	07/23/24	07/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.1 %	70-130		07/23/24	07/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2430045
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/24	07/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.8 %	70-130		07/23/24	07/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2430040
Diesel Range Organics (C10-C28)	ND	25.0	1	07/23/24	07/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/23/24	07/24/24	
<i>Surrogate: n-Nonane</i>						
	84.0 %	50-200		07/23/24	07/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2430048
Chloride	34.0	20.0	1	07/23/24	07/23/24	



QC Summary Data

Vertex Resource Services Inc.	Project Name:	Jackson Unit #003	Reported:
3101 Boyd Drive	Project Number:	24015-0001	
Carlsbad NM, 88220	Project Manager:	Chance Dixon	7/29/2024 5:41:40AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

Blank (2430047-BLK1) Prepared: 07/23/24 Analyzed: 07/23/24

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: Bromofluorobenzene	0.480		0.500		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.5	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

LCS (2430047-BS1) Prepared: 07/23/24 Analyzed: 07/23/24

Benzene	2.17	0.0250	2.50		86.7	70-130			
Ethylbenzene	2.34	0.0250	2.50		93.7	70-130			
Toluene	2.33	0.0250	2.50		93.2	70-130			
o-Xylene	2.26	0.0250	2.50		90.4	70-130			
p,m-Xylene	4.57	0.0500	5.00		91.4	70-130			
Total Xylenes	6.83	0.0250	7.50		91.1	70-130			
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.5	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

Matrix Spike (2430047-MS1) Source: E407173-06 Prepared: 07/23/24 Analyzed: 07/23/24

Benzene	2.16	0.0250	2.50	ND	86.5	48-131			
Ethylbenzene	2.32	0.0250	2.50	ND	92.8	45-135			
Toluene	2.29	0.0250	2.50	ND	91.5	48-130			
o-Xylene	2.22	0.0250	2.50	ND	88.9	43-135			
p,m-Xylene	4.49	0.0500	5.00	ND	89.7	43-135			
Total Xylenes	6.71	0.0250	7.50	ND	89.5	43-135			
Surrogate: Bromofluorobenzene	0.480		0.500		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			

Matrix Spike Dup (2430047-MSD1) Source: E407173-06 Prepared: 07/23/24 Analyzed: 07/23/24

Benzene	2.20	0.0250	2.50	ND	87.9	48-131	1.58	23	
Ethylbenzene	2.37	0.0250	2.50	ND	94.9	45-135	2.28	27	
Toluene	2.35	0.0250	2.50	ND	94.1	48-130	2.89	24	
o-Xylene	2.28	0.0250	2.50	ND	91.3	43-135	2.62	27	
p,m-Xylene	4.57	0.0500	5.00	ND	91.4	43-135	1.79	27	
Total Xylenes	6.85	0.0250	7.50	ND	91.3	43-135	2.06	27	
Surrogate: Bromofluorobenzene	0.494		0.500		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-0001 Project Manager: Chance Dixon	Reported: 7/29/2024 5:41:40AM
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Volatile Organics by EPA 8021B

Analyst: CG

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 (2430045-BLK1) Prepared: 07/23/24 Analyzed: 07/23/24

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	7.14		8.00		89.2	70-130			

LCS (2430045-BS1) Prepared: 07/23/24 Analyzed: 07/23/24

Benzene	4.91	0.0250	5.00		98.2	70-130			
Ethylbenzene	4.73	0.0250	5.00		94.5	70-130			
Toluene	4.83	0.0250	5.00		96.7	70-130			
o-Xylene	4.70	0.0250	5.00		94.1	70-130			
p,m-Xylene	9.61	0.0500	10.0		96.1	70-130			
Total Xylenes	14.3	0.0250	15.0		95.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.30		8.00		91.2	70-130			

Matrix Spike (2430045-MS1) Source: E407173-23 Prepared: 07/23/24 Analyzed: 07/23/24

Benzene	4.96	0.0250	5.00	ND	99.2	54-133			
Ethylbenzene	4.78	0.0250	5.00	ND	95.5	61-133			
Toluene	4.88	0.0250	5.00	ND	97.6	61-130			
o-Xylene	4.76	0.0250	5.00	ND	95.2	63-131			
p,m-Xylene	9.71	0.0500	10.0	ND	97.1	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.24		8.00		90.6	70-130			

Matrix Spike Dup (2430045-MSD1) Source: E407173-23 Prepared: 07/23/24 Analyzed: 07/23/24

Benzene	4.62	0.0250	5.00	ND	92.4	54-133	7.09	20	
Ethylbenzene	4.45	0.0250	5.00	ND	89.0	61-133	7.06	20	
Toluene	4.55	0.0250	5.00	ND	91.0	61-130	7.00	20	
o-Xylene	4.44	0.0250	5.00	ND	88.8	63-131	6.86	20	
p,m-Xylene	9.06	0.0500	10.0	ND	90.6	63-131	6.97	20	
Total Xylenes	13.5	0.0250	15.0	ND	90.0	63-131	6.94	20	
Surrogate: 4-Bromochlorobenzene-PID	7.25		8.00		90.7	70-130			



QC Summary Data

Vertex Resource Services Inc.	Project Name:	Jackson Unit #003	Reported:
3101 Boyd Drive	Project Number:	24015-0001	
Carlsbad NM, 88220	Project Manager:	Chance Dixon	7/29/2024 5:41:40AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

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 (2430045-BLK1) Prepared: 07/23/24 Analyzed: 07/23/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130			

LCS (2430045-BS2) Prepared: 07/23/24 Analyzed: 07/23/24

Gasoline Range Organics (C6-C10)	46.3	20.0	50.0		92.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		8.00		97.3	70-130			

Matrix Spike (2430045-MS2) Source: E407173-23 Prepared: 07/23/24 Analyzed: 07/23/24

Gasoline Range Organics (C6-C10)	43.6	20.0	50.0	ND	87.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		8.00		97.5	70-130			

Matrix Spike Dup (2430045-MSD2) Source: E407173-23 Prepared: 07/23/24 Analyzed: 07/23/24

Gasoline Range Organics (C6-C10)	44.3	20.0	50.0	ND	88.7	70-130	1.71	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		8.00		97.9	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-0001 Project Manager: Chance Dixon	Reported: 7/29/2024 5:41:40AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

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 (2430047-BLK1) Prepared: 07/23/24 Analyzed: 07/23/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.480		0.500		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.5	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

LCS (2430047-BS2) Prepared: 07/23/24 Analyzed: 07/23/24

Gasoline Range Organics (C6-C10)	52.6	20.0	50.0		105	70-130			
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			

Matrix Spike (2430047-MS2) Source: E407173-06 Prepared: 07/23/24 Analyzed: 07/23/24

Gasoline Range Organics (C6-C10)	54.6	20.0	50.0	ND	109	70-130			
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

Matrix Spike Dup (2430047-MSD2) Source: E407173-06 Prepared: 07/23/24 Analyzed: 07/23/24

Gasoline Range Organics (C6-C10)	54.2	20.0	50.0	ND	108	70-130	0.876	20	
Surrogate: Bromofluorobenzene	0.500		0.500		99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.6	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-0001 Project Manager: Chance Dixon	Reported: 7/29/2024 5:41:40AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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 (2430040-BLK1) Prepared: 07/23/24 Analyzed: 07/23/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	41.7		50.0		83.3	50-200			

LCS (2430040-BS1) Prepared: 07/23/24 Analyzed: 07/23/24

Diesel Range Organics (C10-C28)	210	25.0	250		83.9	38-132			
Surrogate: n-Nonane	45.0		50.0		90.0	50-200			

Matrix Spike (2430040-MS1) Source: E407170-04 Prepared: 07/23/24 Analyzed: 07/23/24

Diesel Range Organics (C10-C28)	219	25.0	250	ND	87.7	38-132			
Surrogate: n-Nonane	44.5		50.0		89.0	50-200			

Matrix Spike Dup (2430040-MSD1) Source: E407170-04 Prepared: 07/23/24 Analyzed: 07/23/24

Diesel Range Organics (C10-C28)	215	25.0	250	ND	85.9	38-132	2.08	20	
Surrogate: n-Nonane	44.5		50.0		89.0	50-200			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-0001 Project Manager: Chance Dixon	Reported: 7/29/2024 5:41:40AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

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 (2430041-BLK1) Prepared: 07/23/24 Analyzed: 07/23/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.4		50.0		117	50-200			

LCS (2430041-BS1) Prepared: 07/23/24 Analyzed: 07/23/24

Diesel Range Organics (C10-C28)	226	25.0	250		90.4	38-132			
Surrogate: n-Nonane	59.1		50.0		118	50-200			

Matrix Spike (2430041-MS1) Source: E407173-08 Prepared: 07/23/24 Analyzed: 07/23/24

Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	59.0		50.0		118	50-200			

Matrix Spike Dup (2430041-MSD1) Source: E407173-08 Prepared: 07/23/24 Analyzed: 07/23/24

Diesel Range Organics (C10-C28)	274	25.0	250	ND	110	38-132	8.25	20	
Surrogate: n-Nonane	61.3		50.0		123	50-200			



QC Summary Data

Vertex Resource Services Inc.	Project Name:	Jackson Unit #003	Reported:
3101 Boyd Drive	Project Number:	24015-0001	
Carlsbad NM, 88220	Project Manager:	Chance Dixon	7/29/2024 5:41:40AM

Anions by EPA 300.0/9056A

Analyst: JM

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

Blank (2430048-BLK1)					Prepared: 07/23/24 Analyzed: 07/23/24				
Chloride	ND	20.0							
LCS (2430048-BS1)					Prepared: 07/23/24 Analyzed: 07/23/24				
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2430048-MS1)					Source: E407170-04		Prepared: 07/23/24 Analyzed: 07/23/24		
Chloride	309	20.0	250	53.3	102	80-120			
Matrix Spike Dup (2430048-MSD1)					Source: E407170-04		Prepared: 07/23/24 Analyzed: 07/23/24		
Chloride	310	20.0	250	53.3	103	80-120	0.280	20	



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-0001 Project Manager: Chance Dixon	Reported: 7/29/2024 5:41:40AM
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Anions by EPA 300.0/9056A

Analyst: WF

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 (2430049-BLK1)					Prepared: 07/23/24 Analyzed: 07/23/24				
Chloride	ND	20.0							
LCS (2430049-BS1)					Prepared: 07/23/24 Analyzed: 07/23/24				
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2430049-MS1)					Source: E407173-02		Prepared: 07/23/24 Analyzed: 07/23/24		
Chloride	269	20.0	250	ND	108	80-120			
Matrix Spike Dup (2430049-MSD1)					Source: E407173-02		Prepared: 07/23/24 Analyzed: 07/23/24		
Chloride	273	20.0	250	ND	109	80-120	1.30	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.	Project Name:	Jackson Unit #003	
3101 Boyd Drive	Project Number:	24015-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Chance Dixon	07/29/24 05:41

- 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

Page 1 of 3

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: <u>Vertex (Bill Direct Tap Rock)</u>				Company: <u>Tap Rock (Bill Ramsey)</u>		Lab WO# <u>E407173</u>		Job Number <u>24015-0001</u>				1D	2D	3D	Std		
Project Name: <u>Jackson Unit #003</u>				Address:								<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Project Manager: <u>Chance Dixon</u>				City, State, Zip:								NM	CO	UT	TX		
Address: <u>project #: 24E-032/b</u>				Phone:													
City, State, Zip:				Email:													
Phone:				Miscellaneous: <u>Direct bill to Tap Rock</u>													
Email: <u>CDixon@VertexResource.com</u>				ATTN: <u>Bill Ramsey</u>													
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
9:45	7/19/24	Soil	1	BH24-09 0'		1	✓	✓	✓		✓						
9:50				BH24-09 2'		2											
9:55				BH24-09 4'		3											
10:00				BH24-10 0'		4											
10:05				BH24-10 2'		5											
10:10				BH24-11 0'		6											
10:15				BH24-11 2'		7											
10:20				BH24-11 4'		8											
10:25				BH24-12 0'		9											
10:30				BH24-12 2'		10											
Additional Instructions:																	
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: <u>Stephanie McCarty</u>																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	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 6C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other <u>S</u>																	
Container Type: <u>g</u> - glass, <u>p</u> - poly/plastic, <u>ag</u> - amber glass, <u>v</u> - VOA <u>g</u>																	
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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Project Information

Chain of Custody

Page 2 of 3

Client: <u>Vertex (Bill direct Tap Rock)</u>		Bill To		Lab Use Only		TAT				EPA Program			
Project: <u>Jackson Unit #403</u>		Attention: <u>Tap Rock (Bill Ramsey)</u>		Lab WO# <u>E403173</u>		Job Number <u>2405-0001</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: <u>Chen Dixon</u>		Address:		Analysis and Method									
Address: <u>project #: 24E-0336</u>		City, State, Zip											RCRA
City, State, Zip		Phone:											
Phone:		Email:											
Email: <u>CDixon@VertexResource.com</u>		Direct bill to Tap Rock											
Report due by:		ATTN: <u>Bill Ramsey</u>											

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
10:35	7/19/24	Soil	1	BH24-13 0'	11	✓	✓			✓			
10:40				BH24-13 2'	12								
10:45				BH24-13 4'	13								
11:00				BH24-14 0'	14								
11:05				BH24-14 2'	15								
11:15				BH24-14 4'	16								
11:20				BH24-15 0'	17								
11:25				BH24-15 2'	18								
11:30				BH24-15 4'	19								
11:35				BH24-16 0'	20								

Additional Instructions:

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

Sampled by: Stephanie McCarty

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) <u>[Signature]</u>	Date <u>7/21/24</u>	Time	Received by: (Signature) <u>Michelle Gonzales</u>	Date <u>7-22-24</u>	Time <u>1030</u>	Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>7-22-24</u>	Time <u>1620</u>	Received by: (Signature) <u>A.M.</u>	Date <u>7-22-24</u>	Time <u>1730</u>	
Relinquished by: (Signature) <u>A.M.</u>	Date <u>7-22-24</u>	Time <u>2345</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>7-23-24</u>	Time <u>0830</u>	

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 30 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.

Chain of Custody

Client Information		Invoice Information		Lab Use Only		TAT				State									
Client: <u>Vertex (Direct bill to TopRock)</u>		Company: <u>TopRock (Bill Ramsey)</u>		Lab WO#		1D	2D	3D	Std	NM	CO	UT	TX						
Project Name: <u>Jackson Unit #003</u>		Address:		E 407173		24015-0001				✓	✓								
Project Manager: <u>Chance Dixon</u>		City, State, Zip:																	
Address: <u>Project #: 2YE-0336</u>		Phone:																	
City, State, Zip:		Email:																	
Phone:		Miscellaneous: <u>Direct bill to TopRock</u>																	
Email: <u>C.Dixon@VertexResource.com</u>		ATTN: <u>Bill Ramsey</u>																	
										Analysis and Method				EPA Program					
														SDWA		CWA		RCRA	
														Compliance		Y		or N	

[illegible]

Additional Instructions:

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: Stephanie McCarty

Relinquished by: (Signature) <i>[Signature]</i>	Date 7/21/24	Time	Received by: (Signature) <i>Michelle Gonzales</i>	Date 7-22-24	Time 1030	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 8C on subsequent days. Lab Use Only Received on ice: <i>Y</i> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <i>4</i>
Relinquished by: (Signature) <i>[Signature]</i>	Date 7-22-24	Time 1620	Received by: (Signature) <i>A.H.</i>	Date 7-22-24	Time 1730	
Relinquished by: (Signature) <i>Michelle Gonzales</i>	Date 7-22-24	Time 1620	Received by: (Signature)	Date	Time	
Relinquished by: (Signature) <i>A.H.</i>	Date 7-22-24	Time 2345	Received by: (Signature) <i>[Signature]</i>	Date 7/23/24	Time 0830	
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: 7/23/2024 3:02:32PM

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:	07/23/24 08:30	Work Order ID:	E407173
Phone:	(575) 748-0176	Date Logged In:	07/22/24 17:07	Logged In By:	Noe Soto
Email:	cdixon@vertex.ca	Due Date:	07/29/24 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

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

Carrier: CourierComments/ResolutionSample 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? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

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

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

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

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 #003

Work Order: E408081

Job Number: 24015-0001

Received: 8/9/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/12/24

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: 8/12/24

Chance Dixon
3101 Boyd Drive
Carlsbad, NM 88220



Project Name: Jackson Unit #003
Workorder: E408081
Date Received: 8/9/2024 6:30:00AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/9/2024 6:30:00AM, under the Project Name: Jackson Unit #003.

The analytical test results summarized in this report with the Project Name: Jackson Unit #003 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.	Project Name:	Jackson Unit #003	Reported:
3101 Boyd Drive	Project Number:	24015-0001	
Carlsbad NM, 88220	Project Manager:	Chance Dixon	08/12/24 14:23

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH24-09 7'	E408081-01A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-0001 Project Manager: Chance Dixon	Reported: 8/12/2024 2:23:14PM
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BH24-09 7'
E408081-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2432116	
Benzene	ND	0.0250	1	08/09/24	08/09/24	
Ethylbenzene	1.17	0.0250	1	08/09/24	08/09/24	
Toluene	1.37	0.0250	1	08/09/24	08/09/24	
o-Xylene	1.46	0.0250	1	08/09/24	08/09/24	
p,m-Xylene	12.4	0.0500	1	08/09/24	08/09/24	
Total Xylenes	13.9	0.0250	1	08/09/24	08/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		115 %	70-130	08/09/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2432116	
Gasoline Range Organics (C6-C10)	434	20.0	1	08/09/24	08/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		119 %	70-130	08/09/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2432114	
Diesel Range Organics (C10-C28)	1220	25.0	1	08/09/24	08/09/24	
Oil Range Organics (C28-C36)	71.8	50.0	1	08/09/24	08/09/24	
<i>Surrogate: n-Nonane</i>						
		126 %	50-200	08/09/24	08/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2432125	
Chloride	29.3	20.0	1	08/09/24	08/09/24	



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-0001 Project Manager: Chance Dixon	Reported: 8/12/2024 2:23:14PM
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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 (2432116-BLK1) Prepared: 08/09/24 Analyzed: 08/09/24

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	7.21		8.00		90.1	70-130			

LCS (2432116-BS1) Prepared: 08/09/24 Analyzed: 08/09/24

Benzene	5.34	0.0250	5.00		107	70-130			
Ethylbenzene	5.11	0.0250	5.00		102	70-130			
Toluene	5.34	0.0250	5.00		107	70-130			
o-Xylene	5.22	0.0250	5.00		104	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.7	0.0250	15.0		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.31		8.00		91.4	70-130			

Matrix Spike (2432116-MS1) Source: E408081-01 Prepared: 08/09/24 Analyzed: 08/09/24

Benzene	4.82	0.0250	5.00	ND	96.4	54-133			
Ethylbenzene	5.94	0.0250	5.00	1.17	95.3	61-133			
Toluene	5.95	0.0250	5.00	1.37	91.7	61-130			
o-Xylene	7.04	0.0250	5.00	1.46	112	63-131			
p,m-Xylene	18.9	0.0500	10.0	12.4	64.3	63-131			
Total Xylenes	25.9	0.0250	15.0	13.9	80.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.91		8.00		111	70-130			

Matrix Spike Dup (2432116-MSD1) Source: E408081-01 Prepared: 08/09/24 Analyzed: 08/09/24

Benzene	4.96	0.0250	5.00	ND	99.2	54-133	2.89	20	
Ethylbenzene	6.08	0.0250	5.00	1.17	98.1	61-133	2.35	20	
Toluene	6.09	0.0250	5.00	1.37	94.4	61-130	2.25	20	
o-Xylene	7.17	0.0250	5.00	1.46	114	63-131	1.81	20	
p,m-Xylene	19.2	0.0500	10.0	12.4	67.3	63-131	1.59	20	
Total Xylenes	26.3	0.0250	15.0	13.9	83.0	63-131	1.65	20	
Surrogate: 4-Bromochlorobenzene-PID	8.87		8.00		111	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-0001 Project Manager: Chance Dixon	Reported: 8/12/2024 2:23:14PM
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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 (2432116-BLK1) Prepared: 08/09/24 Analyzed: 08/09/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.35		8.00		104	70-130			

LCS (2432116-BS2) Prepared: 08/09/24 Analyzed: 08/09/24

Gasoline Range Organics (C6-C10)	47.7	20.0	50.0		95.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.59		8.00		107	70-130			

Matrix Spike (2432116-MS2) Source: E408081-01 Prepared: 08/09/24 Analyzed: 08/09/24

Gasoline Range Organics (C6-C10)	356	20.0	50.0	434	NR	70-130			M4
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.46		8.00		118	70-130			

Matrix Spike Dup (2432116-MSD2) Source: E408081-01 Prepared: 08/09/24 Analyzed: 08/09/24

Gasoline Range Organics (C6-C10)	398	20.0	50.0	434	NR	70-130	11.1	20	M4
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.51		8.00		119	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-0001 Project Manager: Chance Dixon	Reported: 8/12/2024 2:23:14PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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 (2432114-BLK1)					Prepared: 08/09/24 Analyzed: 08/09/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.4		50.0		107	50-200			

LCS (2432114-BS1)					Prepared: 08/09/24 Analyzed: 08/09/24				
Diesel Range Organics (C10-C28)	248	25.0	250		99.2	38-132			
Surrogate: n-Nonane	53.5		50.0		107	50-200			

Matrix Spike (2432114-MS1)					Source: E408086-07		Prepared: 08/09/24 Analyzed: 08/09/24		
Diesel Range Organics (C10-C28)	242	25.0	250	ND	97.0	38-132			
Surrogate: n-Nonane	54.3		50.0		109	50-200			

Matrix Spike Dup (2432114-MSD1)					Source: E408086-07		Prepared: 08/09/24 Analyzed: 08/09/24		
Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	38-132	5.16	20	
Surrogate: n-Nonane	53.3		50.0		107	50-200			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-0001 Project Manager: Chance Dixon	Reported: 8/12/2024 2:23:14PM
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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 (2432125-BLK1)					Prepared: 08/09/24 Analyzed: 08/09/24				
Chloride	ND	20.0							
LCS (2432125-BS1)					Prepared: 08/09/24 Analyzed: 08/09/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2432125-MS1)					Source: E408081-01		Prepared: 08/09/24 Analyzed: 08/09/24		
Chloride	285	20.0	250	29.3	102	80-120			
Matrix Spike Dup (2432125-MSD1)					Source: E408081-01		Prepared: 08/09/24 Analyzed: 08/09/24		
Chloride	285	20.0	250	29.3	102	80-120	0.0657	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.	Project Name:	Jackson Unit #003	
3101 Boyd Drive	Project Number:	24015-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Chance Dixon	08/12/24 14:23

- 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.



Page 11 of 12

Envirotech Analytical Laboratory

Printed: 8/9/2024 8:07:42AM

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:	08/09/24 06:30	Work Order ID:	E408081
Phone:	(575) 748-0176	Date Logged In:	08/09/24 06:35	Logged In By:	Noe Soto
Email:	cdixon@vertex.ca	Due Date:	08/09/24 17:00 (0 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

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

Carrier: CourierComments/ResolutionSample 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? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

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

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

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

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 #003

Work Order: E408143

Job Number: 24015-0001

Received: 8/16/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/19/24

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: 8/19/24

Chance Dixon
3101 Boyd Drive
Carlsbad, NM 88220



Project Name: Jackson Unit #003
Workorder: E408143
Date Received: 8/16/2024 8:00:56AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/16/2024 8:00:56AM, under the Project Name: Jackson Unit #003.

The analytical test results summarized in this report with the Project Name: Jackson Unit #003 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
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whinchman@envirotech-inc.com

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Sample Summary

Vertex Resource Services Inc.	Project Name:	Jackson Unit #003	Reported:
3101 Boyd Drive	Project Number:	24015-0001	
Carlsbad NM, 88220	Project Manager:	Chance Dixon	08/19/24 15:07

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH24-09 8.0'	E408143-01A	Soil	08/15/24	08/16/24	Glass Jar, 4 oz.



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-0001 Project Manager: Chance Dixon	Reported: 8/19/2024 3:07:16PM
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BH24-09 8.0'
E408143-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2433113	
Benzene	ND	0.0250	1	08/16/24	08/16/24	
Ethylbenzene	0.654	0.0250	1	08/16/24	08/16/24	
Toluene	0.488	0.0250	1	08/16/24	08/16/24	
o-Xylene	1.09	0.0250	1	08/16/24	08/16/24	
p,m-Xylene	4.64	0.0500	1	08/16/24	08/16/24	
Total Xylenes	5.73	0.0250	1	08/16/24	08/16/24	
Surrogate: 4-Bromochlorobenzene-PID	90.8 %	70-130		08/16/24	08/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2433113	
Gasoline Range Organics (C6-C10)	216	20.0	1	08/16/24	08/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	161 %	70-130		08/16/24	08/16/24	S3
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2433105	
Diesel Range Organics (C10-C28)	730	25.0	1	08/15/24	08/16/24	
Oil Range Organics (C28-C36)	58.2	50.0	1	08/15/24	08/16/24	
Surrogate: n-Nonane	111 %	50-200		08/15/24	08/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2433112	
Chloride	55.2	20.0	1	08/16/24	08/16/24	

QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-0001 Project Manager: Chance Dixon	Reported: 8/19/2024 3:07:16PM
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Volatile Organics by EPA 8021B

Analyst: IY

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 (2433113-BLK1) Prepared: 08/16/24 Analyzed: 08/16/24

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	7.16		8.00		89.4	70-130			

LCS (2433113-BS1) Prepared: 08/16/24 Analyzed: 08/16/24

Benzene	5.28	0.0250	5.00		106	70-130			
Ethylbenzene	5.10	0.0250	5.00		102	70-130			
Toluene	5.20	0.0250	5.00		104	70-130			
o-Xylene	5.07	0.0250	5.00		101	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.15		8.00		89.4	70-130			

Matrix Spike (2433113-MS1) Source: E408144-07 Prepared: 08/16/24 Analyzed: 08/16/24

Benzene	5.10	0.0250	5.00	ND	102	54-133			
Ethylbenzene	4.91	0.0250	5.00	ND	98.2	61-133			
Toluene	5.01	0.0250	5.00	ND	100	61-130			
o-Xylene	4.89	0.0250	5.00	ND	97.8	63-131			
p,m-Xylene	9.98	0.0500	10.0	ND	99.8	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.20		8.00		90.1	70-130			

Matrix Spike Dup (2433113-MSD1) Source: E408144-07 Prepared: 08/16/24 Analyzed: 08/16/24

Benzene	5.14	0.0250	5.00	ND	103	54-133	0.925	20	
Ethylbenzene	4.95	0.0250	5.00	ND	99.1	61-133	0.862	20	
Toluene	5.06	0.0250	5.00	ND	101	61-130	0.839	20	
o-Xylene	4.92	0.0250	5.00	ND	98.5	63-131	0.703	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	0.775	20	
Total Xylenes	15.0	0.0250	15.0	ND	99.9	63-131	0.752	20	
Surrogate: 4-Bromochlorobenzene-PID	7.14		8.00		89.2	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-0001 Project Manager: Chance Dixon	Reported: 8/19/2024 3:07:16PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

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 (2433113-BLK1) Prepared: 08/16/24 Analyzed: 08/16/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.3	70-130			

LCS (2433113-BS2) Prepared: 08/16/24 Analyzed: 08/16/24

Gasoline Range Organics (C6-C10)	46.3	20.0	50.0		92.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.0	70-130			

Matrix Spike (2433113-MS2) Source: E408144-07 Prepared: 08/16/24 Analyzed: 08/16/24

Gasoline Range Organics (C6-C10)	45.5	20.0	50.0	ND	91.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.3	70-130			

Matrix Spike Dup (2433113-MSD2) Source: E408144-07 Prepared: 08/16/24 Analyzed: 08/16/24

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.1	70-130	0.166	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.7	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-0001 Project Manager: Chance Dixon	Reported: 8/19/2024 3:07:16PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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 (2433105-BLK1)					Prepared: 08/15/24 Analyzed: 08/16/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.0		50.0		114	50-200			

LCS (2433105-BS1)					Prepared: 08/15/24 Analyzed: 08/16/24				
Diesel Range Organics (C10-C28)	237	25.0	250		94.6	38-132			
Surrogate: n-Nonane	56.5		50.0		113	50-200			

Matrix Spike (2433105-MS1)					Source: E408144-06		Prepared: 08/15/24 Analyzed: 08/16/24		
Diesel Range Organics (C10-C28)	225	25.0	250	ND	90.1	38-132			
Surrogate: n-Nonane	48.1		50.0		96.2	50-200			

Matrix Spike Dup (2433105-MSD1)					Source: E408144-06		Prepared: 08/15/24 Analyzed: 08/16/24		
Diesel Range Organics (C10-C28)	250	25.0	250	ND	100	38-132	10.4	20	
Surrogate: n-Nonane	60.7		50.0		121	50-200			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-0001 Project Manager: Chance Dixon	Reported: 8/19/2024 3:07:16PM
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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 (2433112-BLK1)					Prepared: 08/16/24 Analyzed: 08/16/24				
Chloride	ND	20.0							
LCS (2433112-BS1)					Prepared: 08/16/24 Analyzed: 08/16/24				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2433112-MS1)					Source: E408143-01		Prepared: 08/16/24 Analyzed: 08/16/24		
Chloride	311	20.0	250	55.2	102	80-120			
Matrix Spike Dup (2433112-MSD1)					Source: E408143-01		Prepared: 08/16/24 Analyzed: 08/16/24		
Chloride	317	20.0	250	55.2	105	80-120	1.94	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.	Project Name:	Jackson Unit #003	
3101 Boyd Drive	Project Number:	24015-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Chance Dixon	08/19/24 15:07

- S3 Surrogate spike recovery was outside acceptance limits. 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.

Envirotech Analytical Laboratory

Printed: 8/16/2024 8:40:07AM

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:	08/16/24 08:00	Work Order ID:	E408143
Phone:	(575) 748-0176	Date Logged In:	08/15/24 15:10	Logged In By:	Noe Soto
Email:	cdixon@vertex.ca	Due Date:	08/16/24 17:00 (0 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

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

Carrier: CourierComments/ResolutionSample 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? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

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

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

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

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 #003

Work Order: E408175

Job Number: 19031-0001

Received: 8/21/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/27/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
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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: 8/27/24

Chance Dixon
3101 Boyd Drive
Carlsbad, NM 88220



Project Name: Jackson Unit #003
Workorder: E408175
Date Received: 8/21/2024 5:00:00AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/21/2024 5:00:00AM, under the Project Name: Jackson Unit #003.

The analytical test results summarized in this report with the Project Name: Jackson Unit #003 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
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Sample Summary

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 19031-0001 Project Manager: Chance Dixon	Reported: 08/27/24 07:55
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
WES24-11 0-4'	E408175-01A	soil	08/19/24	08/21/24	Glass Jar, 2 oz.
BES24-01 4.0'	E408175-02A	soil	08/19/24	08/21/24	Glass Jar, 2 oz.
BES24-02 4.0'	E408175-03A	soil	08/19/24	08/21/24	Glass Jar, 2 oz.
BES24-03 4.0'	E408175-04A	soil	08/19/24	08/21/24	Glass Jar, 2 oz.
BES24-04 8.5'	E408175-05A	soil	08/19/24	08/21/24	Glass Jar, 2 oz.
BES24-05 6.0'	E408175-06A	soil	08/19/24	08/21/24	Glass Jar, 2 oz.
BES24-06 4.0'	E408175-07A	soil	08/19/24	08/21/24	Glass Jar, 2 oz.
BES24-07 4.0'	E408175-08A	soil	08/19/24	08/21/24	Glass Jar, 2 oz.
BES24-08 4.0'	E408175-09A	soil	08/19/24	08/21/24	Glass Jar, 2 oz.
BES24-09 4.0'	E408175-10A	soil	08/19/24	08/21/24	Glass Jar, 2 oz.
WES24-13 0-4'	E408175-11A	soil	08/19/24	08/21/24	Glass Jar, 2 oz.
WES24-15 0-4'	E408175-12A	soil	08/19/24	08/21/24	Glass Jar, 2 oz.
WES24-16 0-4'	E408175-13A	soil	08/19/24	08/21/24	Glass Jar, 2 oz.
WES24-04 0-4'	E408175-14A	soil	08/19/24	08/21/24	Glass Jar, 2 oz.
WES24-05 4-8'	E408175-15A	soil	08/19/24	08/21/24	Glass Jar, 2 oz.
WES24-06 4-8'	E408175-16A	soil	08/19/24	08/21/24	Glass Jar, 2 oz.
WES24-07 4-6'	E408175-17A	soil	08/19/24	08/21/24	Glass Jar, 2 oz.
WES24-08 0-4'	E408175-18A	soil	08/19/24	08/21/24	Glass Jar, 2 oz.
WES24-09 0-4'	E408175-19A	soil	08/19/24	08/21/24	Glass Jar, 2 oz.
WES24-10 0-4'	E408175-20A	soil	08/19/24	08/21/24	Glass Jar, 2 oz.
BES24-10 4.0'	E408175-21A	soil	08/19/24	08/21/24	Glass Jar, 2 oz.



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 19031-0001 Project Manager: Chance Dixon	Reported: 8/27/2024 7:55:12AM
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WES24-11 0-4'

E408175-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Benzene	ND	0.0250	1	08/21/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/21/24	08/22/24	
Toluene	ND	0.0250	1	08/21/24	08/22/24	
o-Xylene	ND	0.0250	1	08/21/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/21/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/21/24	08/22/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>92.1 %</i>	<i>70-130</i>		<i>08/21/24</i>	<i>08/22/24</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/22/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>96.3 %</i>	<i>70-130</i>		<i>08/21/24</i>	<i>08/22/24</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434049	
Diesel Range Organics (C10-C28)	189	25.0	1	08/21/24	08/22/24	
Oil Range Organics (C28-C36)	77.0	50.0	1	08/21/24	08/22/24	
<i>Surrogate: n-Nonane</i>	<i>89.7 %</i>	<i>50-200</i>		<i>08/21/24</i>	<i>08/22/24</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2434050	
Chloride	50.5	20.0	1	08/21/24	08/21/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 19031-0001
Project Manager: Chance Dixon

Reported:
8/27/2024 7:55:12AM

BES24-01 4.0'

E408175-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2434046
Benzene	ND	0.0250	1	08/21/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/21/24	08/22/24	
Toluene	ND	0.0250	1	08/21/24	08/22/24	
o-Xylene	ND	0.0250	1	08/21/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/21/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/21/24	08/22/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.6 %	70-130	08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2434046
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/22/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.2 %	70-130	08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434049
Diesel Range Organics (C10-C28)	1570	25.0	1	08/21/24	08/22/24	
Oil Range Organics (C28-C36)	225	50.0	1	08/21/24	08/22/24	
<i>Surrogate: n-Nonane</i>						
		86.8 %	50-200	08/21/24	08/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2434050
Chloride	29.7	20.0	1	08/21/24	08/21/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 19031-0001 Project Manager: Chance Dixon	Reported: 8/27/2024 7:55:12AM
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BES24-02 4.0'
E408175-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Benzene	ND	0.0250	1	08/21/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/21/24	08/22/24	
Toluene	ND	0.0250	1	08/21/24	08/22/24	
o-Xylene	ND	0.0250	1	08/21/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/21/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/21/24	08/22/24	
Surrogate: 4-Bromochlorobenzene-PID	91.5 %	70-130		08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.9 %	70-130		08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434049	
Diesel Range Organics (C10-C28)	349	25.0	1	08/21/24	08/22/24	
Oil Range Organics (C28-C36)	110	50.0	1	08/21/24	08/22/24	
Surrogate: n-Nonane	82.3 %	50-200		08/21/24	08/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2434050	
Chloride	ND	20.0	1	08/21/24	08/21/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 19031-0001
Project Manager: Chance Dixon

Reported:
8/27/2024 7:55:12AM

BES24-03 4.0'

E408175-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2434046
Benzene	ND	0.0250	1	08/21/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/21/24	08/22/24	
Toluene	ND	0.0250	1	08/21/24	08/22/24	
o-Xylene	ND	0.0250	1	08/21/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/21/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/21/24	08/22/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.4 %	70-130	08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2434046
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/22/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.5 %	70-130	08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434049
Diesel Range Organics (C10-C28)	81.8	25.0	1	08/21/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/21/24	08/22/24	
<i>Surrogate: n-Nonane</i>						
		84.3 %	50-200	08/21/24	08/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2434050
Chloride	ND	20.0	1	08/21/24	08/21/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 19031-0001 Project Manager: Chance Dixon	Reported: 8/27/2024 7:55:12AM
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BES24-04 8.5'
E408175-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Benzene	ND	0.0250	1	08/21/24	08/22/24	
Ethylbenzene	0.0307	0.0250	1	08/21/24	08/22/24	
Toluene	ND	0.0250	1	08/21/24	08/22/24	
o-Xylene	0.0780	0.0250	1	08/21/24	08/22/24	
p,m-Xylene	0.161	0.0500	1	08/21/24	08/22/24	
Total Xylenes	0.239	0.0250	1	08/21/24	08/22/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.1 %	70-130		08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/22/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	102 %	70-130		08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434049	
Diesel Range Organics (C10-C28)	396	25.0	1	08/21/24	08/22/24	
Oil Range Organics (C28-C36)	63.3	50.0	1	08/21/24	08/22/24	
<i>Surrogate: n-Nonane</i>						
	85.2 %	50-200		08/21/24	08/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2434050	
Chloride	ND	40.0	2	08/21/24	08/21/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 19031-0001 Project Manager: Chance Dixon	Reported: 8/27/2024 7:55:12AM
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BES24-05 6.0'
E408175-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Benzene	ND	0.0250	1	08/21/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/21/24	08/22/24	
Toluene	ND	0.0250	1	08/21/24	08/22/24	
o-Xylene	ND	0.0250	1	08/21/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/21/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/21/24	08/22/24	
Surrogate: 4-Bromochlorobenzene-PID	91.5 %	70-130		08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.8 %	70-130		08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434049	
Diesel Range Organics (C10-C28)	162	25.0	1	08/21/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/21/24	08/22/24	
Surrogate: n-Nonane	83.1 %	50-200		08/21/24	08/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2434050	
Chloride	ND	20.0	1	08/21/24	08/21/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 19031-0001 Project Manager: Chance Dixon	Reported: 8/27/2024 7:55:12AM
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BES24-06 4.0'
E408175-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Benzene	ND	0.0250	1	08/21/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/21/24	08/22/24	
Toluene	ND	0.0250	1	08/21/24	08/22/24	
o-Xylene	ND	0.0250	1	08/21/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/21/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/21/24	08/22/24	
Surrogate: 4-Bromochlorobenzene-PID	90.5 %	70-130		08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.8 %	70-130		08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434049	
Diesel Range Organics (C10-C28)	232	25.0	1	08/21/24	08/22/24	
Oil Range Organics (C28-C36)	62.1	50.0	1	08/21/24	08/22/24	
Surrogate: n-Nonane	87.2 %	50-200		08/21/24	08/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2434050	
Chloride	31.7	20.0	1	08/21/24	08/21/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 19031-0001 Project Manager: Chance Dixon	Reported: 8/27/2024 7:55:12AM
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BES24-07 4.0'
E408175-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Benzene	ND	0.0250	1	08/21/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/21/24	08/22/24	
Toluene	ND	0.0250	1	08/21/24	08/22/24	
o-Xylene	ND	0.0250	1	08/21/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/21/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/21/24	08/22/24	
Surrogate: 4-Bromochlorobenzene-PID	90.1 %	70-130		08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.4 %	70-130		08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434049	
Diesel Range Organics (C10-C28)	243	25.0	1	08/21/24	08/22/24	
Oil Range Organics (C28-C36)	57.6	50.0	1	08/21/24	08/22/24	
Surrogate: n-Nonane	85.2 %	50-200		08/21/24	08/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2434050	
Chloride	46.1	20.0	1	08/21/24	08/21/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 19031-0001
Project Manager: Chance Dixon

Reported:
8/27/2024 7:55:12AM

BES24-08 4.0'

E408175-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2434046
Benzene	ND	0.0250	1	08/21/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/21/24	08/22/24	
Toluene	ND	0.0250	1	08/21/24	08/22/24	
o-Xylene	ND	0.0250	1	08/21/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/21/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/21/24	08/22/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.5 %	70-130		08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2434046
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/22/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.1 %	70-130		08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434049
Diesel Range Organics (C10-C28)	54.0	25.0	1	08/21/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/21/24	08/22/24	
<i>Surrogate: n-Nonane</i>						
	90.8 %	50-200		08/21/24	08/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2434050
Chloride	97.7	40.0	2	08/21/24	08/21/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 19031-0001 Project Manager: Chance Dixon	Reported: 8/27/2024 7:55:12AM
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BES24-09 4.0'
E408175-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Benzene	ND	0.0250	1	08/21/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/21/24	08/22/24	
Toluene	ND	0.0250	1	08/21/24	08/22/24	
o-Xylene	ND	0.0250	1	08/21/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/21/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/21/24	08/22/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.2 %	70-130		08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/22/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.4 %	70-130		08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434049	
Diesel Range Organics (C10-C28)	81.8	25.0	1	08/21/24	08/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/21/24	08/23/24	
<i>Surrogate: n-Nonane</i>						
	83.6 %	50-200		08/21/24	08/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2434050	
Chloride	ND	20.0	1	08/21/24	08/21/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 19031-0001 Project Manager: Chance Dixon	Reported: 8/27/2024 7:55:12AM
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WES24-13 0-4'
E408175-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Benzene	ND	0.0250	1	08/21/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/21/24	08/22/24	
Toluene	ND	0.0250	1	08/21/24	08/22/24	
o-Xylene	ND	0.0250	1	08/21/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/21/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/21/24	08/22/24	
Surrogate: 4-Bromochlorobenzene-PID	88.3 %	70-130		08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.8 %	70-130		08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434049	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/21/24	08/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/21/24	08/23/24	
Surrogate: n-Nonane	95.4 %	50-200		08/21/24	08/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2434050	
Chloride	90.4	20.0	1	08/21/24	08/21/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 19031-0001 Project Manager: Chance Dixon	Reported: 8/27/2024 7:55:12AM
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WES24-15 0-4'
E408175-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Benzene	ND	0.0250	1	08/21/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/21/24	08/22/24	
Toluene	ND	0.0250	1	08/21/24	08/22/24	
o-Xylene	ND	0.0250	1	08/21/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/21/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/21/24	08/22/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.8 %	70-130		08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/22/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.1 %	70-130		08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434049	
Diesel Range Organics (C10-C28)	115	25.0	1	08/21/24	08/23/24	
Oil Range Organics (C28-C36)	50.0	50.0	1	08/21/24	08/23/24	
<i>Surrogate: n-Nonane</i>						
	87.8 %	50-200		08/21/24	08/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2434050	
Chloride	66.3	20.0	1	08/21/24	08/21/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 19031-0001
Project Manager: Chance Dixon

Reported:
8/27/2024 7:55:12AM

WES24-16 0-4'

E408175-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2434046
Benzene	ND	0.0250	1	08/21/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/21/24	08/22/24	
Toluene	ND	0.0250	1	08/21/24	08/22/24	
o-Xylene	ND	0.0250	1	08/21/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/21/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/21/24	08/22/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.0 %	70-130		08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2434046
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/22/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.4 %	70-130		08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434049
Diesel Range Organics (C10-C28)	128	25.0	1	08/21/24	08/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/21/24	08/23/24	
<i>Surrogate: n-Nonane</i>						
	90.8 %	50-200		08/21/24	08/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2434050
Chloride	52.1	20.0	1	08/21/24	08/21/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 19031-0001 Project Manager: Chance Dixon	Reported: 8/27/2024 7:55:12AM
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WES24-04 0-4'
E408175-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Benzene	ND	0.0250	1	08/21/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/21/24	08/22/24	
Toluene	ND	0.0250	1	08/21/24	08/22/24	
o-Xylene	ND	0.0250	1	08/21/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/21/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/21/24	08/22/24	
Surrogate: 4-Bromochlorobenzene-PID	89.4 %	70-130		08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.0 %	70-130		08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434049	
Diesel Range Organics (C10-C28)	26.4	25.0	1	08/21/24	08/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/21/24	08/24/24	
Surrogate: n-Nonane	103 %	50-200		08/21/24	08/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2434050	
Chloride	ND	20.0	1	08/21/24	08/21/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 19031-0001 Project Manager: Chance Dixon	Reported: 8/27/2024 7:55:12AM
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WES24-05 4-8'
E408175-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Benzene	ND	0.0250	1	08/21/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/21/24	08/22/24	
Toluene	ND	0.0250	1	08/21/24	08/22/24	
o-Xylene	0.0393	0.0250	1	08/21/24	08/22/24	
p,m-Xylene	0.0790	0.0500	1	08/21/24	08/22/24	
Total Xylenes	0.118	0.0250	1	08/21/24	08/22/24	
Surrogate: 4-Bromochlorobenzene-PID	89.6 %	70-130		08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	102 %	70-130		08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434049	
Diesel Range Organics (C10-C28)	329	25.0	1	08/21/24	08/23/24	
Oil Range Organics (C28-C36)	55.1	50.0	1	08/21/24	08/23/24	
Surrogate: n-Nonane	78.2 %	50-200		08/21/24	08/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2434050	
Chloride	ND	20.0	1	08/21/24	08/21/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 19031-0001 Project Manager: Chance Dixon	Reported: 8/27/2024 7:55:12AM
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WES24-06 4-8'
E408175-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Benzene	ND	0.0250	1	08/21/24	08/23/24	
Ethylbenzene	0.0313	0.0250	1	08/21/24	08/23/24	
Toluene	ND	0.0250	1	08/21/24	08/23/24	
o-Xylene	0.0709	0.0250	1	08/21/24	08/23/24	
p,m-Xylene	0.188	0.0500	1	08/21/24	08/23/24	
Total Xylenes	0.259	0.0250	1	08/21/24	08/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.9 %	70-130		08/21/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	103 %	70-130		08/21/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434049	
Diesel Range Organics (C10-C28)	832	25.0	1	08/21/24	08/23/24	
Oil Range Organics (C28-C36)	103	50.0	1	08/21/24	08/23/24	
<i>Surrogate: n-Nonane</i>						
	87.1 %	50-200		08/21/24	08/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2434050	
Chloride	51.7	40.0	2	08/21/24	08/21/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 19031-0001 Project Manager: Chance Dixon	Reported: 8/27/2024 7:55:12AM
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WES24-07 4-6'
E408175-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Benzene	ND	0.0250	1	08/21/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/21/24	08/23/24	
Toluene	ND	0.0250	1	08/21/24	08/23/24	
o-Xylene	ND	0.0250	1	08/21/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/21/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/21/24	08/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.9 %	70-130		08/21/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.2 %	70-130		08/21/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434049	
Diesel Range Organics (C10-C28)	113	25.0	1	08/21/24	08/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/21/24	08/23/24	
<i>Surrogate: n-Nonane</i>						
	88.0 %	50-200		08/21/24	08/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2434050	
Chloride	ND	20.0	1	08/21/24	08/22/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 19031-0001 Project Manager: Chance Dixon	Reported: 8/27/2024 7:55:12AM
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WES24-08 0-4'
E408175-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Benzene	ND	0.0250	1	08/21/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/21/24	08/23/24	
Toluene	ND	0.0250	1	08/21/24	08/23/24	
o-Xylene	ND	0.0250	1	08/21/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/21/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/21/24	08/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.5 %	70-130		08/21/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.3 %	70-130		08/21/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434049	
Diesel Range Organics (C10-C28)	51.3	25.0	1	08/21/24	08/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/21/24	08/23/24	
<i>Surrogate: n-Nonane</i>						
	87.4 %	50-200		08/21/24	08/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2434050	
Chloride	62.0	20.0	1	08/21/24	08/22/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 19031-0001 Project Manager: Chance Dixon	Reported: 8/27/2024 7:55:12AM
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WES24-09 0-4'
E408175-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Benzene	ND	0.0250	1	08/21/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/21/24	08/23/24	
Toluene	ND	0.0250	1	08/21/24	08/23/24	
o-Xylene	ND	0.0250	1	08/21/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/21/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/21/24	08/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.4 %	70-130		08/21/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.5 %	70-130		08/21/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434049	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/21/24	08/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/21/24	08/23/24	
<i>Surrogate: n-Nonane</i>						
	89.3 %	50-200		08/21/24	08/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2434050	
Chloride	50.3	20.0	1	08/21/24	08/22/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 19031-0001 Project Manager: Chance Dixon	Reported: 8/27/2024 7:55:12AM
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WES24-10 0-4'
E408175-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Benzene	ND	0.0250	1	08/21/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/21/24	08/23/24	
Toluene	ND	0.0250	1	08/21/24	08/23/24	
o-Xylene	ND	0.0250	1	08/21/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/21/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/21/24	08/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.4 %	70-130		08/21/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.9 %	70-130		08/21/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434049	
Diesel Range Organics (C10-C28)	63.9	25.0	1	08/21/24	08/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/21/24	08/23/24	
<i>Surrogate: n-Nonane</i>						
	89.7 %	50-200		08/21/24	08/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2434050	
Chloride	95.4	20.0	1	08/21/24	08/22/24	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 19031-0001 Project Manager: Chance Dixon	Reported: 8/27/2024 7:55:12AM
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BES24-10 4.0'
E408175-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2434044	
Benzene	ND	0.0250	1	08/21/24	08/21/24	
Ethylbenzene	ND	0.0250	1	08/21/24	08/21/24	
Toluene	ND	0.0250	1	08/21/24	08/21/24	
o-Xylene	ND	0.0250	1	08/21/24	08/21/24	
p,m-Xylene	ND	0.0500	1	08/21/24	08/21/24	
Total Xylenes	ND	0.0250	1	08/21/24	08/21/24	
Surrogate: 4-Bromochlorobenzene-PID	89.5 %	70-130		08/21/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2434044	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.6 %	70-130		08/21/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434048	
Diesel Range Organics (C10-C28)	799	25.0	1	08/21/24	08/22/24	
Oil Range Organics (C28-C36)	157	50.0	1	08/21/24	08/22/24	
Surrogate: n-Nonane	96.7 %	50-200		08/21/24	08/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2434045	
Chloride	55.3	20.0	1	08/21/24	08/21/24	



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 19031-0001 Project Manager: Chance Dixon	Reported: 8/27/2024 7:55:12AM
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Volatile Organics by EPA 8021B

Analyst: CG

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 (2434044-BLK1)

Prepared: 08/21/24 Analyzed: 08/21/24

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	7.10		8.00		88.7	70-130			

LCS (2434044-BS1)

Prepared: 08/21/24 Analyzed: 08/21/24

Benzene	4.64	0.0250	5.00		92.7	70-130			
Ethylbenzene	4.50	0.0250	5.00		90.0	70-130			
Toluene	4.58	0.0250	5.00		91.7	70-130			
o-Xylene	4.48	0.0250	5.00		89.5	70-130			
p,m-Xylene	9.15	0.0500	10.0		91.5	70-130			
Total Xylenes	13.6	0.0250	15.0		90.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.26		8.00		90.8	70-130			

Matrix Spike (2434044-MS1)

Source: E408176-02

Prepared: 08/21/24 Analyzed: 08/21/24

Benzene	4.71	0.0250	5.00	ND	94.3	54-133			
Ethylbenzene	4.56	0.0250	5.00	ND	91.1	61-133			
Toluene	4.65	0.0250	5.00	ND	92.9	61-130			
o-Xylene	4.54	0.0250	5.00	ND	90.8	63-131			
p,m-Xylene	9.27	0.0500	10.0	ND	92.7	63-131			
Total Xylenes	13.8	0.0250	15.0	ND	92.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.16		8.00		89.5	70-130			

Matrix Spike Dup (2434044-MSD1)

Source: E408176-02

Prepared: 08/21/24 Analyzed: 08/21/24

Benzene	4.95	0.0250	5.00	ND	99.0	54-133	4.92	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.6	61-133	4.83	20	
Toluene	4.88	0.0250	5.00	ND	97.6	61-130	4.92	20	
o-Xylene	4.75	0.0250	5.00	ND	95.0	63-131	4.57	20	
p,m-Xylene	9.72	0.0500	10.0	ND	97.2	63-131	4.81	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.5	63-131	4.73	20	
Surrogate: 4-Bromochlorobenzene-PID	7.12		8.00		89.0	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 19031-0001 Project Manager: Chance Dixon	Reported: 8/27/2024 7:55:12AM
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Volatile Organics by EPA 8021B

Analyst: CG

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 (2434046-BLK1)

Prepared: 08/21/24 Analyzed: 08/22/24

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	7.23		8.00		90.4	70-130			

LCS (2434046-BS1)

Prepared: 08/21/24 Analyzed: 08/22/24

Benzene	4.31	0.0250	5.00		86.2	70-130			
Ethylbenzene	4.15	0.0250	5.00		82.9	70-130			
Toluene	4.24	0.0250	5.00		84.9	70-130			
o-Xylene	4.13	0.0250	5.00		82.6	70-130			
p,m-Xylene	8.44	0.0500	10.0		84.4	70-130			
Total Xylenes	12.6	0.0250	15.0		83.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.32		8.00		91.5	70-130			

Matrix Spike (2434046-MS1)

Source: E408175-05

Prepared: 08/21/24 Analyzed: 08/22/24

Benzene	4.98	0.0250	5.00	ND	99.5	54-133			
Ethylbenzene	4.83	0.0250	5.00	0.0307	96.0	61-133			
Toluene	4.92	0.0250	5.00	ND	98.4	61-130			
o-Xylene	4.94	0.0250	5.00	0.0780	97.2	63-131			
p,m-Xylene	9.98	0.0500	10.0	0.161	98.2	63-131			
Total Xylenes	14.9	0.0250	15.0	0.239	97.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.23		8.00		90.4	70-130			

Matrix Spike Dup (2434046-MSD1)

Source: E408175-05

Prepared: 08/21/24 Analyzed: 08/22/24

Benzene	5.02	0.0250	5.00	ND	100	54-133	0.905	20	
Ethylbenzene	4.88	0.0250	5.00	0.0307	97.0	61-133	1.02	20	
Toluene	4.96	0.0250	5.00	ND	99.2	61-130	0.810	20	
o-Xylene	4.99	0.0250	5.00	0.0780	98.3	63-131	1.17	20	
p,m-Xylene	10.0	0.0500	10.0	0.161	98.8	63-131	0.614	20	
Total Xylenes	15.0	0.0250	15.0	0.239	98.7	63-131	0.798	20	
Surrogate: 4-Bromochlorobenzene-PID	7.33		8.00		91.7	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 19031-0001 Project Manager: Chance Dixon	Reported: 8/27/2024 7:55:12AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

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 (2434044-BLK1) Prepared: 08/21/24 Analyzed: 08/21/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.8	70-130			

LCS (2434044-BS2) Prepared: 08/21/24 Analyzed: 08/21/24

Gasoline Range Organics (C6-C10)	40.1	20.0	50.0		80.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		8.00		97.4	70-130			

Matrix Spike (2434044-MS2) Source: E408176-02 Prepared: 08/21/24 Analyzed: 08/21/24

Gasoline Range Organics (C6-C10)	39.2	20.0	50.0	ND	78.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		97.0	70-130			

Matrix Spike Dup (2434044-MSD2) Source: E408176-02 Prepared: 08/21/24 Analyzed: 08/21/24

Gasoline Range Organics (C6-C10)	38.8	20.0	50.0	ND	77.6	70-130	1.10	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.6	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 19031-0001 Project Manager: Chance Dixon	Reported: 8/27/2024 7:55:12AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

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

Blank (2434046-BLK1) Prepared: 08/21/24 Analyzed: 08/22/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130			

LCS (2434046-BS2) Prepared: 08/21/24 Analyzed: 08/22/24

Gasoline Range Organics (C6-C10)	35.5	20.0	50.0		71.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			

Matrix Spike (2434046-MS2) Source: E408175-05 Prepared: 08/21/24 Analyzed: 08/22/24

Gasoline Range Organics (C6-C10)	50.8	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.22		8.00		103	70-130			

Matrix Spike Dup (2434046-MSD2) Source: E408175-05 Prepared: 08/21/24 Analyzed: 08/22/24

Gasoline Range Organics (C6-C10)	56.6	20.0	50.0	ND	113	70-130	10.8	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.36		8.00		104	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 19031-0001 Project Manager: Chance Dixon	Reported: 8/27/2024 7:55:12AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

Blank (2434048-BLK1)					Prepared: 08/21/24 Analyzed: 08/22/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.5		50.0		96.9	50-200			

LCS (2434048-BS1)					Prepared: 08/21/24 Analyzed: 08/22/24				
Diesel Range Organics (C10-C28)	222	25.0	250		88.8	38-132			
Surrogate: n-Nonane	45.4		50.0		90.8	50-200			

Matrix Spike (2434048-MS1)					Source: E408175-21		Prepared: 08/21/24 Analyzed: 08/22/24		
Diesel Range Organics (C10-C28)	1070	25.0	250	799	109	38-132			
Surrogate: n-Nonane	48.0		50.0		96.0	50-200			

Matrix Spike Dup (2434048-MSD1)					Source: E408175-21		Prepared: 08/21/24 Analyzed: 08/22/24		
Diesel Range Organics (C10-C28)	1020	25.0	250	799	86.6	38-132	5.47	20	
Surrogate: n-Nonane	50.0		50.0		100	50-200			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 19031-0001 Project Manager: Chance Dixon	Reported: 8/27/2024 7:55:12AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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 (2434049-BLK1)					Prepared: 08/21/24 Analyzed: 08/22/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.1		50.0		90.3	50-200			

LCS (2434049-BS1)					Prepared: 08/21/24 Analyzed: 08/22/24				
Diesel Range Organics (C10-C28)	231	25.0	250		92.5	38-132			
Surrogate: n-Nonane	46.8		50.0		93.6	50-200			

Matrix Spike (2434049-MS1)					Source: E408175-02		Prepared: 08/21/24 Analyzed: 08/22/24		
Diesel Range Organics (C10-C28)	2060	25.0	250	1570	198	38-132			M4
Surrogate: n-Nonane	48.3		50.0		96.6	50-200			

Matrix Spike Dup (2434049-MSD1)					Source: E408175-02		Prepared: 08/21/24 Analyzed: 08/22/24		
Diesel Range Organics (C10-C28)	1930	25.0	250	1570	144	38-132	6.75	20	M4
Surrogate: n-Nonane	46.9		50.0		93.8	50-200			



QC Summary Data

Vertex Resource Services Inc.	Project Name:	Jackson Unit #003	Reported:
3101 Boyd Drive	Project Number:	19031-0001	
Carlsbad NM, 88220	Project Manager:	Chance Dixon	8/27/2024 7:55:12AM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2434045-BLK1)					Prepared: 08/21/24 Analyzed: 08/21/24				
Chloride	ND	20.0							
LCS (2434045-BS1)					Prepared: 08/21/24 Analyzed: 08/21/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2434045-MS1)					Source: E408176-01		Prepared: 08/21/24 Analyzed: 08/21/24		
Chloride	384	200	250	ND	154	80-120			M5
Matrix Spike Dup (2434045-MSD1)					Source: E408176-01		Prepared: 08/21/24 Analyzed: 08/21/24		
Chloride	404	200	250	ND	161	80-120	4.86	20	M5



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 19031-0001 Project Manager: Chance Dixon	Reported: 8/27/2024 7:55:12AM
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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 (2434050-BLK1)					Prepared: 08/21/24 Analyzed: 08/21/24				
Chloride	ND	20.0							
LCS (2434050-BS1)					Prepared: 08/21/24 Analyzed: 08/21/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2434050-MS1)					Source: E408175-05		Prepared: 08/21/24 Analyzed: 08/21/24		
Chloride	267	40.0	250	ND	107	80-120			
Matrix Spike Dup (2434050-MSD1)					Source: E408175-05		Prepared: 08/21/24 Analyzed: 08/21/24		
Chloride	263	40.0	250	ND	105	80-120	1.52	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.	Project Name:	Jackson Unit #003	
3101 Boyd Drive	Project Number:	19031-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Chance Dixon	08/27/24 07:55

- 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.
- M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated 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.



Chain of Custody

Page 1 of 3

Client Information				Invoice Information		Lab Use Only		TAT				State			
Client: <u>Vertex</u>				Company: <u>Tap Rock (Bill Ramsey)</u>		Lab WO# <u>E408175</u> Job Number <u>19031-0001</u>		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: <u>Jackson Unit #003</u>				Address:								<input checked="" type="checkbox"/>			
Project Manager: <u>Chance Dixon</u>				City, State, Zip:											
Address: <u>3101 Boyd Dr.</u>				Phone:											
City, State, Zip: <u>Carlsbad, NM, 88220</u>				Email:											
Phone: <u>575.725.5001</u>				Miscellaneous: <u>Direct bill to Tap Rock ATTN: Bill Ramsey</u>											
Email:															

Sample Information							Analysis and Method								EPA Program			Remarks	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO 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	Y	or		N
															PWSID #				
1532	8.19.24	Soil	1	WES24-11	0-4"	1	X	X	X		X								
1535				BES24-01	4.0'	2													
1538				BES24-02	4.0'	3													
1540				BES24-03	4.0'	4													
1542				BES24-04	8.0'	5													
1545				BES24-05	6.0'	6													
1548				BES24-06	4.0'	7													
1550				BES24-07	4.0'	8													
1552				BES24-08	4.0'	9													
1555	↓	↓	↓	BES24-09	4.0'	10	↓	↓	↓		↓								

Additional Instructions: Direct bill to Tap Rock ATTN: Bill Ramsey, Please Email: cdixon@vertexresource.com
cc: ALudvik@vertexresource.com Permian@vertexresources.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: Andrew Ludvik

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>8.20.24</u> Time <u>0920</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>8-20-24</u> Time <u>0920</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 5C on subsequent days. Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>8-20-24</u> Time <u>1620</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>8-20-24</u> Time <u>1638</u>	
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>8-20-24</u> Time <u>2320</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>8-21-24</u> Time <u>0500</u>	
Relinquished by: (Signature) _____	Date _____ Time _____	Received by: (Signature) _____	Date _____ 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.



envirotech

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Envirotech Analytical Laboratory

Printed: 8/21/2024 9:26:20AM

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:	08/21/24 05:00	Work Order ID:	E408175
Phone:	(575) 748-0176	Date Logged In:	08/20/24 15:54	Logged In By:	Raina Schwanz
Email:	cdixon@vertex.ca	Due Date:	08/27/24 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

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

Carrier: CourierComments/ResolutionSample 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? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

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

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

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? No

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: Courier

Client Instruction

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 #003

Work Order: E409013

Job Number: 24015-0001

Received: 9/5/2024

Revision: 0

Report Reviewed By:

Draft

Walter Hinchman
Laboratory Director
9/5/24

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: 9/5/24

Chance Dixon
3101 Boyd Drive
Carlsbad, NM 88220



Project Name: Jackson Unit #003
Workorder: E409013
Date Received: 9/5/2024 6:00:00AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/5/2024 6:00:00AM, under the Project Name: Jackson Unit #003.

The analytical test results summarized in this report with the Project Name: Jackson Unit #003 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

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Sample Summary

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-0001 Project Manager: Chance Dixon	Reported: 09/05/24 16:13
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BES24-01 5'	E409013-01A	Soil	09/04/24	09/05/24	Glass Jar, 2 oz.
WES24-21 0'-4'	E409013-02A	Soil	09/04/24	09/05/24	Glass Jar, 2 oz.
WES24-22 0'-5'	E409013-03A	Soil	09/04/24	09/05/24	Glass Jar, 2 oz.
WES24-23 0'-5'	E409013-04A	Soil	09/04/24	09/05/24	Glass Jar, 2 oz.



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-0001 Project Manager: Chance Dixon	Reported: 9/5/2024 4:13:03PM
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BES24-01 5'
E409013-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2436038	
Benzene	ND	0.0250	1	09/05/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/05/24	09/05/24	
Toluene	ND	0.0250	1	09/05/24	09/05/24	
o-Xylene	ND	0.0250	1	09/05/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/05/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/05/24	09/05/24	
Surrogate: 4-Bromochlorobenzene-PID	105 %	70-130		09/05/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2436038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/05/24	09/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.3 %	70-130		09/05/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2436036	
Diesel Range Organics (C10-C28)	313	25.0	1	09/05/24	09/05/24	
Oil Range Organics (C28-C36)	68.0	50.0	1	09/05/24	09/05/24	
Surrogate: n-Nonane	70.4 %	50-200		09/05/24	09/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2436037	
Chloride	ND	20.0	1	09/05/24	09/05/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-0001
Project Manager: Chance Dixon

Reported:
9/5/2024 4:13:03PM

WES24-21 0'-4'

E409013-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2436038	
Benzene	ND	0.0250	1	09/05/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/05/24	09/05/24	
Toluene	ND	0.0250	1	09/05/24	09/05/24	
o-Xylene	ND	0.0250	1	09/05/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/05/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/05/24	09/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	09/05/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2436038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/05/24	09/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.9 %	70-130	09/05/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2436036	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/05/24	09/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/05/24	09/05/24	
<i>Surrogate: n-Nonane</i>		70.8 %	50-200	09/05/24	09/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2436037	
Chloride	52.2	20.0	1	09/05/24	09/05/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-0001
Project Manager: Chance Dixon

Reported:
9/5/2024 4:13:03PM

WES24-22 0'-5'

E409013-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2436038	
Benzene	ND	0.0250	1	09/05/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/05/24	09/05/24	
Toluene	ND	0.0250	1	09/05/24	09/05/24	
o-Xylene	ND	0.0250	1	09/05/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/05/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/05/24	09/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	09/05/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2436038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/05/24	09/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.2 %	70-130	09/05/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2436036	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/05/24	09/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/05/24	09/05/24	
<i>Surrogate: n-Nonane</i>		70.7 %	50-200	09/05/24	09/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2436037	
Chloride	34.6	20.0	1	09/05/24	09/05/24	



Sample Data

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad NM, 88220

Project Name: Jackson Unit #003
Project Number: 24015-0001
Project Manager: Chance Dixon

Reported:
9/5/2024 4:13:03PM

WES24-23 0'-5'

E409013-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436038
Benzene	ND	0.0250	1	09/05/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/05/24	09/05/24	
Toluene	ND	0.0250	1	09/05/24	09/05/24	
o-Xylene	ND	0.0250	1	09/05/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/05/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/05/24	09/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	09/05/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/05/24	09/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.9 %	70-130	09/05/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2436036
Diesel Range Organics (C10-C28)	ND	25.0	1	09/05/24	09/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/05/24	09/05/24	
<i>Surrogate: n-Nonane</i>						
		86.1 %	50-200	09/05/24	09/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2436037
Chloride	129	20.0	1	09/05/24	09/05/24	



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #003 Project Number: 24015-0001 Project Manager: Chance Dixon	Reported: 9/5/2024 4:13:03PM
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Anions by EPA 300.0/9056A

Analyst: WF

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 (2436037-BLK1)					Prepared: 09/05/24 Analyzed: 09/05/24				
Chloride	ND	20.0							
LCS (2436037-BS1)					Prepared: 09/05/24 Analyzed: 09/05/24				
Chloride	250	20.0	250		99.9	90-110			
Matrix Spike (2436037-MS1)					Source: E409013-04		Prepared: 09/05/24 Analyzed: 09/05/24		
Chloride	386	20.0	250	129	103	80-120			
Matrix Spike Dup (2436037-MSD1)					Source: E409013-04		Prepared: 09/05/24 Analyzed: 09/05/24		
Chloride	382	20.0	250	129	101	80-120	0.980	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.	Project Name:	Jackson Unit #003	
3101 Boyd Drive	Project Number:	24015-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Chance Dixon	09/05/24 16:13

- 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.





envirotech

Envirotech Analytical Laboratory

Printed: 9/5/2024 8:01:28AM

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:	09/05/24 06:00	Work Order ID:	E409013
Phone:	(575) 748-0176	Date Logged In:	09/04/24 17:07	Logged In By:	Noe Soto
Email:	cdixon@vertex.ca	Due Date:	09/05/24 17:00 (0 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

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

Carrier: CourierComments/ResolutionSample 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? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

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

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

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

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

Date



envirotech Inc.

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

General Information
Phone: (505) 629-6116

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

QUESTIONS

Action 485182

QUESTIONS

Operator: TAP ROCK OPERATING, LLC 1700 Lincoln St Denver, CO 80203	OGRID: 372043
	Action Number: 485182
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nSAP0215477198
Incident Name	NSAP0215477198 JACKSON UNIT #003 @ 30-025-33238
Incident Type	Oil Release
Incident Status	Reclamation Report Received
Incident Well	[30-025-33238] JACKSON UNIT #003

Location of Release Source

Please answer all the questions in this group.

Site Name	Jackson Unit #003
Date Release Discovered	06/03/2002
Surface Owner	State

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Equipment Failure Crude Oil Released: 200 BBL Recovered: 0 BBL Lost: 200 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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 485182

QUESTIONS (continued)

Operator: TAP ROCK OPERATING, LLC 1700 Lincoln St Denver, CO 80203	OGRID: 372043
	Action Number: 485182
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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 Email: cdixon@vertex.ca Date: 09/03/2024
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QUESTIONS, Page 3

Action 485182

QUESTIONS (continued)

Operator: TAP ROCK OPERATING, LLC 1700 Lincoln St Denver, CO 80203	OGRID: 372043
	Action Number: 485182
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
<i>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.</i>	
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	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (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	No

Remediation Plan	
<i>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.</i>	
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)	404
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	3262.8
GRO+DRO (EPA SW-846 Method 8015M)	2931.8
BTEX (EPA SW-846 Method 8021B or 8260B)	17.9
Benzene (EPA SW-846 Method 8021B or 8260B)	1.2
<i>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>	
On what estimated date will the remediation commence	08/16/2024
On what date will (or did) the final sampling or liner inspection occur	08/16/2024
On what date will (or was) the remediation complete(d)	09/04/2024
What is the estimated surface area (in square feet) that will be reclaimed	1100
What is the estimated volume (in cubic yards) that will be reclaimed	360
What is the estimated surface area (in square feet) that will be remediated	1100
What is the estimated volume (in cubic yards) that will be remediated	360
<i>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.</i>	
<i>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.</i>	

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QUESTIONS, Page 4

Action 485182

QUESTIONS (continued)

Operator: TAP ROCK OPERATING, LLC 1700 Lincoln St Denver, CO 80203	OGRID: 372043
	Action Number: 485182
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(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	LEA LAND LANDFILL [fEEM0112342028]
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	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>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>	
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 Email: cdixon@vertex.ca Date: 09/03/2024
<i>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.</i>	

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QUESTIONS, Page 5

Action 485182

QUESTIONS (continued)

Operator: TAP ROCK OPERATING, LLC 1700 Lincoln St Denver, CO 80203	OGRID: 372043
	Action Number: 485182
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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QUESTIONS, Page 6

Action 485182

QUESTIONS (continued)

Operator: TAP ROCK OPERATING, LLC 1700 Lincoln St Denver, CO 80203	OGRID: 372043
	Action Number: 485182
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	379792
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/04/2024
What was the (estimated) number of samples that were to be gathered	4
What was the sampling surface area in square feet	800

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1987
What was the total volume (cubic yards) remediated	331
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	1987
What was the total volume (in cubic yards) reclaimed	331
Summarize any additional remediation activities not included by answers (above)	Site was remediated to reclamation standards with the top four feet containing clean uncontaminated material. Everything below four feet met >100 DTGW standards.

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

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

I hereby agree and sign off to the above statement	Name: Chance Dixon Title: Project Manager Email: cdixon@vertex.ca Date: 09/20/2024
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QUESTIONS, Page 7

Action 485182

QUESTIONS (continued)

Operator: TAP ROCK OPERATING, LLC 1700 Lincoln St Denver, CO 80203	OGRID: 372043
	Action Number: 485182
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	1987
What was the total volume of replacement material (in cubic yards) for this site	331
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of 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. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	05/19/2025
Summarize any additional reclamation activities not included by answers (above)	Reclamation of the release and entire location of the Jackson Unit #003 have been approved by the landowner (New Mexico State Land Office) and can be provided upon request. Conditions of approval in the Remediation Closure Approval on September 26, 2024 stated that a landowner-approved reclamation and revegetation report will be required before a revegetation report can be approved. The site will be monitored and a revegetation report along with the landowner-approved copy will be submitted to NMOCD when the site reaches 70% coverage and 50% life form ratio of pre-disturbance levels.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeded plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Chance Dixon Title: Project Manager Email: cdixon@vertex.ca Date: 07/15/2025

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 8

Action 485182

QUESTIONS (continued)

Operator: TAP ROCK OPERATING, LLC 1700 Lincoln St Denver, CO 80203	OGRID: 372043
	Action Number: 485182
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 485182

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
nvez	None	8/12/2025