Incident Number: NAPP2307633795



Incident Closure

Shahara Unit State #008 Inj.

Section 16, Township 17 South, Range 33 East 32.8289002, -103.6706601

County: Lea

Vertex File Number: 24E-04470

Prepared for:

J & J Investments, Inc

Prepared by:

Vertex Resource Services Inc.

Date:

January 23, 2025

1 & 1	Inve	estmo	ents, li	nc		
Shah	ara	Unit	State	#8	Inj.	Line

Incident Closure January 2025

Prepared for:

J & J Investments, Inc PO Box 39 Loco Hills, NM 88255-0039

New Mexico Oil Conservation Division

1625 N. French Drive Hobbs, New Mexico 88240

Prepared by:

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad, New Mexico 88220

Andrew Parker, MGIS Senior Project Manager January 23, 2025

Date

ii VERSATILITY. EXPERTISE.

J & J Investments, Inc Shahara Unit State #8 Inj. Line Incident Closure January 2025

1	Table of Contents	
1	Introduction	1
2	Remedial Actions Taken	1
3	Variance Approval	2
4	Reclamation Activities	2
5	Closure Request	3
	Limitations	

J & J Investments, Inc

Shahara Unit State #8 Inj. Line

Incident Closure January 2025

List of Figures

Figure 1. Remediation excavation extent

Figure 2. Base sample grid square footages

Figure 3. Confirmation sample locations

List of Tables

Table 1. Summary of Analytical Results

List of Appendices

Appendix A. Variance Approvals

Appendix B. Daily Field and Sampling Report(s)

Appendix C. Notification(s)

Appendix D. Laboratory Data Report(s) and Chain of Custody Form(s)

iv VERSATILITY. EXPERTISE.

J & J Investments, Inc Shahara Unit State #8 Inj. Line Incident Closure January 2025

1 Introduction

J & J Investments, Inc (J & J Investments) retained Vertex Resource Services Inc. (Vertex) to conduct an Incident Closure for a produced water release that occurred on March 6, 2023, at Shahara Unit State #8 Inj. Line (hereafter referred to as the "Site"). J & J Investments submitted an initial C-141 Release Notification to New Mexico Oil Conservation Division (NMOCD) District 1 on March 15, 2023. Incident ID number NAPP2307633795 was assigned to this incident.

This report provides a description of remediation 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) and the approved variance (Appendix A) have been met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NMOCD for closure of this release, with the understanding that restoration of the release site will be completed following remediation activities as per NMAC 19.15.29.13.

2 Remedial Actions Taken

Remediation efforts began on October 8, 2024 and were finalized on December 18, 2024. Vertex personnel supervised the excavation of impacted soils. Field screening for chlorides and TPH was completed to identify areas requiring additional excavation of impacted soils. Relevant Daily Field Reports (DFRs) documenting various phases of the remediation are presented in Appendix B.

Impacted soils were removed to a depth of 2 to 4. 2 feet bgs. 1,530 cubic yards of impacted soil was transported by a licensed waste hauler and disposed of at Lea Land, LLC waste management facility.

Notification that confirmatory samples were being collected was provided to the NMOCD and notice confirmations are included in Appendix C. Confirmatory composite samples were collected from the base and walls of the excavation to not exceed 300 square foot increments per approved variance as presented in the remediation plan. Each sample location is a 5-point composite within the designated grid.

A total of 68 samples, including 2 backfill samples, were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Cardinal Laboratories under chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA SM4500CL-B). A Summary of Laboratory results are presented in Table 1, and the laboratory data reports are included in Appendix D. All confirmatory samples collected and analyzed were either below closure criteria or meet closure criteria per approved variance as discussed in Section 3.

- Figure 1 shows remediation excavation extent
- Figure 2 shows base sample grid square footages
- Figure 3 shows confirmation sample locations

Wall sample WS-04 from 0 to 2 ft exceeded closure criteria relative to chloride. Field testing for chloride indicated the impacted soils were along the west walls of base grids BS24-27 and BS24-48. Therefore, the southwest excavation extent in the upper 2-feet was excavated further west. Wall sample WS24-04 was resampled as wall sample WS24-4.1

VERSATILITY, EXPERTISE.

Incident Closure January 2025

from 0 to 2 ft. WS24-4.1 at 2.3 ft represents the base of the excavation that was pushed further west and represents a base depth of 2 to 2.3 feet.

3 Variance Approval

NMOCD approved a variance request on December 19, 2024 to the Closure Criteria concentrations listed in Table 1 of NMAC 19.15.29 and NMAC 19.15.29.13. The variance approval email is included in Appendix A.

4 Reclamation Activities

Following remediation activities, restoration, and reclamation to its current use as a utility right-of-way (ROW) and pasture land took place in accordance with 19.15.29.13 NMAC and per approved SLO-ECO reclamation plan.

The remediated areas were backfilled on January 17, 2025 with 1,600 cu. yrds. clean, non-waste containing earthen material, including a minimum of 1 ft of topsoil suitable for revegetation. The portion along the damaged DCP buried pipeline remains an open excavation to facilitate DCP planned repairs. Backfill material was stockpiled adjacent to the open DCP excavation (Exhibits 1 and 2). DCP is scheduled to repair their line by the end of January 2025. Upon DCP's repair, they will push-in the stockpiled backfill and contour.



Exhibit 1: Photo of backfilled excavation (photo right) viewing southeast from the southwest remediation extent. Stockpiled soil for the DCP pipeline repair is photo left. Date: January 17, 2025.



Exhibit 2: Photo of backfilled excavation (photo left) viewing southeast from the north-central remediation extent edge. Stockpiled soil for the DCP pipeline repair is photo right. The DCP pipeline excavation is at the toe of the stockpiled soil. Date: January 17, 2025.

2 VERSATILITY. EXPERTISE.

J & J Investments, Inc Shahara Unit State #8 Inj. Line Incident Closure January 2025

Final site contouring and seeding will occur late spring 2025 during the next favorable growing season. The remediated area will be seeded with seed mix consistent with SLO Loamy Sites mixture. Seed will be mechanically broadcasted at a rate of 40 PLS per acre and chain-dragged into place. The site will then be monitored for revegetation, soil stability and noxious weeds.

5 Closure Request

Confirmatory samples were analyzed by the laboratory analysis and found to be below allowable concentrations as per the NMAC Closure Criteria for soils impacted by a release where groundwater is greater than 100 feet below ground surface and per approved variance. Based on these findings, J & J Investments, Inc requests that this incident be closed.

Should you have any questions or concerns, please do not hesitate to contact Andrew Parker at 575.689.7007 or aparker@vertexresource.com.

VERSATILITY. EXPERTISE.

J & J Investments, Inc Shahara Unit State #8 Inj. Line Incident Closure January 2025

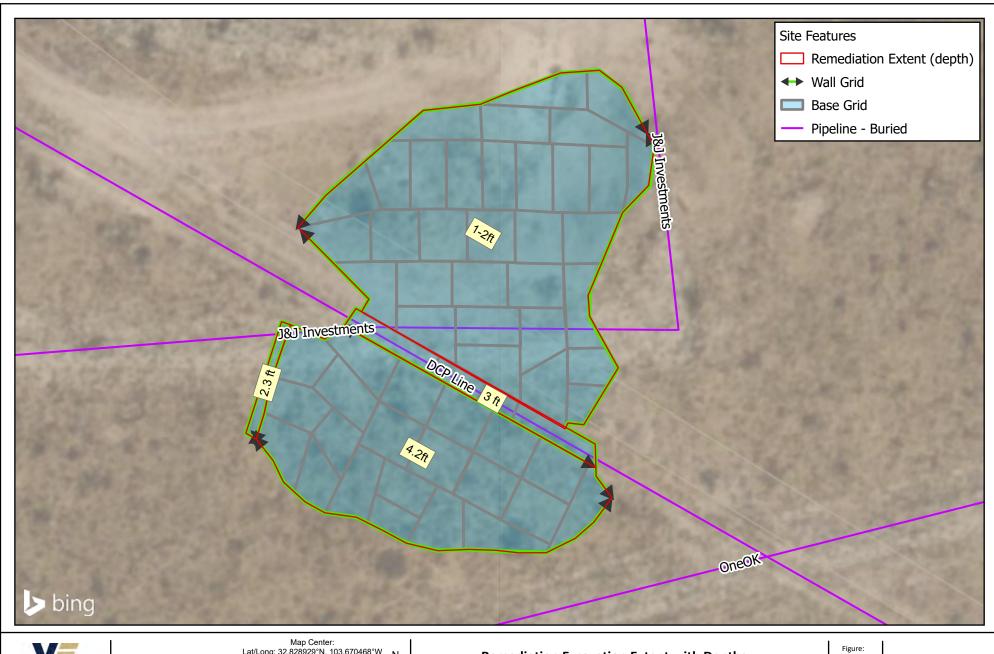
7 Limitations

This report has been prepared for the sole benefit of J & J Investments, Inc. 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 J & J Investments, inc. 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. Conclusions and recommendations presented in this report should not be considered legal advice.

VERSATILITY. EXPERTISE.

FIGURES





Map Center:
Lat/Long: 32.828929"N, 103.670468"W

15 30 ft
Date: Jan 15/25

NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

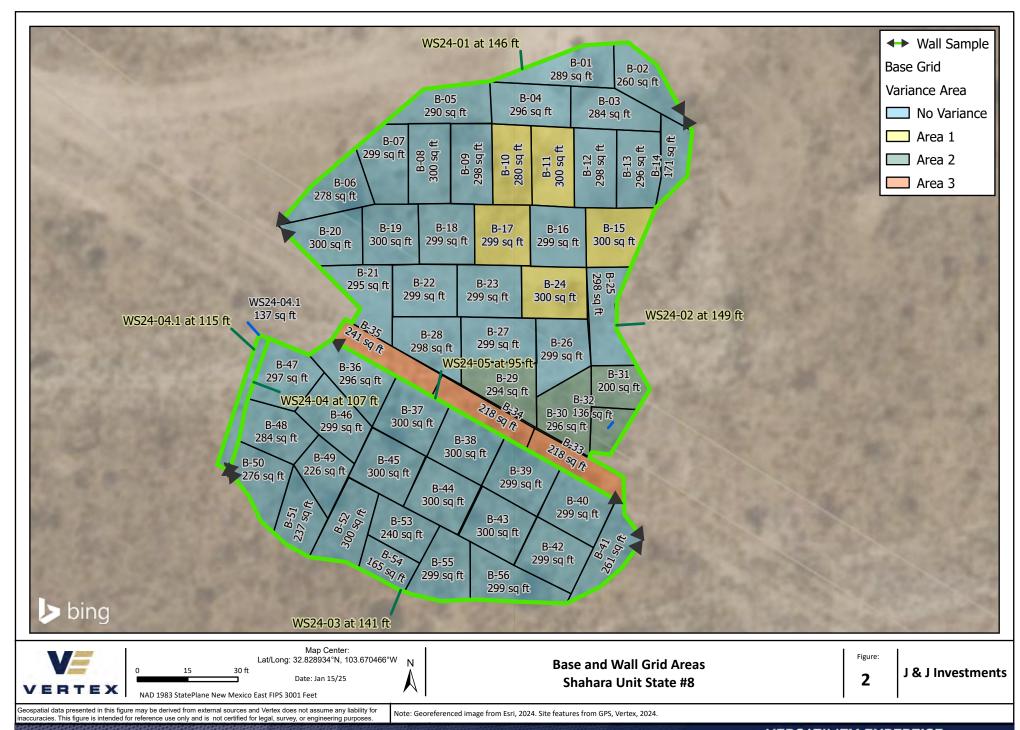
Remediation Excavation Extent with Depths
Shahara Unit State #8

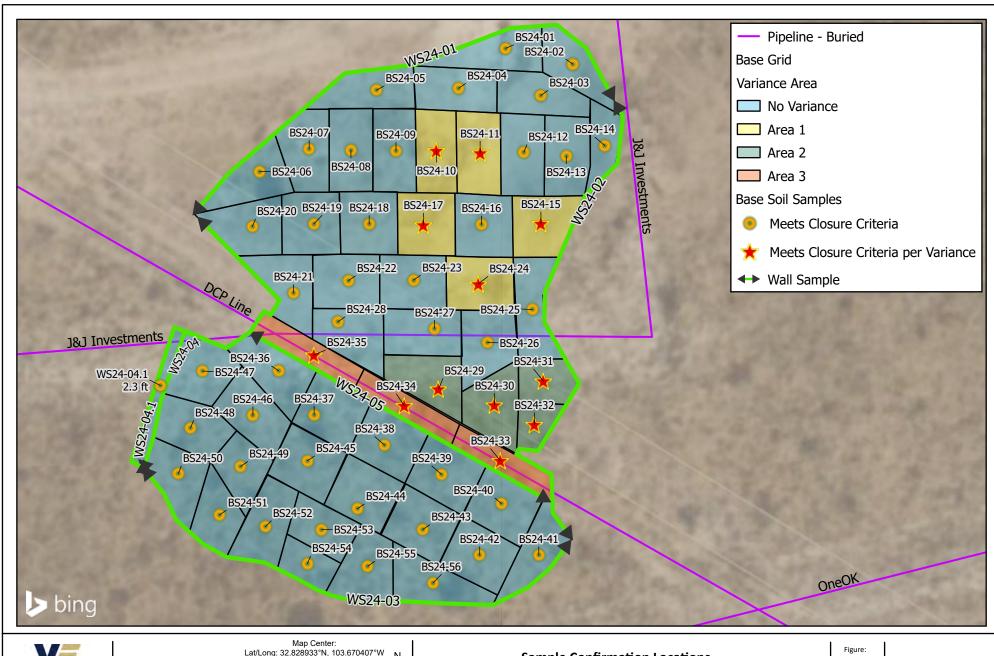
ngure:

J & J Investments

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, 2024. Site features from GPS, Vertex, 2024.





VERTEX

Map Center:
Lat/Long: 32.828933°N, 103.670407°W

Date: Jan 16/25

NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Sample Confirmation Locations
Shahara Unit State #8

3

J & J Investments

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

Note: Georeferenced image from Esri, 2024. Site features from GPS, Vertex, 2024.

TABLES

Client Name: J & J Investments, Inc Site Name: Shahara Unit State #8 Incident ID: NAPP2307633795

Project #: 24E-04470

Lab Report(s): H247442, H247648, H247797

Sample Description Petroleum Hydrocarbons Volatile Gasoline Range Organics Motor Oil Range Organics (GRO) Motor Oil Range Organics (GRO + DRO) (GRO + DRO) (GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	intration sine
Volatile Extractable	roleum rbons (TPH)	
Sample Organics	roleum rbons (TPH)	
Sample ID Depth (ft) Sample Date (mg/kg)	Total Petroleum Mydrocarbons (T	3 A Chloride Concentration
Depth to Groundwater >100'		
BS24 - 01 1' 12/4/2024 ND ND ND ND ND ND ND	ND	96
BS24 - 02 1' 12/4/2024 ND ND ND ND ND ND ND	ND	64
BS24 - 03 1' 12/4/2024 ND ND ND ND ND ND ND	ND	64
BS24 - 04 2' 12/4/2024 ND ND ND ND ND ND ND	ND	80
BS24 - 05 1' 12/4/2024 ND ND ND ND ND ND ND	ND	128
BS24 - 06 1' 12/4/2024 ND ND ND ND ND ND ND	ND	64
BS24 - 07 1' 12/4/2024 ND ND ND ND ND ND ND	ND	32
BS24 - 08 1' 12/4/2024 ND ND ND ND ND ND ND	ND	80
BS24 - 09 1' 12/4/2024 ND ND ND ND ND ND ND	ND	272
BS24 - 10 1' 12/4/2024 ND ND ND ND ND ND	ND	1150
BS24 - 11 1' 12/4/2024 ND ND ND ND ND ND ND	ND	1520
BS24 - 12 1' 12/4/2024 ND ND ND ND ND ND ND	ND	368
BS24 - 13 1' 12/4/2024 ND ND ND ND ND ND ND	ND	528
BS24 - 14 1' 12/4/2024 ND ND ND ND ND ND	ND	144
BS24 - 15 1' 12/4/2024 ND ND ND ND ND ND	ND	768
BS24 - 16 1' 12/4/2024 ND ND ND ND ND ND	ND	496
BS24 - 17 2.5' 12/4/2024 ND ND ND ND ND ND ND	ND	1760
BS24 - 18 1' 12/4/2024 ND ND ND ND ND ND	ND	448
BS24 - 19 1' 12/4/2024 ND ND ND ND ND ND	ND	176
BS24 - 20 1' 12/4/2024 ND ND ND ND ND ND	ND	96
BS24 - 21 2.5' 12/4/2024 ND ND ND ND ND ND	ND	512
BS24 - 22 2' 12/4/2024 ND ND ND ND ND ND	ND	192
BS24 - 23 1' 12/4/2024 ND ND ND ND ND ND	ND	48
BS24 - 24 1' 12/4/2024 ND ND ND ND ND ND ND	ND	960
BS24 - 25 1' 12/4/2024 ND ND ND ND ND ND ND	ND	592
BS24 - 26 1' 12/4/2024 ND ND ND ND ND ND ND	ND	592
BS24 - 27 2' 12/4/2024 ND ND ND ND ND ND	ND	448
BS24 - 28 2' 12/4/2024 ND ND ND ND ND ND	ND	368
BS24 - 29 2' 12/4/2024 ND ND ND ND ND ND	ND	1300
BS24 - 30 2' 12/4/2024 ND ND ND ND ND ND	ND	668
BS24 - 31 2.5' 12/4/2024 ND ND ND ND ND ND	ND	1170
BS24 - 32 2' 12/4/2024 ND ND ND ND ND ND ND	ND	704
BS24 - 33 3' 12/4/2024 ND ND ND ND ND ND	ND	992
BS24 - 34 3' 12/4/2024 ND ND ND ND ND ND ND	ND	4360
BS24 - 35 3' 12/4/2024 ND ND ND ND 12.6 ND	12.6	720
BS24 - 36 4.2' 12/5/2024 ND ND ND ND ND ND	ND	1010
BS24 - 37 4.2' 12/5/2024 ND ND ND ND ND ND ND	ND	288
BS24 - 38 4.2' 12/5/2024 ND ND ND ND ND ND	ND	2000
BS24 - 39 4.2' 12/5/2024 ND ND ND ND ND ND ND	ND	2560
BS24 - 40 4.2' 12/5/2024 ND ND ND ND ND ND	ND	3920
BS24 - 41 4.2' 12/5/2024 ND ND ND ND ND ND ND	ND	2760



Client Name: J & J Investments, Inc Site Name: Shahara Unit State #8 Incident ID: NAPP2307633795

Project #: 24E-04470

Lab Report(s): H247442, H247648, H247797

Table 1. Summary of Confirmation Samples										
Sample Description			Petroleum Hydrocarbons							
		Volatile		atile	Extractable					Inorganic
Sample ID	Depth (ft)	Sample Date	euezene Beuzene (mg/kg)	3) % BTEX (Total) %	음 Gasoline Range Organics 음 (GRO)	B Diesel Range Organics (전) (DRO)	Motor Oil Range Organics (MRO)	(gko + DRO)	ਤੇ ਸ਼ੈ Total Petroleum ਨੂੰ Hydrocarbons (TPH)	S Chloride Concentration
BS24 - 42	4.2'	12/5/2024	ND	ND	ND	ND	ND	ND	ND	1840
BS24 - 42	4.2'	12/5/2024	ND	ND	ND	ND	ND	ND	ND	1570
BS24 - 44	4.2'	12/5/2024	ND ND	ND	ND	ND	ND	ND	ND	6400
BS24 - 45	4.2'	12/5/2024	ND ND	ND	ND	ND ND	ND	ND	ND ND	4160
BS24 - 46	4.2'	12/5/2024	ND	ND	ND	ND	ND	ND	ND	1880
BS24 - 47	4.2'	12/5/2024	ND	ND	ND	ND	ND	ND	ND	176
BS24 - 48	4.2'	12/5/2024	ND	ND	ND	ND	ND	ND	ND	816
BS24 - 49	4.2'	12/5/2024	ND	ND	ND	ND	ND	ND	ND	160
BS24 - 50	4.2'	12/5/2024	ND	ND	ND	ND	ND	ND	ND	48
BS24 - 51	4.2'	12/5/2024	ND	ND	ND	ND	ND	ND	ND	208
BS24 - 52	4.2'	12/5/2024	ND	ND	ND	ND	ND	ND	ND	32
BS24 - 53	4.2'	12/5/2024	ND	ND	ND	ND	ND	ND	ND	668
BS24 - 54	4.2'	12/5/2024	ND	ND	ND	ND	ND	ND	ND	96
BS24 - 55	4.2'	12/5/2024	ND	ND	ND	ND	ND	ND	ND	144
BS24 - 56	4.2'	12/5/2024	ND	ND	ND	ND	ND	ND	ND	1250
WS24 - 01	0-1'	12/5/2024	ND	ND	ND	ND	ND	ND	ND	352
WS24 - 02	0-1'	12/5/2024	ND	ND	ND	10.4	27.3	10.4	37.7	192
WS24 - 03	0-2'	12/5/2024	ND	ND	ND	ND	ND	ND	ND	48
WS24 - 03	2-4'	12/5/2024	ND	ND	ND	ND	ND	ND	ND	64
WS24 - 04	0-2'	12/5/2024	ND	ND	ND	ND	ND	ND	ND	800
WS24 - 04	2-4'	12/5/2024	ND	ND	ND	ND	ND	ND	ND	304
WS24 - 04.1	0-2'	12/18/2024	ND	ND	ND	ND	ND	ND	ND	176
WS24 - 04.1	2.3'	12/18/2024	ND	ND	ND	ND	ND	ND	ND	176
WS24 - 05	0-2'	12/5/2024	ND	ND	ND	ND	ND	ND	ND	8400
WS24 - 05	2-4'	12/5/2024	ND	ND	ND	ND	ND	ND	ND	3160
Backfill - Top Soil		12/27/2024	ND	ND	ND	ND	ND	ND	ND	16
Backfill - Caliche		12/27/2024	ND	ND	ND	ND	ND	ND	ND	48

[&]quot;ND" Not Detected at the Reporting Limit

Grey shaded indicates sample excavated

Bold and green shaded indicates exceedance approved per variance approval



[&]quot;-" indicates not analyzed/assessed

APPENDIX A – Variance Approvals

From: OCDOnline@state.nm.us

To: Andrew Parker

Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 415899

Date: Monday, December 30, 2024 2:08:51 PM

Caution: This email is from an external sender. Please take care when clicking links or opening attachments. When in doubt, contact your IT Department

To whom it may concern (c/o Andrew Parker for J & J Investments, LLC),

The OCD has approved the submitted *Internal Manual Incident File Supporting Documentation (ENV)* (IM-BNF), for incident ID (n#) nAPP2307633795, with the following conditions:

• Variance request to 19.15.29.13D (1) NMAC limiting the reclamation standards to 2 feet rather than 4 based on physical conditions is approved. Attachment was provided.

The signed IM-BNF can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you, Nelson Velez Environmental Specialist - Advanced 505-469-6146 Nelson.Velez@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505
 From:
 David, Deon W.

 To:
 Andrew Parker

 Cc:
 SLO Surface ECO

Subject: NAPP2307633795. J & J Investments LLC - Shahara State Unit #8 Inj. Line. Variance Approved.

Date: Tuesday, January 7, 2025 1:21:57 PM

Attachments: <u>image001.png</u>

image002.png

Caution: This email is from an external sender. Please take care when clicking links or opening attachments. When in doubt, contact your IT Department

The Environmental Compliance Office (ECO) has completed its review of the Variance Request submitted on December 19, 2024. Based on the evaluation, the ECO approves the requested adjustment to the reclamation standard, reducing the required depth from 4 feet below ground surface (bgs) to 2 feet bgs for the areas specified in Table #2. This decision is due to the site specific physical conditions.

We appreciate the efforts being taken to remediation and reclaim State Trust Land and look forward to the remediation closure report.

Thank you,

Environmental Compliance Office

Surface Resources Division eco@nmslo.gov
nmstatelands.org

.....

CONFIDENTIALITY NOTICE - This e-mail transmission, including all documents, files, or previous e-mail messages attached hereto, may contain confidential and/or legally privileged information. If you are not the intended recipient, or a person responsible for delivering it to the intended recipient, you are hereby notified that you must not read this transmission and that any disclosure, copying, printing, distribution, or use of any of the information contained in and/or attached to this transmission is STRICTLY PROHIBITED. If you have received this transmission in error, please immediately notify the sender and delete the original transmission and its attachments without reading or saving in any manner. Thank you.

From: OCDOnline@state.nm.us

To: <u>Andrew Parker</u>

Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 369413

Date: Tuesday, August 6, 2024 10:52:11 AM

To whom it may concern (c/o Andrew Parker for J & J Investments, LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2307633795, with the following conditions:

• Remediation plan is approved with the following conditions; 1. Variance request to increase the sampling frequency from 200 to 300 square feet per one (1) five (5) point composite sample is approved. 2. J & J Investments has 90 days (November 4, 2024) to submit to OCD its appropriate or final remediation closure report.

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you, Nelson Velez Environmental Specialist - Advanced 505-469-6146 Nelson.Velez@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 From: Knight, Tami C.
To: Andrew Parker

Cc: jnjinvestments@pvtn.net; Dimitry Nikanorov; Bisbey-Kuehn, Elizabeth A.; Griffin, Becky R.; David, Deon W.

Subject: RE: (Remediation/Reclamation Plan) J & J Investments LLC - Shahara State Unit #8 Inj. Line NAPP2307633795 -

Approved

Date: Friday, August 23, 2024 10:00:23 AM

Attachments: image004.png image005.png

Andrew

The subject remediation workplan is approved. However, ECO does have comments regarding the workplan that will help with review and approval for future workplans:

The subject workplan does not mention compliance with the Cultural Properties Protection Rule, a Right of Entry for Remediation (release went off the ROW), or applicability of working in a biologically sensitive area. I see that these documents were included as attachments but the narrative made no reference to them. It is helpful for the narrative to reflect documents attached to the workplan, they were almost missed during the review process. Also, the zoomed in site maps make it difficult to see where the release is along the subject ROW.

Please submit the remediation closure report and reclamation activities report to eco@slo.state.nm.us.

Thank you

Tami Knight, CHMM

Environmental Specialist NMSLO SRD-ECO 505.670.1638 tknight@slo.state.nm.us nmstatelands.org

OUT OF OFFICE NOTICE: Aug 30-Sept 1 and Sept 13-20

CONFIDENTIALITY NOTICE - This e-mail transmission, including all documents, files, or previous e-mail messages attached hereto, may contain confidential and/or legally privileged information. If you are not the intended recipient, or a person responsible for delivering it to the intended recipient, you are hereby notified that you must not read this transmission and that any disclosure, copying, printing, distribution, or use of any of the information contained in and/or attached to this transmission is STRICTLY PROHIBITED. If you have received this transmission in error, please immediately notify the sender and delete the original transmission and its attachments without reading or saving in any manner. Thank you.

From: Andrew Parker <Andrew@mcnabbpartners.com>

APPENDIX B – Daily Field and Sampling Report(s)



Client:	J&J Investments, LLC	Inspection Date:	10/8/2024
Site Location Name:	Shahara State Unit #008 INJ	Report Run Date:	10/9/2024 12:41 AM
Client Contact Name:	Jason Ciempa	API#:	
Client Contact Phone #:	575-677-2148		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	10/8/2024 7:04 AM		
Departed Site	10/8/2024 4:17 PM		
		Field Net	05

Field Notes

- **15:13** Arrive at site at ~7:05 am. On site to begin excavation of the release area. Assessed site, filled out JSA and held safety briefing with J.C Services.
- **18:19** I did a walk through of the site with Jason from J & J Investments (J.C. Services) using gps and previous flagged boreholes to determine the perimeter of proposed excavation. We discussed the plan of action for today and I marked perimeter of north half of excavation (3 to 4 ft main excavation) and one proposed 2 ft excavation on the west/southwest corner of excavation and one proposed excavation on the east side of excavation.
- **15:10** J.C. Services began to excavate the north, east, and south areas of the proposed excavation.
- 14:46 Jason had mentioned he was hitting heavy rocky layer between 1.5-2ft bgs.

We decided to collect a series of samples to see what the chloride levels were at these depths.

14:49 Collected WS24-01 at ~1' bgs; WS24-02 and -03 at ~1.75' bgs; WS24-04 at ~1.5' bgs;

WS24-05 at ~1' bgs;

WS24-06 and -07 at 1.5' bgs.



- **14:52** Collected BS24-01 and -02 at ~1.75′ bgs; BS24-03 at ~1.5′ bgs; BS24-04 at ~1′ bgs; BS24-05 and -06 at ~1.5′ bgs.
- **14:54** All samples did not pass field screening criteria for chlorides except WS24-04 and -07. Note: these samples will need to be resampled as the base of the excavation will get deeper near these walls.
- 14:56 I informed Jason of the field screening results, he began to attempt to dig the excavation to deeper depths.
- 18:20 A total of 4 truck loads of material were hauled off site (~72 cubic yards).

Next Steps & Recommendations

1 Continue to excavate the release area.



Site Photos





Southwest corner of excavation facing northeast

Viewing Direction: East

Constitution Protection

Union of Direction

Union of Directi

Southwest corner of excavation facing east.

Viewing Direction: Northwest



Southeast corner of excavation facing northwest.

Viewing Direction: North

Southeast corner of excavation facing north.





East side of excavation facing west.



Northeast corner of excavation facing southwest.



West side of excavation facing east.



Daily Site Visit Signature

Inspector: Andrew Ludvik

Signature: Signature



Client:	J&J Investments, LLC	Inspection Date:	10/9/2024			
Site Location Name:	Shahara State Unit #008 INJ	Report Run Date:	10/9/2024 8:34 PM			
Client Contact Name:	Jason Ciempa	API#:				
Client Contact Phone #:	575-677-2148					
Unique Project ID		Project Owner:				
Project Reference #		Project Manager:				
Summary of Times						
Arrived at Site	10/9/2024 8:20 AM					
Departed Site	10/9/2024 1:04 PM					
Field Notes						

- 12:44 Completed safety paper work upon arrival
- 12:45 Took a few spot check samples of the southern walls to evaluate whether we should continue excavating out
- 12:53 Broke through the cliché layer 1-2ft deep. However several locations cannot be dug further
- 12:58 Work was ended in mid day in order for the dig crew to experiment with alternative equipment for braking through the cliché

Next Steps & Recommendations

1



Site Photos

Viewing Direction: Southeast

South east section of excavation at about 4ft



South wall of excavation



South west corner of excavation at about 1ft



Central eastern section of excavation has not been altered today





Soil piled on what will be the north east section of the excavation



Daily Site Visit Signature

Inspector: Katrina Taylor

Signature:



Client:	J&J Investments, LLC	Inspection Date:	10/10/2024
Site Location Name:	Shahara State Unit #008 INJ	Report Run Date:	10/10/2024 6:27 PM
Client Contact Name:	Jason Ciempa	API#:	
Client Contact Phone #:	575-677-2148		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of ⁻	Times
Arrived at Site	10/10/2024 7:30 AM		
Departed Site	10/10/2024 10:55 AM		
		Field Note	es

rieia notes

- 10:39 Completed safety paper work upon arrival
- 10:40 Sampled the walls to the south of the pipeline and found they field screened cleaned
- 10:40 Sampled the bases in the south and East sections of the excavation to find they were still dirty
- 10:42 Was able to get to 4ft in the south east of the excavation. However even with multiple pieces of equipment they were unable to break past two ft in the south west and northern sections

Next Steps & Recommendations

1



Site Photos



Over view of excavation



North east section of excavation after 4hrs of digging



South east section of excavation at 4ft



Soil piled in south western part of excavation





South western wall and base of the excavation at 2 feet



Daily Site Visit Signature

Inspector: Katrina Taylor

Signature:



Client:	J&J Investments, LLC	Inspection Date:	12/3/2024			
Site Location Name:	Shahara State Unit #008 INJ	Report Run Date:	12/4/2024 12:09 AM			
Client Contact Name:	Jason Ciempa	API#:				
Client Contact Phone #:	575-677-2148					
Unique Project ID		Project Owner:				
Project Reference #		Project Manager:				
Summary of Times						
Arrived at Site	12/3/2024 10:15 AM					
Departed Site	12/3/2024 3:16 PM					
		Field Not	es			

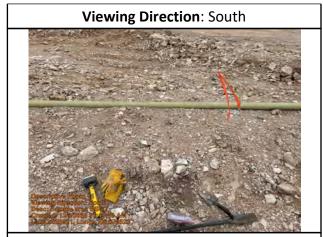
15:15 Arrived on site, signed JSA's. Field screening for excavation site.

Next Steps & Recommendations

1



Site Photos



Sample area BS-27



Sample area BS- 48.



Sample area BS–23.
Dark colored thin layer of crust on top of soil.



Sample area BS – 44.





Viewing Direction: North

Sample area BS -35.

Sample area, WS - 05.





Sample area WS - 02.

Sample area WS – 04.



Daily Site Visit Signature

Inspector: Meghan Veliz

Signature:



J&J Investments, LLC 12/18/2024 Client: Inspection Date: Shahara State Unit #008 12/19/2024 2:24 PM Site Location Name: Report Run Date: INJ Client Contact Name: Jason Ciempa API#: Client Contact Phone #: 575-677-2148 **Unique Project ID** Project Owner: Project Reference # Project Manager: **Summary of Times** Arrived at Site 12/18/2024 8:00 AM **Departed Site** 12/18/2024 1:00 PM

Field Notes

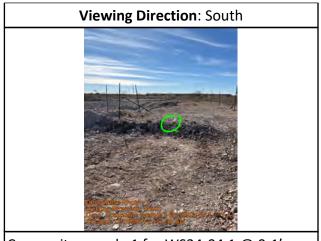
- 11:46 West wall was extended 2 feet
- 11:47 WS24-04.1 was collected and field screened
- 11:47 It was determined that another 2' extension would be necessary
- 11:48 WS24-04.1 and base WS24- 04.1 were collected and field screened and were determined to be below criteria

Next Steps & Recommendations

- 1 Jar and coc samples
- 2 Take to lab for further analysis

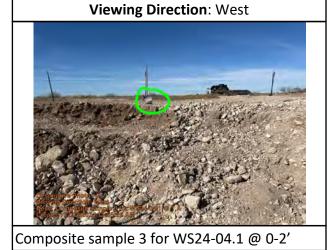


Site Photos



Composite sample 1 for WS24-04.1 @ 0-1'











Composite sample 5 for WS24-04.1 @ 0-2'



Composite 1 for Base WS24-04.1 @ 2.3





Viewing Direction: Southwest





Composite 4 for Base WS24-04.1 @ 2.3



Composite 5 for Base WS24-04.1 @ 2.3



Run on 12/19/2024 2:24 PM UTC Powered by www.krinkleldar.com



Daily Site Visit Signature

Inspector: Riley Arnold

Signature: Sign ture

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

From: OCDOnline@state.nm.us

To: Andrew Parker

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 407469

Date: Monday, December 2, 2024 9:38:54 AM

Caution: This email is from an external sender. Please take care when clicking links or opening attachments. When in doubt, contact your IT Department

To whom it may concern (c/o Andrew Parker for J & J Investments, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2307633795.

The sampling event is expected to take place:

When: 12/04/2024 @ 09:45

Where: M-16-17S-33E 660 FSL 660 FEL (32.828861,-103.670588)

Additional Information: Field Tech. Megan Veliz. 575-343-0926.

Additional Instructions: Coordinates: 32.8289, -103.67066

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

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

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

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 From: OCDOnline@state.nm.us

To: Andrew Parker

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 407877

Date: Tuesday, December 3, 2024 8:16:28 AM

Caution: This email is from an external sender. Please take care when clicking links or opening attachments. When in doubt, contact your IT Department

To whom it may concern (c/o Andrew Parker for J & J Investments, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2307633795.

The sampling event is expected to take place:

When: 12/05/2024 @ 08:30

Where: M-16-17S-33E 660 FSL 660 FEL (32.828861,-103.670588)

Additional Information: Field Tech. Megan Veliz. 575-343-0926.

Additional Instructions: Coordinates: 32.8289, -103.67066

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

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

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

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 From: OCDOnline@state.nm.us

To: Andrew Parker

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 408449

Date: Wednesday, December 4, 2024 9:43:17 AM

Caution: This email is from an external sender. Please take care when clicking links or opening attachments. When in doubt, contact your IT Department

To whom it may concern (c/o Andrew Parker for J & J Investments, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2307633795.

The sampling event is expected to take place:

When: 12/06/2024 @ 09:45

Where: M-16-17S-33E 660 FSL 660 FEL (32.828861,-103.670588)

Additional Information: Field Tech. Megan Veliz. 575-343-0926.

Additional Instructions: Coordinates: 32.8289, -103.67066

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

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

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

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 From: Velez, Nelson, EMNRD To: **Andrew Parker**

Cc: injinvestments@pvtn.net

Re: [EXTERNAL] nAPP2307633795 Shahara State Unit 8 Sampling Variance Subject:

Date: Tuesday, December 17, 2024 11:04:04 AM

Attachments: image001.png

image002.png Outlook-wv5sq0tx.pnq

Caution: This email is from an external sender. Please take care when clicking links or opening attachments. When in doubt, contact your IT Department

Good morning Andrew,

Thank you for the notice. Your variance request specifically addressing 19.15.29.12D (1a) NMAC is approved.

If an OCD representative is not on-site on the date &/or time given, please sample per 19.15.29 NMAC or from an OCD pre-approved sampling plan. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.nm.gov/ocd



From: Andrew Parker <aparker@vertexresource.com>

Sent: Tuesday, December 17, 2024 10:19 AM

To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov> **Cc:** jnjinvestments@pvtn.net <jnjinvestments@pvtn.net>

Subject: [EXTERNAL] nAPP2307633795 Shahara State Unit 8 Sampling Variance

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Mr. Velez,

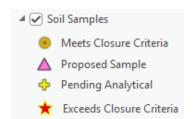
On the behalf of J & J Investments, Vertex Resources respectfully asks for a variance to the 48 hour confirmation sampling notice referenced in the below email. Tomorrow (Wednesday December 18th, 2024), we have an opportunity to perform additional horizontal excavation and delineation along the west wall identified as WS24-04, emphasized by the yellow line in the following image. Prior confirmation sampling exceeded Closure Criteria in the upper 2-feet.

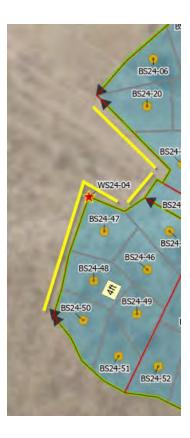
Proposed variance sampling:

Date: Wednesday December 17, 2024

Time: 11am.

Number of Samples: 1.





Thank you for your consideration.

Andrew Parker

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

P 575.689.7007

www.vertex.ca

Confidentiality Notice: This message and any attachments are solely for the intended recipient and may contain confidential or privileged information. If you are not the intended recipient, any disclosure, copying, use, or distribution of the information included in this message and any attachment is prohibited. If you have received this communication in error, please notify us by reply email and immediately and permanently delete this message and any attachments. Thank you.

From: OCDOnline@state.nm.us < OCDOnline@state.nm.us >

Sent: Tuesday, December 17, 2024 9:59 AM

To: Andrew Parker <aparker@vertexresource.com>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 412872

Caution: This email is from an external sender. Please take care when clicking links or opening attachments. When in doubt, contact your IT Department

To whom it may concern (c/o Andrew Parker for J & J Investments, LLC), The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2307633795.

The sampling event is expected to take place:

When: 12/19/2024 @ 10:30

Where: M-16-17S-33E 660 FSL 660 FEL (32.828861,-103.670588)

Additional Information: Riley Arnold. 575-552-2953

Additional Instructions: Coordinates: 32.8289, -103.67066

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

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

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

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505

Andrew Parker

Senior Project Manager Vertex Resource Services Inc.

Carlsbad, NM 88220

P 575.689.7007 C 575.689.7007

www.vertex.ca

Confidentiality Notice: This message and any attachments are solely for the intended recipient and may contain confidential or privileged information. If you are not the intended recipient, any disclosure, copying, use, or distribution of the information included in this message and any attachment is prohibited. If you have received this communication in error, please notify us by reply email and immediately and permanently delete this message and any attachments. Thank you.

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



December 13, 2024

ANDREW PARKER

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: SHAHARA STATE UNIT #008 INJ

Enclosed are the results of analyses for samples received by the laboratory on 12/09/24 11:30.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/05/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: WS24 - 01 @ 0-1' (H247442-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.20	110	2.00	1.58	
Toluene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	1.65	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	2.13	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.24	104	6.00	2.14	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	12/09/2024	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	198	99.2	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Kreene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Reported: 12/13/2024

Project Name: SHAHARA STATE UNIT #008 INJ

Project Number: 24E-04470

Project Location: J & J INVESTMENTS

Sampling Date: 12/05/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: WS24 - 02 @ 0-1' (H247442-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.20	110	2.00	1.58	
Toluene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	1.65	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	2.13	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.24	104	6.00	2.14	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/09/2024	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	216	108	200	3.49	
DRO >C10-C28*	10.4	10.0	12/09/2024	ND	198	99.2	200	4.17	
EXT DRO >C28-C36	27.3	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	122	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Reported:

12/13/2024

Project Name: SHAHARA STATE UNIT #008 INJ

Project Number: 24E-04470

Project Location: J & J INVESTMENTS Sampling Date: 12/05/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: WS24 - 03 @ 0-2' (H247442-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.20	110	2.00	1.58	
Toluene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	1.65	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	2.13	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.24	104	6.00	2.14	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/09/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	198	99.2	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	119 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/05/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: J & J INVESTMENTS

Sample ID: WS24 - 03 @ 2-4' (H247442-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.20	110	2.00	1.58	
Toluene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	1.65	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	2.13	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.24	104	6.00	2.14	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/09/2024	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	198	99.2	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	115	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/05/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact Sample Received By: Project Number: 24E-04470 Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: WS24 - 04 @ 0-2' (H247442-05)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.20	110	2.00	1.58	
Toluene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	1.65	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	2.13	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.24	104	6.00	2.14	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	12/09/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	198	99.2	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	120 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/05/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: WS24 - 04 @ 2-4' (H247442-06)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.20	110	2.00	1.58	
Toluene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	1.65	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	2.13	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.24	104	6.00	2.14	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	12/09/2024	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	198	99.2	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	129	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	135	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Reported: 12/13/2024

SHAHARA STATE UNIT #008 INJ

Project Name: SHAHARA S Project Number: 24E-04470

Project Location: J & J INVESTMENTS

Sampling Date: 12/05/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: WS24 - 05 @ 0-2' (H247442-07)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.20	110	2.00	1.58	
Toluene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	1.65	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	2.13	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.24	104	6.00	2.14	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	12/09/2024	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	198	99.2	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	121	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

Applyzod By: 14

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



12/05/2024

Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date:

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: WS24 - 05 @ 2-4' (H247442-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.20	110	2.00	1.58	
Toluene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	1.65	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	2.13	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.24	104	6.00	2.14	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	12/09/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	198	99.2	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	128 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	134 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/04/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 01 @ 1' (H247442-09)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.20	110	2.00	1.58	
Toluene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	1.65	
Ethylbenzene*	< 0.050	0.050	12/09/2024	ND	2.09	105	2.00	2.13	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.24	104	6.00	2.14	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/09/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	198	99.2	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	124 9	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130 9	6 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/04/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: J & J INVESTMENTS

mg/kg

Sample ID: BS24 - 02 @ 1' (H247442-10)

BTEX 8021B

	97	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.20	110	2.00	1.58	
Toluene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	1.65	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	2.13	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.24	104	6.00	2.14	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/09/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	198	99.2	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	117 9	26 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Reported: 12/13/2024

Project Name: SHAHARA STATE UNIT #008 INJ

Project Number: 24E-04470

Project Location: J & J INVESTMENTS Sampling Date: 12/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: BS24 - 03 @ 1' (H247442-11)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.20	110	2.00	1.58	
Toluene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	1.65	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	2.13	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.24	104	6.00	2.14	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/09/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	198	99.2	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	118 9	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Reported: 12/13/2024

SHAHARA STATE UNIT #008 INJ

Project Name: Project Number: 24E-04470

Project Location: J & J INVESTMENTS Sampling Date: 12/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: BS24 - 04 @ 2' (H247442-12)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.20	110	2.00	1.58	
Toluene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	1.65	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	2.13	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.24	104	6.00	2.14	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/09/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	198	99.2	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	119 9	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/04/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: J & J INVESTMENTS

mg/kg

Sample ID: BS24 - 05 @ 1' (H247442-13)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.20	110	2.00	1.58	
Toluene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	1.65	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	2.13	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.24	104	6.00	2.14	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/09/2024	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	198	99.2	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	120	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/04/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 06 @ 1' (H247442-14)

RTFY 8021R

Result <0.050 <0.050 <0.050 <0.150	Reporting Limit 0.050 0.050 0.050	Analyzed 12/09/2024 12/09/2024	Method Blank ND ND	BS 2.20	% Recovery	True Value QC 2.00	RPD 1.58	Qualifier
<0.050 <0.050 <0.150	0.050				110	2.00	1.58	
<0.050 <0.150		12/09/2024	ND	2.00				
<0.150	0.050			2.09	105	2.00	1.65	
		12/09/2024	ND	2.09	105	2.00	2.13	
	0.150	12/09/2024	ND	6.24	104	6.00	2.14	
<0.300	0.300	12/09/2024	ND					
94.2	% 71.5-13	4						
mg,	'kg	Analyzed By: CT						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
64.0	16.0	12/09/2024	ND	432	108	400	3.77	
mg,	'kg	Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	12/09/2024	ND	216	108	200	3.49	
<10.0	10.0	12/09/2024	ND	198	99.2	200	4.17	
<10.0	10.0	12/09/2024	ND					
128	% 48.2-13	4						
	Result 64.0 mg/ Result <10.0 <10.0 <10.0	64.0 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0	Result Reporting Limit Analyzed 64.0 16.0 12/09/2024 mg/kg Analyze Result Reporting Limit Analyzed <10.0	Result Reporting Limit Analyzed Method Blank 64.0 16.0 12/09/2024 ND mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank <10.0	Result Reporting Limit Analyzed Method Blank BS 64.0 16.0 12/09/2024 ND 432 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery 64.0 16.0 12/09/2024 ND 432 108 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 64.0 16.0 12/09/2024 ND 432 108 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 64.0 16.0 12/09/2024 ND 432 108 400 3.77 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Reported: 12/13/2024

SHAHARA STATE UNIT #008 INJ

mg/kg

Project Name: SHAHARA S Project Number: 24E-04470

Project Location: J & J INVESTMENTS

Sampling Date: 12/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BS24 - 07 @ 1' (H247442-15)

BTEX 8021B

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.20	110	2.00	1.58	
Toluene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	1.65	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	2.13	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.24	104	6.00	2.14	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/09/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	198	99.2	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	116	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



12/04/2024

Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date:

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: J & J INVESTMENTS

mg/kg

Sample ID: BS24 - 08 @ 1' (H247442-16)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.20	110	2.00	1.58	
Toluene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	1.65	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	2.13	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.24	104	6.00	2.14	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/09/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	198	99.2	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	119	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/04/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 24E-04470 Sample Received By:

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 09 @ 1' (H247442-17)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.20	110	2.00	1.58	
Toluene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	1.65	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	2.13	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.24	104	6.00	2.14	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/09/2024	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	198	99.2	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	104 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/04/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: J & J INVESTMENTS

mg/kg

Sample ID: BS24 - 10 @ 1' (H247442-18)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.20	110	2.00	1.58	
Toluene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	1.65	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	2.13	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.24	104	6.00	2.14	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	12/09/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	198	99.2	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	123	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



12/04/2024

Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date:

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 11 @ 1' (H247442-19)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.20	110	2.00	1.58	
Toluene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	1.65	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	2.13	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.24	104	6.00	2.14	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	12/09/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	198	99.2	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					
Surrogate: 1-Chlorooctane	122	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Reported: 12/13/2024

Project Name: SHAHARA STATE UNIT #008 INJ

Project Number: 24E-04470

Project Location: J & J INVESTMENTS Sampling Date: 12/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: BS24 - 12 @ 1' (H247442-20)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.20	110	2.00	1.58	
Toluene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	1.65	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.09	105	2.00	2.13	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.24	104	6.00	2.14	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	12/09/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	198	99.2	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					
Surrogate: 1-Chlorooctane	90.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.2	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/04/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 13 @ 1' (H247442-21)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.17	109	2.00	8.10	
Toluene*	<0.050	0.050	12/09/2024	ND	2.24	112	2.00	5.35	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.19	110	2.00	4.29	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.91	115	6.00	4.19	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	12/10/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	239	120	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	221	110	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	88.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.1	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/04/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 14 @ 1' (H247442-22)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.17	109	2.00	8.10	
Toluene*	<0.050	0.050	12/09/2024	ND	2.24	112	2.00	5.35	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.19	110	2.00	4.29	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.91	115	6.00	4.19	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/10/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	239	120	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	221	110	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	91.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.2	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/04/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 15 @ 1' (H247442-23)

RTFY 8021R

B1EX 8021B	тд/кд		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.17	109	2.00	8.10	
Toluene*	<0.050	0.050	12/09/2024	ND	2.24	112	2.00	5.35	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.19	110	2.00	4.29	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.91	115	6.00	4.19	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	12/10/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	239	120	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	221	110	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	85.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.1	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/04/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 16 @ 1' (H247442-24)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.17	109	2.00	8.10	
Toluene*	<0.050	0.050	12/09/2024	ND	2.24	112	2.00	5.35	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.19	110	2.00	4.29	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.91	115	6.00	4.19	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	12/10/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	239	120	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	221	110	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	91.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.3	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/04/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 17 @ 2.5' (H247442-25)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.17	109	2.00	8.10	
Toluene*	<0.050	0.050	12/09/2024	ND	2.24	112	2.00	5.35	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.19	110	2.00	4.29	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.91	115	6.00	4.19	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	12/10/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	239	120	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	221	110	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	91.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.7	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey & Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Reported: 12/13/2024

Project Name: SHAHARA STATE UNIT #008 INJ

Project Number: 24E-04470

Project Location: J & J INVESTMENTS

Sampling Date: 12/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BS24 - 18 @ 1' (H247442-26)

RTFY 8021R

31EX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.17	109	2.00	8.10	
Toluene*	<0.050	0.050	12/09/2024	ND	2.24	112	2.00	5.35	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.19	110	2.00	4.29	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.91	115	6.00	4.19	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	12/10/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	239	120	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	221	110	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	91.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.8	% 49.1-14	8						

Applyzod By: 14

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Reported: 12/13/2024

SHAHARA STATE UNIT #008 INJ

Project Name: SHAHARA S Project Number: 24E-04470

Project Location: J & J INVESTMENTS

Sampling Date: 12/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BS24 - 19 @ 1' (H247442-27)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.17	109	2.00	8.10	
Toluene*	<0.050	0.050	12/09/2024	ND	2.24	112	2.00	5.35	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.19	110	2.00	4.29	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.91	115	6.00	4.19	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/10/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	239	120	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	221	110	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	81.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.4	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/04/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 20 @ 1' (H247442-28)

RTFY 8021R

Value QC RPD Qualifier 2.00 8.10 2.00 5.35 2.00 4.29 5.00 4.19
2.00 5.35 2.00 4.29
2.00 4.29
5.00 4.19
Value QC RPD Qualifier
400 0.00
Value QC RPD Qualifier
200 1.47
200 1.87
2

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/04/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 21 @ 2.5' (H247442-29)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.17	109	2.00	8.10	
Toluene*	<0.050	0.050	12/09/2024	ND	2.24	112	2.00	5.35	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.19	110	2.00	4.29	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.91	115	6.00	4.19	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	12/10/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	239	120	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	221	110	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	92.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/04/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 22 @ 2' (H247442-30)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.17	109	2.00	8.10	
Toluene*	<0.050	0.050	12/09/2024	ND	2.24	112	2.00	5.35	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.19	110	2.00	4.29	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.91	115	6.00	4.19	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/10/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	239	120	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	221	110	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	91.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.0	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



12/04/2024

Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date:

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 23 @ 1' (H247442-31)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.17	109	2.00	8.10	
Toluene*	<0.050	0.050	12/09/2024	ND	2.24	112	2.00	5.35	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.19	110	2.00	4.29	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.91	115	6.00	4.19	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/10/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	239	120	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	221	110	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	81.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.2	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/04/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 24 @ 1' (H247442-32)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.17	109	2.00	8.10	
Toluene*	<0.050	0.050	12/09/2024	ND	2.24	112	2.00	5.35	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.19	110	2.00	4.29	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.91	115	6.00	4.19	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	12/10/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	239	120	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	221	110	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	79.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.6	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/04/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 24E-04470 Sample Received By:

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 25 @ 1' (H247442-33)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.17	109	2.00	8.10	
Toluene*	<0.050	0.050	12/09/2024	ND	2.24	112	2.00	5.35	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.19	110	2.00	4.29	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.91	115	6.00	4.19	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	12/10/2024	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	239	120	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	221	110	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	91.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.5	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/04/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 26 @ 1' (H247442-34)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.17	109	2.00	8.10	
Toluene*	<0.050	0.050	12/09/2024	ND	2.24	112	2.00	5.35	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.19	110	2.00	4.29	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.91	115	6.00	4.19	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	12/10/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	239	120	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	221	110	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	89.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.3	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Reported: 12/13/2024

SHAHARA STATE UNIT #008 INJ

Project Name: SHAHARA S Project Number: 24E-04470

Project Location: J & J INVESTMENTS

Sampling Date: 12/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BS24 - 27 @ 2' (H247442-35)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.17	109	2.00	8.10	
Toluene*	<0.050	0.050	12/09/2024	ND	2.24	112	2.00	5.35	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.19	110	2.00	4.29	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.91	115	6.00	4.19	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	12/10/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	239	120	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	221	110	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	89.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Reported: 12/13/2024

Project Name: SHAHARA STATE UNIT #008 INJ

Project Number: 24E-04470

Project Location: J & J INVESTMENTS

Sampling Date: 12/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BS24 - 28 @ 2' (H247442-36)

RTFY 8021R

B1EX 8021B	mg,	r Kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	2.17	109	2.00	8.10	
Toluene*	<0.050	0.050	12/09/2024	ND	2.24	112	2.00	5.35	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.19	110	2.00	4.29	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.91	115	6.00	4.19	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	12/10/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	239	120	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	221	110	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	90.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.3	% 49.1-14	8						

Applyzod By: 14

Cardinal Laboratories *=Accredited Analyte

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

Celey & Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Reported: 12/13/2024

SHAHARA STATE UNIT #008 INJ

Project Name: Project Number: 24E-04470

Project Location: J & J INVESTMENTS Sampling Date: 12/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Tamara Oldaker Sample Received By:

Sample ID: BS24 - 29 @ 2' (H247442-37)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2024	ND	2.17	109	2.00	8.10	
Toluene*	<0.050	0.050	12/10/2024	ND	2.24	112	2.00	5.35	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.19	110	2.00	4.29	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.91	115	6.00	4.19	
Total BTEX	<0.300	0.300	12/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	12/10/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	239	120	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	221	110	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					
Surrogate: 1-Chlorooctane	80.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.8	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Reported: 12/13/2024

Project Name: SHAHARA STATE UNIT #008 INJ

Project Number: 24E-04470

Project Location: J & J INVESTMENTS Sampling Date: 12/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Tamara Oldaker Sample Received By:

Sample ID: BS24 - 30 @ 2' (H247442-38)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2024	ND	2.17	109	2.00	8.10	
Toluene*	<0.050	0.050	12/10/2024	ND	2.24	112	2.00	5.35	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.19	110	2.00	4.29	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.91	115	6.00	4.19	
Total BTEX	<0.300	0.300	12/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	12/10/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	239	120	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	221	110	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					
Surrogate: 1-Chlorooctane	82.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Reported: 12/13/2024

Project Name: SHAHARA STATE UNIT #008 INJ

Project Number: 24E-04470

Project Location: J & J INVESTMENTS Sampling Date: 12/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: BS24 - 31 @ 2.5' (H247442-39)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2024	ND	2.17	109	2.00	8.10	
Toluene*	<0.050	0.050	12/10/2024	ND	2.24	112	2.00	5.35	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.19	110	2.00	4.29	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.91	115	6.00	4.19	
Total BTEX	<0.300	0.300	12/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	12/10/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	239	120	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	221	110	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					
Surrogate: 1-Chlorooctane	91.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.2	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Reported: 12/13/2024

SHAHARA STATE UNIT #008 INJ

Project Name: Project Number: 24E-04470

Project Location: J & J INVESTMENTS Sampling Date: 12/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: BS24 - 32 @ 2' (H247442-40)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2024	ND	2.17	109	2.00	8.10	
Toluene*	<0.050	0.050	12/10/2024	ND	2.24	112	2.00	5.35	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.19	110	2.00	4.29	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.91	115	6.00	4.19	
Total BTEX	<0.300	0.300	12/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	12/10/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	239	120	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	221	110	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					
Surrogate: 1-Chlorooctane	93.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.3	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/04/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 33 @ 3' (H247442-41)

BTEX 8021B	mg/	/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2024	ND	2.20	110	2.00	1.60	
Toluene*	<0.050	0.050	12/10/2024	ND	2.25	112	2.00	0.272	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.18	109	2.00	0.397	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.87	114	6.00	0.0854	
Total BTEX	<0.300	0.300	12/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	12/10/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	198	99.1	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	196	97.9	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	98.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/04/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 34 @ 3' (H247442-42)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2024	ND	2.20	110	2.00	1.60	
Toluene*	<0.050	0.050	12/10/2024	ND	2.25	112	2.00	0.272	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.18	109	2.00	0.397	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.87	114	6.00	0.0854	
Total BTEX	<0.300	0.300	12/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4360	16.0	12/10/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	198	99.1	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	196	97.9	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Reported: 12/13/2024

12/13/2024 SHAHARA STATE UNIT #008 INJ

Project Name: SHAHARA S Project Number: 24E-04470

Project Location: J & J INVESTMENTS

Sampling Date: 12/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BS24 - 35 @ 3' (H247442-43)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2024	ND	2.20	110	2.00	1.60	
Toluene*	<0.050	0.050	12/10/2024	ND	2.25	112	2.00	0.272	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.18	109	2.00	0.397	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.87	114	6.00	0.0854	
Total BTEX	<0.300	0.300	12/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	12/10/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	198	99.1	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	196	97.9	200	2.09	
EXT DRO >C28-C36	12.6	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

Applyzod By: 14

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/05/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 36 @ 4.2' (H247442-44)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2024	ND	2.20	110	2.00	1.60	
Toluene*	<0.050	0.050	12/10/2024	ND	2.25	112	2.00	0.272	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.18	109	2.00	0.397	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.87	114	6.00	0.0854	
Total BTEX	<0.300	0.300	12/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	12/10/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	198	99.1	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	196	97.9	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Reported: 12/13/2024

12/13/2024

Project Name: SHAHARA STATE UNIT #008 INJ

Project Number: 24E-04470

Project Location: J & J INVESTMENTS

Sampling Date: 12/05/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BS24 - 37 @ 4.2' (H247442-45)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2024	ND	2.20	110	2.00	1.60	
Toluene*	<0.050	0.050	12/10/2024	ND	2.25	112	2.00	0.272	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.18	109	2.00	0.397	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.87	114	6.00	0.0854	
Total BTEX	<0.300	0.300	12/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	12/10/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	198	99.1	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	196	97.9	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	8						

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Reported: 12/13/2024

12/13/2024 SHAHARA STATE UNIT #008 INJ

Project Name: SHAHARA S Project Number: 24E-04470

Project Location: J & J INVESTMENTS

Sampling Date: 12/05/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BS24 - 38 @ 4.2' (H247442-46)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2024	ND	2.20	110	2.00	1.60	
Toluene*	<0.050	0.050	12/10/2024	ND	2.25	112	2.00	0.272	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.18	109	2.00	0.397	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.87	114	6.00	0.0854	
Total BTEX	<0.300	0.300	12/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	12/10/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	198	99.1	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	196	97.9	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/05/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 39 @ 4.2' (H247442-47)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2024	ND	2.20	110	2.00	1.60	
Toluene*	<0.050	0.050	12/10/2024	ND	2.25	112	2.00	0.272	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.18	109	2.00	0.397	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.87	114	6.00	0.0854	
Total BTEX	<0.300	0.300	12/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	12/10/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	198	99.1	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	196	97.9	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Reported: 12/13/2024

Project Name: SHAHARA STATE UNIT #008 INJ

24E-04470

Project Location: J & J INVESTMENTS

Sampling Date: 12/05/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BS24 - 40 @ 4.2' (H247442-48)

Project Number:

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2024	ND	2.20	110	2.00	1.60	
Toluene*	<0.050	0.050	12/10/2024	ND	2.25	112	2.00	0.272	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.18	109	2.00	0.397	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.87	114	6.00	0.0854	
Total BTEX	<0.300	0.300	12/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	12/10/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	198	99.1	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	196	97.9	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	97.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/05/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 41 @ 4.2' (H247442-49)

BTEX 8021B	mg/kg		Analyze	Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2024	ND	2.20	110	2.00	1.60	
Toluene*	<0.050	0.050	12/10/2024	ND	2.25	112	2.00	0.272	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.18	109	2.00	0.397	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.87	114	6.00	0.0854	
Total BTEX	<0.300	0.300	12/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	12/10/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	198	99.1	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	196	97.9	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/05/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 42 @ 4.2' (H247442-50)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2024	ND	2.20	110	2.00	1.60	
Toluene*	<0.050	0.050	12/10/2024	ND	2.25	112	2.00	0.272	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.18	109	2.00	0.397	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.87	114	6.00	0.0854	
Total BTEX	<0.300	0.300	12/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	12/10/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	198	99.1	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	196	97.9	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/05/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 43 @ 4.2' (H247442-51)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2024	ND	2.20	110	2.00	1.60	
Toluene*	<0.050	0.050	12/10/2024	ND	2.25	112	2.00	0.272	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.18	109	2.00	0.397	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.87	114	6.00	0.0854	
Total BTEX	<0.300	0.300	12/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	12/10/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	198	99.1	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	196	97.9	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	84.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.8	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/05/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact Sample Received By: Project Number: 24E-04470 Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 44 @ 4.2' (H247442-52)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2024	ND	2.20	110	2.00	1.60	
Toluene*	<0.050	0.050	12/10/2024	ND	2.25	112	2.00	0.272	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.18	109	2.00	0.397	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.87	114	6.00	0.0854	
Total BTEX	<0.300	0.300	12/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	12/10/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	198	99.1	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	196	97.9	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	94.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Reported: 12/13/2024

SHAHARA STATE UNIT #008 INJ

Project Name: SHAHARA S Project Number: 24E-04470

Project Location: J & J INVESTMENTS

Sampling Date: 12/05/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BS24 - 45 @ 4.2' (H247442-53)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2024	ND	2.20	110	2.00	1.60	
Toluene*	<0.050	0.050	12/10/2024	ND	2.25	112	2.00	0.272	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.18	109	2.00	0.397	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.87	114	6.00	0.0854	
Total BTEX	<0.300	0.300	12/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	12/10/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	198	99.1	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	196	97.9	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	18						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/05/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 46 @ 4.2' (H247442-54)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2024	ND	2.20	110	2.00	1.60	
Toluene*	<0.050	0.050	12/10/2024	ND	2.25	112	2.00	0.272	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.18	109	2.00	0.397	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.87	114	6.00	0.0854	
Total BTEX	<0.300	0.300	12/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	12/10/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	198	99.1	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	196	97.9	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	18						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Reported: 12/13/2024

Project Name: SHAHARA STATE UNIT #008 INJ

Project Number: 24E-04470

Project Location: J & J INVESTMENTS

Sampling Date: 12/05/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BS24 - 47 @ 4.2' (H247442-55)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2024	ND	2.20	110	2.00	1.60	
Toluene*	<0.050	0.050	12/10/2024	ND	2.25	112	2.00	0.272	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.18	109	2.00	0.397	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.87	114	6.00	0.0854	
Total BTEX	<0.300	0.300	12/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/10/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	198	99.1	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	196	97.9	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	18						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Reported: 12/13/2024

SHAHARA STATE UNIT #008 INJ

Project Name: SHAHARA S Project Number: 24E-04470

Project Location: J & J INVESTMENTS

Sampling Date: 12/05/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BS24 - 48 @ 4.2' (H247442-56)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2024	ND	2.20	110	2.00	1.60	
Toluene*	<0.050	0.050	12/10/2024	ND	2.25	112	2.00	0.272	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.18	109	2.00	0.397	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.87	114	6.00	0.0854	
Total BTEX	<0.300	0.300	12/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	12/10/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	198	99.1	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	196	97.9	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/05/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 49 @ 4.2' (H247442-57)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2024	ND	2.20	110	2.00	1.60	
Toluene*	<0.050	0.050	12/10/2024	ND	2.25	112	2.00	0.272	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.18	109	2.00	0.397	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.87	114	6.00	0.0854	
Total BTEX	<0.300	0.300	12/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/10/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	198	99.1	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	196	97.9	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/05/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 50 @ 4.2' (H247442-58)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2024	ND	2.20	110	2.00	1.60	
Toluene*	<0.050	0.050	12/10/2024	ND	2.25	112	2.00	0.272	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.18	109	2.00	0.397	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.87	114	6.00	0.0854	
Total BTEX	<0.300	0.300	12/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/10/2024	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	198	99.1	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	196	97.9	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	101 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	6 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Reported: 12/13/2024

Project Name: SHAHARA STATE UNIT #008 INJ

Project Number: 24E-04470

Project Location: J & J INVESTMENTS

Sampling Date: 12/05/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BS24 - 51 @ 4.2' (H247442-59)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2024	ND	2.20	110	2.00	1.60	
Toluene*	<0.050	0.050	12/10/2024	ND	2.25	112	2.00	0.272	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.18	109	2.00	0.397	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.87	114	6.00	0.0854	
Total BTEX	<0.300	0.300	12/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/10/2024	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	198	99.1	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	196	97.9	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/05/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 52 @ 4.2' (H247442-60)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2024	ND	2.20	110	2.00	1.60	
Toluene*	<0.050	0.050	12/10/2024	ND	2.25	112	2.00	0.272	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.18	109	2.00	0.397	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.87	114	6.00	0.0854	
Total BTEX	<0.300	0.300	12/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/10/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	198	99.1	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	196	97.9	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/05/2024

Reported: 12/13/2024 Sampling Type: Soil Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Coo

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 53 @ 4.2' (H247442-61)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	1.97	98.7	2.00	5.84	
Toluene*	<0.050	0.050	12/09/2024	ND	2.01	101	2.00	4.32	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.04	102	2.00	3.64	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.11	102	6.00	3.27	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	12/10/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	232	116	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	206	103	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	86.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.8	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/05/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact Sample Received By: Project Number: 24E-04470 Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 54 @ 4.2' (H247442-62)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	1.97	98.7	2.00	5.84	
Toluene*	<0.050	0.050	12/09/2024	ND	2.01	101	2.00	4.32	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.04	102	2.00	3.64	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.11	102	6.00	3.27	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/10/2024	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	232	116	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	206	103	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	89.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/05/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact Sample Received By: Project Number: 24E-04470 Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 55 @ 4.2' (H247442-63)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	1.97	98.7	2.00	5.84	
Toluene*	<0.050	0.050	12/09/2024	ND	2.01	101	2.00	4.32	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.04	102	2.00	3.64	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.11	102	6.00	3.27	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/10/2024	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	232	116	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	206	103	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	90.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.1	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/09/2024 Sampling Date: 12/05/2024

Reported: 12/13/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: BS24 - 56 @ 4.2' (H247442-64)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2024	ND	1.97	98.7	2.00	5.84	
Toluene*	<0.050	0.050	12/09/2024	ND	2.01	101	2.00	4.32	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.04	102	2.00	3.64	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.11	102	6.00	3.27	
Total BTEX	<0.300	0.300	12/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	12/10/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2024	ND	232	116	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	206	103	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					
Surrogate: 1-Chlorooctane	85.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.8	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene

Corrected Temp. °C

Page 67 of 73



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Project Manage	Vertex Bill Andrew Par	CIO JAJINI	lestments)		BILL TO	2	T		ANIALN	010		
Address: 310	Boul Dr.	NEI		P.O. #:					ANALY	SIS REQU	EST	
City: Carle	bad -7007	ou Alla	2000	Company:	JIJI	Vesture	6					
Phone #: 575-	-600-7007	State: NM Zip: {	20220	Attn: Josi	o Ciam	CO INTERIOR						1 1
Project #- OUE	MILTA	Fax #:		Address:	Colem	pu	1	9				1 1
Project Name C	6170	Project Owner: Jos	ie Ciemon	City:			1 1	2				1 1
roject Name:	04470 hahara State	Unit-#1008	INT	State:	~		1 1	7				1 1
roject Location:	11 1 11		0	Phone #:	Zip:		1 1	8				1 1
ampler Name:	Meghan Ve	liz					1.1	3	1 1			1 1
OSE ONLY)		MATRIX	Fax #: PRESERV	/ 0411	IDI INIC	12	2				
		₽ d		KESERI	SAM	PLING	100	8 0	1 1			
Lab I.D.		(G)RAB OR (C)OMP	GROUNDWATER WASTEWATER SOIL DIL		1		8021	TPH:BOISD(GROIDRO/MRO)				
-u.b.	Sample I.D.	(G)RAB OR (C)C	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	ين ين	1		0	8 4	1 1	1 1		
247442		AB	GROUND WASTEW SOIL OIL SLUDGE	ACID/BASE: ICE / COOL OTHER:	1		BYEX	<u></u>				
1442	2001	(G) #	GROUN WASTE SOIL OIL SLUDGE	ACID/BA ICE / CC OTHER	20.00		THE	2				
įμ	324-01@G	- 1 1/ 1/71	X	V S	DATE	TIME		FIG				
$\propto \mu$	624-0200-	1' 117	1	1	12-5-24	12:09pm	\times	XX				
2 W	824-03 Q 0-1	21			12-5-24	12:140	17			+-		
7 W	524-036 2-0	1,			12-3-24	11:17am						
9 (0)	524-0400 0-2	1			12-5-24 1	1:2300						
	524-040 2-1	('			2-5-24	12:00						
7 WS	324-05 60 0-	2'			2-5-24/	2:040						
o WS	24-05@2-	4'			2-5-241	1:31an						
9 185	24-01@ 11			1	12-5-241	1:3700						
NOTE: Liability and Design	24-02 00 11				2-4-241	0:52am						
All claims including those	ages. Cardinal's liability and client's exclu- e for negligence and any other cause who	rsive remedy for any claim arising wi	nether based in contract or tort.	V:	2-4-24 1	0:58mm						
or successors arising out of	be liable for incidental or consequental di f or related to the performance of service	atsoever shall be deemed waived un armages, including without limitation,	nless made in writing and received business interruptions, loss of	red by Cardinal with	in 30 days after co	the client for the impletion of the ap	oplicable					
quished By:	Date Date	Received	of whether such claim is base	d upon any of the a	s incurred by clien bove stated reason	t, its subsidiaries, as or otherwise.						
your V	Time	1- /4	1	000	/ / V	erbal Result	t: DY	res □ No I	Add'l Phone #:			
quished By:	/	130	ELLIONI A	Wal	10	Darks are	emailed	d. Please provide	Email address	:		
	Date	Received	By:	and	RI	EMARKS:	eve	Hex resource	e.com ,n	nveliz@vel	PEXTOSNIC	00
ared D	Time				/ 3	osie C	iomo	a - injinve	stander	Dough a	1	e.com
ered By: (Circle O	20001100	Temp. °C 3.9 S	ample Condition	CHECKED		34.0	· ····	~ 2.13.1146	V/V	Sharu	TO 129	
ler - UPS - Bus -						naround Tir			/ ////	1 A TO 1 A	Total Control	

Page 68 of 73



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Manager:	Andrew Parker	393-2476 J 3 J Trives (ments)	BILL T)		ANAI	YSIS REQUE	O.T.	
Address: 310	Bound Dr.	•	P.O. #:				1313 REQUE	SI	_
city: Carlob	ad John	1111 - 00000	Company: J.JI	Verlments		1 1			
Phone #: 575-6	99-7007 - "	NM zip. 98220	Attn: Josie Cien	100	6				- 1
roject #: 24F-0	2047A -	T . A	Address:	7	2		-		- 1
roject Name: Sh	Project	Owner: Jose Ciempo	City:		3				
roject Location:	anala state unit	NM zip.98220 Owner:Josie Cienpa #008 INJ	State: Zip:		8				
ampler Name:	1.1.1/1		Phone #:		2	1 1 1			
FOR LAB USE ONLY	legian Veliz		Fax #:		2	1 1 1		1	
		MATRIX	PRESERV. SAM	IPLING	20				
1		AMO WILL			1802 NSD(6)	ž			
Lab I.D.	Sample I.D.	G) (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	V		BYEX (8021) TPH:30ISD(GROVDRO/MRO)	Meriae			
	Cample I.D.	WA VAN	O SE		× &	0			1
247442		# CONTAINERS GROUNDWATE WASTEWATER SOIL OIL	ACID/BASE: ICE / COOL OTHER:		PER	3			
	24-03@ 1	(G)R, #CO GROI WAST SOIL OIL SLUD	ACID/B/R OTHER OTHER	TIME	E 6 6	5	1 1 1		
	24-04 60 21		1 1	11:08an	25	7			
13 850	011-05 60 11		1 12-4-24	10:37am					
14 88	24 00 60		12-424	11:15					
15 RS	24-07 60 11		12-4-24	11:20am		+			
160 1852	24-06 (D) 1 24-06 (D) 1 24-07 (D) 1		12-424	11:27		+++			
17 852	4-09 6		12-4-24	11:3/20					
18 BS26	1-10 60 11		12-4-24	1):Lilan					
19 352	U-11 @ 11		12-4-24	1:50			+		
20 852	4-12 60 11		12-4-24 /	155am					
NOTE: Liability and Damage s. All claims including there for	s. Cardinal's liability and client's exclusive remedy	for any claim arting whether has all	12-4-241	1:58am			+	17	
In no event shall Cardinal be it	the graphice and any other cause whatsoever sha	If be deemed waived unless made in writing and recording without limitation, business interruptions, loss	ort, shall be united to the amount paid selved by Cardinal within 30 days after	by the client for the	V				
quished By:	related to the performance of services hereunder Date:	by Cardinal, regardless of whether such claim is ba	of use, or loss of profits incurred by clic sed upon any of the above stated reas	nt, its subsidiaries.	icable				
vou Ver	12-9-24	Received By:	00001	/erbal Result:	□ Yes □	No Add'l Phon	0.47		
quished By:	1/1/30	(Munn 1	Wola Kill	Results are	emailed. Please	provide Email add			
quiotica by: •	Date:	Received By:	was se	runera	vertexteso	urce.com , 1	well Ta Vocto	ex Fesource.co	
	Time:		/	Social C:	anana :-	'autont and	2001	al courte co	31
ered By: (Circle One	Observed Temp. °	C 20 Samula C		الاعاسار	Jul-noline	investment	s@pvtn.n	er	- 1
ler - UPS - Bus - O		Cool Intact	OUTPOLIE	rnaround Tim	e: Standa		eria (only) Sample C	- D la lack	
FORWI-000 R 3.5 06	The state of the s	7 3.3 Yes Yes	Th	ermometer ID	Rush #140		IIIIact Opean	Condition ved Temp. °C	
	+ Cardin	al cannot accept verbal chang	Co	rrection Factor	-0.6°C	LY	es 🔲 Yes	cted Temp. °C	- 1

Corrected Temp. °C

Page 69 of 73



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Zip: SAMPLING DATE TIME 12-4-24/0:40ay 12-4-24/2:11pm	(BTEX (8021)	Chloride	ANALYS	SIS REQUI	JEST	
Zip: SAMPLING DATE TIME 12-4-24/0:40	(BTEX (8021)	Chleride				
Zip: SAMPLING DATE TIME 12-4-24/0:40	(BTEX (8021)	Chleride				
Zip: SAMPLING DATE TIME	XV	Chleride				
DATE TIME	XV	Chloride				
DATE TIME	XV	Chleride				
DATE TIME	XV	Chleride				
DATE TIME	XV	Chloride				
DATE TIME	XV	Chloride				
DATE TIME	XV	Chloride				
12-4-24 10:40	XV	Chlorid				
12-4-24 10:40	XV	Chler				
12-4-24 10:40	XV	Chlo				
12-4-24 10:40	XV	9				1 1
12-4-24 10:40	XV	UF	1 1			
12-4-24/0:40a	$\star \times \times$					
2-4-24 12.11					+-	+
- 1 21/2 - [[PN	4 1 1	1				-
12-4-24 12:17 OM						
2-4-24 12:55 m	4 1 1				+	
2-4-24 1:03pm					-	
2-4-24 1:08pm					-	+
24-24 1:14pm						+
24-24 1:21 DM					-	+
2-4-24 1:27 pm						+
-4-24 1:31 pm						
he amount paid by the client for the in 30 days after completion of the	he e applicable					
incurred by client, its subsidiarie sove stated reasons or otherwise	15,			+		
Verbal Results	ult:	□ No A	Add'l Phone #:			
AN apartar	Nard and	Places provide t	P			
In The sales	WYCHEX	resource	.com, mv	elizever	Hexlesou	rce.com
REMARKS.	tiom Do.	al-au-al	10.1			
REMARKS:	rempt; 1	1) Investme	this apvi	n.net		
Josie C		0	/ 1/	CORN Samuel	1 40.12/0	1 24
٠	Josie C	Josie Ciempa-j	Tosie Ciempe-jnjinvestme	Josie Ciempe-jnjinvestments pvt	Josie Ciempe-jnjinvestmentsapvtn.net DBY: Turnaround Time: Standard Bacteria (only) Sample	Standard Racteris (only Co.)

Page 70 of 73



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

roject Manager: 1 ad Con D al	siments)	BILL TO	ANALYSIS REQUEST
ompany Name: Vertex (Bill to JaJ Inversional Manager: Andrew Parker	-	P.O. #:	
ity Carl Sload State: NM zip: {	38220	Company: J Investments Attn: Josie Ciempa Address:	DNO/MRO)
project Owner: Jos	sie Ciempa	City:	
oject #24E-04470 Project Owner: Jacob Name: Shahara State Unit #208	INJ '	State: Zip:	
oject Location:		Phone #:	
mpler Name: Mahan Veliz		Fax #:	
IN DAB USE ONLY	MATRIX	PRESERV. SAMPLING	
Ab I.D. Sample I.D. 100 840 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GROUNDWATER WASTEWATER SOIL OIL	DATE TIME 2-4-24 :37 pm 12-4-24 :48 pm 12-4-24 :55 pm 12-4-24 2:06 pm 12-4-24 2:18 pm 12-4-24 2:30 pm 12-4-24 2:30 pm 12-4-24 2:42 pm	

Relinquished By:	Date:	Received By:	ased upon any of the above stated	Verbal Result: Ves No Add'l Phone #: All Results are emailed. Please provide Email address: Aparticer Overtex resource com, mvelic Overtex resource. Com REMARKS: Tosie Ciempa-injinvestments @ pvtn.net
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C Corrected Temp. °C	Cool Intact	(Initials)	Turnaround Time: Standard Rush Thermometer ID #140 Correction Factor -0.6°C Standard Rush Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
	† Cardinal	cannot accept verbal chance		

Page 71 of 73

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Managery 100 Court (D. 11 TOJ 3) involuments	BILL TO	ANALYSIS REQUEST
Company Name: Vertex (Bill to Ji) in us (ments) Project Manager: And rew Parker Address: 3(0) Boyd Dr. City: Carlsbad State: NM zip: 88220 Phone #: 575-687-7007 Fax #: Project #: 24E-04470 Project Owner: Josie Ciempo Project Name; Shahara State Unit #1008 INS	Company J J investments Attn: Josie Ciempa	
ampler Name: Meghan Voltz	Phone #:	
FOR LAB USE ONLY MATRIX	Fax #: PRESERV. SAMPLING	1506 de
Lab I.D. Sample I.D. 3 47 47 47 47 47 47 47	DATE TIME 2-4-24 2:50pm 12-4-24 2:57pm 12-4-24 2:57pm 12-5-24 9:29am 12-5-24 9:39am 12-5-24 9:43am 12-5-24 9:43am 12-5-24 9:55am 12-5-24 9:55am 12-5-24 9:59am 12-5-24 9:5	

Relinquished By: Relinquished By: Relinquished By:	Time: /30	regardless of whether such claim is based upon any of the above state elived By:	Verbal Result: Yes No Add'I Phone #: All Results are emailed. Please provide Email address: Aparter Evertex Resource.com, mveliz@vertex resource.com
Delivered By: (Circle One)	Observed Temp. °C 3.5	Sample Condition CHECKED BY:	Josie Ciempa-jnjinvestments auton net Turnaround Time: Standard M. Batton Rush 40-12/9/24
Sampler - UPS - Bus - Other: FORM-000 R 3.5 08/03/24	Corrected Temp. °C 3.3	Cool distant (Interior	Thermometer ID #140 Correction Factor, -0.6 °C Standard Rush Bacteria (ônly) Sample Condition Cool Intact Observed Temp. °C Yes Yes
	† Cardinal canno	ot accent verbal changes Places amail	No No Corrected Temp. °C

Page 72 of 73

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

company Name: Vertex Bill to JiJinvolments)	BILL TO	ANALYSIS REQUEST					
roject Manager: Ardrew Parker	P.O. #:						
ddress:30/Boyd Dr.	company: Tinks/ments Attn: Jesie Ciempa						
ity Carlsbad State: NM zip: 88220	Attn: Tobia Change	i (9)					
hone #: \$75-689-7007 Fax #:	Address:						
roject #: 24E-04470 Project Owner: Josie Ciempa roject Name: Shahava State Unit#08 INT	Address:	DRO/MRO					
roject Namo Stahana Stal all Stahana Turn	City:						
roject hante ynanara State Unit Hoo INJ	State: Zip:						
roject Location:	Phone #:						
ampler Name: Washan Veli7	Fax #:	1000					
MATRIX	PRESERV. SAMPLING	(802) 3015D/e					
S S S							
Tap I.D. (G)RAB OR (C)OI # CONTAINERS GROUNDWATER WASTEWATER SOIL SLUDGE	1 1	K(BOZI) BOISD(BRO Gride					
Sample I.D.	W W W W						
(G)RAB C # CONTA # CONTA WASTEW WASTEW SOIL SOIL SOIL SOIL	ACID/BASE: ICE / COOL OTHER:						
5/8524-43@ 4.2' CZ X							
538524-44 @ 4.2'	X 12-5-24 10:04an						
538524-44 @ 4.2'	12524 10:08am						
548524-46@4.2'	12-5-24 10:12am						
55 BS24-47@ 4.2'	12-5-24 10:16am						
1 pcou 112 @ 4.2	12-5-24 10:23an						
2004-400 4.2	12-5-24 10:29am						
5/ 024-446 4.1	2-524 6:33am						
58 B324-60 @ 4.2'	12-5-24 10:40am						
100 8524-62 60 11 21	12524 10:44am						
ASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract	12-5-24 10:48am						

Relinquished By: Relinquished By: Relinquished By:	Time:/30	deceived By: Continue Contin	Verbal Result: Yes No Add'I Phone #: All Results are emailed. Please provide Email address: Aparker Overtex resource.com, mveliz Overtex resource.com REMARKS: Jos'ie Ciempa - jnjinvestments Oputn.net
Delivered By: (Circle One) Sampler - UPS - Bus - Other: FORM-000 R 3.3 06/03/24	Observed Temp. °C 3	Sample Condition CHECKED BY: Cool Intact (Initials) No No	Turnaround Time: Standard Rush Rush Bacteria (ohly) Sample Condition 124 Coordinate Observed Temp. °C Yes No No Corrected Temp. °C

Page 73 of 73

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Time:

Observed Temp. °C

Corrected Temp. °C

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Building Maine Velyex (Bill 70	J&Jinvestments)	BILL TO		NALYSIS REQUEST	
Project Manager: Andrew Parker Address: 30 Baya Dr.		77	6		
City: Ca [180a0] State: 111	1 zip:88220	Attn: Jobie Ciempa	7 28		
Phone #: \$75-(89-7007 Fax #:		Address:			
Project #:24E-C4470 Project Own Project Name: Shahara State Unit	er: JOSE Ciempa	City:			
Project Name: Manara State Unit	#008INJ	State: Zip:	$\square $		
Project Location:		Phone #:	- 2		
Sampler Name: Nlaghan Va 12	T. T. T	Fax #:	1860		
J J	MATRIX	PRESERV. SAMPLING	15000 de		
Lab I.D. Sample I.D. H747442 BS24-53@4.2' BS24-54@4.2' B324-55@4.2' B324-56@4.2'	A CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OUHEK:: ACIDIBASE:: ACIDIBASE:: 12-5-24 1:02can 12-5-24 1:07can	XIPH:90		
LEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for nalyses. All claims including those for negligence and any other cause whatsoever shall be proceed in the cause shall be considered.	deemed waived unless made in writing and	received by Cartinal within 30 days after completion of	in conforts		
ffiliates or successors arising out of or related to the performance of services hereunder by	g without fimitation, business interruptions, to	oss of use or loss of profits incurred by client its exheidin	doe		
Relinquished By: Date: 12-9-24	Received By:	O / / Verbal Re	sult: Yes No A	dd'I Phone #:	
Timey (3/)	Muara		are emailed. Please provide E		Dente
Relinquished By: Date:	Received By:	REMARKS	E MUNICIPALITY OF THE STATE OF	rce-com, mulizaverte	HESELICE. COM

CHECKED BY:

(Initials)

Sample Condition

Yes Yes

Cool Intact

Josie Ciempa - injinveolmen Turnaround Time: Standard

Thermometer ID #140 Correction Factor -0.6°C Bacteria (only) Sample Condition

Observed Temp. °C

Corrected Temp. °C

Cool Intact



December 26, 2024

ANDREW PARKER

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: SHAHARA STATE UNIT #008 INJ

Enclosed are the results of analyses for samples received by the laboratory on 12/18/24 13:30.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/18/2024 Sampling Date: 12/18/2024

Reported: 12/26/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: J & J INVESTMENTS

mg/kg

Sample ID: WS 24 - 04.1 @ 0-2' (H247648-01)

BTEX 8021B

DILX 0021B	ilig	rkg	Allalyze	a by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2024	ND	1.60	79.8	2.00	0.117	
Toluene*	<0.050	0.050	12/18/2024	ND	1.61	80.6	2.00	0.594	
Ethylbenzene*	<0.050	0.050	12/18/2024	ND	1.62	81.0	2.00	0.228	
Total Xylenes*	<0.150	0.150	12/18/2024	ND	4.87	81.2	6.00	0.717	
Total BTEX	<0.300	0.300	12/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/18/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2024	ND	207	104	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/18/2024	ND	211	106	200	0.667	
EXT DRO >C28-C36	<10.0	10.0	12/18/2024	ND					
Surrogate: 1-Chlorooctane	114	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/18/2024 Sampling Date: 12/18/2024

Reported: 12/26/2024 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Shalyn Rodriguez

Project Location: J & J INVESTMENTS

Sample ID: WS 24 - 04.1 @ 2.3' (H247648-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2024	ND	1.60	79.8	2.00	0.117	
Toluene*	<0.050	0.050	12/18/2024	ND	1.61	80.6	2.00	0.594	
Ethylbenzene*	<0.050	0.050	12/18/2024	ND	1.62	81.0	2.00	0.228	
Total Xylenes*	<0.150	0.150	12/18/2024	ND	4.87	81.2	6.00	0.717	
Total BTEX	<0.300	0.300	12/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/18/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2024	ND	207	104	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/18/2024	ND	211	106	200	0.667	
EXT DRO >C28-C36	<10.0	10.0	12/18/2024	ND					
Surrogate: 1-Chlorooctane	115	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Notes and Definitions

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

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: 1/ector (Bi	IL to Ti	T	Taus	1 me	415		BI	LL TO				ANALYS	S REC	QUEST	
Phone #: 575-684-7007 Fa	State: //// Zip ix #: oject Owner:	o: 8	822	ص		P.O. #	#: Dany: J JoSi ess:	3J Investme	at	(-P. DO. / M.C.)	V	ARALIO	NEC THE	5201	
Project Name: Shahasa State Un Project Location: Sampler Name: Riley Arnolo		T	NS	MATR		Phon Fax #	e #:	SAMPLING	(18271)	02150					
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	SLUDGE	OTHER:	ICE / COOL OTHER:	DATE TIME	RTEV	7211.0	Chloriche				
ω524-04.1 a ω524-04.1 a	2.3' 6	1		X			X	12-18-24 11: 05 12-18-24 11: 15	X	X	X				

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the an analyses, All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 12-18-24 Time: 1:30	Received By: Shock Bigney	All Results are emailed. Please provide Email address: Aparker a Vertex resource. Com							
Relinquished By:	Date:	Received By:	REMARKS: injinvestments Dputn. net							
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C	Cool Intact (Initials)	Turnaround Time: Standard Rush Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No No Corrected Temp. °C							

Released to Imaging: 4/30/2025 3:17:43 PM

2

Page 5 of

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



January 07, 2025

ANDREW PARKER

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: SHAHARA STATE UNIT #008 INJ

Enclosed are the results of analyses for samples received by the laboratory on 12/31/24 10:27.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/31/2024 Sampling Date: 12/27/2024

Reported: 01/07/2025 Sampling Type: Soil

Project Name: SHAHARA STATE UNIT #008 INJ Sampling Condition: Cool & Intact
Project Number: 24E-04470 Sample Received By: Tamara Oldaker

Project Location: J & J INVESTMENTS

Sample ID: BACKFILL - TOP SOIL (H247797-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	2.08	104	2.00	10.3	
Toluene*	<0.050	0.050	12/31/2024	ND	2.40	120	2.00	2.89	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	2.65	133	2.00	1.92	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	8.09	135	6.00	1.88	
Total BTEX	<0.300	0.300	12/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	136	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/31/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	233	117	200	2.08	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	214	107	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					
Surrogate: 1-Chlorooctane	86.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.0	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE ANDREW PARKER 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 12/31/2024 Reported: 01/07/2025

01/07/2025 SHAHARA STATE UNIT #008 INJ

Project Name: SHAHARA S Project Number: 24E-04470

Project Location: J & J INVESTMENTS

Sampling Date: 12/27/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BACKFILL - CALICHE (H247797-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	2.08	104	2.00	10.3	
Toluene*	<0.050	0.050	12/31/2024	ND	2.40	120	2.00	2.89	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	2.65	133	2.00	1.92	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	8.09	135	6.00	1.88	
Total BTEX	<0.300 0.300		12/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	128	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/31/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	233	117	200	2.08	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	214	107	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					
Surrogate: 1-Chlorooctane	80.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.3	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey & Keene



Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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

Celeg D. Freene

Released to Imaging: 4/30/2025 3:17:43 PM



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Vertex Resource									В	IL	L TO					ANA	LYSIS	S RE	QUE	ST	
Project Manager	: Andrew Parker							Р.	0. #	t												
Address: 310	1 Boyd Dr							Co	mp	any:	J 8	& J Inves	stments									
City: Carls		Zip	o;	882	220			Attn: Josie Ciempa Address: Call City:		Address: (
Phone #: 575-	689-7007 Fax #:												_									
Project#: 24E		er:													D (GRO/DRO/MRO)							
Project Name:	Shahara State Unit #8							St	ate:		Z	ip:			N N							
Project Location	:							Ph	one	#: 5	575	5-706-0	041		N.							
Sampler Name:	Riley Arnold	_	_						x #:						000							
FOR LAB USE ONLY				H	1	MATRI	X		PR	ESERV	*	SAMP	LING		GR							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMI	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL COTHER:		DATE	TIME	BTEX (8021)	TPH 8015 D	Chloride						
(Backfill - Top Soil	G				Χ				X	1	2/27/24	13:00	Х	Х	X						
2	Backfill - Caliche	G				X				X	1	2/27/24	13:15	Х	X	X						
		F				1	ŀ															
							İ				1											
							İ				1											
OI EASE NOTE . I INC.	Damages. Cardinal's liability and client's exclusive remedy for																					

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's acclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All clients including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion for the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of years of profits incurred by client, its subsidiaries.

Relinquished By:	Date: 12/3/ Time: 10:27	Received By: Verbal Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address: aparker@vertexresource.com jnjinvestments@pvtn.net
Relinquished By:	Date: Time:	Received By: REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. "C	Sample Condition CHECKED BY: Cool Intact (Initials) Thermometer ID 113 Correction Factor 03(C To Lz 31/24 Nc No Corrected Temp. °C

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

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 424290

QUESTIONS

Operator:	OGRID:
J & J Investments, LLC	331241
132257 Lovington Hwy	Action Number:
Loco Hills, NM 88255	424290
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites						
Incident ID (n#)	nAPP2307633795					
Incident Name	NAPP2307633795 SHAHARA STATE UNIT # 008 INJ. @ 30-025-01438					
Incident Type	Produced Water Release					
Incident Status	Reclamation Report Received					
Incident Well	[30-025-01438] SHAHARA STATE UNIT #008					

Location of Release Source						
Please answer all the questions in this group.						
Site Name	SHAHARA STATE UNIT # 008 INJ.					
Date Release Discovered	03/06/2023					
Surface Owner	State					

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Other Flow Line - Injection Produced Water Released: 100 BBL Recovered: 0 BBL Lost: 100 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Injection line leak. Going to Shahara State Unit # 008 Injection Well. This line was cut in 2021 when DCP installed their Pipeline. Pipeline had been cut into. DCP had their contractor repair cut line. They did not get a good repair on the line. This all occurred before J & J Investments, LLC acquired the Property.

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 2

Action 424290

QUESTIONS	(continued)

QUEST	ions (conunided)
Operator:	OGRID:
J & J Investments, LLC	331241
132257 Lovington Hwy	Action Number:
Loco Hills, NM 88255	424290
	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.
	diation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of sted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Josie Ciempa Title: Vice President Email: jnjinvestments@pvtn.net
	Data: 02/26/2024

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 3

Action 424290

QUESTIONS (continued)

Operator:	OGRID:
J & J Investments, LLC	331241
132257 Lovington Hwy	Action Number:
Loco Hills, NM 88255	424290
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 500 and 1000 (ft.)	
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 1000 (ft.) and ½ (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)	
A wetland	Between 500 and 1000 (ft.)	
A subsurface mine	Between 1 and 5 (mi.)	
An (non-karst) unstable area	Between 1 and 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Greater than 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	Yes	

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely 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)	16000	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0	
GRO+DRO (EPA SW-846 Method 8015M)	0	
BTEX (EPA SW-846 Method 8021B or 8260B)	0	
Benzene (EPA SW-846 Method 8021B or 8260B)	0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence	09/15/2024	
On what date will (or did) the final sampling or liner inspection occur	10/15/2024	
On what date will (or was) the remediation complete(d)	10/15/2024	
What is the estimated surface area (in square feet) that will be reclaimed	9769	
What is the estimated volume (in cubic yards) that will be reclaimed	1520	
What is the estimated surface area (in square feet) that will be remediated	9769	
What is the estimated volume (in cubic yards) that will be remediated	1520	
These estimated dates and measurements are recognized to be the best guess or calculation at the	e time of submission and may (be) change(d) over time as more remediation efforts are completed.	

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

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

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 4

Action 424290

QUESTIONS (continued)

Operator:	OGRID:
J & J Investments, LLC	331241
132257 Lovington Hwy	Action Number:
Loco Hills, NM 88255	424290
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
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	Yes
What is the name of the NMED facility	Lea Land LLC
(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

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement

Name: Andrew Parker Title: Consultant

Email: andrew@mcnabbpartners.com

Date: 08/01/2024

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.

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 5

Action 424290

QUESTIONS (continued)

Operator:	OGRID:
J & J Investments, LLC	331241
132257 Lovington Hwy	Action Number:
Loco Hills, NM 88255	424290
	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

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 6

Action 424290

QUESTIONS (continued)

Operator:	OGRID:
J & J Investments, LLC	331241
132257 Lovington Hwy	Action Number:
Loco Hills, NM 88255	424290
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	412872
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/19/2024
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	300

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	15836
What was the total volume (cubic yards) remediated	1530
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	15836
What was the total volume (in cubic yards) reclaimed	1530
Summarize any additional remediation activities not included by answers (above)	The OCD has approved the submitted Internal Manual Incident File Supporting Documentation (ENV) (IM-BNF), for incident ID (n#) nAPP2307633795, with the following conditions: • Variance request to 19.15.29.13D (1) NMAC limiting the reclamation standards to 2 feet rather than 4 based on physical conditions is approved. Attachment was provided.

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: Andrew Parker Title: Consultant Email: aparker@vertexresource.com Date: 01/23/2025
--	--

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 7

Action 424290

QUESTIONS (continued)

Operator: J & J Investments, LLC	OGRID: 331241	
132257 Lovington Hwy	Action Number:	
Loco Hills, NM 88255	424290	
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)	
QUESTIONS		
Reclamation Report		
Only answer the questions in this group if all reclamation steps have been completed.		
Requesting a reclamation approval with this submission	Yes	
What was the total reclamation surface area (in square feet) for this site	15836	
What was the total volume of replacement material (in cubic yards) for this site	1600	
	four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 ver must include a top layer, which is either the background thickness of topsoil or one foot of suitable material	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes	
On what (estimated) date will (or was) the reseeding commence(d)	03/31/2025	
Summarize any additional reclamation activities not included by answers (above)	The portion along the damaged DCP buried pipeline remains an open excavation to facilitate DCP planned repairs. Backfill material was stockpiled adjacent to the open DCP excavation. DCP is scheduled to repair their line by the end of January 2025. Upon DCP's repair, they will push-in the stockpiled backfill and contour. Final site contouring and seeding will occur late spring 2025 during the next favorable growing season.	
	eclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13	
The second of the state of the	model de la contraction de la	
to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to a water, human health or the environment. In addition, OCD acceptance of a C-141 report	knowledge and understand that pursuant to OCD rules and regulations all operators are required ses which may endanger public health or the environment. The acceptance of a C-141 report by idequately investigate and remediate contamination that pose a threat to groundwater, surface a does not relieve the operator of responsibility for compliance with any other federal, state, or ally restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed no notification to the OCD when reclamation and re-vegetation are complete.	
	Name: Andrew Parker	

Title: Consultant

Date: 01/23/2025

Email: aparker@vertexresource.com

I hereby agree and sign off to the above statement

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 424290

QUESTIONS (continued)

Operator:	OGRID:
J & J Investments, LLC	331241
132257 Lovington Hwy	Action Number:
Loco Hills, NM 88255	424290
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report		
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.		
Requesting a restoration complete approval with this submission	No	
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.		

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

CONDITIONS

Action 424290

CONDITIONS

Operator:	OGRID:
J & J Investments, LLC	331241
132257 Lovington Hwy	Action Number:
Loco Hills, NM 88255	424290
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Create By	d Condition	Condition Date
nvel	z None	4/30/2025