

Incident Number: NAPP2400529349

Incident Closure

North El Mar Unit 050 Injection Line Release Section 35, Township 26 South, Range 32 East County: Lea 32.00421, -103.65131

Vertex File Number: 24E-04576

Prepared for: Sahara Operating Company

Prepared by: Vertex Resource Services Inc.

Date: May 2025 Sahara Operating Company North El Mar Unit #50 Incident Closure May 2025

North El Mar Unit #50 Section 35, Township 26 South, Range 32 East County: Lea 32.00421, -103.65131 Vertex File Number: 24E-04576

Prepared for: Sahara Operating Company PO Box 4130 Midland, Texas 79704

New Mexico Oil Conservation Division 508 West Texas Avenue Artesia, New Mexico 88210

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

has

Andrew Parker, MGIS SENIOR PROJECT MANAGER

<u>_May 9, 2025</u>

Date

Sahara Operating Company	Incident Closure
North El Mar Unit #50	May 2025

Table of Contents

1.0	Introduction	1
2.0	Remedial Actions Taken	1
3.0	Reclamation Activities	2
4.0	Closure Request	2
5.0	Limitations	3

.

Sahara Operating Company

North El Mar Unit #50

May 2025

Page 4 of 149

List of Figures

- Figure 1. Remediation Extent with Depths
- Figure 2. Confirmation Sample Locations

List of Tables

Table 1.Confirmation Laboratory Results

List of Appendices

- Appendix A. Daily Field Reports
- Appendix B. Summary of Notifications
- Appendix C. Laboratory Data Reports and Chain of Custody Forms

1.0 Introduction

Sahara Operating Company retained Vertex Resource Services Inc. (Vertex) to conduct an Incident Closure for a produced water release that occurred on December 13, 2023, at an injection flowline along a right-of-way (ROW; hereafter referred to as the "site"). The Notification of Release was submitted to the New Mexico Oil Conservation Division (NMOCD) on January 5, 2024. Incident ID number NAPP2400529349 was assigned to this incident. The C-141 Initial was submitted to NMOCD's digital reporting system on October 28, 2024.

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) 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.

2.0 Remedial Actions Taken

Remediation efforts by Vertex personnel began on February 14, 2025, and were finalized on May 8, 2025. Vertex personnel supervised the excavation of impacted soils. Field screening for chlorides was completed to identify areas requiring additional excavation of impacted soils. Relevant Daily Field Reports documenting various phases of the remediation are presented in Appendix A.

Impacted soils were removed to a depth of 4.1 to 4.5 feet below ground surface (bgs). 2,145 cubic yards of impacted soil was transported by a licensed waste hauler and disposed of Desert Environmental waste management facility.

Notification that confirmatory samples were being collected was provided to the NMOCD and a summary of notice confirmations is included in Appendix B. The Bureau of Land Management (BLM) variance approval to proceed to backfill accepting current analytical data for vertical delineation is included in Appendix B.

Confirmatory composite samples were collected from the base and walls of the excavation to not exceed 200 square foot increments. Each sample location was a 5-point composite within the designated grid. A total of 79 samples, including five 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 is presented in Table 1, and the laboratory data reports are included in Appendix C. All confirmatory samples collected and analyzed were below closure criteria.

Sahara Operating Company
North El Mar Unit #50

Closure Criteria are defined as depth-to-water greater than 100 ft:

- Upper 4-feet
 - Chloride < 600 mg/kg</p>
 - TPH (GRO + DRO + MRO) < 100 mg/kg</p>
 - BTEX < 50 mg/kg</p>
 - Benzene < 10 mg/kg</p>
- Below 4-feet
 - Chloride < 20,000 mg/kg</p>
 - TPH (GRO + DRO + MRO) < 2,500 mg/kg</p>
 - TPH (GRO + DRO) < 1,000 mg/kg</p>
 - BTEX < 50 mg/kg</p>
 - Benzene < 10 mg/kg</p>

Base sample BS25-08 exceeded closure criteria relative to chloride at 4 feet bgs and then was successfully remediated at 4.5 feet bgs. The remainder of the samples were in compliance with closure criteria.

- Figure 1 shows remediation excavation extent with depth
- Figure 2 shows confirmation sample locations

3.0 Reclamation Activities

Following remediation activities, reclamation was completed to restore the surface to its current use as a utility ROW and pasture land in accordance with 19.15.29.13 NMAC.

The remediated areas were backfilled on April 25, 2025, with clean, non-waste containing earthen material, including a minimum of 1 ft of topsoil suitable for revegetation. The area was contoured to match the existing utility ROW and pastureland. Seeding was completed on May 8, 2025. The location was reseeded with seed mix BLM #1 Seed Mix for loamy sites. Seed was mechanically broadcasted at a rate of 40 PLS per acre and chain-dragged into place. The site will be monitored for revegetation, soil stability and noxious weeds.

4.0 Closure Request

Confirmatory samples were analyzed by the laboratory 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. Based on these findings, Sahara Operating Company 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.

Incident Closure May 2025

5.0 Limitations

This report has been prepared for the sole benefit of Sahara Operating Company. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division and the Bureau of Land Management, without the express written consent of Vertex Resource Services Inc. (Vertex) and Sahara Operating Company. 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.

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FIGURES





TABLES

Client Name: Sahara Operating Company Site Name: North El Mar Unit #50 NMOCD Tracking #:nAPP2400529349 Project #: 24E-04576 Lab Report: H251186, H251322, H251543, H251824, H251823, H251764

	Sample Descr			mrmation	Laborato	-				
	Petroleum Hydrocarbons Volatile Extractable									
Sample ID	Depth (ft)	Sample Date	eu Bu Bu (mg/kg)	atile BTEX (Total) (mg/kg)	ସୁ ଜ୍ଞି Gasoline Range Organics ଅଟି (GRO)	ය ක් Diesel Range Organics ක් (DRO)	Extractable Motor Oil Range Organics (MRO) (MRO)	(GRO + DRO) (mg/kg)	୍ଥି Total Petroleum ଅନୁ ଅନୁ Hydrocarbons (TPH)	Inorganic Chloride Concentration (mg/kg)
Base Samples										
BS25-01	4.1	February 25, 2025	ND	ND	ND	ND	ND	ND	ND	176
BS25-02	4.1	February 25, 2025	ND	ND	ND	ND	ND	ND	ND	32
BS25-03	4.1	February 25, 2025	ND	ND	ND	ND	ND	ND	ND	240
BS25-04	4.1	February 25, 2025	ND	ND	ND	ND	ND	ND	ND	3,440
BS25-05	4.1	February 25, 2025	ND	ND	ND	ND	ND	ND	ND	176
BS25-06	4.1	February 25, 2025	ND	ND	ND	ND	ND	ND	ND	32
BS25-07	4.1	February 25, 2025	ND	ND	ND	ND	ND	ND	ND	32
BS25-08	4.1	February 25, 2025	ND	ND	ND	ND	ND	ND	ND	20,000
	4.5	March 13, 2025	ND	ND	ND	ND	ND	ND	ND	4,280
BS25-09	4.1	February 25, 2025	ND	ND	ND	ND	ND	ND	ND	2,200
BS25-10	4.1	March 3, 2025	ND	ND	ND	ND	ND	ND	ND	256
BS25-11 BS25-12	4.1	February 25, 2025 February 25, 2025	ND	ND	ND	ND	ND	ND	ND	1,310
BS25-12 BS25-13	4.1	February 25, 2025	ND	ND	ND	ND	ND	ND	ND	1,150
BS25-13 BS25-14	4.1	March 3, 2025	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	7,600 2,480
BS25-14 BS25-15	4.1	February 25, 2025	ND	ND	ND	ND	ND	ND	ND	7,060
BS25-15.1	4.1	March 3, 2025	ND	ND	ND	ND	ND	ND	ND	384
BS25-16	4.1	March 3, 2025	ND	ND	ND	ND	ND	ND	ND	5,600
BS25-17	4.1	March 3, 2025	ND	ND	ND	ND	ND	ND	ND	1,490
BS25-18	4.1	March 3, 2025	ND	ND	ND	ND	ND	ND	ND	6,400
BS25-19	4.1	March 3, 2025	ND	ND	ND	ND	ND	ND	ND	4,880
BS25-20	4.1	March 3, 2025	ND	ND	ND	ND	ND	ND	ND	560
BS25-21	4.1	March 3, 2025	ND	ND	ND	ND	ND	ND	ND	5,280
BS25-22	4.1	March 3, 2025	ND	ND	ND	ND	ND	ND	ND	2,080
BS25-23	4.1	March 3, 2025	ND	ND	ND	ND	ND	ND	ND	704
BS25-24	4.1	March 3, 2025	ND	ND	ND	ND	ND	ND	ND	992
BS25-25	4.1	March 3, 2025	ND	ND	ND	ND	ND	ND	ND	2,190
BS25-26	4.1	March 13, 2025	ND	ND	ND	ND	ND	ND	ND	512
BS25-27	4.1	March 13, 2025	ND	ND	ND	ND	ND	ND	ND	2,320
BS25-28	4.1	March 13, 2025	ND	ND	ND	ND	ND	ND	ND	3,640
BS25-29	4.1	March 13, 2025	ND	ND	ND	ND	ND	ND	ND	7,600
BS25-30	4.1	March 13, 2025	ND	ND	ND	ND	ND	ND	ND	3,560
BS25-31	4.1	March 13, 2025	ND	ND	ND	ND	ND	ND	ND	6,640
BS25-32 BS25-33	4.1	March 13, 2025 March 13, 2025	ND	ND	ND	ND	ND	ND	ND	13,300
BS25-33 BS25-34	4.1	March 13, 2025 March 13, 2025	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	8,400 7,460
BS25-34	4.1	March 13, 2025	ND	ND	ND	ND	ND ND	ND	ND	6,800
BS25-35 BS25-36	4.1	March 13, 2025	ND	ND	ND	ND	ND	ND	ND	6,240
BS25-37	4.1	March 13, 2025	ND	ND	ND	ND	ND	ND	ND	2,720
BS25-38	4.1	March 13, 2025	ND	ND	ND	ND	ND	ND	ND	3,440
BS25-39	4.1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	13,900
BS25-40	4.1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	1,100
BS25-41	4.1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	8,660
BS25-42	4.1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	4,400
BS25-43	4.1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	8,000



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	Sample Descr	iption			Petrole	eum Hydro	carbons			
			Volatile Extractable							Inorganic
Sample ID	Depth (ft)	Sample Date	Benzene (mg/kg)	ଅ ଅ ଅନ୍ଥ	a Gasoline Range Organics ක් (GRO)))))))))))))))	and Motor Oil Range Organics and Motor Oil Range Organics (MRO)	(OXO + OXS) (mg/kg)	ଅ Total Petroleum ଅଧି Hydrocarbons (TPH)	m) Sy/B (faloride Concentration
	4 1	March 2E, 202E	ND	ND	ſ	1	1		ND	4 400
BS25-44	4.1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	4,400
BS25-45	4.1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	4,000
BS25-46 BS25-47	4.1	March 25, 2025 March 25, 2025	ND	ND	ND	ND	ND	ND	ND	8,000
BS25-47 BS25-48	4.1	March 25, 2025	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	144 368
BS25-49	4.1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	2,080
BS25-50	4.1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	4,000
BS25-50 BS25-51	4.1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	7,440
BS25-52	4.1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	12,200
BS25-53	4.1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	2,640
BS25-54	4.1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	8,530
BS25-55	4.1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	12,000
BS25-56	4.1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	8,660
Wall Samples									TTD .	0,000
WS25-01	0 - 4.1	February 25, 2025	ND	ND	ND	ND	ND	ND	ND	96
WS25-02	0 - 4.1	February 25, 2025	ND	ND	ND	ND	ND	ND	ND	32
WS25-03	0 - 4.1	February 25, 2025	ND	ND	ND	ND	ND	ND	ND	32
WS25-04	0 - 4.1	February 25, 2025	ND	ND	ND	ND	ND	ND	ND	128
WS25-05	0 - 4.1	March 3, 2025	ND	ND	ND	ND	ND	ND	ND	272
WS25-06	0 - 4.1	March 3, 2025	ND	ND	ND	ND	ND	ND	ND	80
WS25-07	0 - 4.1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	256
WS25-08	0 - 4.1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	544
WS25-09	0 - 4.1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	368
WS25-10	0 - 4.1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	416
WS25-11	0 - 4.1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	528
WS25-12	0-4.1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	544
WS25-13	0 - 4.1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	560
WS25-14	0 - 4.1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	432
WS25-15	0 - 4.1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	80
WS25-16	0 - 4.1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	528
Backfill	0	Fobruary 25, 2025	ND	ND	NIC		ND	ND	NID	22
SS25-01 BF-Soil	0	February 25, 2025 March 26, 2025	ND	ND	ND	ND	ND	ND	ND	32
BFNEMU-01	0	March 26, 2025 March 26, 2025	ND	ND	ND	ND	ND	ND	ND	32
BFNEMU-01	0	March 26, 2025	ND ND	ND ND	ND ND	ND	ND	ND	ND ND	48 48
BFNEMU-02	0	March 26, 2025	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	
DTW" Depth to	_	Waren 20, 2025		טא	ND			טא		32
ND" Not Detec	ted at the Rep	-								
	t analyzed/ass									
old and green	shaded indica	ites exceedance outsid	de of NMO	CD Reclama	tion Criteri	ia (off-pad)				



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APPENDIX A -Daily Field Reports



VERTEX

Page 15 of 149

Field Notes

12:10 Abandoned line was windowed/ additional line was found

12:09 NGL line was windowed in several points

14:05 Windows were caution fenced

Next Steps & Recommendations

1 Dig 25' within NGL line with representative present

2 Additional windowing of lines running parallel down center of excavation

3 Continue excavation

4 Window DCP line and NGL intersection











Site Photos Viewing Direction: North Viewing Direction: East West wall extended Continued Hydrovacing Viewing Direction: North Viewing Direction: Northeast Loading trucks Current excavation







Site Photos Viewing Direction: Southeast Viewing Direction: Northeast Looking from the northwest to the southeast Looking from the southwest northeast over over the excavation the new excavated area Viewing Direction: Northeast Viewing Direction: Northeast Hydrovacced area identified the southwest The northeast DCP line has still not been DCP line to be 8ft down identified

Run on 3/11/2025 10:56 PM UTC





Area exposed today to the southwest

Run on 3/11/2025 10:56 PM UTC





Run on 3/21/2025 11:50 PM UTC



VERTEX



Remediation Site Photos



APPENDIX B – Summary of Notifications

Appendix B. NMOCD Notification Summary BLM Variance Approval to Proceed with backfilling.

Incident Events Reproduced from NMOCD Digital Reporting

Date	Detail
03/20/2025	The (03/20/2025, C-141N) application [444427] was assigned to this incident.
03/11/2025	60-day time extension request is approved. Remediation Due date updated to May 9, 2025. Email submitted on 3/7/2025 from third party stated, "On the behalf of Sahara Operating, Vertex Resource Services, submits the attached extension request for the North El Mar Unit #50 release (nAPP2400529349). Three unmarked buried pipelines were discovered during line spotting activities. Working around the unmarked buried pipelines has significantly reduced the time required to complete the remediation. The closure report is due March 10, 2025. The proposed due date is May 9, 2025".
03/10/2025	The (03/10/2025, C-141N) application [440777] was assigned to this incident.
02/27/2025	The (02/27/2025, C-141N) application [436706] was assigned to this incident.
02/21/2025	The (02/21/2025, C-141N) application [434162] was assigned to this incident.
12/10/2024	App ID 407211: The remediation plan is approved as written. Sahara Operating has 90-days (March 10, 2025) to submit to OCD its appropriate or final remediation closure report.
12/10/2024	The (12/10/2024, C-141) application [407211] was accepted by OCD. The operator was emailed with details of this event.
12/10/2024	An application [407211] was submitted to OCD for review. It was submitted, indicating that it was an: [C-141] Application for administrative approval of a release notification and corrective action The operator was emailed confirmation of this event.
11/27/2024	The (12/10/2024, C-141) application [407211] was assigned to this incident.
10/28/2024	60-day time extension is approved. Remediation Due date updated to December 27, 2024.
10/28/2024	The (10/28/2024, C-141) application [<u>396040</u>] was accepted by OCD. The operator was emailed with details of this event.
10/28/2024	An application [<u>396040</u>] was submitted to OCD for review. It was submitted, indicating that it was an: [C-141] Application for administrative approval of a release notification and corrective action The operator was emailed confirmation of this event.
10/26/2024	The (10/28/2024, C-141) application [<u>396040</u>] was assigned to this incident.
01/05/2024	The (01/05/2024, NOR) application [299535] was assigned to this incident.

Date	Detail
01/05/2024	New incident created by the operator, upon the submission of notification of release.
12/13/2023	Release discovered by the operator.

From:	Morgan, Crisha A
To:	Andrew Parker; Amos, James A; Morgan, Crisha A
Cc:	rob@saharaoper.com
Subject:	Re: [EXTERNAL] FW: Sahara Operating NEMU 50 Remediation Plan
Date:	Tuesday, April 8, 2025 6:47:12 AM
Attachments:	image002.png
	Outlook-pdrc3rc1.png
	Outlook-parimgmz.png

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Bureau of Land Management



The request for backfill for Sahara Operating NEMU 50 has been approved from the BLM as of 04/08/2025. More extensive work may be required during future major construction/alteration or final plugging and abandonment. Please keep in mind going forward, that BLM's #1 requirement for spills is complete vertical and horizontal delineation. As the NMOCD has already approved closure and your karst survey came back with negative results, the BLM approves a variance for the complete delineation and accepts the current analytical data.

The **BLM acceptance/approval does not** relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws/regulations.

If you have any questions or concerns, please let me know. Have a great day!

Crisha A. Morgan |Certified - Environmental Protection Specialist | Program Officer |COR | Spills Coordinator | Orphaned & Idled Well POC Lead Bureau of Land Management | Carlsbad Field Office 620 E. Greene Street Carlsbad, NM 88220 Cell 575-200-8648 | Office 575-234-5987 |camorgan@blm.gov



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From: Andrew Parker <aparker@vertexresource.com>
Sent: Wednesday, April 2, 2025 11:21 AM
To: Amos, James A <jamos@blm.gov>
Cc: Morgan, Crisha A <camorgan@blm.gov>; rob@saharaoper.com <rob@saharaoper.com>
Subject: [EXTERNAL] FW: Sahara Operating NEMU 50 Remediation Plan



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Jim,

Per our phone conversation, the North El Mar Unit #50 is one of two locations ready to be backfilled. As referenced in the below email, the first notification to BLM was on December 18th. A review of Vertex files has no response correspondence from the BLM. Sampling notifications were also submitted. Please advise if I need to change my correspondence methods.

We respectfully ask for BLM's approval to proceed with backfilling without vertical delineation to the most stringent NMOCD closure criteria per Table 1 of 19.15.29 NMAC. The location is in medium karst potential and is located in Sec 35; T26S. R32E. The attached map shows the excavation extent and sample locations. Also attached is a table of analytical results. Prior to excavation, we performed an EM Survey and an on-site assessment and did not observe karst or collapse features.

The NMOCD approved chloride closure criteria concentrations at <20,000 mg/kg below 4-feet (see attached). One base sample (BS25-08) at the southwestern extent exhibited 20,000 mg/kg at 4-feet below ground surface (bgs). In this area we excavated to 4.5-feet bgs and chloride exhibited 4,280 mg/kg. The remaining excavation area is at a 4-foot depth with all base samples below NMOCD approved closure criteria concentrations. Wall samples for horizontal delineation meet the most stringent closure criteria.

Three unmarked pipelines (photo below) transected the remediation from the southwest to the northeast. Remediation required extensive hydrovac activities.



Photos of unmarked pipelines; viewing southwest.

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

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From: Andrew Parker
Sent: Monday, February 3, 2025 5:02 PM
To: blm_nm_cfo_spill@blm.gov
Cc: Amos, James <jamos@blm.gov>; Chad Hensley <CHensley@vertexresource.com>
Subject: FW: Sahara Operating NEMU 50 Remediation Plan

BLM,

Vertex respectfully asks the BLM for review and approval of the attached remediation plan originally submitted on December 18, 2024. A Cultural Survey found no areas of cultural interest near the proposed remediation area. Work is anticipated to begin next week.

Thank you,

Andrew Parker

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

P 575.689.7007

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From: Andrew Parker
Sent: Wednesday, December 18, 2024 4:00 PM
To: blm_nm_cfo_spill@blm.gov
Cc: Martinez-Colon, Jose F <jfmartinezcolon@blm.gov>
Subject: Sahara Operating NEMU 50 Remediation Plan

BLM,

For BLMs approval, attached is the remediation plan for NMOCD Incident # NAPP2400529349. NMOCD approved the remediation plan on December 10, 2024. We are conducting a Cultural Properties review and will revise the remediation plan if survey results show any conflicts. Remedial activities will commence mid-January.

Please contact me with any questions,

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

P 575.689.7007

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From: OCDOnline@state.nm.us <OCDOnline@state.nm.us> Sent: Tuesday, December 10, 2024 11:14 AM

To: Andrew Parker <a>aparker@vertexresource.com>

Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 407211

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To whom it may concern (c/o Andrew Parker for SAHARA OPERATING CO), The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2400529349, with the following conditions:

• The remediation plan is approved as written. Sahara Operating has 90-days (March 10, 2025) 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 <u>Nelson.Velez@emnrd.nm.gov</u> **New Mexico Energy, Minerals and Natural Resources Department**

1220 South St. Francis Drive Santa Fe, NM 87505 **APPENDIX C – Laboratory Data Report and Chain of Custody Form**



March 06, 2025

ANDREW PARKER

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: NORTH EL MAR 50

Enclosed are the results of analyses for samples received by the laboratory on 02/27/25 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceg.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	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220	Project Number:	ANDREW PARKER	Reported: 06-Mar-25 18:06
--	-----------------	---------------	------------------------------

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BS 25 - 12 4.1'	H251186-01	Soil	25-Feb-25 13:00	27-Feb-25 14:00
BS 25 - 13 4.1'	H251186-02	Soil	25-Feb-25 13:30	27-Feb-25 14:00
BS 25 - 15 4.1'	H251186-03	Soil	25-Feb-25 14:00	27-Feb-25 14:00
BS 25 - 16 4.1'	H251186-04	Soil	25-Feb-25 14:30	27-Feb-25 14:00
BS 25 - 17 4.1'	H251186-05	Soil	25-Feb-25 15:00	27-Feb-25 14:00
BS 25 - 18 4.1'	H251186-06	Soil	25-Feb-25 15:30	27-Feb-25 14:00
BS 25 - 19 4.1'	H251186-07	Soil	25-Feb-25 16:00	27-Feb-25 14:00
WS 25 - 01 0-4.1'	H251186-08	Soil	25-Feb-25 16:30	27-Feb-25 14:00
WS 25 - 02 0-4.1'	H251186-09	Soil	25-Feb-25 17:00	27-Feb-25 14:00
WS 25 - 03 0-4.1'	H251186-10	Soil	25-Feb-25 17:30	27-Feb-25 14:00
BS 25 - 01 4.1'	H251186-11	Soil	25-Feb-25 08:00	27-Feb-25 14:00
BS 25 - 02 4.1'	H251186-12	Soil	25-Feb-25 08:30	27-Feb-25 14:00
BS 25 - 03 4.1'	H251186-13	Soil	25-Feb-25 09:00	27-Feb-25 14:00
BS 25 - 04 4.1'	H251186-14	Soil	25-Feb-25 09:30	27-Feb-25 14:00
BS 25 - 05 4.1'	H251186-15	Soil	25-Feb-25 10:00	27-Feb-25 14:00
BS 25 - 06 4.1'	H251186-16	Soil	25-Feb-25 10:30	27-Feb-25 14:00
BS 25 - 07 4.1'	H251186-17	Soil	25-Feb-25 11:00	27-Feb-25 14:00
BS 25 - 08 4.1'	H251186-18	Soil	25-Feb-25 11:30	27-Feb-25 14:00
BS 25 - 09 4.1'	H251186-19	Soil	25-Feb-25 12:00	27-Feb-25 14:00
BS 25 - 11 4.1'	H251186-20	Soil	25-Feb-25 12:30	27-Feb-25 14:00
WS 25 - 04 0-4.1'	H251186-21	Soil	25-Feb-25 18:00	27-Feb-25 14:00
SS 25 - 01 0'	H251186-22	Soil	25-Feb-25 18:30	27-Feb-25 14:00

03/06/25 - Client changed the sample IDs on -01 thru -07 (see COC). This is the revised report and will replace the one sent on 03/05/25.

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220	Project: NORTH EL MAR 50 Project Number: 24E - 04576 Project Manager: ANDREW PARKER Fax To: NA							C	Reported: 06-Mar-25 18:06		
BS 25 - 12 4.1' H251186-01 (Soil)											
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	tories						
Inorganic Compounds											
Chloride	1150		16.0	mg/kg	4	5030316	CT	03-Mar-25	4500-Cl-B		
Volatile Organic Compounds by	EPA Method	8021									
Benzene*	< 0.050		0.050	mg/kg	50	5030304	ЛН	03-Mar-25	8021B		
Toluene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B		
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5030304	ЛН	03-Mar-25	8021B		
Total Xylenes*	< 0.150		0.150	mg/kg	50	5030304	JH	03-Mar-25	8021B	QM-07	
Total BTEX	< 0.300		0.300	mg/kg	50	5030304	ЛН	03-Mar-25	8021B		
Surrogate: 4-Bromofluorobenzene (PID)			95.5 %	71.5	-134	5030304	JH	03-Mar-25	8021B		
Petroleum Hydrocarbons by GC	FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B		
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B		
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B		
Surrogate: 1-Chlorooctane			97.1 %	71.8	-148	5030305	MS	03-Mar-25	8015B		
Surrogate: 1-Chlorooctadecane			95.5 %	63.9	-155	5030305	MS	03-Mar-25	8015B		

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220		Project: NORTH EL MAR 50 Project Number: 24E - 04576 Project Manager: ANDREW PARKER Fax To: NA								Reported: 06-Mar-25 18:06		
BS 25 - 13 4.1' H251186-02 (Soil)												
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes		
			Cardina	l Laborat	ories							
Inorganic Compounds												
Chloride	7600		16.0	mg/kg	4	5030316	CT	03-Mar-25	4500-Cl-B			
Volatile Organic Compounds	by EPA Method 8	021										
Benzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B			
Toluene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B			
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B			
Total Xylenes*	< 0.150		0.150	mg/kg	50	5030304	JH	03-Mar-25	8021B			
Total BTEX	< 0.300		0.300	mg/kg	50	5030304	ЛН	03-Mar-25	8021B			
Surrogate: 4-Bromofluorobenzene (PID)		94.7 %	6 71.5-134		5030304	JH	03-Mar-25	8021B				
Petroleum Hydrocarbons by	GC FID											
GRO C6-C10*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B			
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B			
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B			
Surrogate: 1-Chlorooctane			95.7%	71.8	-148	5030305	MS	03-Mar-25	8015B			
Surrogate: 1-Chlorooctadecane			92.7 %	63.9	-155	5030305	MS	03-Mar-25	8015B			

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220		Project:NORTH EL MAR 50RepProject Number:24E - 0457606-MaProject Manager:ANDREW PARKERFax To:NA								06	
BS 25 - 15 4.1' H251186-03 (Soil)											
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	tories						
Inorganic Compounds											
Chloride	7060		16.0	mg/kg	4	5030316	CT	03-Mar-25	4500-Cl-B		
Volatile Organic Compounds	s by EPA Method 8	021									
Benzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B		
Toluene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B		
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B		
Total Xylenes*	< 0.150		0.150	mg/kg	50	5030304	JH	03-Mar-25	8021B		
Total BTEX	< 0.300		0.300	mg/kg	50	5030304	ЛН	03-Mar-25	8021B		
Surrogate: 4-Bromofluorobenzene (PID)		95.6 %	95.6% 71.5-134		5030304	ЈН	03-Mar-25	8021B			
Petroleum Hydrocarbons by	GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B		
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B		
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B		
Surrogate: 1-Chlorooctane			98.9 %	71.8	-148	5030305	MS	03-Mar-25	8015B		
Surrogate: 1-Chlorooctadecane			94.9 %	63.9	-155	5030305	MS	03-Mar-25	8015B		

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Celey D. Keene, Lab Director/Quality Manager


VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220			Project Num Project Mana	ber: 24E				0	Reported: 6-Mar-25 18:	06
				5 - 16 4. 186-04 (So	-					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	5600		16.0	mg/kg	4	5030316	CT	03-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 80	021								
Benzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5030304	ЛН	03-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PII))		94.4 %	71.5	-134	5030304	JH	03-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctane			98.1 %	71.8	-148	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			94.2 %	63.9	-155	5030305	MS	03-Mar-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220			Project Num Project Mana	ber: 24E				C	Reported: 6-Mar-25 18:	06
			-~-	5 - 17 4. 186-05 (Se	-					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	1490		16.0	mg/kg	4	5030316	СТ	03-Mar-25	4500-Cl-B	
Volatile Organic Compounds by	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5030304	ЛН	03-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5030304	ЛН	03-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5030304	ЛН	03-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5030304	ЛН	03-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5030304	ЛН	03-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			94.0 %	71.5	-134	5030304	JH	03-Mar-25	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctane			<i>98.9 %</i>	71.8	-148	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			93.9 %	63.9	-155	5030305	MS	03-Mar-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager



VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220			Project Num Project Mana	ber: 24E				0	Reported: 6-Mar-25 18:	06
				5 - 18 4. 186-06 (So	-					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	6400		16.0	mg/kg	4	5030316	CT	03-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 80	21								
Benzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5030304	ЛН	03-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		95.9 %	71.5	-134	5030304	JH	03-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctane			95.0 %	71.8	-148	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			92.3 %	63.9	-155	5030305	MS	03-Mar-25	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220			Project Num Project Mana	ber: 24E				C	Reported: 06-Mar-25 18:	06
			-~-	5 - 19 4 186-07 (Se	-					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
<u>Inorganic Compounds</u> Chloride	4880		16.0	mg/kg	4	5030316	СТ	03-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5030304	ЛН	03-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5030304	ЈН	03-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		97.4 %	71.5	-134	5030304	ЛН	03-Mar-25	8021B	
Petroleum Hydrocarbons by (GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctane			72.1 %	71.8	-148	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			69.3 %	63.9	-155	5030305	MS	03-Mar-25	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220			Project Num Project Mana	ber: 24E				C	Reported: 06-Mar-25 18:	06
				5 - 01 0- 186-08 (So						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	96.0		16.0	mg/kg	4	5030316	CT	03-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5030304	ЛН	03-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5030304	ЛН	03-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		96.0 %	71.5	-134	5030304	ЈН	03-Mar-25	8021B	
Petroleum Hydrocarbons by (GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctane			94.6 %	71.8	-148	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			90.1 %	63.9	-155	5030305	MS	03-Mar-25	8015B	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220			Project Num Project Mana	ber: 24E				C	Reported: 6-Mar-25 18:0	06
				5 - 02 0- 186-09 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5030316	CT	03-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 80	021								
Benzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5030304	ЛН	03-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		96.1 %	71.5	-134	5030304	ЛН	03-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctane			95.3 %	71.8	-148	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			91.4 %	63.9	-155	5030305	MS	03-Mar-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager



VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220			Project Num Project Mana	ber: 24E				C	Reported: 6-Mar-25 18:	06
				5 - 03 0- 186-10 (Sc						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5030316	CT	03-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 80	21								
Benzene*	< 0.050		0.050	mg/kg	50	5030304	ЛН	03-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		95.0 %	71.5	-134	5030304	ЈН	03-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctane			98.6 %	71.8	-148	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			93.9 %	63.9	-155	5030305	MS	03-Mar-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager



VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220			Project Num Project Mana	ber: 24E				0	Reported: 6-Mar-25 18:0	06
				5 - 01 4. 186-11 (So	-					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	176		16.0	mg/kg	4	5030316	СТ	03-Mar-25	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			95.0 %	71.5	-134	5030304	ЛН	03-Mar-25	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctane			90.7 %	71.8	-148	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			84.7 %	63.9	-155	5030305	MS	03-Mar-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220			Project Num Project Mana	ber: 24E				C	Reported: 06-Mar-25 18:	06
			-~-	5 - 02 4. 186-12 (Se	-					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	32.0		16.0	mg/kg	4	5030316	СТ	03-Mar-25	4500-Cl-B	
Volatile Organic Compounds by	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5030304	ЛН	03-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5030304	ЈН	03-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5030304	ЈН	03-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5030304	ЛН	03-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5030304	ЛН	03-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			96.6 %	71.5	-134	5030304	ЛН	03-Mar-25	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctane			91.0 %	71.8	-148	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			84.3 %	63.9	-155	5030305	MS	03-Mar-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220			Project Num Project Mana	ber: 24E				C	Reported: 06-Mar-25 18:	06
				5 - 03 4. 186-13 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	240		16.0	mg/kg	4	5030316	СТ	03-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5030304	ЛН	03-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5030304	ЈН	03-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		96.1 %	71.5	-134	5030304	ЛН	03-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctane			97.6 %	71.8	-148	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			93.5 %	63.9	-155	5030305	MS	03-Mar-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager



VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220			Project Num Project Mana	ber: 24E				C	Reported: 06-Mar-25 18:	06
				5 - 04 4. 186-14 (So	-					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	3440		16.0	mg/kg	4	5030316	СТ	03-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	5030304	ЛН	03-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5030304	ЛН	03-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		96.7 %	71.5	-134	5030304	ЛН	03-Mar-25	8021B	
Petroleum Hydrocarbons by (GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctane			99.2 %	71.8	-148	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			96.3 %	63.9	-155	5030305	MS	03-Mar-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220			Project Num Project Mana	ber: 24E				C	Reported: 06-Mar-25 18:	06
				5 - 05 4. 186-15 (Se	-					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
<u>Inorganic Compounds</u> Chloride	176		16.0	mg/kg	4	5030316	CT	03-Mar-25	4500-Cl-B	
Volatile Organic Compounds by	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5030304	ЛН	03-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5030304	ЈН	03-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			96.1 %	71.5	-134	5030304	JH	03-Mar-25	8021B	
Petroleum Hydrocarbons by GO	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctane			98.5 %	71.8	-148	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			94.3 %	63.9	-155	5030305	MS	03-Mar-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220	Project: NORTH EL MAR 50 Reported: Project Number: 24E - 04576 06-Mar-25 18:06 Project Manager: ANDREW PARKER Fax To: NA								06	
				5 - 06 4. 186-16 (So	-					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	32.0		16.0	mg/kg	4	5030310	AC	03-Mar-25	4500-Cl-B	
Volatile Organic Compounds by	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			96.0 %	71.5	-134	5030304	JH	03-Mar-25	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctane			94.8 %	71.8	-148	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			89.0 %	63.9	-155	5030305	MS	03-Mar-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220	Project:NORTH EL MAR 50Reported:Project Number:24E - 0457606-Mar-25 18:06Project Manager:ANDREW PARKERFax To:NA								06	
				5 - 07 4. 186-17 (Se	-					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds Chloride	32.0		16.0	mg/kg	4	5030310	AC	03-Mar-25	4500-Cl-B	
Volatile Organic Compounds by		8021	10.0		·	2020210		00 mm 20	1000 01 2	
Benzene*	<0.050	0021	0.050	mg/kg	50	5030304	ЛН	03-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5030304	Л	03-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5030304	ЛН	03-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5030304	ЛН	03-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.1 %	71.5	-134	5030304	ЈН	03-Mar-25	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctane			95.1 %	71.8	-148	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			89.6 %	63.9	-155	5030305	MS	03-Mar-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220	Project:NORTH EL MAR 50Reported:Project Number:24E - 0457606-Mar-25 18:06Project Manager:ANDREW PARKERFax To:NA								06	
			-~-	5 - 08 4. 186-18 (Se	-					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds	•••••		16.0	4		5020210	10	02.14	4500 CL D	
Chloride	20000		16.0	mg/kg	4	5030310	AC	03-Mar-25	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			96.9 %	71.5	-134	5030304	ЛН	03-Mar-25	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctane			93.2 %	71.8	-148	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			91.5 %	63.9	-155	5030305	MS	03-Mar-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220									Reported: 06-Mar-25 18:	06
				5 - 09 4. 186-19 (Se	-					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	2200		16.0	mg/kg	4	5030310	AC	03-Mar-25	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5030304	ЛН	03-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			96.4 %	71.5	-134	5030304	JH	03-Mar-25	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctane			95.9 %	71.8	-148	5030305	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			92.7 %	63.9	-155	5030305	MS	03-Mar-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220	Project:NORTH EL MAR 50Reported:Project Number:24E - 0457606-Mar-25 18:06Project Manager:ANDREW PARKERFax To:NA								06	
				5 - 11 4. 186-20 (Se	-					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	1310		16.0	mg/kg	4	5030310	AC	03-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5030304	JH	03-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5030304	ЛН	03-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		96.6 %	71.5	-134	5030304	ЛН	03-Mar-25	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5030305	MS	04-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5030305	MS	04-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5030305	MS	04-Mar-25	8015B	
Surrogate: 1-Chlorooctane			95.4 %	71.8	-148	5030305	MS	04-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			88.9 %	63.9	-155	5030305	MS	04-Mar-25	8015B	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220	Project:NORTH EL MAR 50Reported:Project Number:24E - 0457606-Mar-25 18:06Project Manager:ANDREW PARKERFax To:NA								06	
				5 - 04 0- 186-21 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	128		16.0	mg/kg	4	5030310	AC	03-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5030319	JH	04-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5030319	JH	04-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5030319	JH	04-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5030319	ЛН	04-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5030319	ЈН	04-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		107 %	71.5	-134	5030319	ЈН	04-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5030306	MS	03-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5030306	MS	03-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5030306	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctane			93.9 %	71.8	-148	5030306	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			99.6 %	63.9	-155	5030306	MS	03-Mar-25	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220	Project:NORTH EL MAR 50Reported:Project Number:24E - 0457606-Mar-25 18:06Project Manager:ANDREW PARKERFax To:NA								06	
				25 - 01 (186-22 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
<u>Inorganic Compounds</u> Chloride	32.0		16.0	mg/kg	4	5030310	AC	03-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5030319	ЛН	04-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5030319	ЛН	04-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5030319	ЛН	04-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5030319	JH	04-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5030319	ЛН	04-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		107 %	71.5	-134	5030319	JH	04-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5030306	MS	03-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5030306	MS	03-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5030306	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctane			101 %	71.8	8-148	5030306	MS	03-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			110 %	63.9	-155	5030306	MS	03-Mar-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager



Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5030310 - 1:4 DI Water										
Blank (5030310-BLK1)				Prepared &	& Analyzed:	03-Mar-25				
Chloride	ND	16.0	mg/kg							
LCS (5030310-BS1)				Prepared &	& Analyzed:	03-Mar-25				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (5030310-BSD1)				Prepared &	& Analyzed:	03-Mar-25				
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
Batch 5030316 - 1:4 DI Water										
Blank (5030316-BLK1)				Prepared &	& Analyzed:	03-Mar-25				
Chloride	ND	16.0	mg/kg							
LCS (5030316-BS1)				Prepared &	& Analyzed:	03-Mar-25				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (5030316-BSD1)				Prepared & Analyzed: 03-Mar-25						
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	

Cardinal Laboratories

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220	Project Number:	ANDREW PARKER	Reported: 06-Mar-25 18:06
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5030304 - Volatiles										
Blank (5030304-BLK1)				Prepared &	Analyzed:	03-Mar-25				
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		95.0	71.5-134			
LCS (5030304-BS1)				Prepared &	Analyzed:	03-Mar-25				
Benzene	1.95	0.050	mg/kg	2.00		97.4	82.8-130			
Toluene	2.04	0.050	mg/kg	2.00		102	86-128			
Ethylbenzene	1.98	0.050	mg/kg	2.00		98.9	85.9-128			
m,p-Xylene	3.88	0.100	mg/kg	4.00		97.0	89-129			
o-Xylene	1.94	0.050	mg/kg	2.00		96.9	86.1-125			
Total Xylenes	5.82	0.150	mg/kg	6.00		97.0	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0463		mg/kg	0.0500		92.6	71.5-134			
LCS Dup (5030304-BSD1)				Prepared &	Analyzed:	03-Mar-25				
Benzene	1.95	0.050	mg/kg	2.00		97.5	82.8-130	0.197	15.8	
Toluene	2.05	0.050	mg/kg	2.00		103	86-128	0.699	15.9	
Ethylbenzene	2.01	0.050	mg/kg	2.00		100	85.9-128	1.47	16	
m,p-Xylene	3.93	0.100	mg/kg	4.00		98.3	89-129	1.31	16.2	
o-Xylene	1.97	0.050	mg/kg	2.00		98.4	86.1-125	1.52	16.7	
Total Xylenes	5.90	0.150	mg/kg	6.00		98.3	88.2-128	1.38	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0466		mg/kg	0.0500		93.1	71.5-134			

Batch 5030319 - Volatiles

Blank (5030319-BLK1)			Prepared: 03-Mar-25 Analyzed: 04-Mar-25
Benzene	ND	0.050	mg/kg
Toluene	ND	0.050	mg/kg
Ethylbenzene	ND	0.050	mg/kg
Total Xylenes	ND	0.150	mg/kg

Cardinal Laboratories

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220	Project: NORTH EL MAR 50 Project Number: 24E - 04576 Project Manager: ANDREW PARKER Fax To: NA	Reported: 06-Mar-25 18:06
	Fax To: NA	

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5030319 - Volatiles										
Blank (5030319-BLK1)				Prepared: ()3-Mar-25 A	Analyzed: (04-Mar-25			
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0536		mg/kg	0.0500		107	71.5-134			
LCS (5030319-BS1)				Prepared: ()3-Mar-25 A	Analyzed: (04-Mar-25			
Benzene	1.86	0.050	mg/kg	2.00		93.2	82.8-130			
Toluene	2.00	0.050	mg/kg	2.00		100	86-128			
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	85.9-128			
m,p-Xylene	4.29	0.100	mg/kg	4.00		107	89-129			
o-Xylene	2.03	0.050	mg/kg	2.00		102	86.1-125			
Total Xylenes	6.32	0.150	mg/kg	6.00		105	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0517		mg/kg	0.0500		103	71.5-134			
LCS Dup (5030319-BSD1)				Prepared: (3-Mar-25 A	Analyzed: (04-Mar-25			
Benzene	1.92	0.050	mg/kg	2.00		96.0	82.8-130	3.03	15.8	
Toluene	2.05	0.050	mg/kg	2.00		103	86-128	2.48	15.9	
Ethylbenzene	2.10	0.050	mg/kg	2.00		105	85.9-128	2.59	16	
m,p-Xylene	4.42	0.100	mg/kg	4.00		111	89-129	3.14	16.2	
o-Xylene	2.09	0.050	mg/kg	2.00		104	86.1-125	2.76	16.7	
Total Xylenes	6.51	0.150	mg/kg	6.00		109	88.2-128	3.01	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0508		mg/kg	0.0500		102	71.5-134			

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220	Project Number:	ANDREW PARKER	Reported: 06-Mar-25 18:06
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal	Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5030305 - General Prep - Organics										
Blank (5030305-BLK1)				Prepared &	Analyzed:	03-Mar-25	5			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	50.3		mg/kg	50.0		101	71.8-148			
Surrogate: 1-Chlorooctadecane	49.1		mg/kg	50.0		98.2	63.9-155			
LCS (5030305-BS1)				Prepared &	Analyzed:	03-Mar-25	5			
GRO C6-C10	192	10.0	mg/kg	200		96.2	81.5-123			
DRO >C10-C28	185	10.0	mg/kg	200		92.4	77.7-122			
Total TPH C6-C28	377	10.0	mg/kg	400		94.3	80.9-121			
Surrogate: 1-Chlorooctane	53.0		mg/kg	50.0		106	71.8-148			
Surrogate: 1-Chlorooctadecane	53.0		mg/kg	50.0		106	63.9-155			
LCS Dup (5030305-BSD1)				Prepared &	z Analyzed:	03-Mar-25	5			
GRO C6-C10	200	10.0	mg/kg	200		100	81.5-123	4.08	13	
DRO >C10-C28	192	10.0	mg/kg	200		96.0	77.7-122	3.84	15.6	
Total TPH C6-C28	392	10.0	mg/kg	400		98.1	80.9-121	3.96	18.5	
Surrogate: 1-Chlorooctane	56.5		mg/kg	50.0		113	71.8-148			
Surrogate: 1-Chlorooctadecane	55.8		mg/kg	50.0		112	63.9-155			
Batch 5030306 - General Prep - Organics										
Blank (5030306-BLK1)				Prepared &	Analyzed:	03-Mar-25	5			
CBO CC C10	ND	10.0								

Blank (5030306-BLK1)				Prepared & Anal	yzed: 03-Mar-25	5	
GRO C6-C10	ND	10.0	mg/kg				
DRO >C10-C28	ND	10.0	mg/kg				
EXT DRO >C28-C36	ND	10.0	mg/kg				
Surrogate: 1-Chlorooctane	56.1		mg/kg	50.0	112	71.8-148	
Surrogate: 1-Chlorooctadecane	60.9		mg/kg	50.0	122	63.9-155	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager



VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220	Project: Project Number: Project Manager: Fax To:	ANDREW PARKER	Reported: 06-Mar-25 18:06
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5030306 - General Prep - Organics										
LCS (5030306-BS1)				Prepared &	Analyzed:	03-Mar-25	i			
GRO C6-C10	198	10.0	mg/kg	200		99.1	81.5-123			
DRO >C10-C28	206	10.0	mg/kg	200		103	77.7-122			
Total TPH C6-C28	405	10.0	mg/kg	400		101	80.9-121			
Surrogate: 1-Chlorooctane	57.4		mg/kg	50.0		115	71.8-148			
Surrogate: 1-Chlorooctadecane	60.4		mg/kg	50.0		121	63.9-155			
LCS Dup (5030306-BSD1)				Prepared &	Analyzed:	03-Mar-25	i			
GRO C6-C10	200	10.0	mg/kg	200		99.9	81.5-123	0.840	13	
DRO >C10-C28	210	10.0	mg/kg	200		105	77.7-122	1.82	15.6	
Total TPH C6-C28	410	10.0	mg/kg	400		103	80.9-121	1.34	18.5	
Surrogate: 1-Chlorooctane	59.4		mg/kg	50.0		119	71.8-148			
Surrogate: 1-Chlorooctadecane	63.9		mg/kg	50.0		128	63.9-155			

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

- a doratories 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 31 of 33



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

Received by OCD: 5/9/2025 10:05:43 AM

Britler Torona BILL TO ANALYSIS REQUEST Project Manager: And frew Fax 8: Company Write Project Manager: And frew Fax 8: Company Write Project Manager: North C Manager: Address: Project Manager: North C Fax 8: Company Write Project Manager: North C Manager: Company Write Project Manager: North C Manager: Company Write Project Manager: North C Fax 8: Company Write Project Manager: North C Fax 8: Company Write BS2 5-01 H,1 (G) ADDREATER North C South C BS2 5-02 H,1 (G) ADDREATER North C South C South C BS2 5-03 H,1 (G) ADDREATER North C South C South C South C BS2 5-03 H,1 (G) ADDREATER North C South C South C South C
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Page 32 of 33

2013

Received by OCD: 5/9/2025 10:05:43 AM

Relinquished By: Relinquished By: PLEASE NOTE: Liability and Damages. Cardin analyses. All claims including those for negliger service. In no event shall Cardinal be liable for i Sampler - UPS - Bus - Other: Delivered By: (Circle One) Project Name: North E Project #: 248-64576 City: H25 1184 Project Location: Phone #: Project Manager: Sampler Name: Address: Company Name: FOR LAB USE ONLY Lab I.D. 5525-01 WS25-04 101 East Marland, Hobbs, NM 88240 aboratories (575) 393-2326 FAX (575) 393-2476 KATRINA Andrew Nertex resource Sample I.D. Corrected Temp. °C Observed Temp. °C MAR particip Date: 2/27 Date: Time: Time: † Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinalabsm.com TAYLOR Fax #: Project Owner: 0-4.1 State: 0 1400 and a 50 ver shall be deemed ody for Group 4 A Ś **Received By** Zip: Received/By: (G)RAB OR (C)OMP arceng whether based in contract or tort, whall be limited to the amount paid waived unless made in writing and received by Cardinal within 30 days after products of the second second by Cardinal within 30 days after the second sec # CONTAINERS GROUNDWATER Hes Yes Cool business Sample Condition WASTEWATER K × SOIL MATRIX Intact OIL blons, loss of use, or loss of ract or lon, SLUDGE OTHER Fax #: State: City: P.O. #: Phone #: Attn: Company: Address: ACID/BASE PRESERV CHECKED BY: ICE / COOL (Initials) OTHER BILL TO Ventex Zip: 20 2/25 5 DATE SAMPLING by client, its subsidiaries lile paid by the client for the REMARKS: @ Ventex resource. Com & Katma. Taylor @ Ventex ca Turnaround Time: All Results are emailed. Please provide Email address: Correction Factor -0.5°C +0, 3°C Verbal Result: 18:20 CHAIN-OF-CUSTODY AND ANALYSIS REQUEST TIME tion of the applicable 4× Chlorides □ Yes GRO, DRO BTGY FX , MRO Standard FX ON O Add'l Phone #: ANALYSIS Cool Intact Bacteria (only) Sample Condition REQUEST Observed Temp. °C Corrected Temp. °C

Page 64 of 149

Page 33 of 33



March 12, 2025

ANDREW PARKER

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: NORTH EL MAR 50

Enclosed are the results of analyses for samples received by the laboratory on 03/06/25 14:30.

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.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		VERTEX RE ANDREW F 3101 BOYE CARLSBAD	PARKER		
		Fax To:	NA		
Received:	03/06/2025			Sampling Date:	03/03/2025
Reported:	03/12/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Tamara Oldaker
Project Location:	SAHARA OPERATING	3			

Sample ID: BS 25 - 10 4.1 (H251322-01)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	03/07/2025	ND	1.93	96.5	2.00	0.603	QM-07
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	0.428	QM-07
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.06	103	2.00	1.18	QM-07
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.21	103	6.00	1.32	QM-07
Total BTEX	<0.300	0.300	03/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	256	16.0	03/07/2025	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	Qualifie
GRO C6-C10*	<10.0	10.0	03/07/2025	ND	216	108	200	6.58	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	200	100	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					
Surrogate: 1-Chlorooctane	123 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	124 9	40.6-15	2						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



			PARKER D DRIVE NM, 88220		
		Fax To:	NA		
Received:	03/06/2025			Sampling Date:	03/03/2025
Reported:	03/12/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Tamara Oldaker
Project Location:	SAHARA OPERATING	3			

Sample ID: BS 25 - 14 4.1 (H251322-02)

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	03/07/2025	ND	1.93	96.5	2.00	0.603	
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	0.428	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.06	103	2.00	1.18	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.21	103	6.00	1.32	
Total BTEX	<0.300	0.300	03/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	03/07/2025	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	03/07/2025	ND	216	108	200	6.58	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	200	100	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					
Surrogate: 1-Chlorooctane	125 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	127 9	% 40.6-15	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



			PARKER D DRIVE NM, 88220		
		Fax To:	NA		
Received:	03/06/2025			Sampling Date:	03/03/2025
Reported:	03/12/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Tamara Oldaker
Project Location:	SAHARA OPERATING	3			

Sample ID: BS 25 - 20 4.1 (H251322-03)

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	03/07/2025	ND	1.93	96.5	2.00	0.603	
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	0.428	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.06	103	2.00	1.18	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.21	103	6.00	1.32	
Total BTEX	<0.300	0.300	03/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	03/07/2025	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	03/07/2025	ND	216	108	200	6.58	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	200	100	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					
Surrogate: 1-Chlorooctane	118 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	118 9	40.6-15	3						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



			PARKER D DRIVE NM, 88220		
		Fax To:	NA		
Received:	03/06/2025			Sampling Date:	03/03/2025
Reported:	03/12/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Tamara Oldaker
Project Location:	SAHARA OPERATING	3			

Sample ID: BS 25 - 21 4.1 (H251322-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2025	ND	1.93	96.5	2.00	0.603	
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	0.428	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.06	103	2.00	1.18	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.21	103	6.00	1.32	
Total BTEX	<0.300	0.300	03/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	03/07/2025	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	03/07/2025	ND	216	108	200	6.58	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	200	100	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					
Surrogate: 1-Chlorooctane	113 9	6 44.4-14	5						
Surrogate: 1-Chlorooctadecane	114 9	6 40.6-15							

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



			PARKER D DRIVE NM, 88220		
		Fax To:	NA		
Received:	03/06/2025			Sampling Date:	03/03/2025
Reported:	03/12/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Tamara Oldaker
Project Location:	SAHARA OPERATING	3			

Sample ID: BS 25 - 22 4.1 (H251322-05)

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	03/07/2025	ND	1.93	96.5	2.00	0.603	
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	0.428	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.06	103	2.00	1.18	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.21	103	6.00	1.32	
Total BTEX	<0.300	0.300	03/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	03/07/2025	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	03/07/2025	ND	216	108	200	6.58	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	200	100	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					
Surrogate: 1-Chlorooctane	113 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	112 9	40.6-15	3						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



			PARKER D DRIVE NM, 88220		
		Fax To:	NA		
Received:	03/06/2025			Sampling Date:	03/03/2025
Reported:	03/12/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Tamara Oldaker
Project Location:	SAHARA OPERATING	3			

Sample ID: BS 25 - 23 4.1 (H251322-06)

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	03/07/2025	ND	1.93	96.5	2.00	0.603	
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	0.428	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.06	103	2.00	1.18	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.21	103	6.00	1.32	
Total BTEX	<0.300	0.300	03/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	03/07/2025	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	03/07/2025	ND	216	108	200	6.58	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	200	100	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					
Surrogate: 1-Chlorooctane	106 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	104 9	% 40.6-15							

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Celey D. Keene, Lab Director/Quality Manager



			PARKER D DRIVE NM, 88220		
		Fax To:	NA		
Received:	03/06/2025			Sampling Date:	03/03/2025
Reported:	03/12/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Tamara Oldaker
Project Location:	SAHARA OPERATING	3			

Sample ID: BS 25 - 24 4.1 (H251322-07)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2025	ND	1.93	96.5	2.00	0.603	
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	0.428	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.06	103	2.00	1.18	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.21	103	6.00	1.32	
Total BTEX	<0.300	0.300	03/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	03/07/2025	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	ND	216	108	200	6.58	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	200	100	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					
Surrogate: 1-Chlorooctane	113 %	6 44.4-14	5						
Surrogate: 1-Chlorooctadecane	111 %	6 40.6-15	3						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager


			PARKER D DRIVE NM, 88220		
		Fax To:	NA		
Received:	03/06/2025			Sampling Date:	03/03/2025
Reported:	03/12/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Tamara Oldaker
Project Location:	SAHARA OPERATING	3			

Sample ID: BS 25 - 25 4.1 (H251322-08)

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	03/07/2025	ND	1.93	96.5	2.00	0.603	
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	0.428	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.06	103	2.00	1.18	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.21	103	6.00	1.32	
Total BTEX	<0.300	0.300	03/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2190	16.0	03/07/2025	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	03/07/2025	ND	216	108	200	6.58	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	200	100	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					
Surrogate: 1-Chlorooctane	115 %	6 44.4-14	5						
Surrogate: 1-Chlorooctadecane	113 %	6 40.6-15	3						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



			PARKER D DRIVE NM, 88220		
		Fax To:	NA		
Received:	03/06/2025			Sampling Date:	03/03/2025
Reported:	03/12/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Tamara Oldaker
Project Location:	SAHARA OPERATING	3			

Sample ID: BS 25 - 26 4.1 (H251322-09)

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	03/07/2025	ND	1.93	96.5	2.00	0.603	
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	0.428	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.06	103	2.00	1.18	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.21	103	6.00	1.32	
Total BTEX	<0.300	0.300	03/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	03/07/2025	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	03/07/2025	ND	216	108	200	6.58	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	200	100	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					
Surrogate: 1-Chlorooctane	104 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	103 9	% 40.6-15	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



			PARKER D DRIVE NM, 88220		
		Fax To:	NA		
Received:	03/06/2025			Sampling Date:	03/03/2025
Reported:	03/12/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Tamara Oldaker
Project Location:	SAHARA OPERATING	3			

Sample ID: BS 25 - 15.1 4.1 (H251322-10)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2025	ND	1.93	96.5	2.00	0.603	
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	0.428	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.06	103	2.00	1.18	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.21	103	6.00	1.32	
Total BTEX	<0.300	0.300	03/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	03/07/2025	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	03/07/2025	ND	216	108	200	6.58	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	200	100	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					
Surrogate: 1-Chlorooctane	118 %	6 44.4-14	5						
Surrogate: 1-Chlorooctadecane	116 %	6 40.6-15	3						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW P 3101 BOYD CARLSBAD Fax To:	ARKER		
Received:	03/06/2025			Sampling Date:	03/03/2025
Reported:	03/12/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Tamara Oldaker
Project Location:	SAHARA OPERATING	ì			

Sample ID: WS 25 - 05 0-4.1 (H251322-11)

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	03/07/2025	ND	1.93	96.5	2.00	0.603	
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	0.428	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.06	103	2.00	1.18	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.21	103	6.00	1.32	
Total BTEX	<0.300	0.300	03/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/07/2025	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	03/07/2025	ND	216	108	200	6.58	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	200	100	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					
Surrogate: 1-Chlorooctane	108 9	6 44.4-14	5						
Surrogate: 1-Chlorooctadecane	107 9	6 40.6-15	3						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ANDRE 3101 B	X RESOURCE W PARKER GOYD DRIVE BAD NM, 88220		
	Fax To	: NA		
Received:	03/06/2025		Sampling Date:	03/03/2025
Reported:	03/12/2025		Sampling Type:	Soil
Project Name:	NORTH EL MAR 50		Sampling Condition:	Cool & Intact
Project Number:	24E - 04576		Sample Received By:	Tamara Oldaker
Project Location:	SAHARA OPERATING			

Sample ID: WS 25 - 06 0-4.1 (H251322-12)

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	03/07/2025	ND	1.93	96.5	2.00	0.603	
Toluene*	<0.050	0.050	03/07/2025	ND	2.03	102	2.00	0.428	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.06	103	2.00	1.18	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.21	103	6.00	1.32	
Total BTEX	<0.300	0.300	03/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/07/2025	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	03/07/2025	ND	216	108	200	6.58	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	200	100	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					
Surrogate: 1-Chlorooctane	115 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	113 9	40.6-15	3						

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 5/9/2025 10:05:43 AM

Company Name: Project Manager	01 East Marland (575) 393-2326 V/en+ex (FAX (575) 393-2476	Group 10	BILL TO	0		ANALYSIS REC	REQUEST
Address: 💥	3101 Bord	di		P.O. #: Commany: Vlactax	<			
City: Car	shad	State: N/M Zip:	82270	Attn:				
Phone #: 57	15 725 Soul	Fax #:		ess: 3/01	Band de			
Project #: 248	-04576	Project Owner:		wicha.	orka hi			
Project Name:	orth El Mar	50		State: N/N Zip: % 220	877.0	0		
Project Location:	Rutal Lea	Conty		Phone #: 575 7	2.5 (nal	IR		
Sampler Name:	IA TA	ler		Fax #:				
FOR LAB USE ONLY			MATRIX	ESERV.	SAMPLING	3,		
Lab I.D.	Sample I.D.	B OR (C)OMP		BASE:	Chlori	BTE		
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2-4	BS75-14 41		-×	* 3/3/25		XX		
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PLEASE NOTE: Liability and Damages. Cardinar's in unaiyees. All claims including those for negligence a	ability and any oth	sociusive remedy for any claim an whatsoever shall be deemed wa	aim arising whether based in contract or forn ned waived unless made in writing and recei	, shall be limited to the amount ved by Cardinal within 30 days :	10:30 W paid by the client for the after completion of the applicable	~ V		
Relinguished By William of util	performance of	Time: 8:00 Date: 7 Rece	Instrume by Cardinal in instrument, cultures instrument by Cardinal in instrument of the set of profile IS Received By: B:00 Received By:	of use, or loss of profils incurred by ased upon any of the above stated :	All Results are emailed	معند له ميكانفينية. معند من مكانفينية. Verbal Result: الالحة المال المطلق المحافظ المحاف المحافظ المحافظ المحاف المحافظ المحافظ المحاف المحافظ المحافظ المحاف المحافظ المحافظ المحافظ المحافظ المحافظ المحافظ	*	Katrina. Taylor @ verlex. Ca
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Time: 30 Observed Temp. °C 3,4 Corrected Temp. °C 3,7	Sample Condition Cool Infact	CHECKED BY: (Initials)	Turnaround Time:	Standard Rush	Bacteria (only) S Cool Intact	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C

Page 15 of 16

Page 79 of 149

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Venter	resource (Grand	BILL TO		AN	ANALYSIS REQUEST
ຍ	Andrew			P.O. #:	_		
ess:	Boyd dr			Company: Vertex	8		
City: Car	Carlsbad	State: ///M	Zip: 88220				
Phone #: 57	575 725 Seal	Fax #:		Address: 311 Boyd	vd dr		
Project #: 24 E -04576	E-04576	Project Owner:	er:	20		-	
Project Name:	North El	Mar So		: UM Zip:	8726		
Project Location:		County		# 575-	-	_	
Sampler Name:	Katrina 7	3		Fax #:	-		
FOR LAB USE ONLY			MP. MATRIX	PRESERV. SAI	SAMPLING e		
Lab I.D.	Sample I.D.	I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	DTHER : ACID/BASE: CE / COOL DTHER :	Chlorida Gro, Dro,	BTEX	
3	WS25-05	0-4.1		×	2	*	
. 10	WS25-06	0-4.1		<			
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3 FLEASE NUTE: Lability and Dama 3 malyses. All claims including those 5 service. In no event shall Cardinal to filiates or successors arising out of Deliver in the basis of the basis	-r.c-voc wvi in: Lusinity and Charages, Cardina's liability and cli- analyses. All claims including those for negligence and any other varvice. In no event shall Cardinal be liable for incidental or conse "liftlates or successors arising out of or related to the performance Do for successors arising out of or related to the performance."	client's exclusive remedy for any claim er cause whatsoever shall be deemed rsequental damages, including without rce of services hereunder by Cardinal,	onfs and usive remote for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the cause whatsover shall be deemed wained unless made in writing and neceled by Castof profile incuring which is the appli reported damages, including which imation, business interruptions, loss of use, or loss of profiles incurred by client, its subsidiaries of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated ensores or schweise.	or tort, shall be limited to the amount pa received by Cardinal within 30 days aft ress of use, or loss of profits incurred by ses of use, or loss of profits incurred by based upon any of the above stated re	amount paid by the client for the 30 days after completion of the applicable ncurred by client, its subsidiaries, ve state reasons or otherwise		
59/2025 1 Maltana Selinquished By:	mylen	Time: 8:00 Date: 6:00	Received By:	11/10	s are is a solution of the second sec	Vertex resource. Low	Add" Phone #: = Email address: e. Com & Ketring. Laylor Quertex. (a
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 22	24 Sample Condition	n CHECKED BY: (Initials)	Dr. II. The VOTECY Turnaround Time: Standa Thermometer ID #140 Correction Factor Task +0 3	Standard X	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C

Page 80 of 149



March 21, 2025

ANDREW PARKER

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: NORTH EL MAR

Enclosed are the results of analyses for samples received by the laboratory on 03/17/25 12:10.

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.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		VERTEX RI ANDREW F 3101 BOYI CARLSBAD Fax To:	PARKER		
Received: Reported: Project Name: Project Number: Project Location:	03/17/2025 03/21/2025 NORTH EL MAR 24E - 04576 RURAL LEA			Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	03/13/2025 Soil Cool & Intact Shalyn Rodriguez

Sample ID: BS 25 - 08 4.5 (H251543-01)

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	03/18/2025	ND	2.05	103	2.00	5.88	
Toluene*	<0.050	0.050	03/18/2025	ND	2.11	105	2.00	3.72	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.13	106	2.00	2.56	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	6.47	108	6.00	4.54	
Total BTEX	<0.300	0.300	03/18/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4280	16.0	03/18/2025	ND	448	112	400	3.64	
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	03/18/2025	ND	196	98.2	200	0.980	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	190	94.9	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					
Surrogate: 1-Chlorooctane	106	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	99.0	% 40.6-15	3						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX RI ANDREW F 3101 BOYI CARLSBAD Fax To:	PARKER		
Received:	03/17/2025			Sampling Date:	03/13/2025
Reported:	03/21/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Shalyn Rodriguez
Project Location:	RURAL LEA				

Sample ID: BS 25 - 27 4.1 (H251543-02)

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	03/18/2025	ND	2.05	103	2.00	5.88	
Toluene*	<0.050	0.050	03/18/2025	ND	2.11	105	2.00	3.72	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.13	106	2.00	2.56	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	6.47	108	6.00	4.54	
Total BTEX	<0.300	0.300	03/18/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	03/18/2025	ND	448	112	400	3.64	
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	03/18/2025	ND	196	98.2	200	0.980	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	190	94.9	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					
Surrogate: 1-Chlorooctane	94.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	86.3	% 40.6-15	3						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW F 3101 BOYE CARLSBAD Fax To:	PARKER		
Received:	03/17/2025			Sampling Date:	03/13/2025
Reported:	03/21/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Shalyn Rodriguez
Project Location:	RURAL LEA				

Sample ID: BS 25 - 28 4.1 (H251543-03)

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	03/18/2025	ND	2.05	103	2.00	5.88	
Toluene*	<0.050	0.050	03/18/2025	ND	2.11	105	2.00	3.72	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.13	106	2.00	2.56	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	6.47	108	6.00	4.54	
Total BTEX	<0.300	0.300	03/18/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3640	16.0	03/18/2025	ND	448	112	400	3.64	
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	03/18/2025	ND	196	98.2	200	0.980	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	190	94.9	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					
Surrogate: 1-Chlorooctane	107	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	99.4	% 40.6-15	3						

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Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW F 3101 BOYE CARLSBAD Fax To:	PARKER		
Received:	03/17/2025			Sampling Date:	03/13/2025
Reported:	03/21/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Shalyn Rodriguez
Project Location:	RURAL LEA				

Sample ID: BS 25 - 29 4.1 (H251543-04)

BTEX 8021B	mg,	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2025	ND	2.05	103	2.00	5.88	
Toluene*	<0.050	0.050	03/18/2025	ND	2.11	105	2.00	3.72	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.13	106	2.00	2.56	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	6.47	108	6.00	4.54	
Total BTEX	<0.300	0.300	03/18/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	03/18/2025	ND	448	112	400	3.64	
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	03/18/2025	ND	196	98.2	200	0.980	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	190	94.9	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					
Surrogate: 1-Chlorooctane	109	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	102	40.6-15	3						

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Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW F 3101 BOYE CARLSBAD Fax To:	PARKER		
Received:	03/17/2025			Sampling Date:	03/13/2025
Reported:	03/21/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Shalyn Rodriguez
Project Location:	RURAL LEA				

Sample ID: BS 25 - 30 4.1 (H251543-05)

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	03/18/2025	ND	2.05	103	2.00	5.88	
Toluene*	<0.050	0.050	03/18/2025	ND	2.11	105	2.00	3.72	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.13	106	2.00	2.56	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	6.47	108	6.00	4.54	
Total BTEX	<0.300	0.300	03/18/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3560	16.0	03/18/2025	ND	448	112	400	3.64	
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	03/18/2025	ND	196	98.2	200	0.980	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	190	94.9	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					
Surrogate: 1-Chlorooctane	97.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	88.9	% 40.6-15	3						

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Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW F 3101 BOYE CARLSBAD Fax To:	PARKER		
Received:	03/17/2025			Sampling Date:	03/13/2025
Reported:	03/21/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Shalyn Rodriguez
Project Location:	RURAL LEA				

Sample ID: BS 25 - 31 4.1 (H251543-06)

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	03/18/2025	ND	2.05	103	2.00	5.88	
Toluene*	<0.050	0.050	03/18/2025	ND	2.11	105	2.00	3.72	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.13	106	2.00	2.56	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	6.47	108	6.00	4.54	
Total BTEX	<0.300	0.300	03/18/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 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	6640	16.0	03/18/2025	ND	448	112	400	3.64	
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	03/18/2025	ND	196	98.2	200	0.980	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	190	94.9	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					
Surrogate: 1-Chlorooctane	107	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	99.0	% 40.6-15	3						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW F 3101 BOYI CARLSBAD Fax To:	PARKER		
Received:	03/17/2025			Sampling Date:	03/13/2025
Reported:	03/21/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Shalyn Rodriguez
Project Location:	RURAL LEA				

Sample ID: BS 25 - 32 4.1 (H251543-07)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2025	ND	2.05	103	2.00	5.88	
Toluene*	<0.050	0.050	03/18/2025	ND	2.11	105	2.00	3.72	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.13	106	2.00	2.56	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	6.47	108	6.00	4.54	
Total BTEX	<0.300	0.300	03/18/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13300	16.0	03/18/2025	ND	448	112	400	3.64	
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	03/18/2025	ND	204	102	200	1.83	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	199	99.3	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					
Surrogate: 1-Chlorooctane	103	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	101	% 40.6-15	3						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW F 3101 BOYE CARLSBAD Fax To:	PARKER		
Received:	03/17/2025			Sampling Date:	03/13/2025
Reported:	03/21/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Shalyn Rodriguez
Project Location:	RURAL LEA				

Sample ID: BS 25 - 33 4.1 (H251543-08)

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	03/18/2025	ND	2.05	103	2.00	5.88	
Toluene*	<0.050	0.050	03/18/2025	ND	2.11	105	2.00	3.72	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.13	106	2.00	2.56	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	6.47	108	6.00	4.54	
Total BTEX	<0.300	0.300	03/18/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	03/18/2025	ND	448	112	400	3.64	
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	03/18/2025	ND	204	102	200	1.83	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	199	99.3	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					
Surrogate: 1-Chlorooctane	104	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	102	% 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX RI ANDREW F 3101 BOYI CARLSBAD Fax To:	PARKER		
Received:	03/17/2025			Sampling Date:	03/13/2025
Reported:	03/21/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Shalyn Rodriguez
Project Location:	RURAL LEA				

Sample ID: BS 25 - 34 4.1 (H251543-09)

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	03/18/2025	ND	2.05	103	2.00	5.88	
Toluene*	<0.050	0.050	03/18/2025	ND	2.11	105	2.00	3.72	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.13	106	2.00	2.56	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	6.47	108	6.00	4.54	
Total BTEX	<0.300	0.300	03/18/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7460	16.0	03/18/2025	ND	448	112	400	3.64	
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	03/18/2025	ND	204	102	200	1.83	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	199	99.3	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					
Surrogate: 1-Chlorooctane	88.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	84.7	% 40.6-15	3						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW F 3101 BOYE CARLSBAD Fax To:	PARKER		
Received:	03/17/2025			Sampling Date:	03/13/2025
Reported:	03/21/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Shalyn Rodriguez
Project Location:	RURAL LEA				

Sample ID: BS 25 - 35 4.1 (H251543-10)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2025	ND	2.05	103	2.00	5.88	
Toluene*	<0.050	0.050	03/18/2025	ND	2.11	105	2.00	3.72	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.13	106	2.00	2.56	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	6.47	108	6.00	4.54	
Total BTEX	<0.300	0.300	03/18/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	03/18/2025	ND	448	112	400	3.64	
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	03/18/2025	ND	204	102	200	1.83	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	199	99.3	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					
Surrogate: 1-Chlorooctane	95.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	<i>99.3</i>	% 40.6-15	3						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW F 3101 BOYE CARLSBAD Fax To:	PARKER		
Received:	03/17/2025			Sampling Date:	03/13/2025
Reported:	03/21/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Shalyn Rodriguez
Project Location:	RURAL LEA				

Sample ID: BS 25 - 36 4.1 (H251543-11)

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	03/18/2025	ND	2.05	103	2.00	5.88	
Toluene*	<0.050	0.050	03/18/2025	ND	2.11	105	2.00	3.72	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.13	106	2.00	2.56	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	6.47	108	6.00	4.54	
Total BTEX	<0.300	0.300	03/18/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 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	6240	16.0	03/18/2025	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2025	ND	204	102	200	1.83	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	199	99.3	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					
Surrogate: 1-Chlorooctane	107	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	105	% 40.6-15	3						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW F 3101 BOYE CARLSBAD Fax To:	PARKER		
Received:	03/17/2025			Sampling Date:	03/13/2025
Reported:	03/21/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Shalyn Rodriguez
Project Location:	RURAL LEA				

Sample ID: BS 25 - 37 4.1 (H251543-12)

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	03/18/2025	ND	2.05	103	2.00	5.88	
Toluene*	<0.050	0.050	03/18/2025	ND	2.11	105	2.00	3.72	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.13	106	2.00	2.56	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	6.47	108	6.00	4.54	
Total BTEX	<0.300	0.300	03/18/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	03/18/2025	ND	448	112	400	3.64	
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	03/18/2025	ND	204	102	200	1.83	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	199	99.3	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					
Surrogate: 1-Chlorooctane	101	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	97.8	% 40.6-15	3						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW F 3101 BOYE CARLSBAD Fax To:	PARKER		
Received:	03/17/2025			Sampling Date:	03/13/2025
Reported:	03/21/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Shalyn Rodriguez
Project Location:	RURAL LEA				

Sample ID: BS 25 - 38 4.1 (H251543-13)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2025	ND	2.05	103	2.00	5.88	
Toluene*	<0.050	0.050	03/18/2025	ND	2.11	105	2.00	3.72	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.13	106	2.00	2.56	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	6.47	108	6.00	4.54	
Total BTEX	<0.300	0.300	03/18/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	03/18/2025	ND	448	112	400	3.64	
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	03/18/2025	ND	204	102	200	1.83	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	199	99.3	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					
Surrogate: 1-Chlorooctane	107	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	105	% 40.6-15	3						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240 aboratories ARDINA

City:

Carlsbac

Address:

3101

Boyd

20

Phone #:

Project #: Project Name:

246-04576

Fax #:

NORTH

T

MAR

Sampler Name: Project Location:

KA TRINA

RURAL

LEA

FOR LAB USE ONLY

Lab I.D

Sample I.D

Project Manager: Company Name:

VER TEX

ANPEGW

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Hasish3 Relinquished By: Relinquished By: EASE NOTE: Liab Sampler - UPS - Bus - Other: Delivered By: (Circle One) siyses. All claims ice. In no event shall Cardinal be liable for natrino 0 2 A 1 6 S 5 W 2 8525-29 BS25-27 8525-33 8525-31 BS 25-30 6525-35 BS25-34 8525-28 8525-32 BS2 5-08 negligence and any other noidental or con Corrected Temp. °C 3. 0-Observed Temp. °C2-3 モンエモモン Sel7-25 Time Date: 5 Time: 9:30 ÷ 4.1 4.5 + Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com 11/2 thall be o **Received By:** Received By: Burstut Sample Condition No No Cool Intact 10 m Par made in writing and received by 1 Unact of Joint loss of use SK , or loss CHECKED BY: 2 (Initials) profits within 30 days after 3/13 by client, its subsidiaries, aid by the client 9:20 9:50 07:40 9:30 10:00 9:16 10910 10:20 All Results are emailed. Please provide Email address: 10:30 Verbal Result: completion of the applicable Turnaround Time: REMARKS: Inermometer ID #443 #(40) aparher@vertexresource. Com & Katina. Taylor@verted. Ca Yes Standard 4 O No Add'I Phone #: Cool Intact **Bacteria (only) Sample Condition** Corrected Temp. °C Observed Temp. ĉ

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 7/2/2025 10:55:58 AM

		>	BILL TO		ANALYSIS REQUEST	IEST
	RESOURCE	GROOP	P.O. #			
	ANDREW PARKER		Company: VO1tex			
Address: Stur Loyo or	State: N/M Zip: 88 220		Attn:			
City: Uirts Valv	-		Address: 3101 boyd ar	1		
Project #: 246-64576			city: Corlshad			
Project Name: Noe TH EL	2.1		State: NM Zip: 86220			
	AL IGA		Phone #:	, /		
	VATOTALA TA VLOR					
1	CLIVIT IF IFUT	MATRIX	PRESERV. SAMPLING	PK		
	Sample I.D.	G)RAB OR (C)OMP. CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER : DATE	Choride Chro, BTE		
Szsg Chekon	BS25-36 4.1	*		X X A		
2	-37 4.		10.0			
13 B525-38		<	1			
PLEASE NOTE: Liability and Damages. Ca analyses. All claims including those for negli	rdinal's liability and client's acclusive remedy for an ligence and any other cause whatsoever shall be de	/ claim arising whether based in contrac semed waived unless made in writing ar	PLEASE NOTE: Lability and Damages. Cardinal's liability and client's accusive remedy for any claim arising whother based in contract or knt, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoower shall be deemed waived unless made in writing and recoved by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoower shall be deemed waived unless made in writing and recoved by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoower shall be deemed waived unless made in writing and recoved by claims. So of profile incurred by clent, it is subsidiaries.	ent for the on of the applicable bisidiaries,		
Relinguished By: Kalina Taylor	ad to the performance of services hereunder by Ca Date: 5/14 Time: 9:30	the $\frac{1}{3}$ Received By: me: $\frac{1}{3}$	s based upon any or see doors see a Verba	Pr@Ve		y Katima. Taylor @ vertex. Ca
Relinquished By:		K ed	ert	please will be vertex	×	Bacteria (only) Sample Condition
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	her: Corrected Temp. °C 3. U	S-U: Sample Condition	Initials	Thermometer ID _#113. ++140 Correction Factor 95°C ++0.3		Observed Temp. °C Corrected Temp. °C
FORM-DUG K 3.2 10/0	and the second s					

Page 17 of 17



April 01, 2025

ANDREW PARKER

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: NORTH EL MAR 50

Enclosed are the results of analyses for samples received by the laboratory on 03/26/25 10:34.

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.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



	ANDR 3101	EX RESOURCE REW PARKER BOYD DRIVE SBAD NM, 88220 To: NA		
Received:	03/26/2025		Sampling Date:	03/25/2025
Reported:	04/01/2025		Sampling Type:	Soil
Project Name:	NORTH EL MAR 50		Sampling Condition:	Cool & Intact
Project Number:	24E - 04576		Sample Received By:	Alyssa Parras
Project Location:	SAHARA OPERATING			

Sample ID: BS 25 - 39 4.1 (H251764-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	03/29/2025	ND	2.46	123	2.00	2.39	
Toluene*	<0.050	0.050	03/29/2025	ND	2.76	138	2.00	1.83	QM-07
Ethylbenzene*	<0.050	0.050	03/29/2025	ND	2.99	149	2.00	1.19	QM-07
Total Xylenes*	<0.150	0.150	03/29/2025	ND	9.40	157	6.00	2.48	QM-07
Total BTEX	<0.300	0.300	03/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	141 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13900	16.0	03/28/2025	ND	464	116	400	7.14	
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	03/26/2025	ND	203	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	205	102	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	85.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	80.4	% 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW F 3101 BOYE CARLSBAD Fax To:	ARKER		
Received:	03/26/2025			Sampling Date:	03/25/2025
Reported:	04/01/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Alyssa Parras
Project Location:	SAHARA OPERATING	ì			

Sample ID: BS 25 - 40 4.1 (H251764-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2025	ND	2.46	123	2.00	2.39	
Toluene*	<0.050	0.050	03/29/2025	ND	2.76	138	2.00	1.83	
Ethylbenzene*	<0.050	0.050	03/29/2025	ND	2.99	149	2.00	1.19	
Total Xylenes*	<0.150	0.150	03/29/2025	ND	9.40	157	6.00	2.48	
Total BTEX	<0.300	0.300	03/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	145	% 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	11000	16.0	03/28/2025	ND	464	116	400	7.14	
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	03/26/2025	ND	203	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	205	102	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	58.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	57.3	% 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW P 3101 BOYE CARLSBAD Fax To:	PARKER D DRIVE NM, 88220		
		Fax TO:	NA		
Received:	03/26/2025			Sampling Date:	03/25/2025
Reported:	04/01/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Alyssa Parras
Project Location:	SAHARA OPERATING	ì			

Sample ID: BS 25 - 41 4.1 (H251764-03)

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	03/29/2025	ND	2.46	123	2.00	2.39	
Toluene*	<0.050	0.050	03/29/2025	ND	2.76	138	2.00	1.83	
Ethylbenzene*	<0.050	0.050	03/29/2025	ND	2.99	149	2.00	1.19	
Total Xylenes*	<0.150	0.150	03/29/2025	ND	9.40	157	6.00	2.48	
Total BTEX	<0.300	0.300	03/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	141	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8660	16.0	03/28/2025	ND	464	116	400	7.14	
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	03/26/2025	ND	203	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	205	102	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	77.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	71.7	% 40.6-15	3						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW P 3101 BOYE CARLSBAD Fax To:	ARKER		
Received:	03/26/2025			Sampling Date:	03/25/2025
Reported:	04/01/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Alyssa Parras
Project Location:	SAHARA OPERATING	i			

Sample ID: BS 25 - 42 4.1 (H251764-04)

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	03/29/2025	ND	2.46	123	2.00	2.39	
Toluene*	<0.050	0.050	03/29/2025	ND	2.76	138	2.00	1.83	
Ethylbenzene*	<0.050	0.050	03/29/2025	ND	2.99	149	2.00	1.19	
Total Xylenes*	<0.150	0.150	03/29/2025	ND	9.40	157	6.00	2.48	
Total BTEX	<0.300	0.300	03/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	143 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	03/28/2025	ND	464	116	400	7.14	
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	03/26/2025	ND	203	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	205	102	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	82.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	77.0	% 40.6-15	3						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW F 3101 BOYE CARLSBAD Fax To:	ARKER		
Received:	03/26/2025			Sampling Date:	03/25/2025
Reported:	04/01/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Alyssa Parras
Project Location:	SAHARA OPERATING	ì			

Sample ID: BS 25 - 43 4.1 (H251764-05)

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	03/29/2025	ND	2.46	123	2.00	2.39	
Toluene*	<0.050	0.050	03/29/2025	ND	2.76	138	2.00	1.83	
Ethylbenzene*	<0.050	0.050	03/29/2025	ND	2.99	149	2.00	1.19	
Total Xylenes*	<0.150	0.150	03/29/2025	ND	9.40	157	6.00	2.48	
Total BTEX	<0.300	0.300	03/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	145	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	03/28/2025	ND	464	116	400	7.14	
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	03/26/2025	ND	203	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	205	102	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	64.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	59.9	% 40.6-15	3						

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Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW P 3101 BOYE CARLSBAD Fax To:	ARKER		
Received:	03/26/2025			Sampling Date:	03/25/2025
Reported:	04/01/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Alyssa Parras
Project Location:	SAHARA OPERATING	i			

Sample ID: BS 25 - 44 4.1 (H251764-06)

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	03/29/2025	ND	2.46	123	2.00	2.39	
Toluene*	<0.050	0.050	03/29/2025	ND	2.76	138	2.00	1.83	
Ethylbenzene*	<0.050	0.050	03/29/2025	ND	2.99	149	2.00	1.19	
Total Xylenes*	<0.150	0.150	03/29/2025	ND	9.40	157	6.00	2.48	
Total BTEX	<0.300	0.300	03/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	141	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	03/28/2025	ND	416	104	400	0.00	QM-07
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	203	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	205	102	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	66.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	61.3	% 40.6-15	3						

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Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW P 3101 BOYE CARLSBAD Fax To:	ARKER		
Received:	03/26/2025			Sampling Date:	03/25/2025
Reported:	04/01/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Alyssa Parras
Project Location:	SAHARA OPERATING	i			

Sample ID: BS 25 - 45 4.1 (H251764-07)

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	03/29/2025	ND	2.46	123	2.00	2.39	
Toluene*	<0.050	0.050	03/29/2025	ND	2.76	138	2.00	1.83	
Ethylbenzene*	<0.050	0.050	03/29/2025	ND	2.99	149	2.00	1.19	
Total Xylenes*	<0.150	0.150	03/29/2025	ND	9.40	157	6.00	2.48	
Total BTEX	<0.300	0.300	03/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	145 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	203	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	205	102	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	81.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	76.5	% 40.6-15	3						

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Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW P 3101 BOYD CARLSBAD Fax To:	ARKER		
Received:	03/26/2025			Sampling Date:	03/25/2025
Reported:	04/01/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Alyssa Parras
Project Location:	SAHARA OPERATING				

Sample ID: BS 25 - 46 4.1 (H251764-08)

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	03/29/2025	ND	2.46	123	2.00	2.39	
Toluene*	<0.050	0.050	03/29/2025	ND	2.76	138	2.00	1.83	
Ethylbenzene*	<0.050	0.050	03/29/2025	ND	2.99	149	2.00	1.19	
Total Xylenes*	<0.150	0.150	03/29/2025	ND	9.40	157	6.00	2.48	
Total BTEX	<0.300	0.300	03/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	140	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	203	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	205	102	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	83.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	80.3	% 40.6-15	3						

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Celey D. Keene, Lab Director/Quality Manager



	A 3	/ERTEX RE ANDREW P/ 3101 BOYD CARLSBAD	ARKER		
	F	Fax To:	NA		
Received:	03/26/2025			Sampling Date:	03/25/2025
Reported:	04/01/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Alyssa Parras
Project Location:	SAHARA OPERATING				

Sample ID: BS 25 - 47 4.1 (H251764-09)

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	03/29/2025	ND	2.46	123	2.00	2.39	
Toluene*	<0.050	0.050	03/29/2025	ND	2.76	138	2.00	1.83	
Ethylbenzene*	<0.050	0.050	03/29/2025	ND	2.99	149	2.00	1.19	
Total Xylenes*	<0.150	0.150	03/29/2025	ND	9.40	157	6.00	2.48	
Total BTEX	<0.300	0.300	03/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	129 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	203	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	205	102	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	82.5 % 44.4-14		5						
Surrogate: 1-Chlorooctadecane	76.6	% 40.6-15	3						

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Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW P 3101 BOYD CARLSBAD	ARKER			
	I	Fax To:	NA			
Received:	03/26/2025			Sampling Date:	03/25/202	25
Reported:	04/01/2025			Sampling Type:	Soil	
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Int	act
Project Number:	24E - 04576			Sample Received By:	Alyssa Par	ras
Project Location:	SAHARA OPERATING					

Sample ID: BS 25 - 48 4.1 (H251764-10)

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	03/29/2025	ND	2.46	123	2.00	2.39	
Toluene*	<0.050	0.050	03/29/2025	ND	2.76	138	2.00	1.83	
Ethylbenzene*	<0.050	0.050	03/29/2025	ND	2.99	149	2.00	1.19	
Total Xylenes*	<0.150	0.150	03/29/2025	ND	9.40	157	6.00	2.48	
Total BTEX	<0.300	0.300	03/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	134	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	203	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	205	102	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	83.9 % 44.4-14		5						
Surrogate: 1-Chlorooctadecane	78.2	% 40.6-15	3						

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Celey D. Keene, Lab Director/Quality Manager


		VERTEX RE ANDREW P 3101 BOYE CARLSBAD Fax To:	PARKER D DRIVE NM, 88220		
		Fax TO:	NA		
Received:	03/26/2025			Sampling Date:	03/25/2025
Reported:	04/01/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Alyssa Parras
Project Location:	SAHARA OPERATING	ì			

Sample ID: BS 25 - 49 4.1 (H251764-11)

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	03/29/2025	ND	2.46	123	2.00	2.39	
Toluene*	<0.050	0.050	03/29/2025	ND	2.76	138	2.00	1.83	
Ethylbenzene*	<0.050	0.050	03/29/2025	ND	2.99	149	2.00	1.19	
Total Xylenes*	<0.150	0.150	03/29/2025	ND	9.40	157	6.00	2.48	
Total BTEX	<0.300	0.300	03/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	135 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	203	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	205	102	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	80.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	74.6	% 40.6-15	3						

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Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW P 3101 BOYE CARLSBAD Fax To:	PARKER D DRIVE NM, 88220		
		Fax TO:	NA		
Received:	03/26/2025			Sampling Date:	03/25/2025
Reported:	04/01/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Alyssa Parras
Project Location:	SAHARA OPERATING	ì			

Sample ID: BS 25 - 50 4.1 (H251764-12)

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	03/29/2025	ND	2.46	123	2.00	2.39	
Toluene*	<0.050	0.050	03/29/2025	ND	2.76	138	2.00	1.83	
Ethylbenzene*	<0.050	0.050	03/29/2025	ND	2.99	149	2.00	1.19	
Total Xylenes*	<0.150	0.150	03/29/2025	ND	9.40	157	6.00	2.48	
Total BTEX	<0.300	0.300	03/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	148 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	203	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	205	102	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	82.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	77.8	% 40.6-15	3						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW P 3101 BOYE CARLSBAD Fax To:	PARKER D DRIVE NM, 88220		
		Fax TO:	NA		
Received:	03/26/2025			Sampling Date:	03/25/2025
Reported:	04/01/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Alyssa Parras
Project Location:	SAHARA OPERATING	ì			

Sample ID: BS 25 - 51 4.1 (H251764-13)

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	03/29/2025	ND	2.46	123	2.00	2.39	
Toluene*	<0.050	0.050	03/29/2025	ND	2.76	138	2.00	1.83	
Ethylbenzene*	<0.050	0.050	03/29/2025	ND	2.99	149	2.00	1.19	
Total Xylenes*	<0.150	0.150	03/29/2025	ND	9.40	157	6.00	2.48	
Total BTEX	<0.300	0.300	03/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	146 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7440	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	203	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	205	102	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	59.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	55.1	% 40.6-15	3						

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Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW P 3101 BOYE CARLSBAD Fax To:	PARKER D DRIVE NM, 88220		
		Fax TO:	NA		
Received:	03/26/2025			Sampling Date:	03/25/2025
Reported:	04/01/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Alyssa Parras
Project Location:	SAHARA OPERATING	ì			

Sample ID: BS 25 - 52 4.1 (H251764-14)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	03/29/2025	ND	2.46	123	2.00	2.39	
Toluene*	<0.050	0.050	03/29/2025	ND	2.76	138	2.00	1.83	
Ethylbenzene*	<0.050	0.050	03/29/2025	ND	2.99	149	2.00	1.19	
Total Xylenes*	<0.150	0.150	03/29/2025	ND	9.40	157	6.00	2.48	
Total BTEX	<0.300	0.300	03/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	135 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	12200	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	203	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	205	102	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	82.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	77.7	% 40.6-15	3						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW P 3101 BOYE CARLSBAD Fax To:	PARKER D DRIVE NM, 88220		
		Fax TO:	NA		
Received:	03/26/2025			Sampling Date:	03/25/2025
Reported:	04/01/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Alyssa Parras
Project Location:	SAHARA OPERATING	ì			

Sample ID: BS 25 - 53 4.1 (H251764-15)

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	03/29/2025	ND	2.46	123	2.00	2.39	
Toluene*	<0.050	0.050	03/29/2025	ND	2.76	138	2.00	1.83	
Ethylbenzene*	<0.050	0.050	03/29/2025	ND	2.99	149	2.00	1.19	
Total Xylenes*	<0.150	0.150	03/29/2025	ND	9.40	157	6.00	2.48	
Total BTEX	<0.300	0.300	03/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	137	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	203	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	205	102	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	82.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	76.3	% 40.6-15	3						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW F 3101 BOYE CARLSBAD Fax To:	ARKER		
Received:	03/26/2025			Sampling Date:	03/25/2025
Reported:	04/01/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Alyssa Parras
Project Location:	SAHARA OPERATING	ì			

Sample ID: BS 25 - 54 4.1 (H251764-16)

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	03/29/2025	ND	2.46	123	2.00	2.39	
Toluene*	<0.050	0.050	03/29/2025	ND	2.76	138	2.00	1.83	
Ethylbenzene*	<0.050	0.050	03/29/2025	ND	2.99	149	2.00	1.19	
Total Xylenes*	<0.150	0.150	03/29/2025	ND	9.40	157	6.00	2.48	
Total BTEX	<0.300	0.300	03/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	135 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8530	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	203	102	200	2.07	
DRO >C10-C28*	36.3	10.0	03/26/2025	ND	205	102	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	84.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	81.2	% 40.6-15	3						

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Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW P 3101 BOYE CARLSBAD Fax To:	PARKER D DRIVE NM, 88220		
		Fax TO:	NA		
Received:	03/26/2025			Sampling Date:	03/25/2025
Reported:	04/01/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Alyssa Parras
Project Location:	SAHARA OPERATING	ì			

Sample ID: BS 25 - 56 4.1 (H251764-17)

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	03/29/2025	ND	2.46	123	2.00	2.39	
Toluene*	<0.050	0.050	03/29/2025	ND	2.76	138	2.00	1.83	
Ethylbenzene*	<0.050	0.050	03/29/2025	ND	2.99	149	2.00	1.19	
Total Xylenes*	<0.150	0.150	03/29/2025	ND	9.40	157	6.00	2.48	
Total BTEX	<0.300	0.300	03/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	149	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8660	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	177	88.6	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	171	85.7	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	73.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	70.9	% 40.6-15	3						

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Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW P 3101 BOYE CARLSBAD Fax To:	ARKER		
Received:	03/26/2025			Sampling Date:	03/25/2025
Reported:	04/01/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Alyssa Parras
Project Location:	SAHARA OPERATING	i			

Sample ID: WS 25 - 07 0-4.1 (H251764-18)

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	03/29/2025	ND	2.46	123	2.00	2.39	
Toluene*	<0.050	0.050	03/29/2025	ND	2.76	138	2.00	1.83	
Ethylbenzene*	<0.050	0.050	03/29/2025	ND	2.99	149	2.00	1.19	
Total Xylenes*	<0.150	0.150	03/29/2025	ND	9.40	157	6.00	2.48	
Total BTEX	<0.300	0.300	03/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	135 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	177	88.6	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	171	85.7	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	66.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	64.9	% 40.6-15	3						

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		VERTEX RE ANDREW P 3101 BOYE CARLSBAD Fax To:	ARKER		
Received:	03/26/2025			Sampling Date:	03/25/2025
Reported:	04/01/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Alyssa Parras
Project Location:	SAHARA OPERATING	i			

Sample ID: WS 25 - 08 0-4.1 (H251764-19)

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	03/29/2025	ND	2.46	123	2.00	2.39	
Toluene*	<0.050	0.050	03/29/2025	ND	2.76	138	2.00	1.83	
Ethylbenzene*	<0.050	0.050	03/29/2025	ND	2.99	149	2.00	1.19	
Total Xylenes*	<0.150	0.150	03/29/2025	ND	9.40	157	6.00	2.48	
Total BTEX	<0.300	0.300	03/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	136 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	177	88.6	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	171	85.7	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	79.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	73.6	% 40.6-15	3						

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Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW P 3101 BOYE CARLSBAD Fax To:	ARKER		
Received:	03/26/2025			Sampling Date:	03/25/2025
Reported:	04/01/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Alyssa Parras
Project Location:	SAHARA OPERATING	i			

Sample ID: WS 25 - 09 0-4.1 (H251764-20)

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	03/29/2025	ND	2.46	123	2.00	2.39	
Toluene*	<0.050	0.050	03/29/2025	ND	2.76	138	2.00	1.83	
Ethylbenzene*	<0.050	0.050	03/29/2025	ND	2.99	149	2.00	1.19	
Total Xylenes*	<0.150	0.150	03/29/2025	ND	9.40	157	6.00	2.48	
Total BTEX	<0.300	0.300	03/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	136 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	177	88.6	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	171	85.7	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	83.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	80.9	% 40.6-15	3						

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Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW P 3101 BOYD CARLSBAD	ARKER		
		Fax To:	NA		
Received:	03/26/2025			Sampling Date:	03/25/2025
Reported:	04/01/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Alyssa Parras
Project Location:	SAHARA OPERATING				

Sample ID: WS 25 - 10 0-4.1 (H251764-21)

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	03/29/2025	ND	2.50	125	2.00	2.85	QM-07
Toluene*	<0.050	0.050	03/29/2025	ND	2.95	148	2.00	4.69	QM-07
Ethylbenzene*	<0.050	0.050	03/29/2025	ND	3.20	160	2.00	3.99	QM-07
Total Xylenes*	<0.150	0.150	03/29/2025	ND	10.1	168	6.00	3.75	QM-07
Total BTEX	<0.300	0.300	03/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	132	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	177	88.6	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	171	85.7	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	85.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	82.1	% 40.6-15	3						

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Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW P 3101 BOYD CARLSBAD	ARKER DRIVE			
		Fax To:	NA			
Received:	03/26/2025			Sampling Date:	03/25/2025	5
Reported:	04/01/2025			Sampling Type:	Soil	
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Inta	oct
Project Number:	24E - 04576			Sample Received By:	Alyssa Parr	as
Project Location:	SAHARA OPERATING					

Sample ID: WS 25 - 11 0-4.1 (H251764-22)

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	03/29/2025	ND	2.50	125	2.00	2.85	
Toluene*	<0.050	0.050	03/29/2025	ND	2.95	148	2.00	4.69	
Ethylbenzene*	<0.050	0.050	03/29/2025	ND	3.20	160	2.00	3.99	
Total Xylenes*	<0.150	0.150	03/29/2025	ND	10.1	168	6.00	3.75	
Total BTEX	<0.300	0.300	03/29/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	133	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	177	88.6	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	171	85.7	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	80.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	79.0	% 40.6-15	3						

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Celey D. Keene, Lab Director/Quality Manager



	, A	VERTEX RE ANDREW P 3101 BOYD CARLSBAD	ARKER		
	F	Fax To:	NA		
Received:	03/26/2025			Sampling Date:	03/25/2025
Reported:	04/01/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Alyssa Parras
Project Location:	SAHARA OPERATING				

Sample ID: WS 25 - 12 0-4.1 (H251764-23)

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	03/30/2025	ND	2.50	125	2.00	2.85	
Toluene*	<0.050	0.050	03/30/2025	ND	2.95	148	2.00	4.69	
Ethylbenzene*	<0.050	0.050	03/30/2025	ND	3.20	160	2.00	3.99	
Total Xylenes*	<0.150	0.150	03/30/2025	ND	10.1	168	6.00	3.75	
Total BTEX	<0.300	0.300	03/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	134 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	177	88.6	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	171	85.7	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	86.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	83.9	% 40.6-15	3						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW P 3101 BOYE CARLSBAD Fax To:	ARKER		
Received:	03/26/2025			Sampling Date:	03/25/2025
Reported:	04/01/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Alyssa Parras
Project Location:	SAHARA OPERATING	ì			

Sample ID: WS 25 - 13 0-4.1 (H251764-24)

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	03/30/2025	ND	2.50	125	2.00	2.85	
Toluene*	<0.050	0.050	03/30/2025	ND	2.95	148	2.00	4.69	
Ethylbenzene*	<0.050	0.050	03/30/2025	ND	3.20	160	2.00	3.99	
Total Xylenes*	<0.150	0.150	03/30/2025	ND	10.1	168	6.00	3.75	
Total BTEX	<0.300	0.300	03/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	137 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	177	88.6	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	171	85.7	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	83.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	79.9	% 40.6-15	3						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	, A	VERTEX RE ANDREW P 3101 BOYD CARLSBAD	ARKER		
	F	Fax To:	NA		
Received:	03/26/2025			Sampling Date:	03/25/2025
Reported:	04/01/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Alyssa Parras
Project Location:	SAHARA OPERATING				

Sample ID: WS 25 - 14 0-4.1 (H251764-25)

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	03/30/2025	ND	2.50	125	2.00	2.85	
Toluene*	<0.050	0.050	03/30/2025	ND	2.95	148	2.00	4.69	
Ethylbenzene*	<0.050	0.050	03/30/2025	ND	3.20	160	2.00	3.99	
Total Xylenes*	<0.150	0.150	03/30/2025	ND	10.1	168	6.00	3.75	
Total BTEX	<0.300	0.300	03/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	130 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	177	88.6	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	171	85.7	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	84.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	81.1	% 40.6-15							

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW P 3101 BOYE CARLSBAD Fax To:	ARKER		
Received:	03/26/2025			Sampling Date:	03/25/2025
Reported:	04/01/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Alyssa Parras
Project Location:	SAHARA OPERATING	ì			

Sample ID: WS 25 - 15 0-4.1 (H251764-26)

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	03/30/2025	ND	2.50	125	2.00	2.85	
Toluene*	<0.050	0.050	03/30/2025	ND	2.95	148	2.00	4.69	
Ethylbenzene*	<0.050	0.050	03/30/2025	ND	3.20	160	2.00	3.99	
Total Xylenes*	<0.150	0.150	03/30/2025	ND	10.1	168	6.00	3.75	
Total BTEX	<0.300	0.300	03/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	143 9	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/27/2025	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	03/26/2025	ND	177	88.6	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	171	85.7	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	85.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	82.4	40.6-15	3						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW P 3101 BOYE CARLSBAD Fax To:	ARKER		
Received:	03/26/2025			Sampling Date:	03/25/2025
Reported:	04/01/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Alyssa Parras
Project Location:	SAHARA OPERATING	ì			

Sample ID: WS 25 - 16 0-4.1 (H251764-27)

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	03/30/2025	ND	2.50	125	2.00	2.85	
Toluene*	<0.050	0.050	03/30/2025	ND	2.95	148	2.00	4.69	
Ethylbenzene*	<0.050	0.050	03/30/2025	ND	3.20	160	2.00	3.99	
Total Xylenes*	<0.150	0.150	03/30/2025	ND	10.1	168	6.00	3.75	
Total BTEX	<0.300	0.300	03/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	137 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	03/27/2025	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	03/26/2025	ND	177	88.6	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	171	85.7	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	79.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	77.5	% 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW P 3101 BOYE CARLSBAD Fax To:	PARKER D DRIVE NM, 88220		
		Fax TO:	NA		
Received:	03/26/2025			Sampling Date:	03/25/2025
Reported:	04/01/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Alyssa Parras
Project Location:	SAHARA OPERATING	ì			

Sample ID: BS 25 - 55 0-4.1 (H251764-28)

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	03/30/2025	ND	2.50	125	2.00	2.85	
Toluene*	<0.050	0.050	03/30/2025	ND	2.95	148	2.00	4.69	
Ethylbenzene*	<0.050	0.050	03/30/2025	ND	3.20	160	2.00	3.99	
Total Xylenes*	<0.150	0.150	03/30/2025	ND	10.1	168	6.00	3.75	
Total BTEX	<0.300	0.300	03/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	142	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12000	16.0	03/27/2025	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	03/26/2025	ND	177	88.6	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	171	85.7	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					
Surrogate: 1-Chlorooctane	79.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	77.2	% 40.6-15	3						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Page 129 of 149

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101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 \cap ato IPS

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ang whether based in contract or fort, shall be limited to the amount paid by the client for the red unless made in writing and received by Cardinal which 30 days after completion of the applicable tation, business interruptions, loss of use or loss of profits incurred by client, its subsidiaries, ardless of whether such claim is based upon any of the above shaled trassms or otherwise.	t, shall be limited to the a wed by Cardinal within 30 use, or loss of profits inc ed upon any of the above	nount paid by the client for days after completion of th irred by client, its subsidian stated reasons or otherwis	the e applicable les.	*	ł	
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Project Manager:	EW	PARKER			P.O. #:			_	+	- 14	
Address: 3101 BOYD	DR				Company:	VERTEX		_			
City: Carl	Carlsbad	State: NM	Zip:	88226	Attn:						
Phone #:		Fax #:			Address: 3	Address: 3101 Bayd		_			
Project #: 24	24 8-04576	Project Owner:	er:		city: Padshoc	shad					
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PLEASE NOTE: Liability and analyses All claims includin service. In no event shall Ca affiliates or successors arisin	PLEASE NOTE: Liability and Damages Cardina's tability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be diminted to the amount paid by the client for the analyses. All claims including those for negligence and any other cluse whatsoever shall be demod waved 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 consequential damages, including without limitation, business mare interruptors, loss of use, or loss of profits incurred by client, its substituines, affiliates or successors arising out of or related to the performance of services hereundore by cardinal researches or whother work claims the service or the the term.	ent's exclusive remedy for a cause whatspever shall be equental damages, includin e of services hereunder by (ny claim ar deemed wa j without lin ardinal. rec	ising whether based in cor aived unless made in writin nitation, business interruptio pardiess of whether such o	tract or tort, shall be limited to g and received by Cardinal w ons, loss of use, or loss of pro faim is based upper and the	the amount paid by the clinin 30 days after complete office incurred by client, its so	on of the app ubsidiaries.	licable	*	14.9.04	More and any any
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Page 33 of 33

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March 31, 2025

ANDREW PARKER

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: NORTH EL MAR 50

Enclosed are the results of analyses for samples received by the laboratory on 03/27/25 13:20.

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.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



	ANDRE 3101 E	X RESOURCE EW PARKER BOYD DRIVE BAD NM, 88220		
	Fax To	: NA		
Received:	03/27/2025		Sampling Date:	03/26/2025
Reported:	03/31/2025		Sampling Type:	Soil
Project Name:	NORTH EL MAR 50		Sampling Condition:	Cool & Intact
Project Number:	24E - 04576		Sample Received By:	Tamara Oldaker
Project Location:	SAHARA OPERATING			

Sample ID: BFNEMU - 01 (H251823-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	03/28/2025	ND	1.87	93.5	2.00	19.4	
Toluene*	<0.050	0.050	03/28/2025	ND	1.93	96.7	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.95	97.7	2.00	7.15	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.87	97.9	6.00	4.32	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/28/2025	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	03/28/2025	ND	206	103	200	2.06	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	207	103	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					
Surrogate: 1-Chlorooctane	80.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	74.2	% 40.6-15	2						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



			PARKER D DRIVE NM, 88220		
		Fax To:	NA		
Received:	03/27/2025			Sampling Date:	03/26/2025
Reported:	03/31/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Tamara Oldaker
Project Location:	SAHARA OPERATING	3			

Sample ID: BFNEMU - 02 (H251823-02)

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	03/28/2025	ND	1.87	93.5	2.00	19.4	
Toluene*	<0.050	0.050	03/28/2025	ND	1.93	96.7	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.95	97.7	2.00	7.15	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.87	97.9	6.00	4.32	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/29/2025	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	206	103	200	2.06	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	207	103	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					
Surrogate: 1-Chlorooctane	93.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	88.4	% 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX RE ANDREW P 3101 BOYE CARLSBAD Fax To:	ARKER		
Received:	03/27/2025			Sampling Date:	03/26/2025
Reported:	03/31/2025			Sampling Type:	Soil
Project Name:	NORTH EL MAR 50			Sampling Condition:	Cool & Intact
Project Number:	24E - 04576			Sample Received By:	Tamara Oldaker
Project Location:	SAHARA OPERATING	3		. ,	

Sample ID: BFNEMU - 03 (H251823-03)

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	03/28/2025	ND	1.87	93.5	2.00	19.4	
Toluene*	<0.050	0.050	03/28/2025	ND	1.93	96.7	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.95	97.7	2.00	7.15	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.87	97.9	6.00	4.32	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/29/2025	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	206	103	200	2.06	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	207	103	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					
Surrogate: 1-Chlorooctane	76.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	71.9	% 40.6-15	3						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Received by OCD: 5/9/2025 10:05:43 AM

Delivered By: (Circle One) Sampler - UPS - Bus - Ot	Relinquished By:	Kating Ing	Relinquished Rv.	analyses. All claims including those for negligence and any oth service. In no event shall Cardinal be liable for incidental or cor	PLEASE NOTE: Liability and Dam			6	3 BF	-	0	1 marcine R	Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name: N(Project #: 24 6-0	Phone #:	city: Carlshoad	Address: 3101	Project Manager:	Company Name: \	(5
her: Carrest	Date: (5	W TIME BID	of or related to the performance of services hereu	중 목	nages. Cardinal's liability and client's exclusive rem			BAYMSON	BFNEMV-03		DENCMU - UI		Sample I.D.		natrina Taylor	NEM TANK PIT	NORTH ELMAR 50	0 4576 Project Owner	Fax #:	State:	boyd dr	ANDEGW PARKER	VER TEX RESOURCE	575) 393-2326 FAX (575) 393-2476
a Temp, 'C Sample Condition CHECKED BY: Turnaround Time: Standard Ba cool intact (Initials) Thermometer ID 113 HI407 Bhr Contraction Festor -0.307 H013 H1407 Bhr	Received By:		der by Cardinal, regardless of whether such claims	cause whatsoever shall be deemed waived unless made in writing and quential damages. Including without limitation, business interruptions, log	remedy for any claim arising whether based in contract of					2	~	×	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	MATRIX						NM Zip: 88 220			CE GROUP	3-2476
Initials	P	Alldaffe "	A A A A A A A A A A A A A A A A A A A	waived unless made in writing and received by caronal writin su carya are; compression or expo limitation, business interruptions, loss of use, or loss of the offics incurred by client. Its subsidiaries, limitation, business interruptions is based use or loss of the offics incurred variance or of harviers	act or tort, shall be limited to the amount paid by the client for the				E E	~	2710	× 3176	OTHER : ACID/BASE: ICE / COOL OTHER :	PRESERV. SAMPLING	Fax #:	Phone #:	State: N/M Zip: 88220	city: Carlsbac	Address: 3101 Boyd	Attn:	Company: VERTEX	P.O. #	BILL TO	
Turnaround Time: Standard Themometer ID MISTHILL Correction Factor 03C 40.3CH 8	Please send this	All Results are emailed. Please provide Email address: A parker @ Vertex. Ca & Katrina	erbai Result: 🗆 Yes 🗆 No	npresson or over approxime The subsidiarries. e or ofhanuieco	8				-	3.10	-1	X X X	Chloride GRO, PI BABBT	20),	<u>۸</u>		.0						
ol Intact Yes Yes Nc No	Coc as its or	. & Katrina . Tay	Add'l Phone #:																				ANALTOIS REQUEST	
ample Condition Observed Temp. °C Corrected Temp. °C	own repart	all address: Kathina, Taylor@ Vertex.Ca																						4

aboratories



March 31, 2025

ANDREW PARKER

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: NORTH EL MAR

Enclosed are the results of analyses for samples received by the laboratory on 03/27/25 13:20.

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.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		VERTEX RE ANDREW F 3101 BOYE CARLSBAD Fax To:	PARKER		
Received: Reported: Project Name: Project Number: Project Location:	03/27/2025 03/31/2025 NORTH EL MAR 24E - 04576 RURAL LEA			Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	03/26/2025 Soil Cool & Intact Tamara Oldaker

Sample ID: BF - SOIL (H251824-01)

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	03/28/2025	ND	1.87	93.5	2.00	19.4	
Toluene*	<0.050	0.050	03/28/2025	ND	1.93	96.7	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.95	97.7	2.00	7.15	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.87	97.9	6.00	4.32	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/29/2025	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	206	103	200	2.06	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	207	103	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					
Surrogate: 1-Chlorooctane	93.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	86.5	% 40.6-15	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 whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose 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 whose share there applied by the services arise of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

BS-	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	D Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

ato DIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Delivered By: (Circle One)	Kelinquisned by:	Katrina	Relinquished By:	PLEASE NOTE: Liability a analyses. All claims. Includ service. In no event shall C		1.	Lab I.D. Hts 1824	FOR LAB USE ONLY
Observed	Time 1/3	wlor	Y: Date:	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ana analyses. All claims including those for negligence and any other cause whatsorver shall be deemedy service. If no event shall Cardinal be liable for incidential or consequential damages, including without im attitudes or successor a single out of or include to the benchmarks of service to Cardinal, ing		BE-2011	Sample I.D.	
1.mp. C 1.3-	30	19	5/27 Rece	ve remedy for any claim soever shall be deemed nages, including without hereunder by Cardinal.		c	(G)RAB OR (C)OMP	
1	G	S	6	aris Imm			# CONTAINERS	

Company manage	VER TEX	Maan	C			10100			-	+		
Project Manager:	Andrew P				P.O. #:					-		
Address: 3(0)	Boyd de			0	Company:	Vertex				_		
city: Car	Carlsbod State: NM	Zip:	ñ	V 02288	Attn:		-					
e #:	Fax #:			A	Address:	510/ 60-10	d					
Project #: 24	Project #: 24 6-04576 Project Owner:	ler:		0	city: Co	Carlsbod)	_		
Project Name: Noch	North El Mar			S	State: N/A	NM Zip: 88220	220		2.C	_		
Project Location:	PI			G	Phone #:				M			
Sampler Name:	Kat			T	Fax #:				,			
FOR LAB USE ONLY	٦	+		MATRIX	PRESERV		SAMPLING	e	0_0	_		_
Lab I.D. Hes 1824	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER ACID/BASE	DATE	TIME	Chlorid	GRO, DE BTEX	BTEX		
Laolon	RT-Sil	0) (0	#		X IC	N	15:20	+	+	×		-
	BE-2011	0		×	×	3/26	15:20	×	×	×		
PLEASE NOTE: Liability ; analyses. All claims inclu- vervice in no event shall it	PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatboever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable survice. In no event shall Caurinal be liable for incidential or consequential damages, including without imitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	or any clai be deeme ding without	m arisir d waive of limita	ng whether based in contract or t ed unless made in writing and re stion, business interruptions, loss	ort, shall be limite ceived by Cardina of use, or loss of	d to the amount pai within 30 days after profits incurred by t	d by the client for the or completion of the client, its subsidiant	t applicable	+	ł		
Relinquished By:	out of or related to the performance of services hereur Date: P	10	ceiv	Received By	ch claim is based upon any of the above	the above stated re	Verbal Res	sult:	Yes	O No	Add'I Phone #:	
Katina Taylor				Nannal V		all of	All Results are en	are ema	alled. P	ailed. Please provide	All Results are emailed. Please provide Email address: aparther @ Ventex. Ca & Katrina. Taylor @ ventex. Ca	Taylor @ ver
Menniquisited s	by, i		000	TON DY.								

Received by OCD: 5/9/2025 10:05:43 AM

Sampler - UPS - Bus - Other:

Corrected Tamp

· C 1. 4 5

Cool Intact Yes Yes Sample Condition

> CHECKED BY: (Initials)

> > Turnaround Time:

Standard usu 0

XØ

Bacteria (only) Sample Condition

Observed Temp. °C Corrected Temp. °C

Cool Intact

Inermo orrection Factor ter ID

+ Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabshn.com

Page 140 of 149

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

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Page	141		147
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QUESTIONS

Action 460453

	QUESTIONS
Operator:	OGRID:
SAHARA OPERATING CO	20077
P.O. Box 4130	Action Number:
Midland, TX 79704	460453
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2400529349
Incident Name	NAPP2400529349 NORTH EL MAR 050 INJECTION LINE RELEASE @ 30-025-08305
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Well	[30-025-08305] NORTH EL MAR UNIT #050

Location of Release Source

Please answer all the questions in this group.	
--	--

Site Name	NORTH EL MAR 050 INJECTION LINE RELEASE
Date Release Discovered	12/13/2023
Surface Owner	Federal

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 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: Human Error Flow Line - Injection Produced Water Released: 32 BBL Recovered: 0 BBL Lost: 32 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)	The original C-141 is attached to the volume calculation worksheet. There is no documentation that the original C-141 dated December 29,2023 was received by NMOCD.	

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

Page 142 of 149

QUESTIONS, Page 2

Action 460453

QUESTIONS (continued)	
Operator:	OGRID:
SAHARA OPERATING CO	20077
P.O. Box 4130	Action Number:
Midland, TX 79704	460453
	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.		
he 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	Тгие	
All free liquids and recoverable materials have been removed and managed appropriately True		
If all the actions described above have not been undertaken, explain why Not answered. Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
I hereby agree and sign off to the above statement	Name: Andrew Parker Title: Consultant Email: aparker@vertexresource.com Date: 10/26/2024	

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

Page 143 of 149

Action 460453

QUESTIONS (continued)

Operator:	OGRID:
SAHARA OPERATING CO	20077
P.O. Box 4130	Action Number:
Midland, TX 79704	460453
	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	Attached Document
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	d the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
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 th	nat 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 co	ontained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride	(EPA 300.0 or SM4500 CI 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
	IMAC unless the site characterization report includes complete elines for beginning and completing the remediation.	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date wi	II the remediation commence	01/06/2025
On what date will (or did) the	ne final sampling or liner inspection occur	01/20/2024
On what date will (or was)	the remediation complete(d)	01/20/2025
What is the estimated surfa	ace area (in square feet) that will be reclaimed	6168
What is the estimated volume (in cubic yards) that will be reclaimed		914
What is the estimated surfa	ace area (in square feet) that will be remediated	6168
What is the estimated volu	me (in cubic yards) that will be remediated	914
These estimated dates and measu	rements are recognized to be the best guess or calculation at th	the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

General Information Phone: (505) 629-6116

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

State of New Mexico Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTI	ONS (continued)	
Operator: SAHARA OPERATING CO	OGRID: 20077	
P.O. Box 4130 Midland, TX 79704	Action Number: 460453	
	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		
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	LEA LAND LANDFILL [FEEM0112342028]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	No	
OR is the off-site disposal site, to be used, an NMED facility	No	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No	
(In Situ) Soil Vapor Extraction	No	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No	
Ground Water Abatement pursuant to 19.15.30 NMAC	No	
OTHER (Non-listed remedial process)	No	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed ef which includes the anticipated timelines for beginning and completing the remediation.	forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
to report and/or file certain release notifications and perform corrective actions for relea the OCD does not relieve the operator of liability should their operations have failed to a	nowledge and understand that pursuant to OCD rules and regulations all operators are required ises 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 is 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: Andrew Parker Title: Consultant	

Email: aparker@vertexresource.com

Date: 11/27/2024

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.

Energy, Minerals and Natural Resources

QUESTIONS, Page 4

Action 460453

Page 144 of 149

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

Page 145 of 149	Page	145	of 149
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QUESTIONS, Page 5

Action 460453

QUESTIONS (continued)	
Operator:	OGRID:
SAHARA OPERATING CO	20077
P.O. Box 4130	Action Number:
Midland, TX 79704	460453
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QU	ES	TIO	NS

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	Νο

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

QUESTIONS, Page 6

Page 146 of 149

Action 460453

QUESTIONS (continued)	
Operator:	OGRID:
SAHARA OPERATING CO	20077
P.O. Box 4130	Action Number:
Midland, TX 79704	460453
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	444427
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/25/2025
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	2000

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all r	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	10844
What was the total volume (cubic yards) remediated	2145
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	10844
What was the total volume (in cubic yards) reclaimed	2145
Summarize any additional remediation activities not included by answers (above)	Surface reclamation completed with seeding.
	closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of
to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to 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 ases 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 tially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed ing 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

I hereby agree and sign off to the above statement	Title: Consultant Email: aparker@vertexresource.com Date: 05/09/2025
	Date: 05/09/2025

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

QUESTIONS, Page 7

Page 147 of 149

Action 460453

QUESTIONS (continued)	
Operator:	OGRID:
SAHARA OPERATING CO	20077
P.O. Box 4130	Action Number:
Midland, TX 79704	460453
	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	10844	
What was the total volume of replacement material (in cubic yards) for this site	2145	
	four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 over 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)	05/08/2025	
Summarize any additional reclamation activities not included by answers (above)	Surface reclaimed and seeded.	
The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.		
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 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 ises which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or ially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed ng notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Andrew Parker Title: Consultant Email: aparker@vertexresource.com Date: 05/09/2025	

General Information Phone: (505) 629-6116

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

QUESTIONS (continued)

Operator:	OGRID:
SAHARA OPERATING CO	20077
P.O. Box 4130	Action Number:
Midland, TX 79704	460453
	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

Released to Imaging: 7/2/2025 10:55:58 AM

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

Action 460453

Page 148 of 149

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

CONDITIONS

Operator:	OGRID:
SAHARA OPERATING CO	20077
P.O. Box 4130	Action Number:
Midland, TX 79704	460453
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	7/2/2025

Page 149 of 149

Action 460453