Incident Number: nAPP2517841727



Release Assessment and Closure

Big Eddy Unit DI 9 Tank Battery

Unit A Section 28, Township 21 South, Range 30 East

Latitude and Longitude: 32.456906, -103.879339

County: Eddy

Vertex File Number: 25A-03553

Prepared for:

ExxonMobil Upstream Company

Prepared by:

Vertex Resource Services Inc.

Date:

September 2025

Release Assessment and Closure September 2025

Release Assessment and Closure Big Eddy Unit DI 9 Tank Battery

Unit A Section 28, Township 21 South, Range 30 East Latitude and Longitude: 32.456906, -103.879339 County: Eddy

Prepared for:

ExxonMobil Upstream Company 3104 East Greene Street Carlsbad, New Mexico 88220

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

September 9, 2025

Date

Chad Hensley B.Sc. GCNR SENIOR PROJECT MANAGER, REPORT REVIEW

Release Assessment and Closure September 2025

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Release Assessment and Closure September 2025

1.0 Introduction

ExxonMobil Upstream Company (ExxonMobil) retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment and Closure for a produced water release that occurred on June 21, 2025, at ExxonMobil Big Eddy Unit DI 9 Tank Battery (hereafter referred to as the "site"). ExxonMobil submitted an initial C-141 Release Notification to New Mexico Oil Conservation Division (NMOCD) on July 7, 2025. Incident ID number, nAPP2517841727, was assigned to this incident.

This report provides a description of the release assessment and 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) related to NMOCD has been met and all applicable regulations were 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 Incident Description

The release occurred on June 21, 2025, due to corrosion in a pipeline. The incident was reported on June 27, 2025, and involved the release of approximately 7 barrels (bbl.) of produced water and approximately 4 barrels (bbl.) of crude oil off pad with 2 barrels (bbl.) of contaminated free fluid removed during initial clean-up. Additional details relevant to the release are presented in the C-141 Report.

3.0 Site Characteristics

The site is located approximately 20.1 miles northeast of Carlsbad, New Mexico (Google INC., 2025). The legal location for the site is Unit A, Section 28, Township 21 South and Range 30 East in Eddy County, New Mexico. The release area is located on New Mexico State Trust Land. An aerial photograph and site schematic are presented in Figure 1.

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2025) indicates the site's surface geology primarily comprises Qp — Piedmont alluvial deposits (upper and middle Quaternary). The soil texture on the site is Loamy Sand. Additional soil characteristics include a drainage class of well drained to somewhat excessively drained with a runoff class very low. The karst geology potential for the site is high (United States Department of the Interior, Bureau of Land Management, 2018).

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

The surrounding landscape is associated with elevations ranging between 2,800 and 5,000 feet. The climate is semiarid with average annual precipitation ranging between 8 and 13 inches. Using information from the United States Department of Agriculture, the dominant vegetation was not specified. Grasses with shrubs and half-shrubs such as black grama, blue grama, and tobosa dominate the historical plant community (United States Department of Agriculture, Natural Resources Conservation Service, 2025). Limited to no vegetation is allowed to grow on the compacted right-of-way and access road.

Release Assessment and Closure September 2025

3.1 Vegetation Survey

The vegetation survey was conducted in and around the active remediation site, focusing on surrounding undisturbed and transitional areas to document existing plant communities. The purpose of the survey was to identify and record dominant vegetation types and confirm the absence of any sensitive, threatened, or endangered plant species. Observations included visual identification of species composition, density, and distribution within the survey boundary. The site is characterized by a semi-arid rangeland dominated by native grasses and drought-tolerant mesquite/tarbrush, with scattered evidence of prior disturbance associated with remediation activities. No occurrences of New Mexico State Land Office (NMSLO) -listed sensitive plant species or wildlife were observed during the survey. The vegetation survey associated with the report are included in Appendix D.

4.0 Closure Criteria Determination

The nearest active well to the site is a New Mexico Office of the State Engineer monitoring well located approximately 1.32 miles northwest of the site (United States Geological Survey, 2025). Information pertaining to the depth to ground water determination is included in Appendix A.

There is no surface water present at the site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is a Freshwater Emergent Wetland (National Wetlands Inventory) located approximately 0.86 miles northeast of the site (United States Fish and Wildlife Service, 2025).

At the site, there are no continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

Release Assessment and Closure September 2025

Closure C	riteria Determination						
	e: Big Eddy Unit DI 9 Battery						
	dinates: 32.456906,-103.879339						
Site Speci	fic Conditions	Value	Unit				
	Depth to Groundwater (nearest reference)	>165	feet				
1	Distance between release and nearest DTGW	6,973	feet				
_	reference	1.32	miles				
	Date of nearest DTGW reference measurement	Decembe	r 20, 2014				
2	Within 300 feet of any continuously flowing	1,015	feet				
	watercourse or any other significant watercourse						
3	Within 200 feet of any lakebed, sinkhole or playa	17,545	feet				
	lake (measured from the ordinary high-water mark)	•					
4	Within 300 feet from an occupied residence, school, hospital, institution or church	34,788	feet				
	i) Within 500 feet of a spring or a private, domestic						
	fresh water well used by less than five households	105,656	feet				
5	for domestic or stock watering purposes, or						
	ii) Within 1000 feet of any fresh water well or spring	105,656	feet				
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	cipal fresh water field cipal ordinance adopted No 27-3 NMSA 1978 as amended,					
7	Within 300 feet of a wetland	4,759	feet				
	Within the area overlying a subsurface mine	No	(Y/N)				
8	Distance between release and nearest registered mine	20,872	feet				
9	Within an unstable area (Karst Map)	High	Critical High Medium Low				
	Distance between release and nearest unstable area		feet				
	Within a 100-year Floodplain	500	year				
10	Distance between release and nearest FEMA Zone A (100-year Floodplain)	5,303	feet				
11	Soil Type	Pajarito-Dune	land complex				
12	Ecological Classification	Loam	y Sand				
13	Geology	Qp – Piedmont alluvial deposits					
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	<50' 51-100' >100'				

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The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 2.

Table 2. Closure Criteria for Soils Impacted by a Release DTGW <50 feet bgs & High Karst								
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Limit						
	Chloride	600 mg/kg						
450 feet	TPH (GRO+DRO+MRO)	100 mg/kg						
< 50 feet	BTEX	50 mg/kg						
	Benzene	10 mg/kg						

TDS – total dissolved solids

TPH - total petroleum hydrocarbons, GRO - gas range organics, DRO - diesel range organics, MRO - motor oil range organics

BTEX - benzene, toluene, ethylbenzene and xylenes

DTGW - depth to groundwater

BGS - below ground surface

5.0 Remedial Actions Taken

An initial site inspection of the release area was completed on June 24, 2025. Characterization of the release area was started July 2, 2025, and completed on July 8, 2025, which identified the area of the release specified in the initial C-141 Reports, estimated the approximate volume of the release and white lined the area required for the One Call request. The impacted area for the Incident was determined to be approximately 3,330 square feet in size or 123 cubic yards. Samples points BH25-01 through BH25-15 were established to characterize the release (Figure 1). The Daily Field Reports (DFRs) associated with the site inspection are included in Appendix B. Characterization field screening and laboratory results are summarized in Table 3.

Remediation efforts began on July 18, 2025, and were finalized on August 7, 2025. Remediation efforts guided by Vertex personnel excavated 4,633 square feet or 172 cubic yards of impacted soil. Soil was removed to a minimum of 1 feet bgs and a maximum depth of 6 feet bgs. Impacted soil was transported by a licensed waste hauler and disposed of at Lealand an approved waste management facility. Field screening results and DFRs documenting various phases of the remediation are presented in Appendix B.

Notification that confirmatory samples were being collected was provided to the NMOCD for sampling on July 21, 2205. Confirmatory composite samples were collected from the base and walls of the excavation in 200 square foot increments. A total of 52 samples were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Envirotech 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 Method 300.0). Laboratory results are presented in Table 4, and the laboratory data reports are included in Appendix C. All confirmatory samples collected and analyzed were below closure criteria for the site.

Release Assessment and Closure September 2025

6.0 Closure Request

Vertex recommends no additional remediation action to address the impacted area at the site. Laboratory analyses of confirmation samples collected show final confirmatory values below NMOCD closure criteria for areas where depth to groundwater is less than 50 feet bgs and in high karst potential. There are no anticipated risks to human, ecological, or hydrological receptors at the site.

The excavation was backfilled with uncontaminated earthen material sourced locally and placed to meet the site's existing grade to prevent water ponding and erosion. Samples were collected from the top-soil material prior to backfill activities. Analytical data pertaining to the backfill samples is included in Table 4. The top layer of the backfill was seeded on September 5, 2025, with the State Land Office (SLO) recommended seed mixture for loamy soils.

Vertex requests that this open incident be approved for reclamation closure as all requirements set forth in 19.15.29 NMAC have been met. ExxonMobil certifies that all information and appendices in this report are correct and that they have complied with all applicable closure requirements and conditions. The site will be monitored bi-annually until it reaches at least a 70% revegetation. A Revegetation Report will be submitted to NMOCD and SLO when the site has been successfully revegetated.

7.0 Land Reclamation

The land reclamation for the site (surface reclamation) is detailed below. This section outlines the principles that were used during the surface reclamation phase for the site. The DFR and site photographs obtained during reclamation procedures are included in Appendix B.

7.1 End Land Use and Capability

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

7.2 Restoration of Drainage

Currently, the site consists of a pasture area that slopes southward along the pipeline right-of-way. The site was contoured to match surrounding topography as near as practicable to restore natural drainage, which was generally in a west-to-east direction. Any compaction on-site was addressed by de-compaction to an approximate depth of 6 inches to avoid caliche material from resurfacing. The decompaction was completed in the direction in which the area is sloped to ensure that future rainfall will be able to drain away from the site. All de-compaction activities were conducted post-backfill procedures and pre-seeding to maximize seed to soil contact and promote vegetation establishment.

Release Assessment and Closure September 2025

7.3 Soil Replacement

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

7.4 Erosion Control

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

7.5 Re-vegetation

7.5.1 Seeding

A seed mix suitable for the site and surrounding area was used and applied at appropriate rates. Seed establishment and re-vegetation will be monitored, bi-annually, to determine success. A SLO loamy seed mix consisting of Sideoats grama – 2.0 lb/acre, Blue grama – 2lb/acre, Sand dropseed – 1lb/acre, Galleta grass – 2.5lb/acre, Little bluestem – 2.5lb/acre was obtained for the site and administered by Vertex personnel. Seeding was completed using a drone with rotating discs and broadcasted on all areas under reclamation. Photo documentation of the excavation area after backfilling and seeding is included in Appendix B.

7.6 Weed Management

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

The vegetation survey was conducted in and around the active remediation site, focusing on surrounding undisturbed and transitional areas to document existing plant communities. The purpose of the survey was to identify and record dominant vegetation types and confirm the absence of any sensitive, threatened, or endangered plant species. Observations included visual identification of species composition, density, and distribution within the survey boundary. The site is characterized by a semi-arid rangeland dominated by native grasses and drought-tolerant mesquite/tarbrush, with scattered evidence of prior disturbance associated with remediation activities. No occurrences of NMSLO-listed sensitive plant species or wildlife were observed during the survey.

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

8.0 Monitoring Program

Bi-annual inspections will be conducted, during the growing season, to monitor site progression and assess the need for additional best management practices (BMPs). Inspections will include photographs of the site and BMPs implemented. Revegetation success will be considered complete when the site reaches 70% coverage.

8.1 Final Assessment and Closure Request

Release Assessment and Closure September 2025

During the bi-annual inspections, if site conditions are at or nearing background conditions, a final re-vegetation report will be completed. The report will provide a summary of the vegetation establishment, a summary and interpretation of monitoring data collected, interpretation of historical monitoring data, and suggested corrective actions if applicable.

Should you have any questions or concerns, please do not hesitate to contact Chad Hensley at 575.246.0032 or chensley@vertexresource.com.

Release Assessment and Closure September 2025

9.0 References

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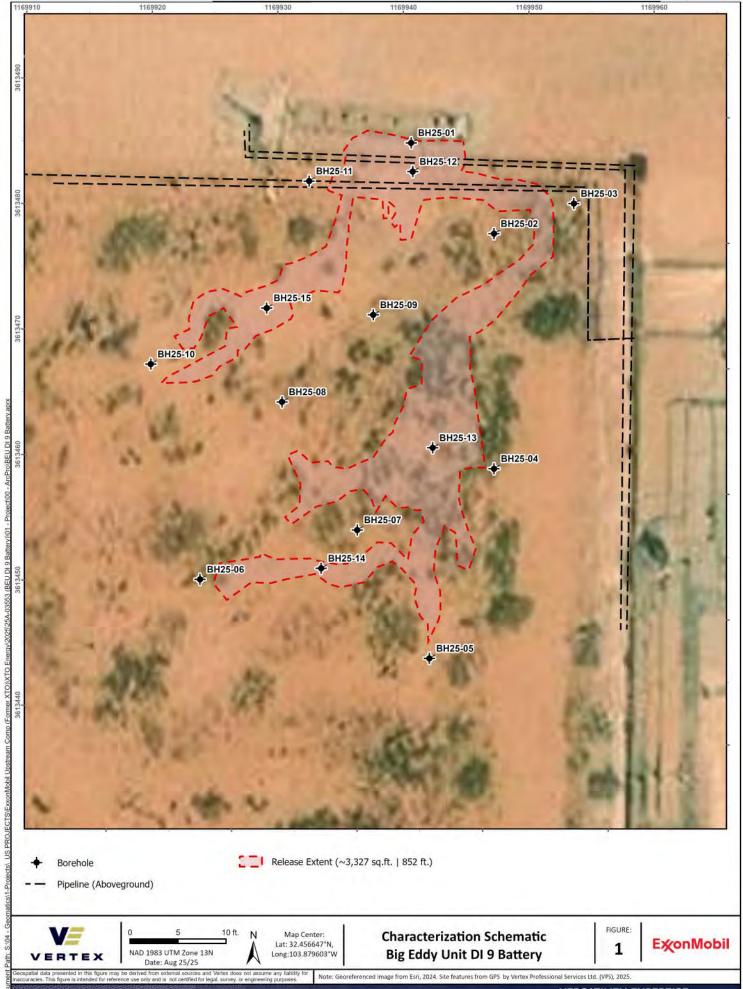
Release Assessment and Closure September 2025

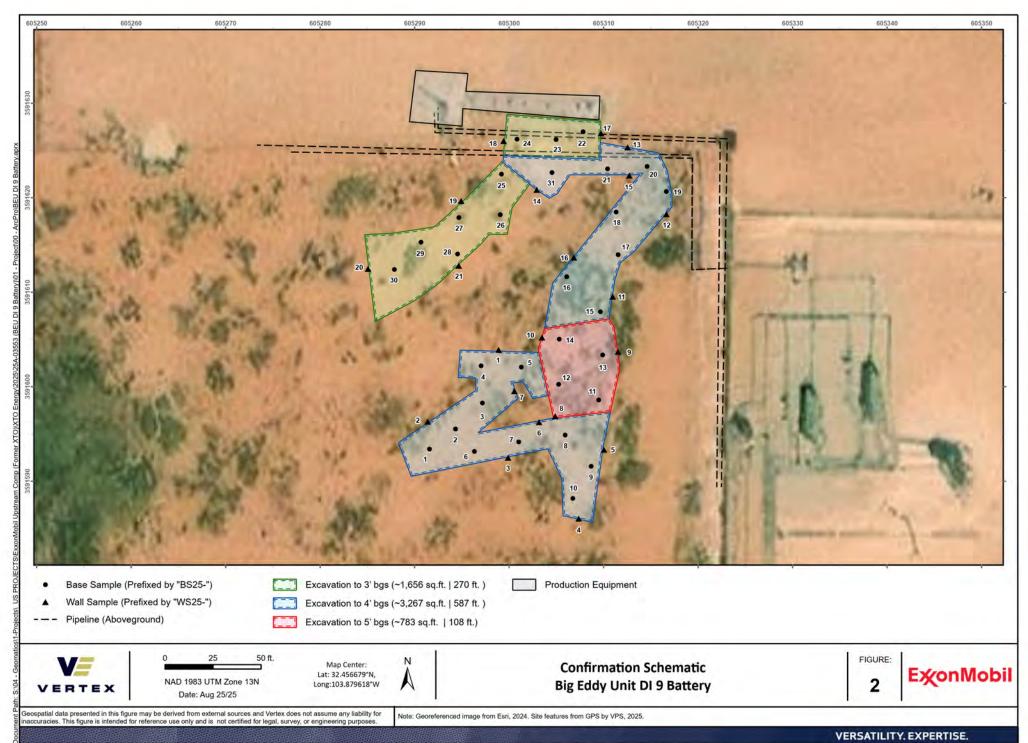
10.0 Limitations

This report has been prepared for the sole benefit of ExxonMobil Upstream 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 ExxonMobil Upstream 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. The conclusions and recommendations presented in this report should not be considered legal advice.

FIGURES





TABLES

Client Name: ExxonMobil Upstream Company

Site Name: Big Eddy Unit DI 9

NM OCD Tracking #: nAPP2517841727

Project #: 25A-03553

Lab Reports: H254029, H254106

		Table 3. Initial Char	acterizatio	on Sample	and Labo	ratory Res	sults		
	Sampl	e Description		P	etroleum H	lydrocarbo	ns		
			Vol	atile		Extra	ctable		Inorganic
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
				D		oundwater	< 50 feet b	gs	
BH25-01	0	July 2, 2025	ND	ND	ND	ND	ND	ND	64
	1	July 7, 2025	ND	ND	ND	ND	ND	ND	64
BH25-02	0	July 2, 2025	ND	ND	ND	ND	ND	ND	48
	1	July 7, 2025	ND	ND	ND	ND	ND	ND	128
BH25-03	0	July 2, 2025	ND	ND	ND	ND	ND	ND	ND
	1	July 7, 2025	ND	ND	ND	ND	ND	ND	32
BH25-04	0	July 2, 2025	ND	ND	ND	ND	ND	ND	ND
	1	July 7, 2025	ND	ND	ND	ND	ND	ND	64
	0	July 2, 2025	ND	ND	ND	ND	ND	ND	ND
	1	July 7, 2025	ND	ND	ND	ND	ND	ND	432
BH25-05	2	July 7, 2025	ND	ND	ND	ND	ND	ND	624
	3	July 7, 2025	ND	ND	ND	ND	ND	ND	272
	4	July 7, 2025	ND	ND	ND	ND	ND	ND	176
	0	July 2, 2025	ND	ND	ND	ND	ND	ND	ND
	1	July 7, 2025	ND	ND	ND	ND	ND	ND	144
BH25-06	2	July 7, 2025	ND	ND	ND	ND	ND	ND	288
	3	July 7, 2025	ND	ND	ND	ND	ND	ND	112
	4	July 7, 2025	ND	ND	ND	10	ND	ND	112
BH25-07	0	July 2, 2025	ND	ND	ND	ND	ND	ND	ND
B1123 07	1	July 7, 2025	ND	ND	ND	ND	ND	ND	64
BH25-08	0	July 2, 2025	ND	ND	ND	ND	ND	ND	ND
51123 00	1	July 7, 2025	ND	ND	ND	ND	ND	ND	160
BH25-09	0	July 2, 2025	ND	ND	ND	ND	ND	ND	ND
51125 05	1	July 7, 2025	ND	ND	ND	ND	ND	ND	432
	0	July 7, 2025	ND	ND	ND	ND	ND	ND	ND
	1	July 7, 2025	ND	ND	ND	ND	ND	ND	80
BH25-10	2	July 7, 2025	ND	ND	ND	ND	ND	ND	144
	3	July 7, 2025	ND	ND	ND	ND	ND	ND	256
	4	July 7, 2025	ND	ND	ND	ND	ND	ND	208



	Sampl	e Description							
			Vol	atile		Extra	ctable		Inorganic
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
				D	epth to Gro	undwater	< 50 feet b	gs	
BH25-11	0	July 7, 2025	ND	ND	ND	ND	ND	ND	ND
D1123-11	1	July 7, 2025	ND	ND	ND	ND	ND	ND	ND
BH25-12	0	July 2, 2025	11	307	3400	13800	1840	19358	ND
DIIZS IZ	1	July 7, 2025	2.31	71.7	2100	25400	4460	32034.01	160
	0	July 7, 2025	2.31	71.7	2100	25400	4460	31960	1410
	1	July 7, 2025	23.9	588	3470	8730	1130	13330	8000
BH25-13	2	July 7, 2025	48.1	1350	19700	40600	4670	64970	192
	3	July 7, 2025	ND	1	ND	93	ND	93	128
	4	July 7, 2025	ND	1	ND	12.8	ND	ND	352
	0	July 7, 2025	ND	37.1	486	9450	1260	11196	1260
	1	July 7, 2025	ND	ND	ND	ND	ND	ND	1060
BH25-14	2	July 7, 2025	ND	ND	ND	103	19	122	560
	3	July 7, 2025	ND	ND	ND	ND	ND	ND	240
	4	July 7, 2025	ND	ND	ND	24	ND	ND	208
	0	July 7, 2025	ND	14	936	16400	2900	20236	1280
	1	July 7, 2025	ND	37	919	66000	968	67887	432
BH25-15	2	July 7, 2025	ND	ND	ND	36	ND	ND	512
	3	July 7, 2025	ND	ND	ND	ND	ND	ND	128
	4	July 7, 2025	ND	ND	ND	ND	ND	ND	48

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

Bold and grey shaded indicates exceedance outside of NM OCD Closure Criteria (off-pad)



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

Client Name: ExxonMobil Upstream Company Site Name: Big Eddy Unit DI9 Tank Battery NMOCD Tracking #: nAPP2517841727

Project #: 25A-03553

Lab Report(sX): H254592, H254663, H254915

Table 4. Confirmatory Sample and Laboratory Results												
	Sample Descrip			, .		eum Hydrod						
	l i		Vol	atile			Extractable	:		Inorganic		
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration		
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)		
				Depth to Groundwater ≤ 50 feet bgs								
BS25-01	4	July 25, 2025	ND	ND	ND	ND	ND	ND	ND	48		
BS25-02	4	July 25, 2025	ND	ND	ND	ND	ND	ND	ND	80		
BS25-03	4	July 25, 2025	ND	ND	ND	ND	ND	ND	ND	192		
BS25-04	4	July 25, 2025	ND	ND	ND	ND	ND	ND	ND	176		
BS25-05	4	July 25, 2025	ND	ND	ND	97	ND	97	97	112		
BS25-06	4	July 25, 2025	ND	ND	ND	ND	ND	ND	ND	224		
BS25-07	4	July 25, 2025	ND	ND	ND	ND	ND	ND	ND	224		
BS25-08	4	July 25, 2025	ND	ND	ND	125	10	125	135	224		
	4	August 7, 2025	ND	ND	ND	ND	ND	ND	ND	32		
BS25-09	4	July 25, 2025	ND	ND	ND	ND	ND	ND	ND	176		
BS25-10	4	July 25, 2025	ND	ND	ND	38	ND	38	38	192		
BS25-11	5	July 25, 2025	ND	ND	ND	224	37	224	261	224		
	5	August 7, 2025	ND	ND	ND	15	ND	15	15	48		
BS25-12	5	July 25, 2025	ND	ND	ND	13	ND	13	13	144		
BS25-13	5	July 25, 2025	ND	ND	ND	22	ND	22	22	144		
BS25-14	5	July 25, 2025	ND	ND	ND	50	ND	50	50	368		
BS25-15	4	July 25, 2025	ND	ND	ND	57	10	ND	67	384		
BS25-16	4	July 25, 2025	ND	ND	ND	48	ND	48	48	320		
BS25-17	4	July 25, 2025	ND	ND	ND	177	31	177	208	336		
	4	August 7, 2025	ND	ND	ND	ND	ND	ND	ND	16		
BS25-18	4	July 28, 2025	ND	ND	ND	107	16	107	123	432		
	4	August 7, 2025	ND	ND	ND	19	ND	19	19	ND		
BS25-19	4	July 28, 2025	ND	ND	ND	135	21	135	156	560		
	4	August 7, 2025	ND	ND	ND	14	ND	14	14	48		
BS25-20	4	July 28, 2025	ND	ND	ND	ND	ND	ND	ND	32		
BS25-21	4	July 28, 2025	ND	ND	ND	19	ND	19	19	64		
BS25-22	3	July 28, 2025	ND	ND	ND	16	ND	16	16	288		
BS25-23	3	July 28, 2025	ND	ND	ND	32	ND	32	32	304		
BS25-24	3	July 28, 2025	ND	ND	ND	17	ND	17	17	304		
BS25-25	3	July 25, 2025	ND	ND	ND	ND	ND	ND	ND	384		
BS25-26	3	July 28, 2025	ND	ND	ND	ND	ND	ND	ND	416		
BS25-27	3	July 28, 2025	ND	ND	ND	ND	ND	ND	ND	176		
BS25-28	3	July 28, 2025	ND	ND	ND	ND	ND	ND	ND	160		
BS25-29	3	July 28, 2025	ND	ND	ND	84	ND	84	84	240		
BS25-30	3	July 28, 2025	ND	ND	ND	84	13	84	97	240		



BS25-31	4	July 28, 2025	ND	ND	ND	90	15	90	105	256
D323-31	4	August 7, 2025	ND	ND	ND	77	15	77	92	240
WS25-01	0-4	July 28, 2025	ND	160						
WS25-02	0-4	July 28, 2025	ND	464						
WS25-03	0-4	July 28, 2025	ND	400						
WS25-04	0-4	July 28, 2025	ND	144						
WS25-05	0-4	July 28, 2025	ND	112						
WS25-06	0-4	July 28, 2025	ND	144						
WS25-07	0-4	July 28, 2025	ND	352						
WS25-08	0-5	July 28, 2025	ND	144						
WS25-09	0-5	July 28, 2025	ND	416						
WS25-10	0-5	July 29, 2025	ND	256						
WS25-11	0-4	July 29, 2025	ND	256						
WS25-12	0-4	July 29, 2025	ND	ND	ND	31	ND	31	31	352
WS25-13	0-4	July 29, 2025	ND	ND	ND	24	ND	24	24	320
WS25-14	0-4	July 29, 2025	ND	96						
WS25-15	0-4	July 29, 2025	ND	ND	ND	80	ND	80	80	256
WS25-16	0-4	July 29, 2025	ND	288						
WS25-17	0-3	July 29, 2025	ND	ND	ND	71	12	71	83	320
WS25-18	0-3	July 29, 2025	ND	ND	ND	87	17	87	104	336
W323-18	0-3	August 7, 2025	ND	ND	ND	21	ND	21	21	144
WS25-19	0-3	July 29, 2025	ND	ND	ND	77	ND	77	77	208
WS25-20	0-3	July 29, 2025	ND	ND	ND	74	ND	74	74	272
WS25-21	0-3	July 29, 2025	ND	96						
BF Sand	0	July 29, 2025	ND	16						
BF Caliche	0	July 29, 2025	ND	176						

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

Bold and green shaded indicates exceedance outside of NMOCD Reclamation Criteria (off-pad)

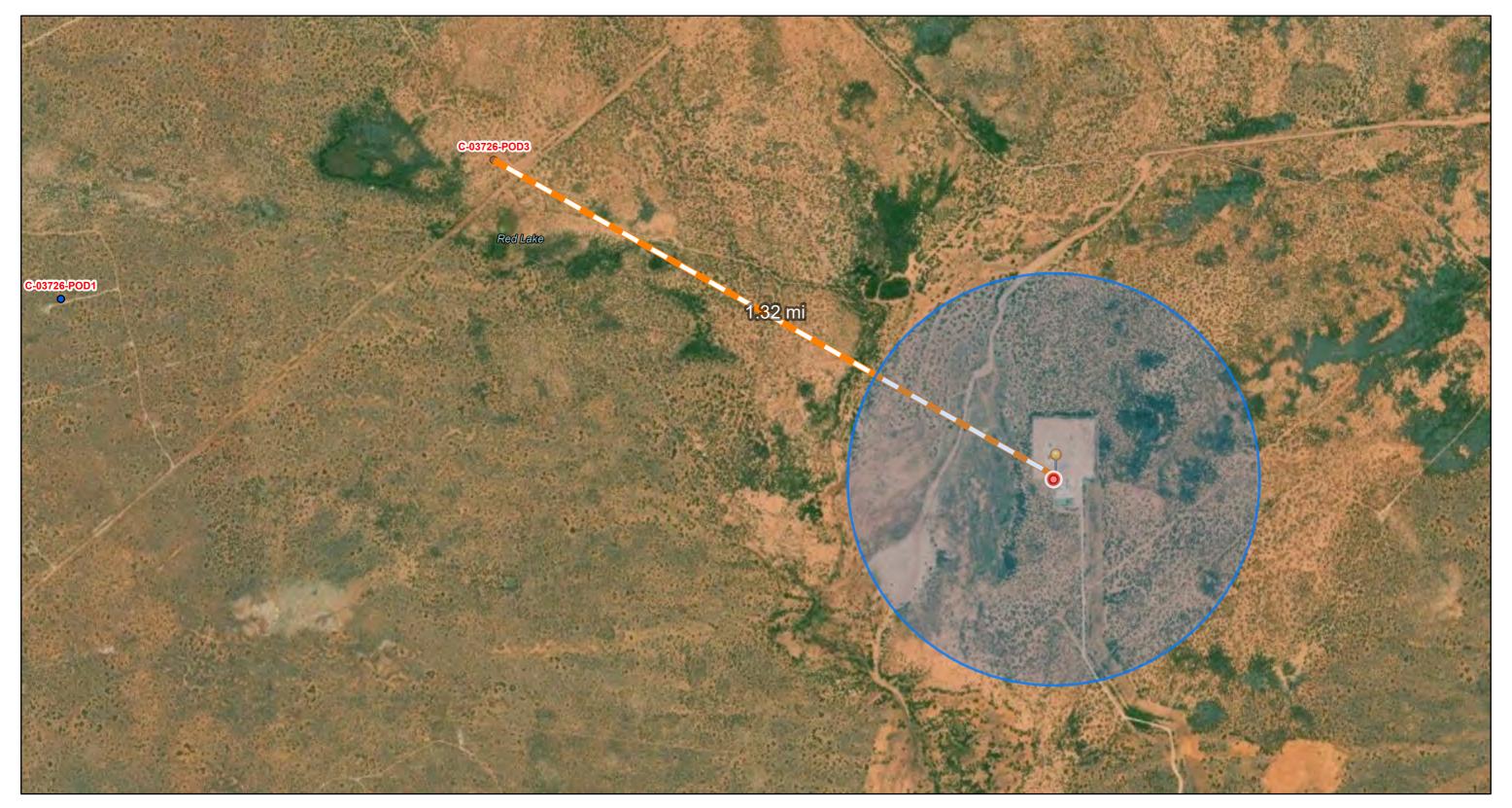


[&]quot;BF" Indicates Backfill

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

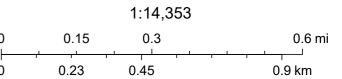
APPENDIX A - Closure Criteria Research Documentation

OSE POD Locations Map



8/2/2025, 2:31:33 PM GIS WATERS PODs

Active





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

Point of Diversion Summary

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

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Υ	Мар
	C 03726 POD3	SE	SW	NE	20	215	30E	603463.1	3592652.8	

* UTM location was derived from PLSS - see Help

Casing Size:	5.00	Depth Well:	166	Depth Water:	
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Log File Date:	2015-02-13	PCW Rcv Date:		Source:	Shallow
Drill Start Date:	2014-12-03	Drill Finish Date:	2014-12-20	Plug Date:	
Driller Name:	MARK GREEN	N			
Driller License:	1210	Driller Company:	CASCADE DRILLING, LP		

Casing Perforations:

Тор	Bottom
101	105
105	145

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

8/2/25 2:10 PM MST Point of Diversion Summary

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WELL RECORD & LOG ROSWELL HEW MEXICO

OFFICE OF THE STATE ENGINEER

2015 FEB 13 PH 1: 45

www.ose.state.nm.us

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z	Pod-3iP	•	LL NUMBER)				OSE FILE N				
110	:	VER NAME(S)				-	PHONE (OP)	3726			
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ĭ	iš .	NER MAILING	ADDRESS				CITY	1 - 2 - 2 - 10 - 10 - 10 - 10 - 10 - 10	STATE	ZIP	
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₹	(FROM G	<u> </u>	NGITUDE 103	53	56.60	· w	* DATUM RI	EQUIRED: WGS 84		•	
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1. G						ob (acct) or,	0 1114511311 ; 19 IK4	OL) WITCHE PROPERTY			
<u> </u>	LICENSEN	UMBER	NAME OF LICENSED	DRUIER				NAME OF WELL DR	II I ING COMPANY		
	WD-121		Bryan Nydoske	DICEDER				National EWP	ILLING COMPANY		
	DRILLING	STARTED	DRILLING ENDED	DEPTH OF COMPLE	TED WELL (FT)	BORE HO	E DEPTH (FT)	DEPTH WATER FIR	ST ENCOUNTERED (FT)	
	12-3-14	-	12-20-15	166.2	, ,	270	` ,	NA	·	,	
		*			 	<u> </u>	· , .,,,	STATIC WATER LEV	VEL IN COMPLETED WI	ELL (FT)	
z	COMPLETE	D WELL IS:	O ARTESIAN	O DRYHOLE (SHALLOW (UNC	ONFINED)		NA ·		-	
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N. N.	DRILLING METHOD: C ROTARY • HAMMER C CABLE TOOL C OTHER – SPECIFY:										
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[5	FROM TO		DIAM		ADE asing string, and	CONN	ECTION	INSIDE DIAM.	THICKNESS	SIZE	
ASI			(inches)	note sections of screen)		TYPE		(inches)	(inches)	(inches)	
જ	0	101	13 3/8	PVC		flush		5"	80		
DRILLING	101	105	11 3/4	PVC .		flush		5"	80	.020	
ILL.	105	145	10 5/8	PVC		flush		5"	80	.020	
DR	145	165	10 5/8	PVC		Flush		5"	80		
6											
			-							<u>-</u>	
			-							-	
19 19 11											
	DEPTH	(feet bgl)	BORE HOLE	LIST A	NULAR SEAL MA	TERIAL A	ND	AMOUNT	МЕТНО	D OF	
ΨĽ	FROM	то	DIAM. (inches)		PACK SIZE-RANG			(cubic feet)	PLACEN		
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1AT	20	79.3	13 3/8	Quick grout			. <u>.</u>	52	trimed		
4	79.3	101	13 3/8	Chips		·		29.7	trimed		
ULA	101	135	11 3/4	8 1/2 sand				27.5	trimed		
ANNULAR MATERIAL	135	171	10 5/8	8 1/2 sand				29.3	trimed		
3. A	171	267	10 5/8	chips				57.9			
1	267	270	105/8	hole cave in							
FOR	OSE INTER	NAL USE		<u>"</u>			WR-2	0 WELL RECORD &	& LOG (Version 06/0	8/2012)	
	NUMBER	C.	3726		POD NUMBER	3		NUMBER 5	12145	—— <u> </u>	
LOC	ATION	<u>a15.</u>		12.3.4				Monit	DY PAGE	1 OF 2	
								<u></u>			

STATE ENGINEER OFFICE

	DEPTH (f	eet bgl)	THICKNESS (feet)	COLOR AND TRYPE OF MATERIAL ÉNCOUNTERED INCLUDE WATER-BEARING CAVITIES OR FRACTURE 2 (attach supplemental sheets to fully describe all units)	ZONES BEARING?	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
				See Attached	CYCN	
					CYCN	· · · · · · · · · · · · · · · · · · ·
					CACN	······································
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HYDROGEOLOGIC LOG OF WELL					C Y C N	
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1 1 1 1 14				OF WATER-BEARING STRATA: PUMP	TOTAL ESTIMATED	
	C AIR LIFT	<u> </u>	BAILER (•)	OTHER SPECIFY:	WELL YIELD (gpm):	
Š	WELL TEST	TEST STAR	RESULTS - ATT. T TIME, END TI	ACH A COPY OF DATA COLLECTED DURING WELL TESTING ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN	, INCLUDING DISCHARGE N NOVER THE TESTING PERIO	ÆTHOD, D.
VISION	MISCELLAN	EOUS IN	FORMATION:			
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ns 5						
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EST	PRINT NAM	E(S) OF D	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL	CONSTRUCTION OTHER TH	AN LICENSEE:
Ň	Del Leavit	t				
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SIGNATURE	CORRECT R	ECORD O	F THE ABOVE D	IES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND I ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WE 0 DAYS AFTER COMPLETION OF WELL DRILLING:	BELIEF, THE FOREGOING IS LL RECORD WITH THE STAT	A TRUE AND E ENGINEER
GNA	_	7/1.				
6. SI		wn	<u> </u>	many Green	2-8-15	
	 	SIGNAT	URE OF DRILLE	R / PRINT SIGNEE NAME	DATE	
FOI	R OSE INTERN	AL USE		WR_20	WELL RECORD & LOG (Ven	sion 06/08/2012)

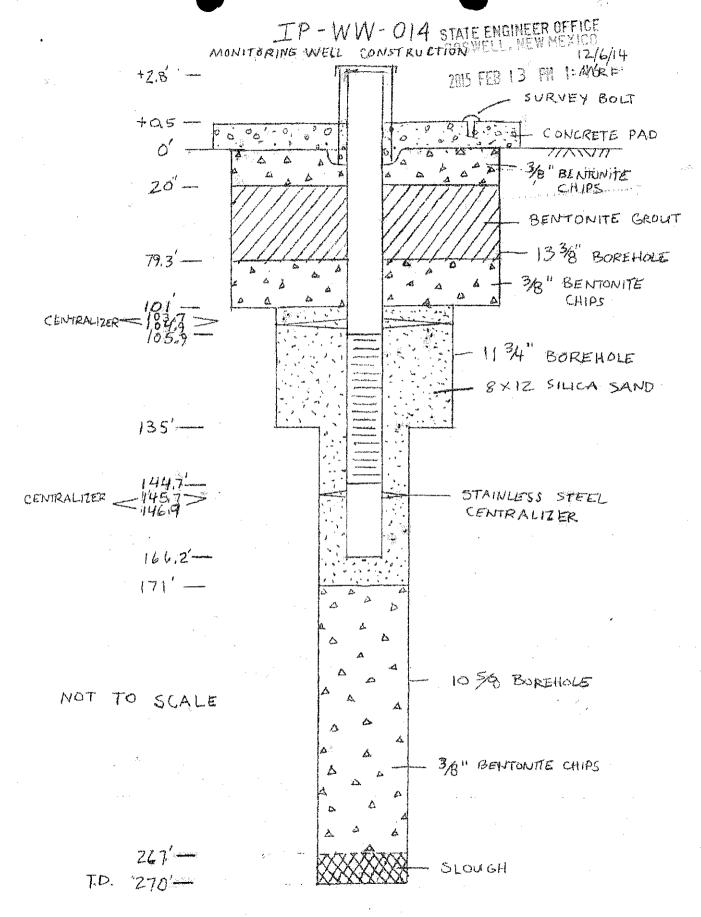
POD NUMBER

TRN NUMBER

PAGE 2 OF 2

FILE NUMBER

LOCATION



TEMPORARILY CASED TO 100 FEET WITH 13 30 CASING TEMPORARILY CASED TO 135 FEET WITH 11 34 CASING

_			1	
•	EXPLORATOR BORING NUMBER	Y BORING LOG IP-WW-014 2015 FEB 13 ST		PAGE: 1 of 6
	OWNER Intrepid	Potash PROJECT NAME West Mine Monitoring Wells		NOTES
ł				SW4 NE
	PROJECT NUMBER		70	Section 2
1	DRILLING CONTRAC		1 70 pm	T215, R3
1	2.2	Air Rotary/DH Hammer 1ST GROUNDWATER CS+ 98 STATIC		
H	LOGGED BY Mike Fr	ee (GRAB SAMPLES) DATE STARTED 12/3/2014 DATE CO	DIMPLETED	
DEPTH (FT)	SAMPLED NTERVAL/ IMPLE TYP VAPHIC LOC		The state of the s	
L	S S	MATERIAL DESCRIPTION		WELL DIAGRAI
	X	O to 35 FEET: SILTY SAND (SM) DARK REDDISH BROWN (2.54R 3/ FINE SAND, SILT, DISCONTINUOUS LE M. CALICHE GRAVEL, DRY	4) VSES OF F	70
	X SM	@ 8 FEET: BEDDISH BROWN (2.5 YR 4/4)		
	$ J \setminus V = 1$			
10		15		
\perp		@ 12 PEET: CALICHE GRAVEL-RICH ZONE (2.5 YR 5/)	2gD	
		(2.5 YR 5/)	The second secon	
			A strain	
15	ا اعجادا	@ 15 FORT REDDISH BROWN (2548 4/4	D	
-		The state of the s		
-			<u> </u>	
20	╢╳╢┈┈	respective and a second of the		
F		in the second		
		6 22 FOET RED (2.54R 4/6)		
		and the second s		
25	X	@ 26 POST CALICHE - CEMENTED - SAND	PAVEL	· 1.
-		LIGHT RED (2.5 YR. 6/6) CALICHE IS PINKISH WHITE (7.5 YR LIGHT REDDISH BROWN (5 YR 6/4);	863TA	
1		LALICHE IS VINK IS WATER TO THE	SOME	
1	$4\Lambda \approx 1$	FRAGMENTS PORCELLANEOUS WITH	SUSPENIAL)	
30		SAND GRAINS		
		enter de la companya del companya del companya de la companya de l		
			<u> </u>	
}-		Approximate and the second of		
35		@ 35 FFFT. SAND SPI: YED 2.54	4/6\	and the second s
		@ 35 FEET. SAND SP); YED 2,54R 952 PINE SAND, 3% FINES, MOS	ZY SILT	- Constitution of the Cons
	SP.	SOME CARBONATE CEMENT FEW	SILTSEME	
		FRAGMENTS		
	>< SM			Application and Australian and Australian Company of the Company o
40	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	038 FT SILTY SAND (3M); RED (ZISY 80% FINE SAND; ZO'D FINES; FRAM PIECES; CALCAREOUS STRONG WITH 5% HCL C 43 FEET: SAND WITH SILT (SP-SM)	R 4/6)	
		80% FINE SAND; ZOTO FINES: FRA	E SILTSTON	
_		PIECES; CALCAREOUS, STRONG	EHORVESTE	
	1521	WITH 5% HCL	Det.	the state of the s
		G HORET SAND WITH SILT (SP-SM)	; K#D	Andrew Commencer State of the Commencer
143	SM	(2.5 VR 5/6)		

۱	EXPLO	RATOR	Y BORING L	OG	En	45a 9087		EEK UFFIL EW MEXICO	,		
į			IP-WW-					FM 1: 46	j P	PAGE 2 of 6	
_		Intrepid		····	PROJECT NAME Grou			2,81 3. A.C	` 	NOTES	
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	SAMPLED INTERVAL/ AMPLE TYPE	907.0								•	
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	1°53	<u> </u>		MATERIA	AL DESCRIPTION					WELL DIAGRAN	
			945 FEET	SILTY	SAND (SM.)	KEDUISH	BROW	M (2,3 YR !	4)	And the second second	
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3/3 37.	> <	5P-5M	M	STLY SI	ILT, MUCH	CAUCHE	SANI) steong	-		
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	*		@ 70 FE	ST: 516	TY SAND (S FINESAND; A LCAREOUS	M) · RED	(25	YR 4/6)		And the second s	
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_	BORING N	UMBER	PP = 11111 = 014	
	OWNER	Intrepid	· · · · · · · · · · · · · · · · · · ·	NOTES
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	SAM	SRA	MATERIAL DESCRIPTION	WELL DIAGE
·		DEWEY	AND ADDRESS OF THE PROPERTY OF	W. Control of the Con
		LAKE		
00	 	FM		
			@ 102 FEET; SILTSTONE; RED (2.5YR 4/6);	
			MODERATE EFFERVESCEINE WITH 5% HU	
.05		<u> </u>	@ 105 FEET: AS ABOVE	
	-		@ 105.5 FEET	
	×	A. 4	Authorization and the life of the sentence	
	<u> </u>	f	@ 107 FEET: ANHYDRITE, CALICHE, SANDSTAND	
10	7	ANHY-	@ 110 FEET; DRILLER SAYS DRILLING EASED	
		DRHE		
- 1:	 	<u> </u> -		
15	><		@ 115 FEET: DOOMITE; LICHT BROWNISH GRAY	
		12	(2.54 L/2) AND REDDISH BROWN (2.54R 4/3)	
		- <u>E</u>		
20		076	0 120 FEET: ANHYDRITE AND DOLOMITE LIGHT	
		Q	BROWNISH GRAY (2.54 6/2); 10%	
· · · · · · · · · · · · · · · · · · ·	~	2	SILTSTONE AND SANDSTONE	
		7	E 122 FEET: DOLOMITE, ANY YDRITE, CALICHE, SUSTONE,	
25_	/	¥	0 125 FEET! DOLDMITE BRAY (10 YR 6/1) ANHYBRI	e
		2	WEAK RED (IOR 5/4); SILTSTONE REDDISH BROWN (25 YR 6/3)	
			Managari Maria Nagari ya Baran kana managari ya ya managari managari ya mana ka a kana mana ka	
30	~		BOREHOLE MAKING WATER AT LEAST 20 G	o/w
· · ·	SZ			
	$\langle \cdot \rangle$		9 130+132 FRET: 40% ANHVORTE; 30% CALICHE; 20%	
	X		DOLOMITE; 10% SILTSTONE/SANDSONE	
35		A-3	@ 13278135 FEET: 85% ANHYDRITE; PINK SH GRAY	
	\vdash	ANHY-	@ 13270135 FEET: 85% ANHYDRITE; PINKISH GRAY (7.54R 8/2) 15% SILTSTONE; REDDISH BROWN (2.54R4A) AND CALICLE; PINK	
		DRITE	(548 74)	
40	 >< 		MODERATE HARDNESS; MASSINE;	4
			CRYSTALLINE	
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			Y BORING LOG	Fo	STATE EN	GINEER OFFICE		
	ORING N	JMBER	1P-WW-014		ons eed	13 94 1:46	PAGE 4 of 6	
C	WNER	Intrepid	Potash	PROJECT NAME Groun			NOTES	
P	ROJECT N		141015	PROJECT LOCATION E	ldy County, New Mexic	CO		
БЕРТН (FT)	, SAMPLED , INTERVAL/ SAMPLE TYPE	GRAPHIC LOG		MATERIAL DESI	CRIPTION		WELL DIAGRAM	
			D 145 FEET: ANHYDRITE MASSIVE	GRAYISH BROWN	TIOYR 5/2) CRY TAILINE		
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	**							
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		<u>A-3</u>			· · · · · · · · · · · · · · · · · · ·			
60	-><-	DAITE.		COLOR CHANGE	IN DISCHARGE	WATER		
	*	gillen men etalen implome	@ 162 FEET	IRACE GLAYS	ARK RED (P.SYR 14)		
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	(12 K)							
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02_Big Eddy Unit DI 9 Battery_Watercours



August 1, 2025

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

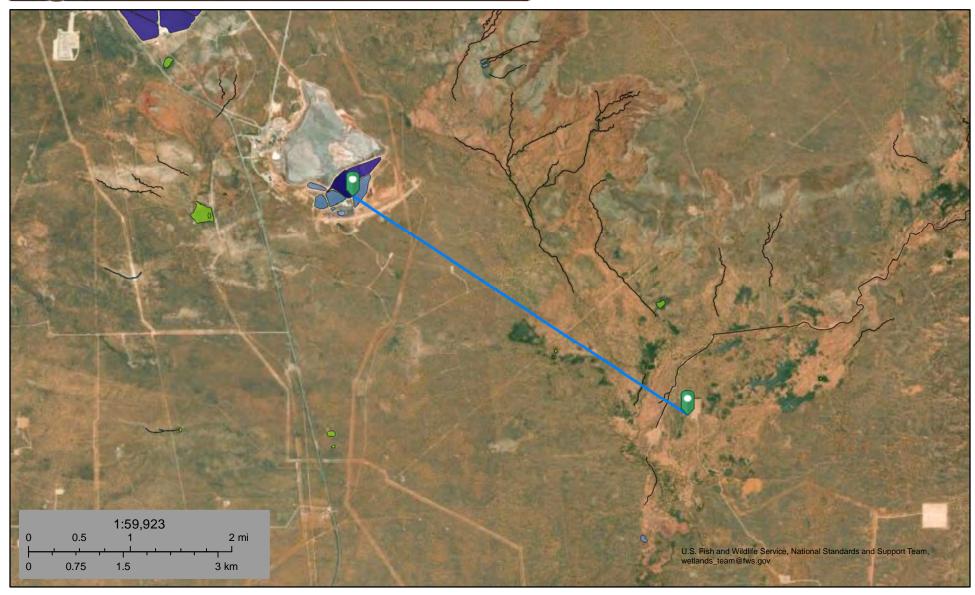
Lake

Other

Riverine

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

03_Big Eddy Unit DI 9 Battery_Lake_17,54



August 1, 2025

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

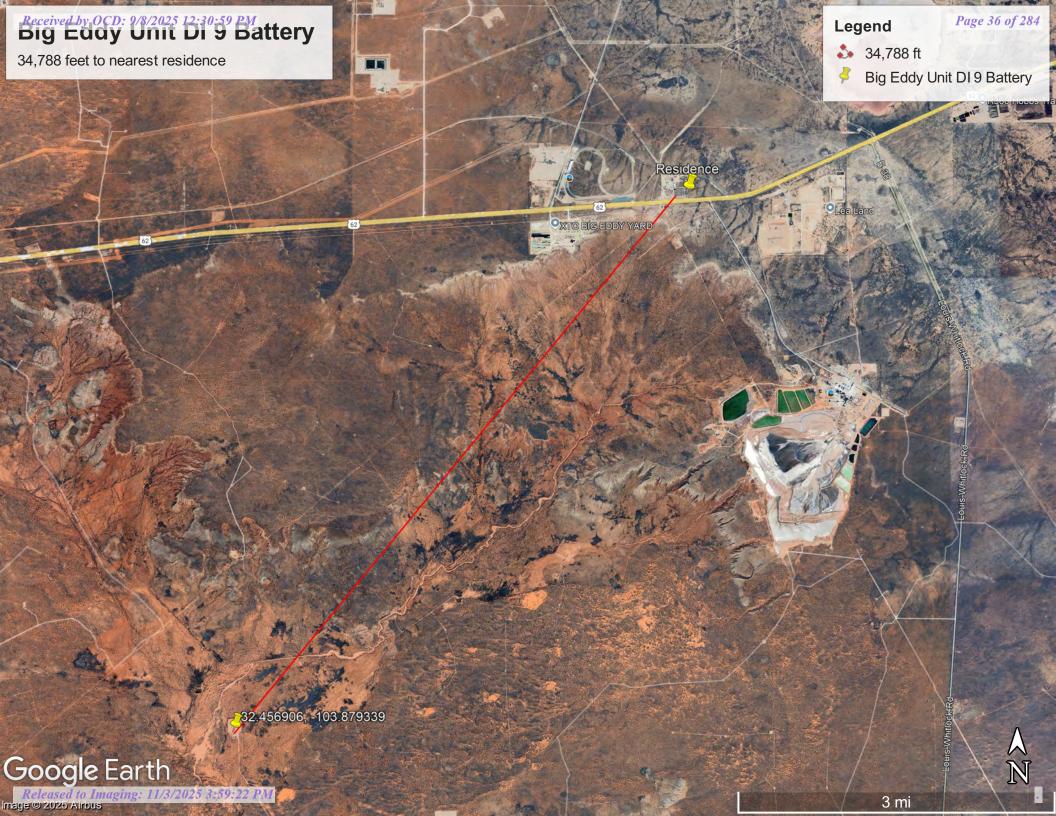
Lake

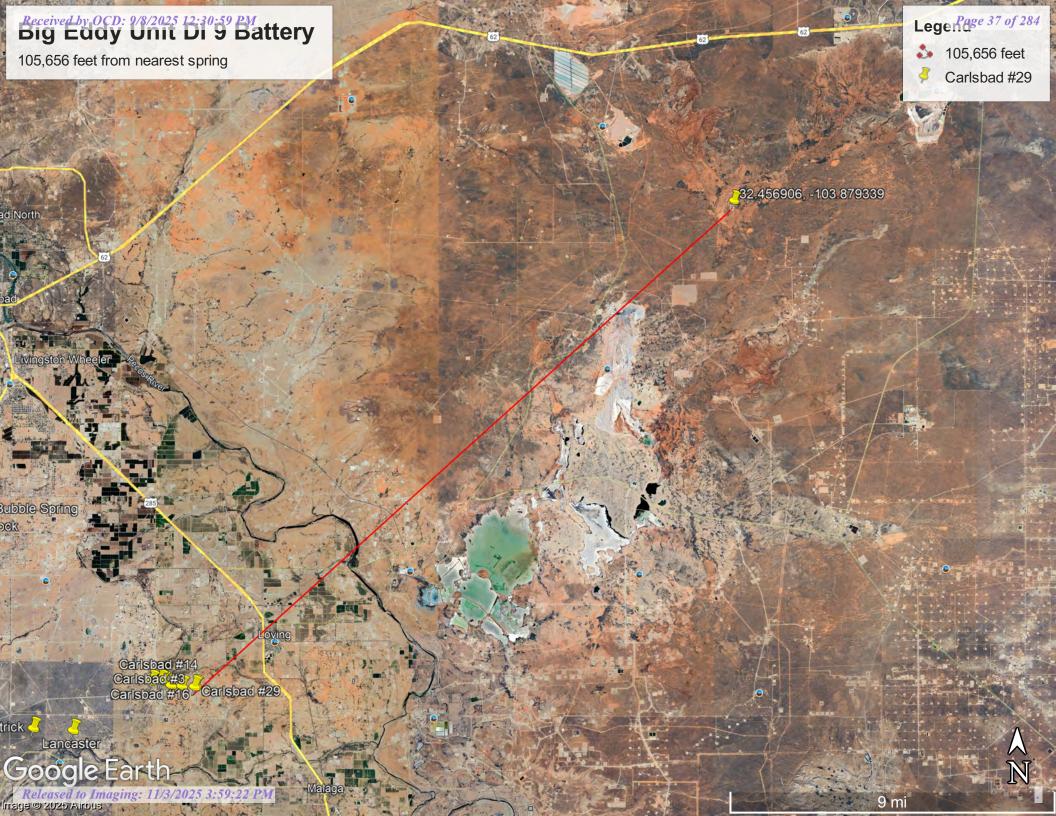
Other

Riverine

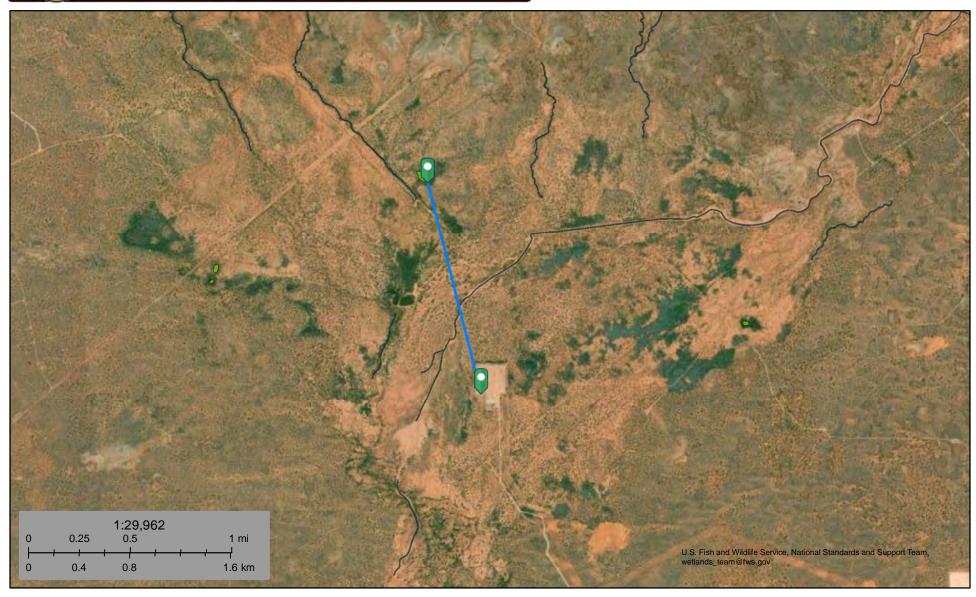
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This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on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





07_Big Eddy Unit DI 9 Battery_Wetland_4,



August 1, 2025

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Pond

Freshwater Forested/Shrub Wetland

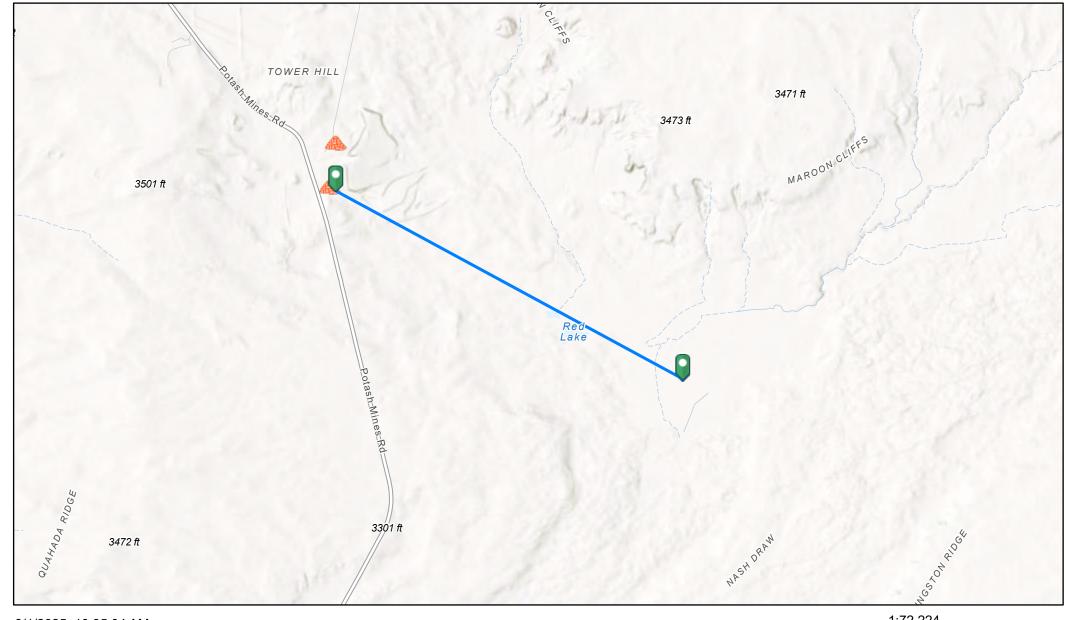
Lake

Other

Riverine

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

Big Eddy Unit DI 9 Battery_Mine_20,872 ft

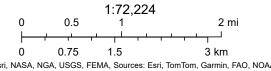


8/1/2025, 10:35:04 AM

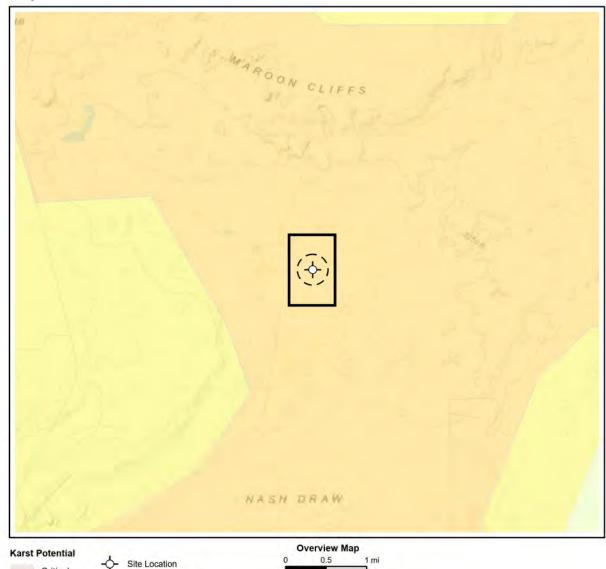
Registered Mines



Potash



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





Critical High

Medium

Low

L _ | Site Buffer (1,000 ft)

250 500 ft



Map Center: Lat/Long 32.456837°,-103.879473°

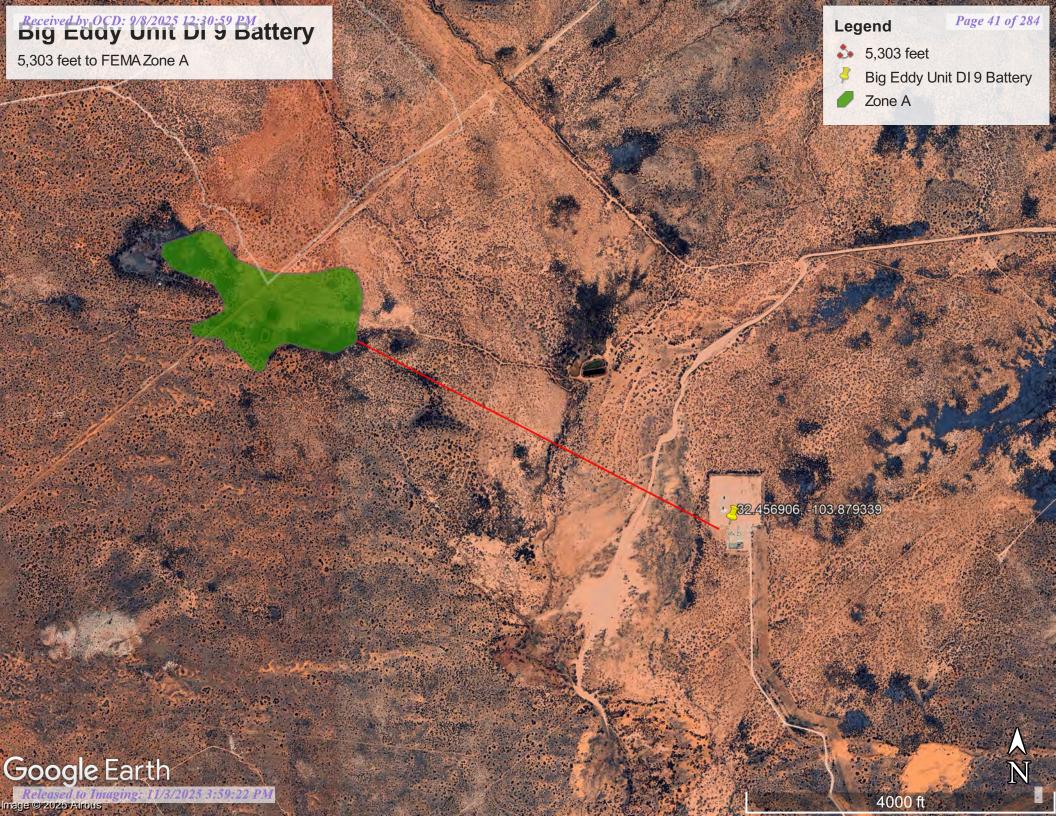
NAD 1983 UTM Zone 13N Date: Aug 01/25



Karst Potential Map Big Eddy Unit DI 9 Battery Figure:



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



National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D GENERAL - -- - Channel, Culvert, or Storm Sewer STRUCTURES | LILLILL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary — --- Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped

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

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

an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/2/2025 at 2:52 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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





MAP LEGEND

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Water Features

Transportation

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Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

•

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

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Clay Spot

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Closed Depression

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Gravel Pit

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Gravelly Spot

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Landfill Lava Flow

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Marsh or swamp

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Mine or Quarry

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Miscellaneous Water

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Perennial Water

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Rock Outcrop
Saline Spot

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Sandy Spot

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Severely Eroded Spot

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Sinkhole

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Slide or Slip

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Sodic Spot

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 20, Sep 3, 2024

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

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

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

10

Map Unit Legend

Map Unit Symbol Map Unit Name		Acres in AOI	Percent of AOI
PD	Pajarito-Dune land complex, 0 to 3 percent slopes	80.9	100.0%
Totals for Area of Interest		80.9	100.0%

Map Unit Descriptions

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

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

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

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

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

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

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

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

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

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

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

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

Eddy Area, New Mexico

PD—Pajarito-Dune land complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w55 Elevation: 3,000 to 5,000 feet

Mean annual precipitation: 10 to 15 inches Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 190 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Pajarito and similar soils: 46 percent

Dune land: 45 percent Minor components: 9 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pajarito

Setting

Landform: Plains, interdunes, dunes

Landform position (three-dimensional): Side slope

Down-slope shape: Convex, linear Across-slope shape: Linear, convex

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 9 inches: fine sandy loam H2 - 9 to 36 inches: fine sandy loam H3 - 36 to 72 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00

in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

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

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 8.4 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Description of Dune Land

Setting

Landform: Dune fields

Landform position (two-dimensional): Shoulder, backslope, footslope

Landform position (three-dimensional): Talf

Down-slope shape: Convex, linear Across-slope shape: Convex, linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 6 inches: sandy loam H2 - 6 to 60 inches: sandy loam

Interpretive groups

Land capability classification (irrigated): None specified

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Minor Components

Rock outcrop

Percent of map unit: 5 percent

Hydric soil rating: No

Largo

Percent of map unit: 4 percent

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

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Ecological site R070BD003NM Loamy Sand

Accessed: 07/22/2025

General information

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

Figure 1. Mapped extent

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

Associated sites

R070BD004NM	Sandy Sandy
R070BD005NM	Deep Sand Deep Sand

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

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

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

Table 2. Representative physiographic features

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

Climatic features

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

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes. The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer. The average frost-free season is 207 to 220 days. The last killing frost being late March or early April and the first killing frost being in later October or early November. Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of this site. Strong winds blow from the southwest from January through June, which accelerates soil drying during a critical period for cool season plant growth.

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

Table 3. Representative climatic features

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

Influencing water features

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

Soil features

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

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

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

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

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

Characteristic soils are:

Maljamar

Berino

Parjarito

Palomas

Wink

Pyote

Table 4. Representative soil features

Surface texture	(1) Fine sand(2) Fine sandy loam(3) Loamy fine sand
Family particle size	(1) Sandy
Drainage class	Well drained to somewhat excessively drained
Permeability class	Moderate to moderately rapid
Soil depth	40–72 in
Surface fragment cover <=3"	0–10%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	5–7 in
Calcium carbonate equivalent (0-40in)	3–40%
Electrical conductivity (0-40in)	2–4 mmhos/cm

Sodium adsorption ratio (0-40in)	0–2
Soil reaction (1:1 water) (0-40in)	6.6–8.4
Subsurface fragment volume <=3" (Depth not specified)	4–12%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

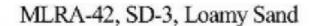
Overview

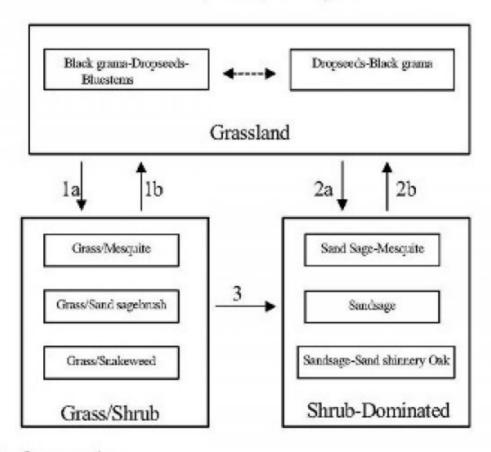
The Loamy Sand site intergrades with the Deep Sand and Sandy sites (SD-3). These sites can be differentiated by surface soil texture and depth to a textural change. Loamy Sand and Deep Sand sites have coarse textured (sands and loamy sand) surface soils while Sandy sites have moderately coarse textured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

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

State and transition model

Plant Communities and Transitional Pathways (diagram):





- 1a. Drought, over grazing, fire suppression.
- 1b. Brush control, prescribed grazing
- 2.a Severe loss of grass cover, fire suppression, erosion.
- 2b. Brush control, seeding, prescribed grazing.
- Continued loss of grass cover, erosion.

State 1 Historic Climax Plant Community

Community 1.1 Historic Climax Plant Community

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

Table 5. Annual production by plant type

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

Table 6. Ground cover

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

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

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

State 2 Grass/Shrub

Community 2.1 Grass/Shrub





*Blade grama/Mesquite community, with some dropseeds, threewas, and scattered sand shinnery oak *Ones cover low to moderate

Grass/Shrub State: The grass/shrub state is dominated by communities of grasses/mesquite, grasses/snakeweed, or grasses/sand sage. Decreases in black grama and bluestem species lead to an increase in bare patches and mesquite which further competes with grass species. An increase of dropseeds and threeawns occurs. Grass distribution becomes more patchy with an absence or severe decrease in black grama and bluestems. Mesquite provides nitrogen and soil organic matter to co-dominant grasses (Ansley and Jacoby 1998, Ansley et al. 1998). Mesquite mortality when exposed

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

State 3 Shrub Dominated

Community 3.1 Shrub Dominated

Shrub-Dominated State: The shrub-dominated state results from a severe loss of grass cover. This state's primary species is sand sage. Shinnery oak and mesquite also occur; however, grass cover is limited to intershrub distribution. Sand sage stabilizes light sandy soils from wind erosion, which enhances protected grass/forb cover (Davis and Bonham 1979). However, shinnery oak also responds to the sandy soils with dense stands due to an aggressive rhizome system. Shinnery oak's extensive root system promotes competitive exclusion of grasses and forbs. Sand sage, shinnery oak, and mesquite can be controlled with herbicide (Herbel et al. 1979, Pettit 1986). Transition to Shrub-Dominated (2a): Severe loss of grass species with increased erosion and fire suppression will result in a transition to a shrub-dominated state with sand sage, Shin oak, and honey mesquite directly from the grassland-dominated state. Key indicators of approach to transition: • Severe loss of grass species cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite abundance Transition to Historic Plant Community (2b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community. In addition, seeding with native grass species will augment the transition to a grassland-dominated state. Transition to Shrub-Dominated (3): If the grass/shrub site continues to lose grass cover with soil erosion, the site will transition to a shrub-dominated state with sand sage, shinnery oak, and honey mesquite. Key indicators of approach to transition: • Continual loss of dropseeds/threeawns cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite/dropseed/threeawn

and mesquite/snakeweed abundance

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass	/Grasslike				
1	Warm Season			61–123	
	little bluestem	SCSC	Schizachyrium scoparium	61–123	_
2	Warm Season			37–61	
	sand bluestem	ANHA	Andropogon hallii	37–61	_
3	Warm Season			37–61	
	cane bluestem	вова3	Bothriochloa barbinodis	37–61	_
	silver bluestem	BOSA	Bothriochloa saccharoides	37–61	_
4	Warm Season			61–123 61–123 61–123 37–61 37–61 37–61	
	black grama	BOER4	Bouteloua eriopoda	123–184	_
	bush muhly	MUPO2	Muhlenbergia porteri	123–184	_
5	Warm Season			37-61 37-61 37-61 37-61 37-61 123-184 123-184 123-184 123-184 123-184 123-184 123-184 123-184 123-184 123-184 123-184 123-184 123-184	
	thin paspalum	PASE5	Paspalum setaceum	123–184	_
	plains bristlegrass	SEVU2	Setaria vulpiseta	123–184	_
	fringed signalgrass	URCI	Urochloa ciliatissima	123–184	_
6	Warm Season			123–184	
	spike dropseed	SPCO4	Sporobolus contractus	123–184	_
	sand dropseed	SPCR	Sporobolus cryptandrus	123–184	_
	mesa dropseed	SPFL2	Sporobolus flexuosus	123–184	_
7	Warm Season	•		37–61 37–61 37–61 123–184 123–184 123–184 123–184 123–184 123–184 123–184 123–184 123–184 123–184 123–184 123–184 123–184 123–184	
	hooded windmill grass	CHCU2	Chloris cucullata	61–123	_
	Arizona cottontop	DICA8	Digitaria californica	61–123	_
9	Other Perennial Grasses	•		37–61	
	Grass, perennial	2GP	Grass, perennial	37–61	_
Shrub	/Vine				
8	Warm Season			37–61	
	New Mexico feathergrass	HENE5	Hesperostipa	37–61	_

			neomexicana		
	giant dropseed	SPGI	Sporobolus giganteus	37–61	_
10	Shrub			61–123 61–123 ii 61–123 iii 61–123 34–61 37–61	
	sand sagebrush	ARFI2	Artemisia filifolia	61–123	_
	Havard oak	QUHA3	Quercus havardii	61–123	_
11	Shrub			61–123 61–123 61–123 34–61 37–61 37–61 37–61 37–61 37–61 37–61 37–61 37–61 37–61 37–61 37–61 37–61	
	fourwing saltbush	ATCA2	Atriplex canescens	37–61	_
	featherplume	DAFO	Dalea formosa	37–61	_
12	Shrub			37–61	
	jointfir	EPHED	Ephedra	37–61	_
	littleleaf ratany	KRER	Krameria erecta	37–61	_
13	Other Shrubs			37–61	
	Shrub (>.5m)	2SHRUB	Shrub (>.5m)	37–61	_
Forb)				
14	Forb			61–123	
	leatherweed	CRPOP	Croton pottsii var. pottsii	61–123	_
	Indian blanket	GAPU	Gaillardia pulchella	61–123	_
	globemallow	SPHAE	Sphaeralcea	61–123	_
15	Forb			12–37	
	woolly groundsel	PACA15	Packera cana	12–37	_
16	Forb			61–123	
	touristplant	DIWI2	Dimorphocarpa wislizeni	61–123	-
	woolly plantain	PLPA2	Plantago patagonica	61–123	_
17	Other Forbs	•		37–61	
	Forb (herbaceous, not grass nor grass-like)	2FORB	Forb (herbaceous, not grass nor grass-like)	37–61	_

Animal community

This Ecological Site provides habitat which supports a resident animal community that is characterized by pronghorn antelope, desert cottontail, spotted ground squirrel, blacktailed prairie dog, yellow faced pocket gopher, Ord's kangaroo rat, northern grasshopper mouse, southern plains woodrat, badger, roadrunner, meadowlark, burrowing owl, white necked raven, lesser prairie chicken, morning dove, scaled quail, Harris hawk, side blotched lizard, marbled whiptail, Texas horned lizard, western diamondback rattlesnake, dusty hognose snake and ornate box turtle.

Where mesquite has invaded, most resident birds and scissor-tailed flycatcher, morning dove and Swainson's hawk, nest. Vesper and grasshopper sparrows utilize the site during migration.

Hydrological functions

The runoff curve numbers are determined by field investigations using hydraulic cover conditions and hydrologic soil groups.

Hydrologic Interpretations

Soil Series Hydrologic Group

Berino B

Kinco A

Maljamar B

Pajarito B

Palomas B

Wink B

Pyote A

Recreational uses

This site offers recreation potential for hiking, borseback riding, nature observation, photography and hunting. During years of abundant spring moisture, this site displays a colorful array of wildflowers during May and June.

Wood products

This site has no potential for wood products.

Other products

This site is suitable for grazing by all kinds and classes of livestock at any time of year. In cases where this site has been invaded by brush species it is especially suited for goats. Mismanagement of this site will cause a decrease in species such as the bluestems, blsck grama, bush muhly, plains bristlegrass, New Mexico feathergrass, Arizona cottontop and fourwing saltbush. A corresponding increase in the dropseeds, windmill grass, fall witchgrass, silver bluestem, sand sagebrush, shinery oak and ephedra will occur. This will also cause an increase in bare ground which will increase soil erodibility. This site will respond well to a system of management that rotates the season of use.

Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month Similarity Index Ac/AUM 100 - 76 2.3 – 3.5

75 - 513.0 - 4.5

Appendix B Biological Review SLO-ECO



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

IPaC

U.S. Fish & Wildlife Service

IPaC resource list

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

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

Location

Eddy County, New Mexico



Local office

New Mexico Ecological Services Field Office

\((505) 346-2525

(505) 346-2542

2105 Osuna Road Ne

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

Birds

NAME **STATUS**

Northern Aplomado Falcon Falco femoralis septentrionalis

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/1923

EXPN

Piping Plover Charadrius melodus

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

https://ecos.fws.gov/ecp/species/6039

Threatened

Southwestern Willow Flycatcher Empidonax traillii extimus Wherever found

There is **final** critical habitat for this species. Your location does not MSUL overlap the critical habitat.

https://ecos.fws.gov/ecp/species/6749

Endangered

Clams

NAME **STATUS**

Texas Hornshell Popenaias popeii

Wherever found

There is proposed critical habitat for this species. Your location does not overlap the critical habitat.

https://ecos.fws.gov/ecp/species/919

Endangered

Insects

NAME **STATUS**

Monarch Butterfly Danaus plexippus

Wherever found

There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat.

https://ecos.fws.gov/ecp/species/9743

Proposed Threatened

Critical habitats

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

There are no critical habitats at this location.

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

Bald & Golden Eagles

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

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

Additional information can be found using the following links:

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

Bald & Golden Eagles FAQs

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

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

Proper interpretation and use of your eagle report

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

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

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating, or resident), you may query your location using the RAIL Tool and view the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If an eagle on your IPaC migratory bird species list has a breeding season associated with it (indicated by yellow vertical bars on the phenology graph in your "IPaC PROBABILITY OF PRESENCE SUMMARY" at the top of your results list), there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

Interpreting the Probability of Presence Graphs

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

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

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

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

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

Breeding Season ()

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

Survey Effort ()

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

No Data ()

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

Survey Timeframe

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

Migratory birds

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

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

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

Measures for Proactively Minimizing Migratory Bird Impacts

Your IPaC Migratory Bird list showcases <u>birds of concern</u>, including <u>Birds of Conservation</u>

<u>Concern (BCC)</u>, in your project location. This is not a comprehensive list of all birds found in your project area. However, you can help proactively minimize significant impacts to all birds at your project location by implementing the measures in the <u>Nationwide avoidance and minimization</u> measures for birds document, and any other project-specific avoidance and minimization measures suggested at the link <u>Measures for avoiding and minimizing impacts to birds</u> for the birds of concern on your list below.

Ensure Your Migratory Bird List is Accurate and Complete

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

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

Review the FAQs

The FAQs below provide important additional information and resources.

NAME	BREEDING SEASON
Cactus Wren Campylorhynchus brunneicapillus guttatus This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/8834	Breeds Mar 5 to Sep 30
Cassin's Sparrow Peucaea cassinii This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9512	Breeds Aug 1 to Oct 10
Henry's Common Nighthawk Chordeiles minor henryi This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds May 21 to Aug 25
Scott's Oriole Icterus parisorum This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds May 21 to Aug 15
Virginia's Warbler Leiothlypis virginiae This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9441	Breeds May 1 to Jul 31

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental"

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Proper interpretation and use of your migratory bird report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please look carefully at the survey effort (indicated by the black vertical line) and for the existence of the "no data" indicator (a red horizontal line). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list does not represent all birds present in your project area. It is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list and associated information help you know what to look for to confirm presence and helps guide implementation of avoidance and minimization measures to eliminate or reduce potential impacts from your project activities, should presence be confirmed. To learn more about avoidance and minimization measures, visit the FAQ "Tell me about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds".

Interpreting the Probability of Presence Graphs

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

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

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

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

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

Breeding Season ()

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

Survey Effort ()

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

No Data ()

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

Survey Timeframe

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

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers District</u>.

This location did not intersect any wetlands mapped by NWI.

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

Data limitations

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

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

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

Data exclusions

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

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

IPaC

U.S. Fish & Wildlife Service

IPaC resource list

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

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

Location

Eddy County, New Mexico



Local office

New Mexico Ecological Services Field Office

\((505) 346-2525

(505) 346-2542

2105 Osuna Road Ne

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

Birds

NAME **STATUS**

Northern Aplomado Falcon Falco femoralis septentrionalis

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/1923

EXPN

Piping Plover Charadrius melodus

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

https://ecos.fws.gov/ecp/species/6039

Threatened

Southwestern Willow Flycatcher Empidonax traillii extimus Wherever found

There is **final** critical habitat for this species. Your location does not MSUL overlap the critical habitat.

https://ecos.fws.gov/ecp/species/6749

Endangered

Clams

NAME **STATUS**

Texas Hornshell Popenaias popeii

Wherever found

There is proposed critical habitat for this species. Your location does not overlap the critical habitat.

https://ecos.fws.gov/ecp/species/919

Endangered

Insects

NAME **STATUS**

Monarch Butterfly Danaus plexippus

Wherever found

There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat.

https://ecos.fws.gov/ecp/species/9743

Proposed Threatened

Critical habitats

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

There are no critical habitats at this location.

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

Bald & Golden Eagles

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

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

Additional information can be found using the following links:

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

Bald & Golden Eagles FAQs

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

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

Proper interpretation and use of your eagle report

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

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

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating, or resident), you may query your location using the RAIL Tool and view the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If an eagle on your IPaC migratory bird species list has a breeding season associated with it (indicated by yellow vertical bars on the phenology graph in your "IPaC PROBABILITY OF PRESENCE SUMMARY" at the top of your results list), there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

Interpreting the Probability of Presence Graphs

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

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

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

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

Breeding Season ()

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

Survey Effort ()

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

No Data ()

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

Survey Timeframe

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

Migratory birds

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

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

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

Measures for Proactively Minimizing Migratory Bird Impacts

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

Ensure Your Migratory Bird List is Accurate and Complete

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

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

DDEEDING SEASON

Review the FAQs

The FAQs below provide important additional information and resources.

NAME	BREEDING SEASON
Cactus Wren Campylorhynchus brunneicapillus guttatus This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/8834	Breeds Mar 5 to Sep 30
Cassin's Sparrow Peucaea cassinii This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9512	Breeds Aug 1 to Oct 10
Henry's Common Nighthawk Chordeiles minor henryi This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds May 21 to Aug 25
Scott's Oriole Icterus parisorum This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds May 21 to Aug 15
Virginia's Warbler Leiothlypis virginiae This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9441	Breeds May 1 to Jul 31

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental"

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

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Facilities

National Wildlife Refuge lands

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There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers District</u>.

This location did not intersect any wetlands mapped by NWI.

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

Data limitations

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

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Stephanie Garcia Richard COMMISSIONER

State of New Mexico Commissioner of Public Lands

310 OLD SANTA FE TRAIL P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148 COMMISSIONER'S OFFICE

Phone (505) 827-5760 Fax (505) 827-5766 www.nmstatelands.org

MEMORANDUM

TO: Vertex on behalf of XTO

FROM: Carlyn Stewart, Trust Land Archaeologist

(505) 365-3800

cstewart@nmslo.gov

SUBJECT: Vertex on behalf of XTO

Remediation for: Big Eddy Unit (BEU) DI 9 Remediation ARMS

T21S R30E S28 N.M.P.M. Eddy County

REFERENCE: NMSLO Cultural Properties Protection Rule (19.2.24 NMAC)

DATE: **7/30/2025**

Thank you for your submission relating to the Proponent's proposed remediation activities at Big Eddy Unit (BEU) DI 9. An archaeological survey of the entire area of potential effect has been completed (NMCRIS Activity No. 128032) and no cultural properties were identified. Pursuant to NMSLO 19.2.24.8 (C) NMAC, remediation may proceed.

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

APPENDIX C – Laboratory Data Reports and Chain of Custody Forms



July 11, 2025

CHAD HENSLEY

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: BEU DI 9 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/07/25 12:43.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/07/2025 Reported: 07/11/2025

Project Name: BEU DI 9 BATTERY

Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/02/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH25 - 01 @ 0' (H254029-01)

DTEV 0021D

BTEX 8021B	mg/	kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2025	ND	2.08	104	2.00	0.718	
Toluene*	<0.050	0.050	07/07/2025	ND	2.21	110	2.00	0.671	
Ethylbenzene*	<0.050	0.050	07/07/2025	ND	2.01	101	2.00	0.132	
Total Xylenes*	<0.150	0.150	07/07/2025	ND	6.04	101	6.00	0.0216	
Total BTEX	<0.300	0.300	07/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/08/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2025	ND	217	108	200	3.64	
DRO >C10-C28*	<10.0	10.0	07/08/2025	ND	211	106	200	4.83	
EXT DRO >C28-C36	<10.0	10.0	07/08/2025	ND					
Surrogate: 1-Chlorooctane	82.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	72.2	% 40.6-15	3						

Applyand By 14

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/07/2025

Reported: 07/11/2025

Project Name: BEU DI 9 BATTERY Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/02/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Sample ID: BH25 - 02 @ 0' (H254029-02)

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	07/07/2025	ND	2.08	104	2.00	0.718	
Toluene*	<0.050	0.050	07/07/2025	ND	2.21	110	2.00	0.671	
Ethylbenzene*	< 0.050	0.050	07/07/2025	ND	2.01	101	2.00	0.132	

Total Xylenes* < 0.150 0.150 07/07/2025 ND 6.04 101 6.00 0.0216 Total BTEX 07/07/2025 < 0.300 0.300 ND

Surrogate: 4-Bromofluorobenzene (PID 101 % 71.5-134

Chloride, SM4500Cl-B Analyte	mg/kg		Analyze	Analyzed By: KH					
	Result	Reporting Limit	Analyzed	Method Blank	BS % R	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/08/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2025	ND	217	108	200	3.64	
DRO >C10-C28*	<10.0	10.0	07/08/2025	ND	211	106	200	4.83	
EXT DRO >C28-C36	<10.0	10.0	07/08/2025	ND					

Surrogate: 1-Chlorooctane 80.5 % 44.4-145 Surrogate: 1-Chlorooctadecane 70.1 % 40.6-153

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Celeg D. Keene



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/07/2025 Reported: 07/11/2025

07/11/2025 BEU DI 9 BATTERY

Project Name: BEU DI 9 BA
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/02/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH25 - 03 @ 0' (H254029-03)

BTEX 8021B	mg,	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2025	ND	2.08	104	2.00	0.718	
Toluene*	<0.050	0.050	07/07/2025	ND	2.21	110	2.00	0.671	
Ethylbenzene*	<0.050	0.050	07/07/2025	ND	2.01	101	2.00	0.132	
Total Xylenes*	<0.150	0.150	07/07/2025	ND	6.04	101	6.00	0.0216	
Total BTEX	<0.300	0.300	07/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/08/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2025	ND	192	96.0	200	0.805	
DRO >C10-C28*	<10.0	10.0	07/08/2025	ND	216	108	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	07/08/2025	ND					
Surrogate: 1-Chlorooctane	77.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	70.9	% 40.6-15	3						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/07/2025 Reported: 07/11/2025

Project Name: BEU DI 9 BATTERY

Project Number: 25A-03553 Project Location: XTO Sampling Date: 07/02/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH25 - 04 @ 0' (H254029-04)

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	07/07/2025	ND	2.08	104	2.00	0.718	
Toluene*	<0.050	0.050	07/07/2025	ND	2.21	110	2.00	0.671	
Ethylbenzene*	<0.050	0.050	07/07/2025	ND	2.01	101	2.00	0.132	
Total Xylenes*	<0.150	0.150	07/07/2025	ND	6.04	101	6.00	0.0216	
Total BTEX	<0.300	0.300	07/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/08/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2025	ND	192	96.0	200	0.805	
DRO >C10-C28*	<10.0	10.0	07/08/2025	ND	216	108	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	07/08/2025	ND					
Surrogate: 1-Chlorooctane	78.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	71.6	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/07/2025 Reported: 07/11/2025

Project Name: BEU DI 9 BATTERY

Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/02/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

Sample ID: BH25 - 05 @ 0' (H254029-05)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2025	ND	2.08	104	2.00	0.718	
Toluene*	<0.050	0.050	07/07/2025	ND	2.21	110	2.00	0.671	
Ethylbenzene*	<0.050	0.050	07/07/2025	ND	2.01	101	2.00	0.132	
Total Xylenes*	<0.150	0.150	07/07/2025	ND	6.04	101	6.00	0.0216	
Total BTEX	<0.300	0.300	07/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/08/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2025	ND	192	96.0	200	0.805	
DRO >C10-C28*	<10.0	10.0	07/08/2025	ND	216	108	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	07/08/2025	ND					
Surrogate: 1-Chlorooctane	78.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	71.5	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/07/2025 Reported:

07/11/2025 Project Name: BEU DI 9 BATTERY

Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/02/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

Sample ID: BH25 - 06 @ 0' (H254029-06)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2025	ND	2.08	104	2.00	0.718	
Toluene*	<0.050	0.050	07/07/2025	ND	2.21	110	2.00	0.671	
Ethylbenzene*	<0.050	0.050	07/07/2025	ND	2.01	101	2.00	0.132	
Total Xylenes*	<0.150	0.150	07/07/2025	ND	6.04	101	6.00	0.0216	
Total BTEX	<0.300	0.300	07/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/08/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2025	ND	192	96.0	200	0.805	
DRO >C10-C28*	<10.0	10.0	07/08/2025	ND	216	108	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	07/08/2025	ND					
Surrogate: 1-Chlorooctane	79.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	72.4	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/07/2025 Reported: 07/11/2025

Project Name: BEU DI 9 BATTERY

Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/02/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH25 - 07 @ 0' (H254029-07)

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	07/07/2025	ND	2.08	104	2.00	0.718	
Toluene*	<0.050	0.050	07/07/2025	ND	2.21	110	2.00	0.671	
Ethylbenzene*	<0.050	0.050	07/07/2025	ND	2.01	101	2.00	0.132	
Total Xylenes*	<0.150	0.150	07/07/2025	ND	6.04	101	6.00	0.0216	
Total BTEX	<0.300	0.300	07/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/08/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2025	ND	192	96.0	200	0.805	
DRO >C10-C28*	<10.0	10.0	07/08/2025	ND	216	108	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	07/08/2025	ND					
Surrogate: 1-Chlorooctane	79.9	% 44.4-14	25						
Surrogate: 1-Chlorooctadecane	71.6	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/07/2025 Reported:

07/11/2025 BEU DI 9 BATTERY

Project Name: Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/02/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

Sample ID: BH25 - 08 @ 0' (H254029-08)

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	07/08/2025	ND	1.78	89.2	2.00	8.84	
Toluene*	<0.050	0.050	07/08/2025	ND	1.90	95.2	2.00	4.58	
Ethylbenzene*	<0.050	0.050	07/08/2025	ND	1.96	98.2	2.00	4.07	
Total Xylenes*	<0.150	0.150	07/08/2025	ND	5.98	99.7	6.00	4.40	
Total BTEX	<0.300	0.300	07/08/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/08/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2025	ND	192	96.0	200	0.805	
DRO >C10-C28*	<10.0	10.0	07/08/2025	ND	216	108	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	07/08/2025	ND					
Surrogate: 1-Chlorooctane	83.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	76.1	% 40.6-15	3						

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07/02/2025

Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/07/2025 Sampling Date:

Reported: 07/11/2025 Sampling Type: Soil

Project Name: BEU DI 9 BATTERY Sampling Condition: Cool & Intact
Project Number: 25A-03553 Sample Received By: Alyssa Parras

Project Location: XTO

Sample ID: BH25 - 09 @ 0' (H254029-09)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2025	ND	1.78	89.2	2.00	8.84	
Toluene*	<0.050	0.050	07/08/2025	ND	1.90	95.2	2.00	4.58	
Ethylbenzene*	< 0.050	0.050	07/08/2025	ND	1.96	98.2	2.00	4.07	
Total Xylenes*	<0.150	0.150	07/08/2025	ND	5.98	99.7	6.00	4.40	
Total BTEX	<0.300	0.300	07/08/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/08/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2025	ND	192	96.0	200	0.805	
DRO >C10-C28*	<10.0	10.0	07/08/2025	ND	216	108	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	07/08/2025	ND					
Surrogate: 1-Chlorooctane	82.5	% 44.4-14	25						
Surrogate: 1-Chlorooctadecane	74.2	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/07/2025 Reported: 07/11/2025

Project Name: BEU DI 9 BATTERY

Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/02/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Sample ID: BH25 - 10 @ 0' (H254029-10)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2025	ND	1.78	89.2	2.00	8.84	
Toluene*	<0.050	0.050	07/08/2025	ND	1.90	95.2	2.00	4.58	
Ethylbenzene*	<0.050	0.050	07/08/2025	ND	1.96	98.2	2.00	4.07	
Total Xylenes*	<0.150	0.150	07/08/2025	ND	5.98	99.7	6.00	4.40	
Total BTEX	<0.300	0.300	07/08/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/08/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2025	ND	192	96.0	200	0.805	
DRO >C10-C28*	<10.0	10.0	07/08/2025	ND	216	108	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	07/08/2025	ND					
Surrogate: 1-Chlorooctane	79.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	71.9	% 40.6-15	3						

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Page 13 of 13

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	: Vertex Respurce					BI	LL TO					ANALYSIS	REQUEST	
Address: \$10 City: Cas \$6 Phone #: 57 Project #: 25 Project Name: Project Location	5-200-6167 Fax#: A-03553 Project Owne BEU DI 9 Battery		8	8220	Att Ad Cit Sta Ph	on #: 10 8 company: E. th: ASh le tdress: Slo ty: Casts tate: NM tone #: 57	XXONM Ly Mat 14EGTes 56ad Zip: 88, 5-988	obil see une st 220 -0812			9)			
FOR LAB USE ONLY	Kiley Miroto	П	П	MATRIX	1	PRESERV.	SAME	LING			8			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER:	ACID/BASE: ICE / COOL OTHER:	DATE	TIME	8TEX	TPH TPH	Chloride			
1	BH25-012 0' BH25-022 0'	G	(X	E	X	7.2.25	9:30	X	X	X			100
2	BH25-02 D 0'	11	1		H	1	-	9:46	1	\perp	1			
3 7 5	BH25-01 20 0' BH25-02 20 0' BH25-03 20 0' BH25-04 20 0' BH25-05 20 0' BH25-06 20 0'	Ш	H		H	\rightarrow		10:20		+	+			
5	BH25-052 0'	Ш	H		T			10:27						
4	BH25-06 D 0'	Ш						10:40						
7	BH25-07 2 0'							10:50						
8	BH25-082 0'	Ш	\parallel		-						\perp			+
9	8H25-09 2 0' 8H25-10 2 0'	Ш	\parallel		+			11:15	\mathbb{H}		+			
VO	DRAS-10 W U	'	•					11.21						

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Relinquished By:	Date:	Received By:		Verbal Result: ☐ Ye All Results are emailed.	es 🗆 No Please provi	14 44444	l Phone #: ail address:
In In french	Time:	aprima		chenslevave	stex seso	arce	Com
Relinquished By:	Date:	Received By:					XEGOUICE.COM
•	Time:						
Delivered By: (Circle One)	Observed Temp. °C	28' Cool Intact	CHECKED BY: (Initials)	Turnaround Time:	Standard Rush	B	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C	3. D □ Yes □ Yes □ No □ No	OP	Thermometer ID #140 Correction Factor +0.3°C			☐ Yes ☐ Yes ☐ No ☐ No Corrected Temp. °C



July 16, 2025

CHAD HENSLEY

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: BEU DI 9 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/10/25 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY

Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/07/2025

Sampling Type: Soil

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

Sample ID: BH25 - 01 @ 1' (H254106-01)

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	07/11/2025	ND	1.75	87.6	2.00	9.38	
Toluene*	<0.050	0.050	07/11/2025	ND	1.82	91.0	2.00	9.55	
Ethylbenzene*	<0.050	0.050	07/11/2025	ND	1.81	90.4	2.00	9.60	
Total Xylenes*	< 0.150	0.150	07/11/2025	ND	5.31	88.5	6.00	10.0	
Total BTEX	<0.300	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.5	% 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	64.0	16.0	07/14/2025	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	07/11/2025	ND	203	101	200	0.281	
DRO >C10-C28*	<10.0	10.0	07/11/2025	ND	226	113	200	0.266	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	109 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	110 9	40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

mg/kg

Project Location: XTO

Sampling Date: 07/07/2025

Sampling Type: Soil

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

Sample ID: BH25 - 02 @ 1' (H254106-02)

BTEX 8021B

	9/	9	7.1.4.7.2	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/11/2025	ND	1.75	87.6	2.00	9.38	
Toluene*	<0.050	0.050	07/11/2025	ND	1.82	91.0	2.00	9.55	
Ethylbenzene*	<0.050	0.050	07/11/2025	ND	1.81	90.4	2.00	9.60	
Total Xylenes*	<0.150	0.150	07/11/2025	ND	5.31	88.5	6.00	10.0	
Total BTEX	<0.300	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/14/2025	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2025	ND	203	101	200	0.281	
DRO >C10-C28*	<10.0	10.0	07/11/2025	ND	226	113	200	0.266	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	97.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	93.6	% 40.6-15	3						

Analyzed By: JH

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY

mg/kg

Project Number: 25A-03553 Project Location: XTO Sampling Date: 07/07/2025

Sampling Type: Soil

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

Sample ID: BH25 - 03 @ 1' (H254106-03)

BTEX 8021B

DILX GOZID	iiig/	, kg	Andryzo	u by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/11/2025	ND	1.75	87.6	2.00	9.38	
Toluene*	<0.050	0.050	07/11/2025	ND	1.82	91.0	2.00	9.55	
Ethylbenzene*	<0.050	0.050	07/11/2025	ND	1.81	90.4	2.00	9.60	
Total Xylenes*	<0.150	0.150	07/11/2025	ND	5.31	88.5	6.00	10.0	
Total BTEX	<0.300	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.5	% 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	07/14/2025	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	07/11/2025	ND	203	101	200	0.281	
DRO >C10-C28*	<10.0	10.0	07/11/2025	ND	226	113	200	0.266	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	111 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	107	% 40.6-15	3						

Analyzed By: JH

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Reported: 07/16/2025
Project Name: BEU DI 9 BATTERY

mg/kg

Project Number: 25A-03553

Project Location: XTO

BTEX 8021B

Sampling Date: 07/07/2025

Sampling Type: Soil

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

Sample ID: BH25 - 04 @ 1' (H254106-04)

DILX OUZID	ilig/	, kg	Andryzo	u by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/11/2025	ND	1.75	87.6	2.00	9.38	
Toluene*	<0.050	0.050	07/11/2025	ND	1.82	91.0	2.00	9.55	
Ethylbenzene*	<0.050	0.050	07/11/2025	ND	1.81	90.4	2.00	9.60	
Total Xylenes*	<0.150	0.150	07/11/2025	ND	5.31	88.5	6.00	10.0	
Total BTEX	<0.300	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 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	64.0	16.0	07/14/2025	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	07/11/2025	ND	203	101	200	0.281	
DRO >C10-C28*	<10.0	10.0	07/11/2025	ND	226	113	200	0.266	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	105	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	99.6	% 40.6-15	3						

Analyzed By: JH

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Analytical Results For:

VERTEX RESOURCE **CHAD HENSLEY** 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/07/2025

Sampling Type: Soil

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

Sample ID: BH25 - 05 @ 1' (H254106-05)

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	07/11/2025	ND	1.75	87.6	2.00	9.38	
Toluene*	<0.050	0.050	07/11/2025	ND	1.82	91.0	2.00	9.55	
Ethylbenzene*	<0.050	0.050	07/11/2025	ND	1.81	90.4	2.00	9.60	
Total Xylenes*	<0.150	0.150	07/11/2025	ND	5.31	88.5	6.00	10.0	
Total BTEX	<0.300	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 71.5-13	4						
Chloride, SM4500CI-B	hloride, SM4500Cl-B mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	07/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2025	ND	203	101	200	0.281	
DRO >C10-C28*	<10.0	10.0	07/11/2025	ND	226	113	200	0.266	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	106 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	100 9	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

mg/kg

Project Location: XTO

BTEX 8021B

Sampling Date: 07/07/2025

Sampling Type: Soil

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

Sample ID: BH25 - 06 @ 1' (H254106-06)

DIEX GOZID	ilig/	9	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/11/2025	ND	1.75	87.6	2.00	9.38	
Toluene*	<0.050	0.050	07/11/2025	ND	1.82	91.0	2.00	9.55	
Ethylbenzene*	<0.050	0.050	07/11/2025	ND	1.81	90.4	2.00	9.60	
Total Xylenes*	<0.150	0.150	07/11/2025	ND	5.31	88.5	6.00	10.0	
Total BTEX	<0.300	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2025	ND	203	101	200	0.281	
DRO >C10-C28*	<10.0	10.0	07/11/2025	ND	226	113	200	0.266	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	107	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	102	% 40.6-15	3						

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

VERTEX RESOURCE **CHAD HENSLEY** 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/07/2025

Sampling Type: Soil

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

Sample ID: BH25 - 07 @ 1' (H254106-07)

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	07/11/2025	ND	1.75	87.6	2.00	9.38	
Toluene*	<0.050	0.050	07/11/2025	ND	1.82	91.0	2.00	9.55	
Ethylbenzene*	<0.050	0.050	07/11/2025	ND	1.81	90.4	2.00	9.60	
Total Xylenes*	<0.150	0.150	07/11/2025	ND	5.31	88.5	6.00	10.0	
Total BTEX	<0.300	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 71.5-13	4						
Chloride, SM4500Cl-B n		kg	Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2025	ND	203	101	200	0.281	
DRO >C10-C28*	<10.0	10.0	07/11/2025	ND	226	113	200	0.266	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	111 %	6 44.4-14	5						
Surrogate: 1-Chlorooctadecane	107 9	6 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/07/2025

Sampling Type: Soil

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

Sample ID: BH25 - 08 @ 1' (H254106-08)

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	07/11/2025	ND	1.75	87.6	2.00	9.38	
Toluene*	<0.050	0.050	07/11/2025	ND	1.82	91.0	2.00	9.55	
Ethylbenzene*	<0.050	0.050	07/11/2025	ND	1.81	90.4	2.00	9.60	
Total Xylenes*	<0.150	0.150	07/11/2025	ND	5.31	88.5	6.00	10.0	
Total BTEX	<0.300	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 71.5-13	4						
Chloride, SM4500Cl-B	Chloride, SM4500Cl-B mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2025	ND	203	101	200	0.281	
DRO >C10-C28*	<10.0	10.0	07/11/2025	ND	226	113	200	0.266	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	108 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	102 9	% 40.6-15	3						

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07/07/2025

Analytical Results For:

VERTEX RESOURCE **CHAD HENSLEY** 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Sampling Date:

Reported: 07/16/2025 Sampling Type: Soil Project Name: BEU DI 9 BATTERY Sampling Condition:

Cool & Intact Sample Received By: Project Number: 25A-03553 Tamara Oldaker

Project Location: XTO

Sample ID: BH25 - 09 @ 1' (H254106-09)

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	07/11/2025	ND	1.75	87.6	2.00	9.38	
Toluene*	<0.050	0.050	07/11/2025	ND	1.82	91.0	2.00	9.55	
Ethylbenzene*	<0.050	0.050	07/11/2025	ND	1.81	90.4	2.00	9.60	
Total Xylenes*	<0.150	0.150	07/11/2025	ND	5.31	88.5	6.00	10.0	
Total BTEX	<0.300	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.5	% 71.5-13	4						
Chloride, SM4500Cl-B	Chloride, SM4500Cl-B mg/l		g Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	07/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2025	ND	203	101	200	0.281	
DRO >C10-C28*	<10.0	10.0	07/11/2025	ND	226	113	200	0.266	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	115 %	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	110 9	40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY

mg/kg

Project Number: 25A-03553

Project Location: XTO

BTEX 8021B

Sampling Date: 07/07/2025

Sampling Type: Soil

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

Sample ID: BH25 - 10 @ 1' (H254106-10)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/11/2025	ND	1.75	87.6	2.00	9.38	
Toluene*	<0.050	0.050	07/11/2025	ND	1.82	91.0	2.00	9.55	
Ethylbenzene*	<0.050	0.050	07/11/2025	ND	1.81	90.4	2.00	9.60	
Total Xylenes*	<0.150	0.150	07/11/2025	ND	5.31	88.5	6.00	10.0	
Total BTEX	<0.300	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2025	ND	207	103	200	0.883	
DRO >C10-C28*	<10.0	10.0	07/11/2025	ND	198	98.9	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	100 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	101 9	% 40.6-15	3						

Analyzed By: JH

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported:

07/16/2025 Project Name: BEU DI 9 BATTERY

Project Number: 25A-03553

Project Location:

Sampling Date: 07/07/2025

Sampling Type: Soil

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

XTO

Sample ID: BH25 - 11 @ 0' (H254106-11)

RTFY 8021R

B1EX 8021B	тд/кд		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/11/2025	ND	1.75	87.6	2.00	9.38	
Toluene*	<0.050	0.050	07/11/2025	ND	1.82	91.0	2.00	9.55	
Ethylbenzene*	<0.050	0.050	07/11/2025	ND	1.81	90.4	2.00	9.60	
Total Xylenes*	<0.150	0.150	07/11/2025	ND	5.31	88.5	6.00	10.0	
Total BTEX	<0.300	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0 % 71.5-13		4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2025	ND	207	103	200	0.883	
DRO >C10-C28*	<10.0	10.0	07/11/2025	ND	198	98.9	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	93.5 % 44.4-143		5						
Surrogate: 1-Chlorooctadecane	97.1	% 40.6-15	3						

Applyzod By: 14

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/07/2025

Sampling Type: Soil

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

Sample ID: BH25 - 11 @ 1' (H254106-12)

RTFY 8021R

BIEX 8021B	тд/кд		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/11/2025	ND	1.75	87.6	2.00	9.38	
Toluene*	<0.050	0.050	07/11/2025	ND	1.82	91.0	2.00	9.55	
Ethylbenzene*	<0.050	0.050	07/11/2025	ND	1.81	90.4	2.00	9.60	
Total Xylenes*	<0.150	0.150	07/11/2025	ND	5.31	88.5	6.00	10.0	
Total BTEX	<0.300	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2025	ND	207	103	200	0.883	
DRO >C10-C28*	<10.0	10.0	07/11/2025	ND	198	98.9	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	91.8 % 44.4-143		5						
Surrogate: 1-Chlorooctadecane	88.9	% 40.6-15	3						

Applyzod By: 14

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY

mg/kg

Project Number: 25A-03553

Project Location:

Sampling Date: 07/07/2025

Sampling Type: Soil

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

XTO

Sample ID: BH25 - 05 @ 2' (H254106-13)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/11/2025	ND	1.75	87.6	2.00	9.38	
Toluene*	< 0.050	0.050	07/11/2025	ND	1.82	91.0	2.00	9.55	
Ethylbenzene*	<0.050	0.050	07/11/2025	ND	1.81	90.4	2.00	9.60	
Total Xylenes*	<0.150	0.150	07/11/2025	ND	5.31	88.5	6.00	10.0	
Total BTEX	<0.300	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.1 %	% 71.5-13-	4						
Chloride, SM4500Cl-B	mg/kg Ana			d By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	07/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2025	ND	207	103	200	0.883	
DRO >C10-C28*	<10.0	10.0	07/11/2025	ND	198	98.9	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	97.5 %	% 44.4-14 <u>:</u>	5						
Surrogate: 1-Chlorooctadecane	94.8 9	40.6-15	3						

Analyzed By: JH

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

mg/kg

Project Location: XTO

Sampling Date: 07/07/2025

Sampling Type: Soil

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

Sample ID: BH25 - 05 @ 3' (H254106-14)

BTEX 8021B

	9/	9	71.14.1, = 0	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/11/2025	ND	1.75	87.6	2.00	9.38	
Toluene*	<0.050	0.050	07/11/2025	ND	1.82	91.0	2.00	9.55	
Ethylbenzene*	<0.050	0.050	07/11/2025	ND	1.81	90.4	2.00	9.60	
Total Xylenes*	<0.150	0.150	07/11/2025	ND	5.31	88.5	6.00	10.0	
Total BTEX	<0.300	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2025	ND	207	103	200	0.883	
DRO >C10-C28*	<10.0	10.0	07/11/2025	ND	198	98.9	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	111 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	110	% 40.6-15	3						

Analyzed By: JH

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Analytical Results For:

VERTEX RESOURCE **CHAD HENSLEY** 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/07/2025

Sampling Type: Soil

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

Sample ID: BH25 - 05 @ 4' (H254106-15)

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	07/11/2025	ND	1.75	87.6	2.00	9.38	
Toluene*	<0.050	0.050	07/11/2025	ND	1.82	91.0	2.00	9.55	
Ethylbenzene*	<0.050	0.050	07/11/2025	ND	1.81	90.4	2.00	9.60	
Total Xylenes*	<0.150	0.150	07/11/2025	ND	5.31	88.5	6.00	10.0	
Total BTEX	<0.300	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2025	ND	207	103	200	0.883	
DRO >C10-C28*	<10.0	10.0	07/11/2025	ND	198	98.9	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	107 %	6 44.4-14	5						
Surrogate: 1-Chlorooctadecane	104 %	6 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

mg/kg

Project Location: XTO

BTEX 8021B

Sampling Date: 07/07/2025

Sampling Type: Soil

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

Sample ID: BH25 - 06 @ 2' (H254106-16)

	91	9	7	<u></u>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/11/2025	ND	1.75	87.6	2.00	9.38	
Toluene*	<0.050	0.050	07/11/2025	ND	1.82	91.0	2.00	9.55	
Ethylbenzene*	<0.050	0.050	07/11/2025	ND	1.81	90.4	2.00	9.60	
Total Xylenes*	<0.150	0.150	07/11/2025	ND	5.31	88.5	6.00	10.0	
Total BTEX	<0.300	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg Analyzed By: KH								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2025	ND	207	103	200	0.883	
DRO >C10-C28*	<10.0	10.0	07/11/2025	ND	198	98.9	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	95.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	93.1	% 40.6-15	3						

Analyzed By: JH

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Celey D. Keine



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

mg/kg

Project Location: XTO

Sampling Date: 07/07/2025

Sampling Type: Soil

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

Sample ID: BH25 - 06 @ 3' (H254106-17)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/11/2025	ND	1.75	87.6	2.00	9.38	
Toluene*	<0.050	0.050	07/11/2025	ND	1.82	91.0	2.00	9.55	
Ethylbenzene*	<0.050	0.050	07/11/2025	ND	1.81	90.4	2.00	9.60	
Total Xylenes*	<0.150	0.150	07/11/2025	ND	5.31	88.5	6.00	10.0	
Total BTEX	<0.300	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2025	ND	207	103	200	0.883	
DRO >C10-C28*	<10.0	10.0	07/11/2025	ND	198	98.9	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	102	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	98.3	% 40.6-15	3						

Analyzed By: JH

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Analytical Results For:

VERTEX RESOURCE **CHAD HENSLEY** 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/07/2025

Sampling Type: Soil

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

Sample ID: BH25 - 06 @ 4' (H254106-18)

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	07/11/2025	ND	1.75	87.6	2.00	9.38	
Toluene*	<0.050	0.050	07/11/2025	ND	1.82	91.0	2.00	9.55	
Ethylbenzene*	<0.050	0.050	07/11/2025	ND	1.81	90.4	2.00	9.60	
Total Xylenes*	<0.150	0.150	07/11/2025	ND	5.31	88.5	6.00	10.0	
Total BTEX	<0.300	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2025	ND	207	103	200	0.883	
DRO >C10-C28*	10.2	10.0	07/11/2025	ND	198	98.9	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	106 %	% 44.4-14	15						
Cumpo ato, 1 Chloro atadasana	107.0	/ 10 6 15	•						

Surrogate: 1-Chlorooctadecane 107 % 40.6-153

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

mg/kg

Project Location: XTO

Sampling Date: 07/07/2025

Sampling Type: Soil

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

Sample ID: BH25 - 10 @ 2' (H254106-19)

BTEX 8021B

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/11/2025	ND	2.05	103	2.00	5.96	
Toluene*	<0.050	0.050	07/11/2025	ND	2.03	102	2.00	4.32	
Ethylbenzene*	<0.050	0.050	07/11/2025	ND	2.00	99.8	2.00	3.08	
Total Xylenes*	<0.150	0.150	07/11/2025	ND	6.25	104	6.00	3.05	
Total BTEX	<0.300	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2025	ND	207	103	200	0.883	
DRO >C10-C28*	<10.0	10.0	07/11/2025	ND	198	98.9	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	96.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	94.6	% 40.6-15	3						

Analyzed By: JH

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/07/2025

Sampling Type: Soil

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

Sample ID: BH25 - 10 @ 3' (H254106-20)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/11/2025	ND	2.05	103	2.00	5.96	
Toluene*	<0.050	0.050	07/11/2025	ND	2.03	102	2.00	4.32	
Ethylbenzene*	<0.050	0.050	07/11/2025	ND	2.00	99.8	2.00	3.08	
Total Xylenes*	<0.150	0.150	07/11/2025	ND	6.25	104	6.00	3.05	
Total BTEX	<0.300	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	07/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2025	ND	207	103	200	0.883	
DRO >C10-C28*	<10.0	10.0	07/11/2025	ND	198	98.9	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	108	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	106	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/07/2025

Sampling Type: Soil

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

Sample ID: BH25 - 10 @ 4' (H254106-21)

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	07/11/2025	ND	2.05	103	2.00	5.96	
Toluene*	<0.050	0.050	07/11/2025	ND	2.03	102	2.00	4.32	
Ethylbenzene*	< 0.050	0.050	07/11/2025	ND	2.00	99.8	2.00	3.08	
Total Xylenes*	<0.150	0.150	07/11/2025	ND	6.25	104	6.00	3.05	
Total BTEX	<0.300	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2025	ND	207	103	200	0.883	
DRO >C10-C28*	<10.0	10.0	07/11/2025	ND	198	98.9	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	86.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	84.7	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

mg/kg

Project Location: XTO

Sampling Date: 07/08/2025

Sampling Type: Soil

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

Sample ID: BH25 - 12 @ 0' (H254106-22)

BTEX 8021B

DILX GOZID	ıııg,	9	Andryzo	u by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.56	0.500	07/14/2025	ND	2.05	103	2.00	5.96	
Toluene*	34.3	0.500	07/14/2025	ND	2.03	102	2.00	4.32	
Ethylbenzene*	16.3	0.500	07/14/2025	ND	2.00	99.8	2.00	3.08	
Total Xylenes*	88.3	1.50	07/14/2025	ND	6.25	104	6.00	3.05	
Total BTEX	141	3.00	07/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5920	16.0	07/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: ms						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2470	50.0	07/11/2025	ND	207	103	200	0.883	
DRO >C10-C28*	37400	50.0	07/11/2025	ND	198	98.9	200	1.21	
EXT DRO >C28-C36	6530	50.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	509	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	1250	% 40.6-15	3						

Analyzed By: JH

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

ma/ka

Project Location: XTO

BTEX 8021B

Sampling Date: 07/08/2025

Sampling Type: Soil

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

Sample ID: BH25 - 12 @ 1' (H254106-23)

BIEX 8021B	ilig	/ Ng	Allalyze	u by. Jn					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	11.1	1.00	07/14/2025	ND	2.05	103	2.00	5.96	
Toluene*	96.8	1.00	07/14/2025	ND	2.03	102	2.00	4.32	
Ethylbenzene*	32.5	1.00	07/14/2025	ND	2.00	99.8	2.00	3.08	
Total Xylenes*	163	3.00	07/14/2025	ND	6.25	104	6.00	3.05	
Total BTEX	304	6.00	07/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	07/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: ms					S-06

Method Blank

ND

ND

ND

BS

207

198

% Recovery

103

98.9

True Value QC

200

200

RPD

0.883

1.21

Qualifier

Analyzed

07/11/2025

07/11/2025

07/11/2025

Analyzed By: JH

Surrogate: 1-Chlorooctane	446 %	44.4-145
Surrogate: 1-Chlorooctadecane	264 %	40.6-153

Result

3400

13800

1840

Reporting Limit

50.0

50.0

50.0

Analyte

GRO C6-C10*

DRO >C10-C28*

EXT DRO > C28 - C36

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Analytical Results For:

VERTEX RESOURCE **CHAD HENSLEY** 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/08/2025

Sampling Type: Soil

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

Sample ID: BH25 - 13 @ 0' (H254106-24)

RTFY 8021R

B1EX 8021B	тд/кд		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.31	0.200	07/14/2025	ND	2.05	103	2.00	5.96	
Toluene*	16.9	0.200	07/14/2025	ND	2.03	102	2.00	4.32	
Ethylbenzene*	11.6	0.200	07/14/2025	ND	2.00	99.8	2.00	3.08	
Total Xylenes*	40.9	0.600	07/14/2025	ND	6.25	104	6.00	3.05	
Total BTEX	71.7	1.20	07/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	07/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2100	50.0	07/11/2025	ND	207	103	200	0.883	
DRO >C10-C28*	25400	50.0	07/11/2025	ND	198	98.9	200	1.21	
EXT DRO >C28-C36	4460	50.0	07/11/2025	ND					

Applyzod By: 14

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900 %

40.6-153

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Celey D. Keine Celey D. Keene, Lab Director/Quality Manager

Surrogate: 1-Chlorooctadecane



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

mg/kg

Project Location: XTO

Sampling Date: 07/08/2025

Sampling Type: Soil

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

Sample ID: BH25 - 13 @ 1' (H254106-25)

BTEX 8021B

EXT DRO > C28 - C36

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	23.9	2.00	07/14/2025	ND	2.05	103	2.00	5.96	
Toluene*	214	2.00	07/14/2025	ND	2.03	102	2.00	4.32	
Ethylbenzene*	59.4	2.00	07/14/2025	ND	2.00	99.8	2.00	3.08	
Total Xylenes*	261	6.00	07/14/2025	ND	6.25	104	6.00	3.05	
Total BTEX	558	12.0	07/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Chloride, SM4500CI-B Analyte	mg , Result	/kg Reporting Limit	Analyze Analyzed	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
·					BS 416	% Recovery	True Value QC	RPD 0.00	Qualifier QM-07
Analyte	Result	Reporting Limit	Analyzed 07/14/2025	Method Blank		•	•		-
Analyte Chloride	Result	Reporting Limit	Analyzed 07/14/2025	Method Blank		•	•		QM-07
Analyte Chloride TPH 8015M	Result 8000	Reporting Limit 16.0	Analyzed 07/14/2025 Analyze	Method Blank ND d By: ms	416	104	400	0.00	QM-07 S-06

ND

07/11/2025

Analyzed By: JH

Surrogate: 1-Chlorooctane 387 % 44.4-145 Surrogate: 1-Chlorooctadecane 179 % 40.6-153

1130

50.0

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Celey D. Keine



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/08/2025

Sampling Type: Soil

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

Sample ID: BH25 - 13 @ 2' (H254106-26)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	48.1	5.00	07/14/2025	ND	2.05	103	2.00	5.96	
Toluene*	506	5.00	07/14/2025	ND	2.03	102	2.00	4.32	
Ethylbenzene*	143	5.00	07/14/2025	ND	2.00	99.8	2.00	3.08	
Total Xylenes*	651	15.0	07/14/2025	ND	6.25	104	6.00	3.05	
Total BTEX	1350	30.0	07/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/14/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	19700	50.0	07/11/2025	ND	207	103	200	0.883	
DRO >C10-C28*	40600	50.0	07/11/2025	ND	198	98.9	200	1.21	
EXT DRO >C28-C36	4670	50.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	2230	% 44.4-14	'5						
Surrogate: 1-Chlorooctadecane	1040	% 40.6-15	3						

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

mg/kg

Project Location: XTO

Sampling Date: 07/08/2025

Sampling Type: Soil

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

Sample ID: BH25 - 13 @ 3' (H254106-27)

BTEX 8021B

	3,		. ,	. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.142	0.050	07/11/2025	ND	2.05	103	2.00	5.96	
Toluene*	0.456	0.050	07/11/2025	ND	2.03	102	2.00	4.32	
Ethylbenzene*	0.079	0.050	07/11/2025	ND	2.00	99.8	2.00	3.08	
Total Xylenes*	0.371	0.150	07/11/2025	ND	6.25	104	6.00	3.05	
Total BTEX	1.05	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/14/2025	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	07/11/2025	ND	207	103	200	0.883	
DRO >C10-C28*	93.3	10.0	07/11/2025	ND	198	98.9	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	110 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	114 9	% 40.6-15	3						

Analyzed By: JH

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/08/2025

Sampling Type: Soil

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

Sample ID: BH25 - 13 @ 4' (H254106-28)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/11/2025	ND	2.05	103	2.00	5.96	
Toluene*	0.143	0.050	07/11/2025	ND	2.03	102	2.00	4.32	
Ethylbenzene*	0.087	0.050	07/11/2025	ND	2.00	99.8	2.00	3.08	
Total Xylenes*	0.470	0.150	07/11/2025	ND	6.25	104	6.00	3.05	
Total BTEX	0.699	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	352	16.0	07/14/2025	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	07/11/2025	ND	207	103	200	0.883	
DRO >C10-C28*	12.8	10.0	07/11/2025	ND	198	98.9	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	94.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	95.1	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/08/2025

Sampling Type: Soil

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

Sample ID: BH25 - 14 @ 0' (H254106-29)

BTEX 8021B	mg/	kg	Analyzed By: JH						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	07/14/2025	ND	2.05	103	2.00	5.96		
Toluene*	5.63	0.100	07/14/2025	ND	2.03	102	2.00	4.32		
Ethylbenzene*	4.52	0.100	07/14/2025	ND	2.00	99.8	2.00	3.08		
Total Xylenes*	26.9	0.300	07/14/2025	ND	6.25	104	6.00	3.05		
Total BTEX	37.1	0.600	07/14/2025	ND						
Surrogate: 4-Bromofluorobenzene (PID	141 9	% 71.5-13	4							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC						
Analyto	Pocult	Poporting Limit	Analyzod	Mothod Blank	ВС	% Pocovony	Truo Valuo OC	DDD	Qualifier	

Chloride, SM4500CI-B	mg,	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	BS % Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	07/14/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	486	10.0	07/11/2025	ND	207	103	200	0.883	
DRO >C10-C28*	9450	10.0	07/11/2025	ND	198	98.9	200	1.21	
EXT DRO >C28-C36	1260	10.0	07/11/2025	ND					
-									

Surrogate: 1-Chlorooctane 151 % 44.4-145 Surrogate: 1-Chlorooctadecane 263 % 40.6-153

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Celey D. Kreine



Analytical Results For:

VERTEX RESOURCE **CHAD HENSLEY** 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/08/2025

Sampling Type: Soil

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

Sample ID: BH25 - 14 @ 1' (H254106-30)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/11/2025	ND	2.05	103	2.00	5.96	
Toluene*	<0.050	0.050	07/11/2025	ND	2.03	102	2.00	4.32	
Ethylbenzene*	< 0.050	0.050	07/11/2025	ND	2.00	99.8	2.00	3.08	
Total Xylenes*	<0.150	0.150	07/11/2025	ND	6.25	104	6.00	3.05	
Total BTEX	<0.300	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 %	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	07/14/2025	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	07/11/2025	ND	215	107	200	1.49	
DRO >C10-C28*	<10.0	10.0	07/11/2025	ND	215	107	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	96.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	95.6	% 40.6-15	3						

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/08/2025

Sampling Type: Soil

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

Sample ID: BH25 - 14 @ 2' (H254106-31)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/11/2025	ND	2.05	103	2.00	5.96	
Toluene*	<0.050	0.050	07/11/2025	ND	2.03	102	2.00	4.32	
Ethylbenzene*	<0.050	0.050	07/11/2025	ND	2.00	99.8	2.00	3.08	
Total Xylenes*	<0.150	0.150	07/11/2025	ND	6.25	104	6.00	3.05	
Total BTEX	<0.300	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	07/14/2025	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	07/11/2025	ND	215	107	200	1.49	
DRO >C10-C28*	103	10.0	07/11/2025	ND	215	107	200	2.95	
EXT DRO >C28-C36	19.2	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	99.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	105	% 40.6-15	3						

Applyzod By: 14

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/08/2025

Sampling Type: Soil

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

Sample ID: BH25 - 14 @ 3' (H254106-32)

RTFY 8021R

B1EX 8021B	mg/	кg	Апануге	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/11/2025	ND	2.05	103	2.00	5.96	
Toluene*	<0.050	0.050	07/11/2025	ND	2.03	102	2.00	4.32	
Ethylbenzene*	<0.050	0.050	07/11/2025	ND	2.00	99.8	2.00	3.08	
Total Xylenes*	<0.150	0.150	07/11/2025	ND	6.25	104	6.00	3.05	
Total BTEX	<0.300	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	240	16.0	07/14/2025	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	07/11/2025	ND	215	107	200	1.49	
DRO >C10-C28*	<10.0	10.0	07/11/2025	ND	215	107	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	93.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	94.5	% 40.6-15	3						

Applyzod By: 14

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported:

07/16/2025 Project Name: BEU DI 9 BATTERY

Project Number: 25A-03553 Project Location: XTO

Sampling Date: 07/08/2025 Sampling Type: Soil

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

Sample ID: BH25 - 14 @ 4' (H254106-33)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/11/2025	ND	2.05	103	2.00	5.96	
Toluene*	<0.050	0.050	07/11/2025	ND	2.03	102	2.00	4.32	
Ethylbenzene*	<0.050	0.050	07/11/2025	ND	2.00	99.8	2.00	3.08	
Total Xylenes*	<0.150	0.150	07/11/2025	ND	6.25	104	6.00	3.05	
Total BTEX	<0.300	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/14/2025	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	07/11/2025	ND	215	107	200	1.49	
DRO >C10-C28*	24.3	10.0	07/11/2025	ND	215	107	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	73.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	73.2	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/08/2025

Sampling Type: Soil

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

Sample ID: BH25 - 15 @ 0' (H254106-34)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2025	ND	2.05	103	2.00	5.96	
Toluene*	1.50	0.050	07/14/2025	ND	2.03	102	2.00	4.32	
Ethylbenzene*	1.97	0.050	07/14/2025	ND	2.00	99.8	2.00	3.08	
Total Xylenes*	10.0	0.150	07/14/2025	ND	6.25	104	6.00	3.05	
Total BTEX	13.5	0.300	07/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	188	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	07/14/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	936	50.0	07/11/2025	ND	215	107	200	1.49	
DRO >C10-C28*	16400	50.0	07/11/2025	ND	215	107	200	2.95	
EXT DRO >C28-C36	2900	50.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	294	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	342	% 40.6-15	3						

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Celey D. Keine



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/08/2025

Sampling Type: Soil

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

Sample ID: BH25 - 15 @ 1' (H254106-35)

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*	0.263	0.100	07/14/2025	ND	2.05	103	2.00	5.96	
Toluene*	5.91	0.100	07/14/2025	ND	2.03	102	2.00	4.32	
Ethylbenzene*	4.63	0.100	07/14/2025	ND	2.00	99.8	2.00	3.08	
Total Xylenes*	26.2	0.300	07/14/2025	ND	6.25	104	6.00	3.05	
Total BTEX	37.0	0.600	07/14/2025	ND					

C 1 D 1	L (DID	160.0/	71 5 124
Surrogate: 4-Bromofluoro	obenzene (PID	168 %	71.5-134

mg	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
8480	16.0	07/14/2025	ND	416	104	400	0.00	
5M mg/kg		Analyze	d By: MS					S-04
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
919	10.0	07/11/2025	ND	215	107	200	1.49	
6600	10.0	07/11/2025	ND	215	107	200	2.95	
968	10.0	07/11/2025	ND					
	Result 8480 mg, Result 919 6600	8480 16.0 mg/kg Result Reporting Limit 919 10.0 6600 10.0	Result Reporting Limit Analyzed 8480 16.0 07/14/2025 mg/kg Analyze Result Reporting Limit Analyzed 919 10.0 07/11/2025 6600 10.0 07/11/2025	Result Reporting Limit Analyzed Method Blank 8480 16.0 07/14/2025 ND mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank 919 10.0 07/11/2025 ND 6600 10.0 07/11/2025 ND	Result Reporting Limit Analyzed Method Blank BS 8480 16.0 07/14/2025 ND 416 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS 919 10.0 07/11/2025 ND 215 6600 10.0 07/11/2025 ND 215	Result Reporting Limit Analyzed Method Blank BS % Recovery 8480 16.0 07/14/2025 ND 416 104 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery 919 10.0 07/11/2025 ND 215 107 6600 10.0 07/11/2025 ND 215 107	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 8480 16.0 07/14/2025 ND 416 104 400 Mesult Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 919 10.0 07/11/2025 ND 215 107 200 6600 10.0 07/11/2025 ND 215 107 200	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 8480 16.0 07/14/2025 ND 416 104 400 0.00 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 919 10.0 07/11/2025 ND 215 107 200 1.49 6600 10.0 07/11/2025 ND 215 107 200 2.95

Surrogate: 1-Chlorooctane 175 % 44.4-145 Surrogate: 1-Chlorooctadecane 290 % 40.6-153

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/08/2025

Sampling Type: Soil

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

Sample ID: BH25 - 15 @ 2' (H254106-36)

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	07/14/2025	ND	2.05	103	2.00	5.96	
Toluene*	<0.050	0.050	07/14/2025	ND	2.03	102	2.00	4.32	
Ethylbenzene*	<0.050	0.050	07/14/2025	ND	2.00	99.8	2.00	3.08	
Total Xylenes*	<0.150	0.150	07/14/2025	ND	6.25	104	6.00	3.05	
Total BTEX	<0.300	0.300	07/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 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	512	16.0	07/14/2025	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	07/11/2025	ND	215	107	200	1.49	
DRO >C10-C28*	35.7	10.0	07/11/2025	ND	215	107	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					
Surrogate: 1-Chlorooctane	72.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	72.4	% 40.6-15	3						

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Celey D. Keine



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/08/2025

Sampling Type: Soil

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

Sample ID: BH25 - 15 @ 3' (H254106-37)

RTFY 8021R

B1EX 8021B	mg/	кg	Апануге	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/11/2025	ND	2.05	103	2.00	5.96	
Toluene*	<0.050	0.050	07/11/2025	ND	2.03	102	2.00	4.32	
Ethylbenzene*	<0.050	0.050	07/11/2025	ND	2.00	99.8	2.00	3.08	
Total Xylenes*	<0.150	0.150	07/11/2025	ND	6.25	104	6.00	3.05	
Total BTEX	<0.300	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 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	128	16.0	07/14/2025	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	07/14/2025	ND	215	107	200	1.49	
DRO >C10-C28*	<10.0	10.0	07/14/2025	ND	215	107	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	07/14/2025	ND					
Surrogate: 1-Chlorooctane	109 5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	111 9	% 40.6-15	3						

Applyzod By: 14

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/10/2025 Reported: 07/16/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/08/2025

Sampling Type: Soil

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

Sample ID: BH25 - 15 @ 4' (H254106-38)

RTFY 8021R

B1EX 8021B	mg/	кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/11/2025	ND	2.05	103	2.00	5.96	
Toluene*	<0.050	0.050	07/11/2025	ND	2.03	102	2.00	4.32	
Ethylbenzene*	<0.050	0.050	07/11/2025	ND	2.00	99.8	2.00	3.08	
Total Xylenes*	<0.150	0.150	07/11/2025	ND	6.25	104	6.00	3.05	
Total BTEX	<0.300	0.300	07/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	71.5-13	4						
Chloride, SM4500CI-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	07/14/2025	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	07/14/2025	ND	215	107	200	1.49	
DRO >C10-C28*	<10.0	10.0	07/14/2025	ND	215	107	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	07/14/2025	ND					
Surrogate: 1-Chlorooctane	97.9	% 44.4-14.	5						
Surrogate: 1-Chlorooctadecane	98.2	% 40.6-15.	3						

Applyzod By: 14

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Manager () tex resource										В	IL	LT	0		T						ΝΔ	LYS	IS R	PEC	MIE	ет.		_	_
Project Manager: Chad Hensley							P	2.0.	#:	10	80	87	10	01	\top	T			T	Ť	IIIA			I I	(UE	31	_	_	-
Address: 3101 Boyd drive Sity: Carlsbad State: NM							c	om	pan	1y: {	$E_{\mathbf{x}}$	YOA!	12	hil	7									- 1		1			
state:///	Zip	: 8	82	220	0		A	ttn:	A	Shl	ley	10	4	ee st										- 1					
none #: 0/5 - 100-6167 Fav #.							A	ddr	ess	:3	10	HEC	350	en st	1					- 1				- 1					
Project #: 25A - 03553 Project Owner Project Name: BEU DI 9 Battery							С	ity:	Ca	sk	66	ad			1									- 1					
roject Name: BEU VI 4 Battery							St	tate	:1	1/1	1z	ip: 8	18	220	1									- 1					
roject Location:									e #:						1		- 1												
ampler Name: Riley Acnold							Fa	ax#	:						1			0)										
ON DAB USE ONLY			-	MA	TRI	X		PF	RESI	ERV	T	SA	MP	LING	1			7						- 1					
Lab I.D. Sample I.D. 254106 1 8H25-01 20 1' 2 8H25-02 20 1' 3 8H25-03 20 1' 4 8H25-04 20 1' 5 8H25-05 20 1' 6 8H25-06 20 1' 7 8H25-08 20 1' 8 8H25-08 20 1'	Q(G)RAB OR (C)OM	# CONTAINERS	WASTEWATER	X Soll	OIL	SLUDGE	OTHER:	ACID/BASE:	X ICE/COOF			7.25	5	TIME 10:00 10:12 10:35 0:50 1:00		X	4/1	X / hlori											
10 BH25-10 DI	Ш			1			1		1	-	-	1	١.	1:38	-		-												

Relinquished By: Relinquished By:	Date: Date: Time: Time:	without timitation, business interruptions, loss of use, or loss of profits incurred to aradinal, regardless of whether such claim is based upon any of the above stated Received By:	Vellent, its subsidiaries, reasons or otherwise. All Results are emailed. Please provide Email address: Chensley a vertex resource. Com REMARKS: Karnolo a vertex resource. Com
Samples LIDS D	Observed Temp. °C Corrected Temp. °C † Cardinal	100 1100	Turnaround Time: Standard Rush Correction Factor +0.3°C Standard Rush Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No No Corrected Temp. °C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Manage	e: Vertex Resource									LL TO						ANA	LYSIS	S RE	QUES	T	
Phone #: 576 Project #: 25 Project Name:	er: Chad Hensley I Boyd drive bad State: N/ 5-200-6167 Fax #: A-03553 Project Own BEU DI 9 Battery n: Riley Asnold		p: %	822	20		A A C S	ompar attn: A address	1y: E Sh la ::310 :(15)	KonM KkonM ey Mc 04 E Go bad zip: 89	lobil afee ieme st										
FOR LAB USE ONLY	,	₩	П		MAT	RIX		PRES	ERV.	SAM	PLING			d							
Lab I.D.	Sample I.D.	(G)RAB OR (C)ON	# CONTAINERS	WASTEWATER	SOIL	OIL	SLUDGE OTHER:	ACID/BASE:	OTHER:	DATE	TIME	BTEX	HOL	Chlosid							
12	8H25-11 20' 8H25-11 20 1' 8H25-05 20 2' 8425-05 20 3' 8H25-06 20 2'	G	1		X			X		7.7.25	12:00 12:09 12:20	X	X	X							
15	BH25-05 25' BH25-0524' BH25-0622'										12:27			1							
	8H25-06 2 4' 8H25-10 2 2'										12:50										
ASE NOTE: Liability and	BH25 - 10 W S	Π	11								1, 33	1	1	-	-						

service. In no event shall Cardinal be liable for incidental or consultation or successors arising out of or related to the performance of the consultation of the con	Date: 7-10-25 Time: 340	without limitation, business inder in writing and received by Cardinal within 30 days a without limitation, business interruptions, loss of use, or loss of profits incurred by ardinal, regardless of whether such claim is based upon any of the above stated Received By:	y client, its subsidiaries,	es No Add Please provide En	d'I Phone #: nail address/Lacnold DVES PLASCOUICE CO ICE. COM	m
	oserved Temp. °C	Sample Condition CHECKED BY: Cool Intact (Initials) Pes Pes	Turnaround Time: Thermometer ID #140 Correction Factor +0.3°C	Standard Rush	Cool Intact Observed Temp. °C	
•	+ Cardinal o	cannot accept week-1-1-1			□ No □ No Corrected Temp. °C	



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

roject Manage	Vestex Kesource									BI	LL TO)						AN	ALY	SIS	REQ	LEST	Г		_
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R LAB USE ONLY	7,,,,,,,,,	<u>م</u>	П		M	ATRI	X	Fax	PRES	ERV.	SAI	IPLING	\dashv		6										
_ab I.D. 254106	Sample I.D.	G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:	DATE	TIM	IE (8TEX	Chlorid	HOL									
20	BH25-10 20 4' BH25-12 20' BH25-12 20'	G	11	1	X			1	X		7.7.25	1:32	2	X	χ	X			t						\dashv
23	BH25 - 12 20 1'	1	Ш	1						1	8.23	9:3	C	1	+	+		-	+	+		-			
	BH25 12 20 2'	\parallel	\parallel	+	+	H		+	+	1	8.25	9:6	52	+	+	+									
21	8H25 12 2 4-	H	H	-	+			7	T	7	8.25	10:0	9			1		-	-	-	-	+	-	-	-
25	BH25-13 20'	\mathbb{H}	Ш	+	-		-	+	-	7		10:		T											
36	BH25 - 13 D 2'	\parallel	Ш		1			1		7	8.25	10:3	20	\mathbf{H}	1	+			-	+	+	+	-		
	120/22 - 15 (1)	111	111		1					17	070	11:0	. 7	1			-	1	1		-				

Relinquished By: Relinquished By: Relinquished By:	p of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above times. Received By: Time: Time: Received By:	Verbal Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address: Rashdd avestexsesowce concerns. Chensley avestexsesows. Com REMARKS:
0	orrected Temp. °C	Thermometer ID #140 Correction Factor +0.3°C Startdard Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No. No. Corrected Temp. °C

Page 44 of 45



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Manager:	Source					Ĺ		B	ILL	TO		ANALYSIS REQUEST							_		
Company Name: Vestex Re Project Manager: Chad He Address: 3101 Boyd C City: Cas 1562d	isley					P.O. #: 1080871001								T		T	T	T			
Address: SIDI DOYA	Wive					Company: EXKON Mahil					1				1						
city: Caribbad	State: NM Z	ip:	882	20)	Attn: Ashley Mcafee Address: 3104 E Greene St					1	1	1								
10110 11. 5/5-200-616	/ Fax #:					A	ddres	s:31	HE	Colo	ene 5+	1						1			
Project #: 25A-03553 Project Owner:					c	ity:/	611	Shad	1	ene o.	1										
roject Name: BEU DI 9 Battery								Zip:		22.0	1										
plect Location:							none		Lip.	001	120	1			1						
ampler Name: Riley Arne	old						ax #:	<i>m</i> .								1					
FOR LAB USE ONLY		Т		MAT	RIX	11.0	_	SERV	1 5	SAMP	LING			0	Y						
Lab I.D. Sample 28 BH25 - 13 a 39 BH25 - 14 a 30 BH25 - 14 a 31 BH25 - 14 a 32 BH25 - 14 a 33 BH25 - 14 a 34 BH25 - 15 a 36 BH25 - 15 a 37 BH25 - 15 a 37 BH25 - 15 a	RABO	# # CONTAINERS	GROUNDWATER	XSOIL	OIL	OTHER:	ACID/BASE:	OTHER:	7.8.	.25	TIME 11:26 11:35 11:45 11:57 12:11 12:19 12:27 12:40 12:52			- x /hlosic							

Relinquished By: Relinquished By: Pate:	All Result	its are emailed. Please provide Email address: Rasholdaveltexsesousce.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other: Corrected Temp. Corrected Temp. Cardin	COOI Intact (Initials)	nd Time: Standard Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No No Corrected Temp. °C

PM

Page 45 of 45

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Manage	e. Vestex Kesousce								E	ILL TO)	T			ANA	LYSIS	S RE	OUE	ST	 _
	e: Vestex Resource er: Chad Hensley I Boyol drive bad state: N 5-200-6167 Fax#: SA-03553 Project Ov BEU DI & Battery		ip: 8	182	20		A	ttn:	#: 10 Ashl ess: 3 Cacl	18087 Exxon Ley Med 104E Go 15bad 12ip: 88	100 lobil fee cen st				ANA	LTSIS	S KE	QUE	51	
mpler Name:	/ .						-	hone				1								
Lab I.D. 1254106 38	Sample I.D. 8425 - 15 20 4'	Y (G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	X SOIL		OTHER:		X ICE / COOL		TIME	X BTEX	HOT X	Morida						
										7.6.63	1.10									
NOTE: Liability and	Damages. Cardinal's liability and client's exclusive remedy for negligence and any other cause whatsoever shall	or any claim	arisine	whether	based in	contra-	t or too	ehalt i		o the amount paid										

Relinquished By: Relinquished By:	Date: Time: 340 Date: Time:	Received By:	least of the above stated	Verbal Result: Yes All Results are emailed. Chensley War REMARKS:	es No Please provi	Add'I Phone #: ride Email address:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: FORM-000 R 3.0 02/12/25	Observed Temp. °C Corrected Temp. °C	Sample Condition Cool Intact Ves Yes No No	CHECKED BY:	Turnaround Time: Thermometer ID #140 Correction Factor +0.3°C	Standard Rush	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No No Corrected Temp. °C



August 04, 2025

CHAD HENSLEY

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: BEU DI 9 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/29/25 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY

Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/25/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 01 @ 4' (H254592-01)

DTEV 0021D

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	07/30/2025	ND	1.93	96.4	2.00	0.672	
Toluene*	<0.050	0.050	07/30/2025	ND	2.07	103	2.00	1.49	
Ethylbenzene*	<0.050	0.050	07/30/2025	ND	2.11	106	2.00	2.45	
Total Xylenes*	<0.150	0.150	07/30/2025	ND	6.53	109	6.00	1.96	
Total BTEX	<0.300	0.300	07/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/30/2025	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	07/30/2025	ND	221	111	200	3.41	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	215	107	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	107	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	104	% 40.6-15	3						

Applyand By 14

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Celey D. Keine



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY

Project Number: 25A-03553 Project Location: XTO

Sampling Date: 07/25/2025 Sampling Type: Soil

Sampling Condition: Cool & Intact Tamara Oldaker

Sample Received By:

Sample ID: BS 25 - 02 @ 4' (H254592-02)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.93	96.4	2.00	0.672	
Toluene*	<0.050	0.050	07/31/2025	ND	2.07	103	2.00	1.49	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	2.11	106	2.00	2.45	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.53	109	6.00	1.96	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/30/2025	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	07/30/2025	ND	221	111	200	3.41	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	215	107	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	106	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	104	% 40.6-15	3						

Applyzod By: 14

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/25/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 03 @ 4' (H254592-03)

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	07/31/2025	ND	1.93	96.4	2.00	0.672	
Toluene*	<0.050	0.050	07/31/2025	ND	2.07	103	2.00	1.49	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	2.11	106	2.00	2.45	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.53	109	6.00	1.96	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 71.5-13	4						
Chloride, SM4500Cl-B	oloride, SM4500Cl-B mg/kg			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/30/2025	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	221	111	200	3.41	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	215	107	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	106	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	104	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY

Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/25/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 04 @ 4' (H254592-04)

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	07/31/2025	ND	1.93	96.4	2.00	0.672	
Toluene*	<0.050	0.050	07/31/2025	ND	2.07	103	2.00	1.49	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	2.11	106	2.00	2.45	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.53	109	6.00	1.96	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/30/2025	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	221	111	200	3.41	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	215	107	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	101	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	99.0	% 40.6-15	3						

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/25/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 05 @ 4' (H254592-05)

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	07/31/2025	ND	1.93	96.4	2.00	0.672	
Toluene*	<0.050	0.050	07/31/2025	ND	2.07	103	2.00	1.49	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	2.11	106	2.00	2.45	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.53	109	6.00	1.96	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 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	112	16.0	07/30/2025	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	221	111	200	3.41	
DRO >C10-C28*	96.7	10.0	07/30/2025	ND	215	107	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	105 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	105 9	% 40.6-15	3						

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Celey D. Keine



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/25/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 06 @ 4' (H254592-06)

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	07/31/2025	ND	1.93	96.4	2.00	0.672	
Toluene*	<0.050	0.050	07/31/2025	ND	2.07	103	2.00	1.49	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	2.11	106	2.00	2.45	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.53	109	6.00	1.96	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/30/2025	ND	448	112	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	221	111	200	3.41	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	215	107	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	109	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	108	% 40.6-15	3						

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Celey D. Keine



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/25/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 07 @ 4' (H254592-07)

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	07/31/2025	ND	1.93	96.4	2.00	0.672	
Toluene*	<0.050	0.050	07/31/2025	ND	2.07	103	2.00	1.49	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	2.11	106	2.00	2.45	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.53	109	6.00	1.96	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	123 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	224	16.0	07/30/2025	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	221	111	200	3.41	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	215	107	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	101 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	100 9	% 40.6-15	3						

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/25/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 08 @ 4' (H254592-08)

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	07/31/2025	ND	1.93	96.4	2.00	0.672	
Toluene*	<0.050	0.050	07/31/2025	ND	2.07	103	2.00	1.49	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	2.11	106	2.00	2.45	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.53	109	6.00	1.96	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 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	224	16.0	07/30/2025	ND	448	112	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	221	111	200	3.41	
DRO >C10-C28*	125	10.0	07/30/2025	ND	215	107	200	3.04	
EXT DRO >C28-C36	10.2	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	107	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	108	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/25/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 09 @ 4' (H254592-09)

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	07/31/2025	ND	1.93	96.4	2.00	0.672	
Toluene*	<0.050	0.050	07/31/2025	ND	2.07	103	2.00	1.49	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	2.11	106	2.00	2.45	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.53	109	6.00	1.96	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/30/2025	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	221	111	200	3.41	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	215	107	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	107 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	106	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY

Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/25/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 10 @ 4' (H254592-10)

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	07/31/2025	ND	1.93	96.4	2.00	0.672	
Toluene*	<0.050	0.050	07/31/2025	ND	2.07	103	2.00	1.49	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	2.11	106	2.00	2.45	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.53	109	6.00	1.96	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	123 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	192	16.0	07/30/2025	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	221	111	200	3.41	
DRO >C10-C28*	38.0	10.0	07/30/2025	ND	215	107	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	109 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	108 9	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE **CHAD HENSLEY** 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/25/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 11 @ 5' (H254592-11)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.93	96.4	2.00	0.672	
Toluene*	<0.050	0.050	07/31/2025	ND	2.07	103	2.00	1.49	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	2.11	106	2.00	2.45	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.53	109	6.00	1.96	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/30/2025	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	221	111	200	3.41	
DRO >C10-C28*	224	10.0	07/30/2025	ND	215	107	200	3.04	
EXT DRO >C28-C36	36.6	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	110	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	116	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

RTFY 8021R

Sampling Date: 07/25/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 12 @ 5' (H254592-12)

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.93	96.4	2.00	0.672	
Toluene*	<0.050	0.050	07/31/2025	ND	2.07	103	2.00	1.49	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	2.11	106	2.00	2.45	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.53	109	6.00	1.96	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/30/2025	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	221	111	200	3.41	
DRO >C10-C28*	12.7	10.0	07/30/2025	ND	215	107	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	105	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	107	% 40.6-15	3						

Applyzod By: 14

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/25/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 13 @ 5' (H254592-13)

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	07/31/2025	ND	1.93	96.4	2.00	0.672	
Toluene*	<0.050	0.050	07/31/2025	ND	2.07	103	2.00	1.49	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	2.11	106	2.00	2.45	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.53	109	6.00	1.96	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	121 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/30/2025	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	220	110	200	1.55	
DRO >C10-C28*	22.3	10.0	07/30/2025	ND	219	110	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	98.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	97.9	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/25/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 14 @ 5' (H254592-14)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.93	96.4	2.00	0.672	
Toluene*	<0.050	0.050	07/31/2025	ND	2.07	103	2.00	1.49	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	2.11	106	2.00	2.45	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.53	109	6.00	1.96	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	07/30/2025	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	220	110	200	1.55	
DRO >C10-C28*	50.3	10.0	07/30/2025	ND	219	110	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	90.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	89.6	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/25/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 15 @ 4' (H254592-15)

BTEX 8021B	mg,	mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.93	96.4	2.00	0.672	
Toluene*	<0.050	0.050	07/31/2025	ND	2.07	103	2.00	1.49	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	2.11	106	2.00	2.45	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.53	109	6.00	1.96	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	07/30/2025	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	220	110	200	1.55	
DRO >C10-C28*	57.0	10.0	07/30/2025	ND	219	110	200	1.35	
EXT DRO >C28-C36	10.3	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	89.4	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	87.1	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/25/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 16 @ 4' (H254592-16)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.93	96.4	2.00	0.672	
Toluene*	<0.050	0.050	07/31/2025	ND	2.07	103	2.00	1.49	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	2.11	106	2.00	2.45	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.53	109	6.00	1.96	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/30/2025	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	220	110	200	1.55	
DRO >C10-C28*	48.3	10.0	07/30/2025	ND	219	110	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	91.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	90.6	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/25/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 17 @ 4' (H254592-17)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.93	96.4	2.00	0.672	
Toluene*	<0.050	0.050	07/31/2025	ND	2.07	103	2.00	1.49	
Ethylbenzene*	< 0.050	0.050	07/31/2025	ND	2.11	106	2.00	2.45	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.53	109	6.00	1.96	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	07/30/2025	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	220	110	200	1.55	
DRO >C10-C28*	177	10.0	07/30/2025	ND	219	110	200	1.35	
EXT DRO >C28-C36	31.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	87.0	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	88.9	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/28/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 18 @ 4' (H254592-18)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.93	96.4	2.00	0.672	
Toluene*	<0.050	0.050	07/31/2025	ND	2.07	103	2.00	1.49	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	2.11	106	2.00	2.45	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.53	109	6.00	1.96	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	129	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	07/30/2025	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	220	110	200	1.55	
DRO >C10-C28*	107	10.0	07/30/2025	ND	219	110	200	1.35	
EXT DRO >C28-C36	15.7	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	83.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	83.0	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY

Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/28/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 19 @ 4' (H254592-19)

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	07/31/2025	ND	1.93	96.4	2.00	0.672	
Toluene*	<0.050	0.050	07/31/2025	ND	2.07	103	2.00	1.49	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	2.11	106	2.00	2.45	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.53	109	6.00	1.96	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	121 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	560	16.0	07/30/2025	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	220	110	200	1.55	
DRO >C10-C28*	135	10.0	07/30/2025	ND	219	110	200	1.35	
EXT DRO >C28-C36	20.6	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	83.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	85.3	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/25/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 20 @ 4' (H254592-20)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.85	92.3	2.00	2.62	
Toluene*	<0.050	0.050	07/31/2025	ND	1.84	91.8	2.00	4.71	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	1.86	92.8	2.00	6.26	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	5.63	93.8	6.00	6.16	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/30/2025	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	220	110	200	1.55	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	219	110	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	82.6	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	79.8	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/25/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 21 @ 4' (H254592-21)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.85	92.3	2.00	2.62	
Toluene*	<0.050	0.050	07/31/2025	ND	1.84	91.8	2.00	4.71	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	1.86	92.8	2.00	6.26	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	5.63	93.8	6.00	6.16	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/30/2025	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	220	110	200	1.55	
DRO >C10-C28*	18.6	10.0	07/30/2025	ND	219	110	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	85.0	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	81.8	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/28/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 22 @ 3' (H254592-22)

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	07/31/2025	ND	1.85	92.3	2.00	2.62	
Toluene*	<0.050	0.050	07/31/2025	ND	1.84	91.8	2.00	4.71	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	1.86	92.8	2.00	6.26	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	5.63	93.8	6.00	6.16	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/30/2025	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	220	110	200	1.55	
DRO >C10-C28*	16.1	10.0	07/30/2025	ND	219	110	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	75.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	73.1	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/28/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 23 @ 3' (H254592-23)

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	07/31/2025	ND	1.85	92.3	2.00	2.62	
Toluene*	<0.050	0.050	07/31/2025	ND	1.84	91.8	2.00	4.71	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	1.86	92.8	2.00	6.26	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	5.63	93.8	6.00	6.16	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	14						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	07/30/2025	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	07/30/2025	ND	220	110	200	1.55	
DRO >C10-C28*	32.3	10.0	07/30/2025	ND	219	110	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	62.8	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	63.2	% 40.6-15	:3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/28/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 24 @ 3' (H254592-24)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.85	92.3	2.00	2.62	
Toluene*	<0.050	0.050	07/31/2025	ND	1.84	91.8	2.00	4.71	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	1.86	92.8	2.00	6.26	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	5.63	93.8	6.00	6.16	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	07/30/2025	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	220	110	200	1.55	
DRO >C10-C28*	17.3	10.0	07/30/2025	ND	219	110	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	72.9	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	69.6	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE **CHAD HENSLEY** 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/25/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 25 @ 3' (H254592-25)

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	07/31/2025	ND	1.85	92.3	2.00	2.62	
Toluene*	<0.050	0.050	07/31/2025	ND	1.84	91.8	2.00	4.71	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	1.86	92.8	2.00	6.26	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	5.63	93.8	6.00	6.16	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	07/30/2025	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	07/30/2025	ND	220	110	200	1.55	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	219	110	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	72.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	69.0	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

RTFY 8021R

Sampling Date: 07/25/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 26 @ 3' (H254592-26)

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.85	92.3	2.00	2.62	
Toluene*	<0.050	0.050	07/31/2025	ND	1.84	91.8	2.00	4.71	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	1.86	92.8	2.00	6.26	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	5.63	93.8	6.00	6.16	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	07/30/2025	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	07/30/2025	ND	220	110	200	1.55	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	219	110	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	71.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	67.9	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/28/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 27 @ 3' (H254592-27)

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	07/31/2025	ND	1.85	92.3	2.00	2.62	
Toluene*	<0.050	0.050	07/31/2025	ND	1.84	91.8	2.00	4.71	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	1.86	92.8	2.00	6.26	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	5.63	93.8	6.00	6.16	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 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	176	16.0	07/30/2025	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	07/30/2025	ND	220	110	200	1.55	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	219	110	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	73.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	69.4	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/28/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 28 @ 3' (H254592-28)

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	07/31/2025	ND	1.85	92.3	2.00	2.62	
Toluene*	<0.050	0.050	07/31/2025	ND	1.84	91.8	2.00	4.71	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	1.86	92.8	2.00	6.26	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	5.63	93.8	6.00	6.16	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/30/2025	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	07/30/2025	ND	220	110	200	1.55	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	219	110	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	76.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	72.1	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/25/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 29 @ 3' (H254592-29)

BTEX 8021B	mg,	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.85	92.3	2.00	2.62	
Toluene*	<0.050	0.050	07/31/2025	ND	1.84	91.8	2.00	4.71	
Ethylbenzene*	< 0.050	0.050	07/31/2025	ND	1.86	92.8	2.00	6.26	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	5.63	93.8	6.00	6.16	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/30/2025	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	220	110	200	1.55	
DRO >C10-C28*	84.0	10.0	07/30/2025	ND	219	110	200	1.35	
EXT DRO >C28-C36	12.8	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	73.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	73.7	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/25/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 30 @ 3' (H254592-30)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.85	92.3	2.00	2.62	
Toluene*	<0.050	0.050	07/31/2025	ND	1.84	91.8	2.00	4.71	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	1.86	92.8	2.00	6.26	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	5.63	93.8	6.00	6.16	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	07/30/2025	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	220	110	200	1.55	
DRO >C10-C28*	89.6	10.0	07/30/2025	ND	219	110	200	1.35	
EXT DRO >C28-C36	15.4	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	77.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	78.2	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/28/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 31 @ 4' (H254592-31)

BTEX 8021B	mg/	kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.85	92.3	2.00	2.62	
Toluene*	<0.050	0.050	07/31/2025	ND	1.84	91.8	2.00	4.71	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	1.86	92.8	2.00	6.26	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	5.63	93.8	6.00	6.16	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 5	% 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	160	16.0	07/30/2025	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	07/30/2025	ND	220	110	200	1.55	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	219	110	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	75.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	72.5	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/28/2025

Sampling Type: Soil

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

Sample ID: WS 25 - 01 @ 0-4' (H254592-32)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.85	92.3	2.00	2.62	
Toluene*	<0.050	0.050	07/31/2025	ND	1.84	91.8	2.00	4.71	
Ethylbenzene*	< 0.050	0.050	07/31/2025	ND	1.86	92.8	2.00	6.26	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	5.63	93.8	6.00	6.16	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	07/30/2025	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	220	110	200	1.55	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	219	110	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	75.5	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	70.9	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/28/2025

Sampling Type: Soil

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

Sample ID: WS 25 - 02 @ 0-4' (H254592-33)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.85	92.3	2.00	2.62	
Toluene*	<0.050	0.050	07/31/2025	ND	1.84	91.8	2.00	4.71	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	1.86	92.8	2.00	6.26	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	5.63	93.8	6.00	6.16	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	07/30/2025	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	198	99.2	200	1.70	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	190	94.9	200	0.547	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	84.2	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	83.5	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/28/2025

Sampling Type: Soil

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

Sample ID: WS 25 - 03 @ 0-4' (H254592-34)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.85	92.3	2.00	2.62	
Toluene*	<0.050	0.050	07/31/2025	ND	1.84	91.8	2.00	4.71	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	1.86	92.8	2.00	6.26	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	5.63	93.8	6.00	6.16	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/30/2025	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	07/30/2025	ND	198	99.2	200	1.70	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	190	94.9	200	0.547	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	79.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	77.3	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/28/2025

Sampling Type: Soil

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

Sample ID: WS 25 - 04 @ 0-4' (H254592-35)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.85	92.3	2.00	2.62	
Toluene*	<0.050	0.050	07/31/2025	ND	1.84	91.8	2.00	4.71	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	1.86	92.8	2.00	6.26	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	5.63	93.8	6.00	6.16	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/30/2025	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	07/30/2025	ND	198	99.2	200	1.70	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	190	94.9	200	0.547	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	80.9	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	80.3	% 40.6-15	3						

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Celey D. Keine



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/28/2025

Sampling Type: Soil

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

Sample ID: WS 25 - 05 @ 0-4' (H254592-36)

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	07/31/2025	ND	1.85	92.3	2.00	2.62	
Toluene*	<0.050	0.050	07/31/2025	ND	1.84	91.8	2.00	4.71	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	1.86	92.8	2.00	6.26	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	5.63	93.8	6.00	6.16	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/30/2025	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	07/30/2025	ND	198	99.2	200	1.70	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	190	94.9	200	0.547	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	84.8	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	84.0	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/28/2025

Sampling Type: Soil

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

Sample ID: WS 25 - 06 @ 0-4' (H254592-37)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.85	92.3	2.00	2.62	
Toluene*	<0.050	0.050	07/31/2025	ND	1.84	91.8	2.00	4.71	
Ethylbenzene*	< 0.050	0.050	07/31/2025	ND	1.86	92.8	2.00	6.26	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	5.63	93.8	6.00	6.16	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/30/2025	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	198	99.2	200	1.70	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	190	94.9	200	0.547	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	81.5	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	79.3	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

RTFY 8021R

Sampling Date: 07/28/2025

Sampling Type: Soil

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

Sample ID: WS 25 - 07 @ 0-4' (H254592-38)

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	07/31/2025	ND	1.85	92.3	2.00	2.62	
<0.050	0.050	07/31/2025	ND	1.84	91.8	2.00	4.71	
<0.050	0.050	07/31/2025	ND	1.86	92.8	2.00	6.26	
<0.150	0.150	07/31/2025	ND	5.63	93.8	6.00	6.16	
<0.300	0.300	07/31/2025	ND					
101 9	% 71.5-13	4						
mg/	'kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
144	16.0	07/30/2025	ND	448	112	400	3.64	
mg/	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	07/30/2025	ND	198	99.2	200	1.70	
<10.0	10.0	07/30/2025	ND	190	94.9	200	0.547	
<10.0	10.0	07/30/2025	ND					
83.1	% 44.4-14	5						
82.4	% 40.6-15	3						
	<0.050 <0.050 <0.050 <0.150 <0.300 101 9 mg/ Result 144 mg/ Result <10.0 <10.0 <83.1	<0.050 <0.050 <0.050 <0.050 <0.050 <0.150 <0.300 0.300 To 1.5-13 mg/kg Result Reporting Limit 16.0 mg/kg Result Reporting Limit 16.0 10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <44.4-14	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Applyzod By: 14

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/28/2025

Sampling Type: Soil

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

Sample ID: WS 25 - 08 @ 0-5' (H254592-39)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.85	92.3	2.00	2.62	
Toluene*	<0.050	0.050	07/31/2025	ND	1.84	91.8	2.00	4.71	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	1.86	92.8	2.00	6.26	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	5.63	93.8	6.00	6.16	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	07/30/2025	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	198	99.2	200	1.70	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	190	94.9	200	0.547	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	81.5	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	78.2	% 40.6-15	3						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/29/2025 Reported: 08/04/2025

Project Name: BEU DI 9 BATTERY Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/28/2025

Sampling Type: Soil

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

Sample ID: WS 25 - 09 @ 0-5' (H254592-40)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.85	92.5	2.00	2.76	
Toluene*	<0.050	0.050	07/31/2025	ND	1.88	93.8	2.00	1.49	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	1.89	94.5	2.00	1.41	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	5.71	95.1	6.00	1.89	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/30/2025	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	07/30/2025	ND	198	99.2	200	1.70	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	190	94.9	200	0.547	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	81.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	81.0	% 40.6-15	3						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Manager Vertex Resource	BILL TO	ANALYSIS REQUEST
The state of the s	P.O. #: 1080871001	
Address 301 Boyd drive	Company: Exxon Mobil	
Address: 3101 Boyd drive City: Carlsbad State. NMZip: 88220 Phone #: 575-220-611-5-11	Attn: Ashley MeaFee	
1 10 10 10 10 10 10 10 10 10 10 10 10 10	Address: 3104 E Green St	
Project #: 25A-03553 Project Owner	City: Caclsbad	
Project #: 25A-03553 Project Owner: Project Name: BEU DI 9 Battery	State: NM Zip: 88220	
Project Location:	Phone #:	
Sampler Name: Riley Assold	Fax #:	
ASP_AB .SE SML1 MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	ACTURE ASSET TIME X 7.25.25 9:00 X X X 9:15	Cariona

8525 - 10 EASE VOTE: Leadilly and Clarinages. Cardinal's (spoilly and shert's makes to taggence and am obsercade in the control of the contr	ascissore remains for any Jaam straing whether stakes in contract or and a strainborner shall be defined to be displayed in the scale.	it all be limited to the amount and to the steer for the	
Many June	Space: Received By: 7-29.25 Received By: 1415 Autor Auto	Verbal Result: Yes Name All Results are emailed. Pleasa	io Add'I Phone #: provide Email address: **COM
Delivered By. (Circle One)	Sample Condition	CHECKED BY Turnaround Time: Standa	VestexTesource.com
	Tardinal cannot accent verbal changes	Thermometer D = 13 #140 .3 . Please email changes to celey keene@cardinal	Cool Intact Observed Tamp /C



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Vestex Resource		BILL TO		ANALYSIS REQUEST	
I An a of Land		P.O. #: 1080871001			
Address: SIOI BOUR ASIVE		Company: Exxon Mobil			1 1
State: //	Mzip: 88220	Attn: Ashley Meatee			
Phone # 575 - 200 - Gl 67 Fax #		Address: 3104 E Greene St			
Project #: 254-03553 Project Own	ner	City: Carlsbad			
Project #: 254-03553 Project Own Project Name: BEU DI 9 Battery		State: NM Zip: 88220			
roject Location:		Phone #:			
ampler Name: Riley Amold		Fax #:			
AND LAB LAB THU	MATRIX	PRESERV. SAMPLING			
	S ×		3		
Lab I.D. Sample I.D.	VATI CLR		X + 12		
Sample I.D.	II AII IN IV	2 NASE	7 2 5		
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13 8525-17 2 5'	1111	× 7.25.25 11:00)	XX		
13 BS25 - 13 D 5'		1 11:10			
14 BS25 - 14 D 5'		11:19			
15 8525 - 15 2 4'		11:36			++
16 8525 - 16 2 4.		11:36			-
17 B525 - 17 20 4'		11:59			+
18 8525 - 12 2 5' 13 8525 - 13 2 5' 14 8525 - 14 2 5' 15 8525 - 16 2 4' 16 8525 - 16 2 4' 17 8525 - 17 2 4' 18 8525 - 18 2 4' 19 8525 - 19 2 4'		7.28.25 12:07			+
1 00 1		7.28.25 12:20			+
20 BS25 - 20 D 4'		7.00			

Relinquisted By: Relinquisted By:	Date: Receive	ed By: AMACA L ed By:	Alds S.	Werbal Result: Yes No Add'l Phone #: All Results are emailed. Pleasa provide Email address: Chensley Dament. Com REMARKS. Rainold Westex Tesource. Com
Delivered By: (Circle One)	Jan 10 2.6	Sample Condition	CHECKED BY	Turnaround Time: Standard Macteria (only) Sample Condition
Sampler - UPS - Bus - Other	Commence Then 10 2.9	Tes Yes	(Initials)	Thermometer D 11 #140 Corrected Temp. C

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Manager Vertex Resource	BILL TO	ANALYSIS REQUEST
Model Manager / March Lough	P.O. #: 1080871001	
Address DOI DOUR CLIVE	Company Fru Malail	
State: ///92ip: 88777	Attn: Ashley Mcafee	
Phone #: 575-200-6167 Fax #:	Address: 3104 E Green St	
Project #: 754-03553 Project Owner	city:CaclSbad	
Project Name: BEU DI 9 Battery	State: NM Zip: 88220	
Project Location:	Phone #:	
Sampler Name: Riley Arnold	Fax #:	
* 12 JR JR JR JNL / MATRI	X PRESERV SAMPLING	
, And A		2H Moride
Lab I.D. Sample I.D.	4	ا ا ا ا ا ا
Lab I.D. Sample I.D.	1 8 D	74.3
Has4597	LE C BER	123
700 TO 10 R62 - 21 2 11' 8 5 8 5	S 5 9 5 5 DATE TIME	
22 8525 - 22 2 21	X 7.25.25 12:42 X	XX
23 2675 - 77 0 3'	7.28.25 12:45	
24 8626 - 24 2 2'	7.28.25 12:56	
as 8575 - 25 2 2'	7.28.251:15	
36 8525 - 26 2 3	7.25.25 12:52	
27 R525- 27 D 3'	7.25.25 12:59	
28 3525-28 2 3	7.28.25 1:30	
29 BS25 - 29 D 3'	7.26.25 1:26	
#354543 #31 \$525 - 21 \(\text{D} \) 4' \(\text{C} \) \(\text{I} \) \(\text{X} \) #33 \$525 - 23 \(\text{D} \) 3' \(\text{D} \) \(\text{B} \) \$525 - 24 \(\text{D} \) 3' \(\text{D} \) \$6 \$525 - 25 \(\text{D} \) 3' \(\text{D} \) \$6 \$525 - 26 \(\text{D} \) 3' \(\text{D} \) \$6 \$525 - 29 \(\text{D} \) 3' \(\text{D} \)	7.25.25 1:35	
LEASE VOTE: Lessify and Dayrages Cardinary lessify and plant's evolution remely for any plant arising whether trade in per	man's ar tark shall be limited to the smooth black his the	

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prices remarks a larger equipment of the larger terms of the large	By:	22 24 of after companies of the protection of the companies of salest reasons of salest reasons of the companies of salest reasons of the companies of the comp	
Time 4150	vuora Molat	All Results are emailed. Please of	Add'l Phone ≄: rovide Email address:
Date: Received	By:	REMARKS: Rainolda	VestexTesource.com
1 me:	Sample Condition CHECKED		
3.9		Thermometer D #1 #140	d
	Time: 3.4	Time: Sample Condition CHECKED Cool intact Initials Pres Yes No No No	Date: Received By: Verbal Result: 1 Yas 1 No All Results are emailed. Pleasa of Chensley all results are emailed. Pleasa of Chensley all results are emailed. Pleasa of Chensley all results. Received By: Time: Received By: Time: Standard Cool March (Initialia)

Page 46 of 46

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Managor:	estex Resource				ILL TO		ANALYSIS	REQUEST
Address 71-1	had Hensley Boyd drive			P.O. #: 10	80871001			
Address: 3101	Soyd drive			Company: E	xxonMobil			
- VIIII	o-	YZip:	88220	Attn: Ashle	4 Mcatee			
Prione #: 5/5-	200-6167 Fax #:			Address: 31	04 E Green St			
Project #: 25A-	03553 Project Owne	er		City: Cacle				
Project Name: 05	U DI 9 Battery			State: NM	Zip: 88220			
Project Location:				Phone #:				
Sampler Name: R	ley Arnold			Fax #:			1 1 1 1	
TOTAL USE SML			MATRIX	PRESERV.	SAMPLING		J	
4254592	Sample I.D.	G)RAB UR (C)ON	JEGATINITAVA TER VASTE VVA (E18 GOIL) AL	ADDIBASE A COOOM	DATE TIME	BTEX TPH		
31 85	25-31 D4'	101	X	X	7.28.25 1:52	VVV		
33 WS	25-01 D D-W	111	i	i	1 2:00	7 7 7		
30 63	115-01 () 0-111					1111		
34 WS	125-0320-4				2:10	1111		
35 W	525-0420-4	111			2:30			
32 65	25-0520-4	Ш			2:39			
38 45	25-06 20 0-4	Ш			2:39			
39 65	15-07 20 0-4	+			3:00			
40 145	25-0320-4' 525-0420-4' 25-0520-4' 25-0620-4' 25-0820-4' 25-0820-5' 25-0820-5'	HI			3:10			
LASE NOTE, Labelly and Damage	23 - 07 & 0 - 5	1 1			3:18			

promotes all plants; including those for negligence, and any other model effective trial be sometimened entered model, in every or on, shall be amount and by the stens for the software trial be sometimened entered entered entered entered entered entered to be seen and Carolina within the sometimened entered entered to the software trial plants and control or other entered entered

Why fund	Date: Received Time: 415	samata a	aldaffer	Verbal Result: Yes No Add'! Phone #: All Results are emailed. Please provide Email address:	
	Time:	rad by.		REMARKS Rarnold WestexTesource	:. com
Delivered By: Circle One	Deriver Ties 12 26	Sample Condition	CHECKED BY	Turnaround Time: Standard M Bastoria Lab. Co.	
Sampler - UPS - Bus - Other:	3.4	Cool Mact	(Initials)	Pueh Dacteria (prily) San	nple Condition oserved Temp, "C



August 06, 2025

CHAD HENSLEY

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: BEU DI 9 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/31/25 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/31/2025 Reported: 08/06/2025

Project Name: BEU DI 9 BATTERY

Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/29/2025

Sampling Type: Soil

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

Sample ID: WS25 - 11 @ 0-4' (H254663-01)

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	08/04/2025	ND	1.75	87.5	2.00	3.03	
Toluene*	<0.050	0.050	08/04/2025	ND	1.81	90.6	2.00	2.16	
Ethylbenzene*	<0.050	0.050	08/04/2025	ND	1.84	92.2	2.00	0.797	
Total Xylenes*	<0.150	0.150	08/04/2025	ND	5.63	93.8	6.00	0.589	
Total BTEX	<0.300	0.300	08/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/04/2025	ND	480	120	400	0.00	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2025	ND	186	92.9	200	5.93	
DRO >C10-C28*	<10.0	10.0	08/04/2025	ND	204	102	200	7.38	
EXT DRO >C28-C36	<10.0	10.0	08/04/2025	ND					
Surrogate: 1-Chlorooctane	90.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	92.8	% 40.6-15	3						

A I J 711

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/31/2025 Reported: 08/06/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/29/2025

Sampling Type: Soil

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

Sample ID: WS25 - 12 @ 0-4' (H254663-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2025	ND	1.75	87.5	2.00	3.03	
Toluene*	<0.050	0.050	08/04/2025	ND	1.81	90.6	2.00	2.16	
Ethylbenzene*	<0.050	0.050	08/04/2025	ND	1.84	92.2	2.00	0.797	
Total Xylenes*	<0.150	0.150	08/04/2025	ND	5.63	93.8	6.00	0.589	
Total BTEX	<0.300	0.300	08/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	352	16.0	08/04/2025	ND	480	120	400	0.00	
TPH 8015M	mg	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2025	ND	203	102	200	0.541	
DRO >C10-C28*	30.6	10.0	08/04/2025	ND	199	99.4	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	08/04/2025	ND					
Surrogate: 1-Chlorooctane	81.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	83.0	% 40.6-15	3						

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Celey D. Kreine



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/31/2025 Reported: 08/06/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

RTFY 8021R

Sampling Date: 07/29/2025

Sampling Type: Soil

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

Sample ID: WS25 - 13 @ 0-4' (H254663-03)

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2025	ND	1.75	87.5	2.00	3.03	
Toluene*	<0.050	0.050	08/04/2025	ND	1.81	90.6	2.00	2.16	
Ethylbenzene*	<0.050	0.050	08/04/2025	ND	1.84	92.2	2.00	0.797	
Total Xylenes*	<0.150	0.150	08/04/2025	ND	5.63	93.8	6.00	0.589	
Total BTEX	<0.300	0.300	08/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	08/04/2025	ND	480	120	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	08/04/2025	ND	203	102	200	0.541	
DRO >C10-C28*	23.5	10.0	08/04/2025	ND	199	99.4	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	08/04/2025	ND					
Surrogate: 1-Chlorooctane	88.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	86.7	% 40.6-15	3						

Applyzod By: 14

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/31/2025 Reported: 08/06/2025

Project Name: BEU DI 9 BATTERY

Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/29/2025

Sampling Type: Soil

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

Sample ID: WS25 - 14 @ 0-4' (H254663-04)

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	08/04/2025	ND	1.75	87.5	2.00	3.03	
Toluene*	<0.050	0.050	08/04/2025	ND	1.81	90.6	2.00	2.16	
Ethylbenzene*	<0.050	0.050	08/04/2025	ND	1.84	92.2	2.00	0.797	
Total Xylenes*	<0.150	0.150	08/04/2025	ND	5.63	93.8	6.00	0.589	
Total BTEX	<0.300	0.300	08/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/04/2025	ND	480	120	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	08/04/2025	ND	203	102	200	0.541	
DRO >C10-C28*	<10.0	10.0	08/04/2025	ND	199	99.4	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	08/04/2025	ND					
Surrogate: 1-Chlorooctane	83.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	81.4	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/31/2025 Reported: 08/06/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/29/2025

Sampling Type: Soil

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

Sample ID: WS25 - 15 @ 0-4' (H254663-05)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2025	ND	1.75	87.5	2.00	3.03	
Toluene*	<0.050	0.050	08/04/2025	ND	1.81	90.6	2.00	2.16	
Ethylbenzene*	<0.050	0.050	08/04/2025	ND	1.84	92.2	2.00	0.797	
Total Xylenes*	<0.150	0.150	08/04/2025	ND	5.63	93.8	6.00	0.589	
Total BTEX	<0.300	0.300	08/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/04/2025	ND	480	120	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2025	ND	203	102	200	0.541	
DRO >C10-C28*	79.5	10.0	08/04/2025	ND	199	99.4	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	08/04/2025	ND					
Surrogate: 1-Chlorooctane	88.3	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	88.8	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/31/2025 Reported: 08/06/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/29/2025

Sampling Type: Soil

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

Sample ID: WS25 - 16 @ 0-4' (H254663-06)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2025	ND	1.75	87.5	2.00	3.03	
Toluene*	<0.050	0.050	08/04/2025	ND	1.81	90.6	2.00	2.16	
Ethylbenzene*	<0.050	0.050	08/04/2025	ND	1.84	92.2	2.00	0.797	
Total Xylenes*	<0.150	0.150	08/04/2025	ND	5.63	93.8	6.00	0.589	
Total BTEX	<0.300	0.300	08/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/04/2025	ND	480	120	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2025	ND	203	102	200	0.541	
DRO >C10-C28*	<10.0	10.0	08/04/2025	ND	199	99.4	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	08/04/2025	ND					
Surrogate: 1-Chlorooctane	87.0	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	83.8	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/31/2025 Reported: 08/06/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/29/2025

Sampling Type: Soil

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

Sample ID: WS25 - 17 @ 0-3' (H254663-07)

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	08/04/2025	ND	1.75	87.5	2.00	3.03	
Toluene*	<0.050	0.050	08/04/2025	ND	1.81	90.6	2.00	2.16	
Ethylbenzene*	<0.050	0.050	08/04/2025	ND	1.84	92.2	2.00	0.797	
Total Xylenes*	<0.150	0.150	08/04/2025	ND	5.63	93.8	6.00	0.589	
Total BTEX	<0.300	0.300	08/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	08/04/2025	ND	480	120	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	08/04/2025	ND	203	102	200	0.541	
DRO >C10-C28*	71.3	10.0	08/04/2025	ND	199	99.4	200	2.48	
EXT DRO >C28-C36	12.1	10.0	08/04/2025	ND					
Surrogate: 1-Chlorooctane	81.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	80.9	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/31/2025 Reported: 08/06/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/29/2025

Sampling Type: Soil

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

Sample ID: WS25 - 18 @ 0-3' (H254663-08)

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	08/04/2025	ND	1.75	87.5	2.00	3.03	
Toluene*	<0.050	0.050	08/04/2025	ND	1.81	90.6	2.00	2.16	
Ethylbenzene*	<0.050	0.050	08/04/2025	ND	1.84	92.2	2.00	0.797	
Total Xylenes*	<0.150	0.150	08/04/2025	ND	5.63	93.8	6.00	0.589	
Total BTEX	<0.300	0.300	08/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	08/04/2025	ND	480	120	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	08/04/2025	ND	203	102	200	0.541	
DRO >C10-C28*	86.7	10.0	08/04/2025	ND	199	99.4	200	2.48	
EXT DRO >C28-C36	16.6	10.0	08/04/2025	ND					
Surrogate: 1-Chlorooctane	87.7	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	88.5	% 40.6-15	3						

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Celey D. Keine



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/31/2025 Reported: 08/06/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/29/2025

Sampling Type: Soil

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

Sample ID: WS25 - 19 @ 0-3' (H254663-09)

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	08/04/2025	ND	1.75	87.5	2.00	3.03	
Toluene*	<0.050	0.050	08/04/2025	ND	1.81	90.6	2.00	2.16	
Ethylbenzene*	<0.050	0.050	08/04/2025	ND	1.84	92.2	2.00	0.797	
Total Xylenes*	<0.150	0.150	08/04/2025	ND	5.63	93.8	6.00	0.589	
Total BTEX	<0.300	0.300	08/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/04/2025	ND	480	120	400	3.39	
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	08/04/2025	ND	203	102	200	0.541	
DRO >C10-C28*	76.7	10.0	08/04/2025	ND	199	99.4	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	08/04/2025	ND					
Surrogate: 1-Chlorooctane	75.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	74.2	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/31/2025 Reported: 08/06/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/29/2025

Sampling Type: Soil

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

Sample ID: WS25 - 20 @ 0-3' (H254663-10)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2025	ND	1.75	87.5	2.00	3.03	
Toluene*	<0.050	0.050	08/04/2025	ND	1.81	90.6	2.00	2.16	
Ethylbenzene*	<0.050	0.050	08/04/2025	ND	1.84	92.2	2.00	0.797	
Total Xylenes*	<0.150	0.150	08/04/2025	ND	5.63	93.8	6.00	0.589	
Total BTEX	<0.300	0.300	08/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/04/2025	ND	480	120	400	3.39	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2025	ND	203	102	200	0.541	
DRO >C10-C28*	73.6	10.0	08/04/2025	ND	199	99.4	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	08/04/2025	ND					
Surrogate: 1-Chlorooctane	88.5	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	86.6	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/31/2025 Reported: 08/06/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 07/29/2025

Sampling Type: Soil

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

Sample ID: WS25 - 10 @ 0-5' (H254663-11)

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	08/04/2025	ND	1.75	87.5	2.00	3.03	
Toluene*	<0.050	0.050	08/04/2025	ND	1.81	90.6	2.00	2.16	
Ethylbenzene*	< 0.050	0.050	08/04/2025	ND	1.84	92.2	2.00	0.797	
Total Xylenes*	<0.150	0.150	08/04/2025	ND	5.63	93.8	6.00	0.589	
Total BTEX	<0.300	0.300	08/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-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	08/04/2025	ND	480	120	400	3.39	
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	08/04/2025	ND	203	102	200	0.541	
DRO >C10-C28*	<10.0	10.0	08/04/2025	ND	199	99.4	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	08/04/2025	ND					
Surrogate: 1-Chlorooctane	87.8	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	85.4	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/31/2025 Reported: 08/06/2025

Project Name: BEU DI 9 BATTERY

Project Number: 25A-03553

Project Location: XTO

BTEX 8021B

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

Sampling Date: 07/29/2025

Sampling Type: Soil

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

Sample ID: SAND BACKFILL (H254663-12)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2025	ND	1.75	87.5	2.00	3.03	
Toluene*	<0.050	0.050	08/04/2025	ND	1.81	90.6	2.00	2.16	
Ethylbenzene*	<0.050	0.050	08/04/2025	ND	1.84	92.2	2.00	0.797	
Total Xylenes*	<0.150	0.150	08/04/2025	ND	5.63	93.8	6.00	0.589	
Total BTEX	<0.300	0.300	08/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Chloride, SM4500Cl-B Analyte	mg/ Result	Reporting Limit	Analyze	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
			<u> </u>		BS 480	% Recovery	True Value QC 400	RPD 3.39	Qualifier
Analyte	Result	Reporting Limit	Analyzed 08/04/2025	Method Blank			·		Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 08/04/2025	Method Blank			·		Qualifier Qualifier
Analyte Chloride TPH 8015M	Result 16.0 mg/	Reporting Limit 16.0	Analyzed 08/04/2025 Analyze	Method Blank ND d By: MS	480	120	400	3.39	
Analyte Chloride TPH 8015M Analyte	Result 16.0 mg/	Reporting Limit 16.0 Kkg Reporting Limit	Analyzed 08/04/2025 Analyze	Method Blank ND d By: MS Method Blank	480 BS	120 % Recovery	400 True Value QC	3.39 RPD	

Analyzed By: JH

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

92.1 %

90.8 %

44.4-145

40.6-153



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/31/2025 Reported: 08/06/2025

Project Name: BEU DI 9 BATTERY Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/29/2025

Sampling Type: Soil

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

Sample ID: CALICHE BACKFILL (H254663-13)

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	08/04/2025	ND	1.75	87.5	2.00	3.03	
Toluene*	<0.050	0.050	08/04/2025	ND	1.81	90.6	2.00	2.16	
Ethylbenzene*	<0.050	0.050	08/04/2025	ND	1.84	92.2	2.00	0.797	
Total Xylenes*	<0.150	0.150	08/04/2025	ND	5.63	93.8	6.00	0.589	
Total BTEX	<0.300	0.300	08/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/04/2025	ND	480	120	400	3.39	
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	08/04/2025	ND	203	102	200	0.541	
DRO >C10-C28*	<10.0	10.0	08/04/2025	ND	199	99.4	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	08/04/2025	ND					
Surrogate: 1-Chlorooctane	67.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	63.8	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 07/31/2025 Reported: 08/06/2025

Project Name: BEU DI 9 BATTERY Project Number: 25A-03553

Project Location: XTO Sampling Date: 07/29/2025

Sampling Type: Soil

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

Sample ID: WS25 - 21 @ 0-3' (H254663-14)

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	08/05/2025	ND	1.83	91.5	2.00	3.99	
Toluene*	<0.050	0.050	08/05/2025	ND	1.87	93.5	2.00	0.0603	
Ethylbenzene*	<0.050	0.050	08/05/2025	ND	1.90	94.9	2.00	1.81	
Total Xylenes*	<0.150	0.150	08/05/2025	ND	5.84	97.4	6.00	2.10	
Total BTEX	<0.300	0.300	08/05/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/04/2025	ND	480	120	400	3.39	
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	08/04/2025	ND	203	102	200	0.541	
DRO >C10-C28*	<10.0	10.0	08/04/2025	ND	199	99.4	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	08/04/2025	ND					
Surrogate: 1-Chlorooctane	83.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	82.6	% 40.6-15	3						

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Vestex Resource	BILL TO ANALYSIS REQUEST	
Project Manageri Chad Hensley Address: 3101 Boyd drive	P.O. #: 1080871001	
Address S101 Boyd drive	Company: Exxontobil	
State: 1//42ip: 427	O Attn: Ashley Meatee	
Phone #: 575-200-G167 Fax #:	Address: 3104 E Greene St	
Project #: 254-03553 Project Owner:	city:CaclSbad	
Project Name: BEU DI 9 Battery	State: NM Zip: 88220	
Project Location:	Phone #:	
Sampler Name: Riley Arnold	Fax #:	
TOP DAILSE SHOT	TRIX PRESERV. SAMPLING	
Lab I.D. Sample I.D. #254663 US25-11 @ 0-4'	Name	
10 WS25 - 20 D O - 3'	1:56	

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Relings fed By: // / / / / / / / / / / / / / / / / /	Pate: 7:31-25 Received by: Time: 340 Cate: Received By: Verbal Result: All Results are Chen's II Time: Received By: REMARKS: R	Tyes Tho Add't Phone #: emailed. Pleasa provide Email address: eyarant. Com arnold WestexTesource. Com
Delivered By: (Circle One)	Daxania Tama 12 3,2 Sample Condition CHECKED BY: Turnaround Tim	e: Standard Sacteria (only) Sample Condition
Sampler - UPS - Bus - Other	Corrector Type 7 3.5 Cool intact Initials Thermometer D	Cool Intact Disserved Temp. C



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Address: 3101 Boyd drive Company: Exxon/10bil City: Carlsbad State: N/Mzip: 88220 Attn: Ashley Measee Phone #: 575-200-G167 Fax #: Address: 3104 E Greek \$4 Project #: 25A-03553 Project Owner: City: Carlsbad Project Name: BEU DI 9 Battery Project Location: Sampler Name: Riley Arrold Fax #: TAR JAR JAR JAR JAR JAR JAR JAR JAR JAR J				e: 1/01 01 0 -1	Company Nam			
City: Carlsbad State: NMzip: 88220 Attn: Ashley McaFee Phone #: 575-200-G167 Fax #: Address: 3104 E Greek St Project #: 25A-03553 Project Owner: City: Carlsbad Project Name: BEU DI 9 Battery Project Location: Sampler Name: Riley Arrold Fax #: Fig. 28 28 200. WATRIX PRESERV. SAMPLING WATRIX PRESERV. SAMPLING WATRIX PRESERV. SAMPLING WATRIX PRESERV. SAMPLING	BILL TO ANALYSIS REQUEST		oject Manager: / / Resource					
City: Carlsbad State: NMzip: 88220 Attn: Akhley McaFee Phone #: 575-200-G167 Fax #: Address: 3104 E Greek \$4 Project #: 25A-03553 Project Owner: City: Carlsbad Project Name: BEU DI 9 Battery Project Location: Sampler Name: Riley Arnold Fax #: *3P 24 20 20 20 1	P.O. #: 1080871001	P.O. #: 108	ley	chad Hensley	Addrson 71			
Phone #: 575-200-G167 Fax #: Project #: 25A-03553 Project Owner: Project Name: BEU DI 9 Battery Project Location: Sampler Name: Riley Arrold Lab I.D. Sample I.D. State: N/9/Zip: 88220 Phone #: Fax #: Fig. 24 Jac 2001 MATRIX PRESERV. SAMPLING WATRIX PRESERV. SAMPLING WATRIX PRESERV. SAMPLING	Company: Exxon Mobil	Company: Ex	0	UI DOUR MUSIUM	() (
Address: 3104 E Green St City: Carls bad Project Name: BEU DI 9 Battery Project Location: Sampler Name: Riley Arnold Fax #: FIR DA JOS DILL Sample I.D. Sample I.D. Sample I.D. Sample I.D. Address: 3104 E Green St City: Carls bad State: N/4 Zip: 88220 Phone #: FAX #: FIR DA JOS DILL AMATRIX PRESERV. SAMPLING AND DILL AMATRIX PRESERV. SAMPLING AND DILL AMATRIX PRESERV. SAMPLING AMATRIX PRESERV. SAMPLING	Attn: Ashley Meafee	8220 Attn: Ashley	State: MZip: 9	bad State:	carls			
Project Name: BEU DI 9 Battery Project Location: Sampler Name: Riley Acrostd Fax #: Sample I.D. Sa	Address: 3104 E Green St	Address: 3104	3x #:	5-200-G167 Fax #:	hone #: 5 7			
Ampler Name: Riley Arrold Fax #: Sampler Name: Riley Arrold Fax #: Lab I.D. Sample I.D. WATRIX PRESERV. SAMPLING Lab I.D. Sample I.D. Hill Hill Hill Hill Hill Hill Hill Hil	City: Carls back	city: Cacls be	oject Owner:	A-03553 Project C	roject #: 25			
Ampler Name: Riley Arrold Fax #: Sampler Name: Riley Arrold Fax #: Lab I.D. Sample I.D. WATRIX PRESERV. SAMPLING Lab I.D. Sample I.D. Hill Hill Hill Hill Hill Hill Hill Hil			tery	BEU DI 9 Battery	roject Name:			
Lab I.D. Sample I.			-/	n:	roject Location			
Lab I.D. Sample I.D. Sample I.D. Sampling				Riley Asnold	ampler Name:			
MUNICAL DIRECT NATIONAL OF STATE OF STA					FIR JA JOE DNL!			
13 Caliche Backfill 14 W525-21 20-3' 2:45	X 7.29.25 2:30 X X X 11:30 12:00		HAB C		42401.3			

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Relinquished By:	Date: Received By: Time: Received By: Time:	Verbal Result: Yes No Add'l Phone #: All Results are emailed. Pleasa grovide Email address: Chensley Darant. Com REMARKS: Rainold Diestex Tesource. Con	4
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Sampler - UPS - Bus - Other	Cool mta	Yes No Correction Faces 10 13 140 3c Turnaround Time: Standard Rush Cool Intact Observed T	



August 15, 2025

CHAD HENSLEY

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: BEU DI 9 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/11/25 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

Cardinal Laboratories is 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)

Celey D. Keine

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. Keene

Lab Director/Quality Manager



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/11/2025 Reported: 08/15/2025

Project Name: BEU DI 9 BATTERY

Project Number: 25A-03553

Project Location: XTO

Sampling Date: 08/07/2025

Sampling Type: Soil

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

Sample ID: BS25 - 08 @ 4' (H254915-01)

DTEV 0021D

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	08/12/2025	ND	1.80	89.8	2.00	0.470	
Toluene*	<0.050	0.050	08/12/2025	ND	1.87	93.3	2.00	0.161	
Ethylbenzene*	<0.050	0.050	08/12/2025	ND	1.88	94.0	2.00	0.795	
Total Xylenes*	<0.150	0.150	08/12/2025	ND	5.59	93.1	6.00	0.926	
Total BTEX	<0.300	0.300	08/12/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.2	% 71.5-13	4						
Chloride, SM4500CI-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	08/12/2025	ND	416	104	400	14.3	
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	08/12/2025	ND	205	103	200	2.76	
DRO >C10-C28*	<10.0	10.0	08/12/2025	ND	189	94.6	200	0.428	
EXT DRO >C28-C36	<10.0	10.0	08/12/2025	ND					
Surrogate: 1-Chlorooctane	97.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	92.4	% 40.6-15	3						

Applyand By 14

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Celey & Keene



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/11/2025 Reported: 08/15/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 08/07/2025

Sampling Type: Soil

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

Sample ID: BS25 - 11 @ 5' (H254915-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/12/2025	ND	1.80	89.8	2.00	0.470	
Toluene*	<0.050	0.050	08/12/2025	ND	1.87	93.3	2.00	0.161	
Ethylbenzene*	<0.050	0.050	08/12/2025	ND	1.88	94.0	2.00	0.795	
Total Xylenes*	<0.150	0.150	08/12/2025	ND	5.59	93.1	6.00	0.926	
Total BTEX	<0.300	0.300	08/12/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.8	% 71.5-13	4						
Chloride, SM4500CI-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	08/12/2025	ND	416	104	400	14.3	
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	08/12/2025	ND	205	103	200	2.76	
DRO >C10-C28*	14.9	10.0	08/12/2025	ND	189	94.6	200	0.428	
EXT DRO >C28-C36	<10.0	10.0	08/12/2025	ND					
Surrogate: 1-Chlorooctane	93.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	86.4	% 40.6-15	3						

Applyzod By: 14

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Celey D. Keine



08/07/2025

Soil

Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/11/2025 Sampling Date:
Reported: 08/15/2025 Sampling Type:

mg/kg

Project Name: BEU DI 9 BATTERY Sampling Condition: Cool & Intact
Project Number: 25A-03553 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO

Sample ID: BS25 - 17 @ 4' (H254915-03)

BTEX 8021B

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/12/2025	ND	1.80	89.8	2.00	0.470	
Toluene*	<0.050	0.050	08/12/2025	ND	1.87	93.3	2.00	0.161	
Ethylbenzene*	<0.050	0.050	08/12/2025	ND	1.88	94.0	2.00	0.795	
Total Xylenes*	<0.150	0.150	08/12/2025	ND	5.59	93.1	6.00	0.926	
Total BTEX	<0.300	0.300	08/12/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/12/2025	ND	416	104	400	14.3	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2025	ND	205	103	200	2.76	
DRO >C10-C28*	<10.0	10.0	08/12/2025	ND	189	94.6	200	0.428	
EXT DRO >C28-C36	<10.0	10.0	08/12/2025	ND					
Surrogate: 1-Chlorooctane	97.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	93.5	% 40.6-15	3						

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08/07/2025

Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/11/2025

Reported: 08/15/2025 Sampling Type: Soil Project Name: BEU DI 9 BATTERY Sampling Condition:

Cool & Intact Sample Received By: Project Number: 25A-03553 Tamara Oldaker

Sampling Date:

Project Location: XTO

Sample ID: BS25 - 18 @ 4' (H254915-04)

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	08/12/2025	ND	1.80	89.8	2.00	0.470	
Toluene*	<0.050	0.050	08/12/2025	ND	1.87	93.3	2.00	0.161	
Ethylbenzene*	<0.050	0.050	08/12/2025	ND	1.88	94.0	2.00	0.795	
Total Xylenes*	<0.150	0.150	08/12/2025	ND	5.59	93.1	6.00	0.926	
Total BTEX	<0.300	0.300	08/12/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.1	% 71.5-13	4						
Chloride, SM4500CI-B	hloride, SM4500Cl-B mg/kg			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/12/2025	ND	416	104	400	14.3	
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	08/12/2025	ND	205	103	200	2.76	
DRO >C10-C28*	19.2	10.0	08/12/2025	ND	189	94.6	200	0.428	
EXT DRO >C28-C36	<10.0	10.0	08/12/2025	ND					
Surrogate: 1-Chlorooctane	97.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	91.9	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/11/2025 Reported: 08/15/2025

Project Name: BEU DI 9 BATTERY

Project Number: 25A-03553 Project Location: XTO Sampling Date: 08/07/2025

Sampling Type: Soil

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

Sample ID: BS25 - 19 @ 4' (H254915-05)

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	08/12/2025	ND	1.80	89.8	2.00	0.470	
Toluene*	<0.050	0.050	08/12/2025	ND	1.87	93.3	2.00	0.161	
Ethylbenzene*	<0.050	0.050	08/12/2025	ND	1.88	94.0	2.00	0.795	
Total Xylenes*	<0.150	0.150	08/12/2025	ND	5.59	93.1	6.00	0.926	
Total BTEX	<0.300	0.300	08/12/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/12/2025	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2025	ND	205	103	200	2.76	
DRO >C10-C28*	13.6	10.0	08/12/2025	ND	189	94.6	200	0.428	
EXT DRO >C28-C36	<10.0	10.0	08/12/2025	ND					
Surrogate: 1-Chlorooctane	98.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	92.6	% 40.6-15	3						

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Analytical Results For:

VERTEX RESOURCE **CHAD HENSLEY** 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/11/2025 Sampling Date: 08/07/2025

Reported: 08/15/2025 Sampling Type: Soil

Project Name: BEU DI 9 BATTERY Sampling Condition: Cool & Intact Project Number: Sample Received By: 25A-03553 Tamara Oldaker

Project Location: XTO

Sample ID: BS25 - 31 @ 4' (H254915-06)

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	08/12/2025	ND	1.80	89.8	2.00	0.470	
Toluene*	<0.050	0.050	08/12/2025	ND	1.87	93.3	2.00	0.161	
Ethylbenzene*	<0.050	0.050	08/12/2025	ND	1.88	94.0	2.00	0.795	
Total Xylenes*	<0.150	0.150	08/12/2025	ND	5.59	93.1	6.00	0.926	
Total BTEX	<0.300	0.300	08/12/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/12/2025	ND	448	112	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2025	ND	205	103	200	2.76	
DRO >C10-C28*	77.4	10.0	08/12/2025	ND	189	94.6	200	0.428	
EXT DRO >C28-C36	14.6	10.0	08/12/2025	ND					
Surrogate: 1-Chlorooctane	98.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	95.5	% 40.6-15	3						

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Celeg D. Keene



Analytical Results For:

VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/11/2025 Reported: 08/15/2025

Project Name: BEU DI 9 BATTERY
Project Number: 25A-03553

Project Location: XTO

Sampling Date: 08/07/2025

Sampling Type: Soil

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

Sample ID: WS25 - 18 @ 0' - 3' (H254915-07)

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	08/12/2025	ND	1.80	89.8	2.00	0.470	
Toluene*	<0.050	0.050	08/12/2025	ND	1.87	93.3	2.00	0.161	
Ethylbenzene*	<0.050	0.050	08/12/2025	ND	1.88	94.0	2.00	0.795	
Total Xylenes*	<0.150	0.150	08/12/2025	ND	5.59	93.1	6.00	0.926	
Total BTEX	<0.300	0.300	08/12/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/12/2025	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2025	ND	205	103	200	2.76	
DRO >C10-C28*	20.9	10.0	08/12/2025	ND	189	94.6	200	0.428	
EXT DRO >C28-C36	<10.0	10.0	08/12/2025	ND					
Surrogate: 1-Chlorooctane	101	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	95.1	% 40.6-15	3						

surrogate: 1-Chlorooctadecane 95.1 % 40.6-153

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Celeg D. Freene



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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Celey D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 11/3/2025 3:59:22 PM

101 East Marland, Hobbs, NM 88240

Company Name: Vestex Resource						П	BILL TO						AN	IALYS	SIS R	REQUE	EST					
Project Manager: Chad Hensley							P.0). #:	10	8	087	1001										
Address: 3/0/ Roud drive							Company:E		X	KonM	obil											
City: Carlsbad State: N	MZip	8	82	20	0		Attr	1: A	Shle	4	Mea	tee							1			
Phone #: 575-200-6167 Fax #:							-					reene St										
Project #: 25A-03553 Project Own	er:					_					rad											
Project Name: BEU DI 9 Battery						_	Sta	te:/	VM	(Zi	ip: 88	220										
Project Location:						_		one	#:													
Sampler Name: Riley Arnold	-		_	14	ATRI	_	Fax	-	SERV.	/1	SAME	LING			-1							
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE	XICE / COOL		DATE	TIME	BTEX	TPH TPH	Chloride							
11 0575-08 60 9	1	1		7					X	8	3.7.25	1:00	X	X	X	-	-	1	-	+	\vdash	-
2 8525-11 2 5'	11	Ш		4	1				1	1	-	1:20	H	+	-	-	+	+	+	+		-
3 BS25-17 2 4'	-11	Ш	H	+	+	\vdash	Н	\vdash	-	ł	-	1:39	+	+		+	+		+			
4 8525-18 2 4'	+	Н			+	+	Н		+	t		1:50										
\$ 8525-19 20 4' \$ 8525-31 20 4'	11	Н		7		П	П			t		2:06										
7 WS25-1820-3	11	П			1				1	1		2:15	1	1	-	-	+	+	+	-		+
	+					1				1												

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Relinquished By:	Date: 11-25 Time: 420	Received By:	Verbal Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address: Chensley Daniel. Com
Relinquished By:	Date: Time:	Received By:	REMARKS: Rainold Westextesource.com
	****** Temp. *C	Cool Intact (Initials)	Turnaround Time: Standard Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Thermometer ID #1/3 Correction Factor 0.50 #0.3 C No Corrected Temp. °C

APPENDIX D - Vegetation Survey

BEU DI 9 BATTERY

Project Details					
Client	ExxonMobil		Program Type	Vegetation Survey	
NDIC Number			Location		
Project Description	25A-03553		Current Status		
Inspector Name	Fernando Rodriguez		Inspection Date	8/10/2025	

Overall Vegetaton Coverage				
Crop Coverage Percentage	0%			
Grass Percentage	1%			
Other Desirable Species Percentage	10%			
Weed Coverage Percentage	1%			
Bare Land Percentage	88%			
TOTAL	100%			
Comments: No visible rare species encountered.				

Desireable Vegetation Summary

Off-Site

Туре	Species	Coverage	GPS Position
Forb	Mesquite	5%	32.4569, -103.87983
Forb	Fourwing Saltbush	1%	32.45691, -103.87982
Forb	Ragweed	1%	32.4569, -103.87983
Forb	Russian Thistle	5%	32.45689, -103.87983
Forb	Broom Snakeweed	1%	32.4569, -103.87984
Native Grass	Burrowgrass	1%	32.4569, -103.87983

Undesireable Vegetation Summary

Vegetation Management Method Summary

Surface Materials Summary

Off-Site

Туре	Approx. Size	GPS Position
Sand		32.4569, -103.87984

Departure

Departure Signature

Printed Name Fernando Rodriguez

B.Sc. for Fish, Wildlife, and Conservation Ecology

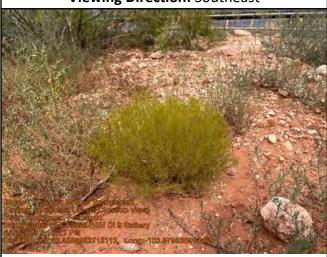
Arrival & Land Use Photos



Desirable Vegetation Photos

Off-Site: Broom Snakeweed

Viewing Direction: Southeast



Description: Closeup view

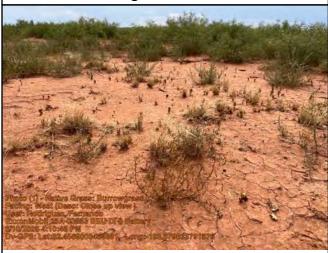
Photo Stamp: User: Rodriguez, Fernando ExxonMobil 25A-03553 BEU DI 9 Battery

8/10/2025 4:19:51 PM

Dv-GPS: Lat:32.4568963713112, Long:-103.879838983469

Off-Site: Burrowgrass

Viewing Direction: West



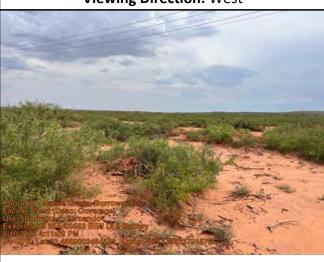
Description: Close up view

Photo Stamp: User: Rodriguez, Fernando ExxonMobil 25A-03553 BEU DI 9 Battery

8/10/2025 4:10:45 PM

Dv-GPS: Lat:32.4569003464681, Long:-103.879833791576

Viewing Direction: West



Description: Coverage

Photo Stamp: User: Rodriguez, Fernando ExxonMobil 25A-03553 BEU DI 9 Battery

8/10/2025 4:11:09 PM

Dv-GPS: Lat:32.4569003464681, Long:-103.879833791576

Off-Site: Fourwing Saltbush

Viewing Direction: South



Description: Closeup

Photo Stamp: User: Rodriguez, Fernando ExxonMobil 25A-03553 BEU DI 9 Battery

8/10/2025 4:14:27 PM

Dv-GPS: Lat:32.4569071177695, Long:-103.879816420473

Off-Site: Mesquite

Viewing Direction: Southwest



Description: Coverage

Photo Stamp: User: Rodriguez, Fernando ExxonMobil 25A-03553 BEU DI 9 Battery

8/10/2025 4:12:46 PM

Dv-GPS: Lat:32.4569002762653, Long:-103.879825395574

Viewing Direction: South



Description: Close up view

Photo Stamp: User: Rodriguez, Fernando ExxonMobil 25A-03553 BEU DI 9 Battery

8/10/2025 4:13:09 PM

Dv-GPS: Lat:32.4569002762653, Long:-103.879825395574

Off-Site: Ragweed

Viewing Direction: West



Description: Closeup view

Photo Stamp: User: Rodriguez, Fernando ExxonMobil 25A-03553 BEU DI 9 Battery

8/10/2025 4:16:37 PM

Dv-GPS: Lat:32.4568966924662, Long:-103.879834550472

Off-Site: Russian Thistle

Viewing Direction: North



Description: Closeup view

Photo Stamp: User: Rodriguez, Fernando ExxonMobil 25A-03553 BEU DI 9 Battery

8/10/2025 4:18:43 PM

Dv-GPS: Lat:32.456893809426, Long:-103.879829301353

Undesireable Vegetation Photos

Vegetation Management Photos

Surface Material Photos

Off-Site: Sand





Description: Offsite areas

Photo Stamp: User: Rodriguez, Fernando ExxonMobil 25A-03553 BEU DI 9 Battery

8/10/2025 4:21:12 PM

Dv-GPS: Lat:32.4568987059725, Long:-103.879836140482



Description: Offsite areas

Photo Stamp: User: Rodriguez, Fernando ExxonMobil 25A-03553 BEU DI 9 Battery

8/10/2025 4:21:36 PM

Dv-GPS: Lat:32.4568987059725, Long:-103.879836140482





Description: Offsite areas

Photo Stamp: User: Rodriguez, Fernando ExxonMobil 25A-03553 BEU DI 9 Battery

8/10/2025 4:22:03 PM

Dv-GPS: Lat:32.4568987059725, Long:-103.879836140482

Viewing Direction: East



Description: Offsite areas

Photo Stamp: User: Rodriguez, Fernando ExxonMobil 25A-03553 BEU DI 9 Battery

8/10/2025 4:22:40 PM

Dv-GPS: Lat:32.4568987059725, Long:-103.879836140482

Departure Photos

Desirable Veg Photo Continue Signification Construction (Constitution Constitution Photo (3) Percentage 10 4 Vignification Constitution Constitution (3) Vignification Constitution Constitution (3) Vignification (

Description: Overview

Photo Stamp:

Bare Land Photo



Description: Overview

Photo Stamp:

APPENDIX B - Daily Field and Sampling Reports

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Client:	ExxonMobil	Incident ID #:	
Site Location Name:	BEU DI 9 Battery	API#:	
Inspection Date:	7/18/2025		
		Summary of Times	

	Summary of Times
Arrived at Site	7/18/2025 9:00 AM
Departed Site	7/18/2025 3:00 PM



Field Notes

- 9:57 Travel to site/ safety paperwork/ ExxonMobil was contacted for authorization
- 9:57 Excavation area was line swept
- 9:58 Hydrovac began near pipelines and infrastructure
- 9:58 Excavation began on south eastern leg of spill

Next Steps & Recommendations

- 1 Continue excavation
- 2 Continue Hydrovac
- 3 Confirmation sampling



Site Photos



Hydrovac in progress



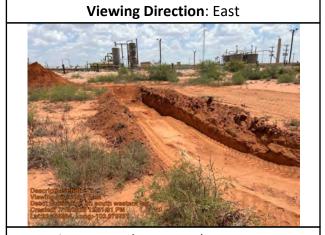
Viewing Direction: South

Mechanical Excavation began



Hydrovac at end of day





Excavation on south western leg



Daily Site Visit Signature

Inspector: Riley Arnold

Signature:

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Client:	ExxonMobil	Incident ID #:		
Site Location Name:	BEU DI 9 Battery	API #:		
Inspection Date:	7/22/2025			
Summary of Times				

		Summary of Times
Arrived at Site	7/22/2025 8:30 AM	
Departed Site	7/22/2025 3:30 PM	



Field Notes

- 8:52 Travel to site/ safety paperwork/ tailgate safety meeting
- **8:52** Contaminated material was moved to plastic liner
- **8:53** Hydrovac continued around equipment
- 8:53 Mechanical excavation continued
- 12:48 Base sample were taken to ensure proper excavation depth
- 13:43 Remediation extent was mapped

Next Steps & Recommendations

- 1 Continue excavation
- 2 Continue Hydrovac
- 3 Confirmation sampling



Site Photos



Contaminated material placed on plastic liner



Excavation continued







Run on 7/23/2025 1:50 PM UTC Powered by www.krinkleldar.com Page 4 of 8





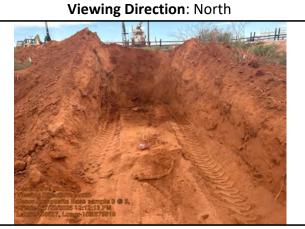
Excavation @ 3'



Composite Base sample 1 @ 3'



Composite Base sample 2 @ 3'



Composite Base sample 3 @ 3'





Excavation @ 3'



Excavation @ 3'



Excavation @ 3'



Excavation @ 3'





Hydrovac @ 3'



Daily Site Visit Signature

Inspector: Riley Arnold

Signature:

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Client:	ExxonMobil	Incident ID #:
Site Location Name:	BEU DI 9 Battery	API #:
Inspection Date:	7/23/2025	
		Summary of Times
	_ / /	

Arrived at Site 7/23/2025 8:30 AM

Departed Site 7/23/2025 10:30 AM



Field Notes

- 7:55 Hydrovac continued
- 7:55 Excavation continued
- 11:22 Contaminated material was placed on plastic liner

Next Steps & Recommendations

- 1 Continue Hydrovacing
- 2 Continue excavation
- 3 Confirmation sampling



Site Photos



Hydrovacing continued







Daily Site Visit Signature

Inspector: Riley Arnold

Signature:

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Client:	ExxonMobil	Incident ID #:		
Site Location Name:	BEU DI 9 Battery	API #:		
Inspection Date:	7/28/2025			
Summary of Times				

	Summary of Times
Arrived at Site	7/28/2025 11:30 AM
Departed Site	7/28/2025 4:30 PM



Field Notes

- 11:22 Travel to site/ safety paperwork
- 11:22 Confirmation samples were collected and field screened
- 11:23 Contaminated material was hauled to R360
- 15:39 Confirmation samples were jarred and labeled
- 15:39 Mapping edits

Next Steps & Recommendations

- 1 Complete confirmation sampling
- 2 Backfill and seed
- 3 Haul remaining contaminated material to R360
- 4 Reporting



Site Photos



BS25-18 @ 4' 5 point composite sample



BS25-22 @ 3' 5 point composite sample



BS25-19 @ 4' 5 point composite sample



BS25-23 @ 3' 5 point composite sample





BS25-24 @ 3' 5 point composite sample



BS25-31 @ 4' 5 point composite sample

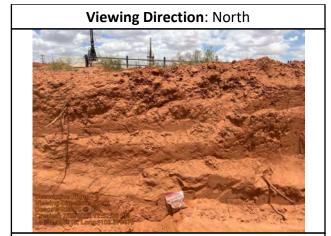


BS25-27 @ 3' 5 point composite sample



BS25-28 @ 3' 5 point composite sample





WS25-01 @ 0-4' 5 point composite sample



WS25-02 @ 0-4' 5 point composite sample

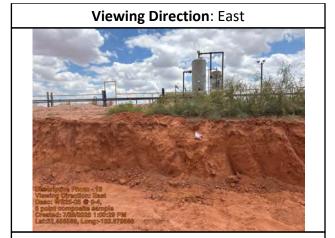


WS25-03 @ 0-4' 5 point composite sample



WS25-04 @ 0-4' 5 point composite sample

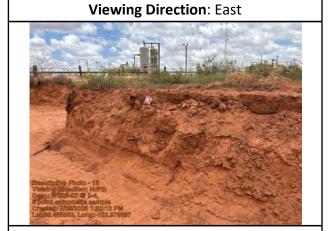




WS25-05 @ 0-4' 5 point composite sample



WS25-06 @ 0-4' 5 point composite sample



WS25-07 @ 0-4' 5 point composite sample



WS25-08 @ 0-5' 5 point composite sample





WS25-09 @ 0-5' 5 point composite sample



WS25-10 @ 0-5' 5 point composite sample



Daily Site Visit Signature

Inspector: Riley Arnold

Signature:

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V	ERTEX	•

Client:	ExxonMobil	Incident ID #:
Site Location Name:	BEU DI 9 Battery	API#:
Inspection Date:	7/29/2025	
Summary of Times		

Summary of Times		
Arrived at Site	7/29/2025 12:00 PM	
Departed Site	7/29/2025 4:00 PM	



Field Notes

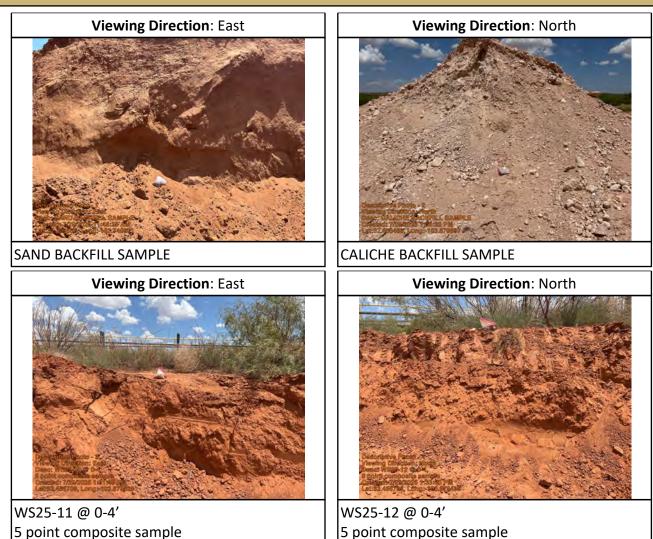
- 13:15 Travel to sand pit for backfill sample
- **13:15** Travel to site/ safety paperwork
- 13:15 Caliche backfill sample collected
- 13:15 WS25-11 through WS25-21 were collected and field screened
- 13:16 Sample were jarred and labeled
- 15:41 Coc's were created

Next Steps & Recommendations

- 1 Reporting
- 2 Backfill/ seeding



Site Photos







WS25-13 @ 0-4' 5 point composite sample



WS25-14 @ 0-4' 5 point composite sample



WS25-15 @ 0-4' 5 point composite sample



WS25-16 @ 0-4' 5 point composite sample





WS25-17 @ 0-3' 5 point composite sample



WS25-18 @ 0-3' 5 point composite sample



WS25-19 @ 0-3' 5 point composite sample



WS25-20 @ 0-3' 5 point composite sample





WS25-21 @ 0-3' 5 point composite sample



Daily Site Visit Signature

Inspector: Riley Arnold

Signature:

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Client:	ExxonMobil	Incident ID #:
Site Location Name:	BEU DI 9 Battery	API #:
Inspection Date:	8/7/2025	
Summary of Times		

Arrived at Site 8/7/2025 12:30 PM **Departed Site** 8/7/2025 3:30 PM



Field Notes

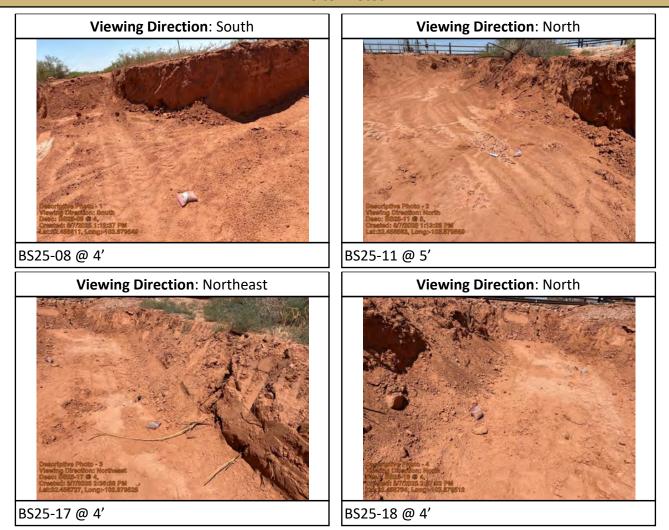
- **14:39** Travel to site/ safety paperwork
- 14:39 Confirmation sampling
- 14:40 Samples were field screened
- 14:40 Samples jarred and labeled
- 14:40 Coc creation

Next Steps & Recommendations

- 1 Send to lab for further analysis
- 2 Backfill/reporting



Site Photos







Viewing Direction: Southeast

Secretary of Control of C

BS25-19 @ 4'

Viewing Direction: Northwest

Discretion of the property of th

BS25-31 @ 4'





Daily Site Visit Signature

Inspector: Riley Arnold

Signature:

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Client:	ExxonMobil	Incident ID #:	
Site Location Name:	BEU DI 9 Battery	API #:	
Inspection Date:	9/4/2025		
		C	
		Summary of Times	
Arrived at Site	9/4/2025 7:19 AM		
Departed Site	9/4/2025 7:48 AM		
	<u> </u>		
		Field Notes	

7:33 Completed JSA and informed Chris Purcell of presence on arrival. On site to assess reclamation progress.

7:45 Confirmed that excavation was backfill with topsoil and ready to seed.

Next Steps & Recommendations

1 Check on reseeding.



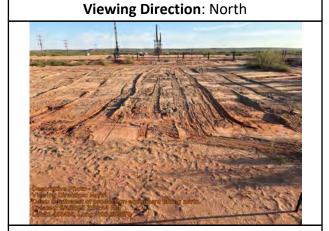
Site Photos



Northwest of tank battery facing south.



Southwest of production equipment facing northwest.



Southwest of production equipment facing north.



South-Southwest of flare facing northeast.











Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:

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Client:	ExxonMobil	Incident ID #:	
Site Location Name:	BEU DI 9 Battery	API#:	
Inspection Date:	9/5/2025		
		Common of Times	
		Summary of Times	
Arrived at Site	9/5/2025 5:45 PM		
Departed Site	9/5/2025 6:23 PM		
			-

- **Field Notes**
- 17:50 Completed JSA at previous location. On site to assess reclamation work on pasture west of production equipment.
- **18:17** Excavation was backfilled to grade with topsoil. The slope of reclamation area matches matches the surrounding landscape.
- **18:18** Seed was applied to the topsoil and is visible on the surface.
- **18:19** Reclamation activities are completed until the seeds germinate.

Next Steps & Recommendations

1



Site Photos



West-southwest of flare facing south.



Southwest of flare facing east.



West-southwest of flare facing south.



Southwest of flare facing southeast. Seed applied to new topsoil.





Southwest of flare facing east. Seed applied to new topsoil.



West edge of reclamation area facing northeast.



West edge of reclamation area facing east.



West edge of reclamation area facing southeast.





South edge of reclamation area facing northwest.



South edge of reclamation area facing north.



South edge of reclamation area facing northeast.



South of flare facing north. Seed applied to topsoil.





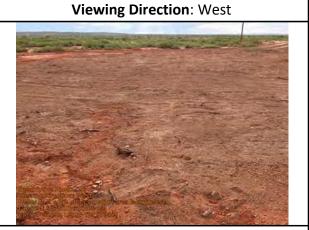
Southeast corner of reclamation area facing northwest.



East edge of reclamation area facing west. Seed applied to topsoil.



East edge of reclamation area facing southwest.



East edge of reclamation area facing west.





East edge of reclamation area facing northwest.



Northeast corner of reclamation area facing southwest.



Northeast corner of reclamation area facing southwest. Seed applied to topsoil.



North edge of reclamation area facing southeast.





North edge of reclamation area facing south.



North edge of reclamation area facing southwest.



Northwest of tank battery facing south.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:

Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

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

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

QUESTIONS

Action 503782

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	503782
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2517841727	
Incident Name	NAPP2517841727 BIG EDDY UNIT DI 9 BATTERY @ FAPP2123049175	
Incident Type	Other	
Incident Status	Remediation Closure Report Received	
Incident Facility	[fAPP2123049175] DI 9	

Location of Release Source		
Please answer all the questions in this group.		
Site Name BIG EDDY UNIT DI 9 BATTERY		
Date Release Discovered	06/21/2025	
Surface Owner	State	

Incident Details	
Please answer all the questions in this group.	
Incident Type	Other
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 t	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Corrosion Flow Line - Production Crude Oil Released: 4 BBL Recovered: 1 BBL Lost: 3 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 7 BBL Recovered: 1 BBL Lost: 6 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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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, Page 2

Action 503782

QUESTIONS (continued)
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QUESTI	IONS (continued)
Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)
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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	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 s	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releating the OCD does not relieve the operator of liability should their operations have failed to a	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 t 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: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 09/08/2025

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

Phone: (505) 629-6116

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

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

QUESTIONS, Page 3

Action 503782

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	503782
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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 26 and 50 (ft.)	
What method was used to determine the depth to ground water	Direct Measurement	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)	
Any other fresh water well or spring	Greater than 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Between ½ and 1 (mi.)	
A wetland	Between 1000 (ft.) and ½ (mi.)	
A subsurface mine	Between 300 and 500 (ft.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	High	
A 100-year floodplain	Between 1 and 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan		
Remediation Flan		
Please answer all the questions that apply or are indicated. This information must be provided	to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contaminati	ion associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in r	milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	8000	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	67887	
GRO+DRO (EPA SW-846 Method 8015M)	4670	
BTEX (EPA SW-846 Method 8021B or 8260B)	1350	
Benzene (EPA SW-846 Method 8021B or 8260B)	48.1	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence	07/18/2025	
On what date will (or did) the final sampling or liner inspection occur	08/07/2025	
On what date will (or was) the remediation complete(d)	08/07/2025	
What is the estimated surface area (in square feet) that will be reclaimed	4633	
What is the estimated volume (in cubic yards) that will be reclaimed	172	
What is the estimated surface area (in square feet) that will be remediated	4633	
What is the estimated volume (in cubic yards) that will be remediated 172		
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

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

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

Phone: (505) 629-6116

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

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

QUESTIONS, Page 4

Action 503782

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	503782
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
Yes	
fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL	
Not answered.	

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

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

Name: Robert Woodall
I hereby agree and sign off to the above statement
Title: Environmental Analyst
Email: robert d woodall@ex

Email: robert.d.woodall@exxonmobil.com Date: 09/08/2025

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

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

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 5

Action 503782

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	503782
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 503782

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	503782
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded	492224	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/07/2025	
What was the (estimated) number of samples that were to be gathered	18	
What was the sampling surface area in square feet	3600	

Remediation Closure Request				
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.				
Requesting a remediation closure approval with this submission	Yes			
Have the lateral and vertical extents of contamination been fully delineated	Yes			
Was this release entirely contained within a lined containment area	No			
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes			
What was the total surface area (in square feet) remediated	4633			
What was the total volume (cubic yards) remediated	172			
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	4633			
What was the total volume (in cubic yards) reclaimed	172			
Summarize any additional remediation activities not included by answers (above)	see report			

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

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

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Title: Environmental Analyst
Email: robert.d.woodall@exxonmobil.com
Date: 09/08/2025

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QUESTIONS, Page 7

Action 503782

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	503782
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 503782

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	503782
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	