Location:	Brushy Draw 30-31 Fed Battery		
Spill Date:	11/10/2024		
	Area 1		
Approximate A	rea =	17500.00	sq. ft.
Average Satura	tion (or depth) of spill =	2.00	inches
Average Porosi	ty Factor =	0.26	
	VOLUME OF LEAK		
Total Crude Oil	=	27.00	bbls
Total Produced	Water =	108.00	bbls
	TOTAL VOLUME OF LEAK		
Total Crude Oi	=	27.00	bbls
Total Produced	d Water =	108.00	bbls
	TOTAL VOLUME RECOVERED		
Total Crude Oi	=	1.50	bbls
Total Produced	l Water =	1.50	bbls

Incident Number: NAPP2431846528

VERTEX

Incident Closure

Brushy Draw 30 – 31 Federal Battery

Section 31, Township 25 South, Range 30 East

Facility ID: fAPP2207332396

Latitude & Longitude: 32.09137, -103.91807

County: Eddy

Vertex File Number: 24E-04918

Prepared for:

ExxonMobil Upstream Company

Prepared by:

Vertex Resource Services Inc.

Date:

March 2025

Incident Closure March 2025

Incident Closure

Brushy Draw 30 – 31 Federal Battery

Section 31, Township 25 South, Range 30 East

Facility ID: fAPP2207332396

Latitude & Longitude: 32.09137, -103.91807

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

3/6/2025

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

Incident Closure March 2025

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Incident Closure March 2025

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- Figure 2. Confirmatory Sample Site Schematic

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- Table 3. Initial Characterization Sample and Laboratory Results Depth to Groundwater <50 feet bgs
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List of Appendices

Appendix A. Closure Criteria Research Documentation

Appendix B. Daily Field and Sampling Report(s)

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

Appendix D. Notification

Incident Closure March 2025

1.0 Introduction

ExxonMobil Upstream Company (Exxon) retained Vertex Resource Services Inc. (Vertex) to conduct an Incident Closure for a crude oil and produced water release that occurred on November 10, 2024, at Brushy Draw 30 -31 Federal Battery facility ID fAPP2207332396 (hereafter referred to as the "site"). Exxon submitted an initial C-141 Release Notification to New Mexico Oil Conservation Division (NMOCD) on November 25, 2024. Incident ID number NAPP2431846528 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 are being followed. This document is intended to serve as a final report to obtain approval from NMOCD for closure of this release, with the understanding that restoration of the release site will be completed following remediation activities as per NMAC 19.15.29.13.

2.0 Incident Description

The release occurred on November 10, 2024, due to corrosion. The incident was reported on November 13, 2024, and involved the release of approximately 27 barrels (bbl.) of crude oil and approximately 108 (bbl.) of produced water both on the pad site and off the pad site. Approximately 4 bbl. of free fluid was 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 29 miles southeast of Carlsbad, New Mexico (Google Inc. 2025). The legal location for the site is Section 31, Township 25 South and Range 30 East in Eddy County, New Mexico. The release area is located on Bureau of Land Management property. An aerial photograph and site schematic are presented on Figure 1.

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

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2025) indicates the site's surface geology primarily comprises Qep - Eolian and piedmont deposits (New Mexico Bureau of Geology and Mineral Resources, 2025). The karst geology potential for the site is low (United States Department of the Interior, Bureau of Land Management, 2018). The surrounding landscape is associated with plains and fan piedmonts with elevations ranging between 2,000 and 5,700 feet. The climate is semiarid with average annual precipitation ranging between 5 and 15 inches. Predominant soil textures around the site are well-drained fine sands and fine sandy loams with low runoff potential (United States Department of Agriculture, Natural Resources Conservation Service, 2025). Using information from the United States Department of Agriculture, the dominant vegetation was determined to be grasses interspersed with shrubs and half-shrubs (United States Department of Agriculture, Natural Resources Conservation Service, 2025). Limited to no vegetation is allowed to grow on the compacted facility pad

Incident Closure March 2025

4.0 Closure Criteria Determination

The nearest active well to the site is an industrial and prospecting development well 1.95 miles to the south. 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 an intermittent stream located approximately 722 feet northwest 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

The nearest depth to groundwater reference to the site is an exploratory well advanced 1.57 miles to the east on January 17, 2015. Depth to groundwater at the well was 277 feet below ground surface (bgs; New Mexico Office of the State Engineer, 2025b). Information pertaining to the depth to ground water determination is included in Appendix A.

Incident Closure March 2025

ite Nam	e: Brushy Draw 30-31 Federal Battery		
	Coordinates: 32.091537,-103.918753	X: 602031	Y: 3551093
ite Speci	fic Conditions	Value	Unit
	Depth to Groundwater (nearest reference)	10	00-500 ft
1	Distance between release and nearest DTGW reference	1	L - 5 mi
	Date of nearest DTGW reference measurement	Janua	ary 17, 2015
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	500) - 1000 ft
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	1	1 - 5 mi
4	Within 300 feet from an occupied residence, school, hospital, institution or church		5mi <
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or	1	1 - 5 mi
	ii) Within 1000 feet of any fresh water well or spring	1	1 - 5 mi
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	1	l - 5 mi
	Within the area overlying a subsurface mine	No	(Y/N)
8	Distance between release and nearest registered mine		5mi <
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
	Distance between release and nearest unstable area	1	1 - 5 mi
	Within a 100-year Floodplain	>500	year
10	Distance between release and nearest FEMA Zone A (100-year Floodplain)	500) - 1000 ft
11	Soil Type	Fine sand,	sandy clay loam
12	Ecological Classification	Loa	amy sand
13	Geology	Eolian and p	eidmont deposits
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	<50' 51-100' >100'
3		VE	RSATILITY. EXPERTISE.

Incident Closure March 2025

The depth to groundwater reference exceeded 0.5 miles from the release area; therefore, the closure criteria for remediation and reclamation of the site was determined to be associated with the strictest constituent concentration limits as presented in Table 2.

Table 2. Closure Criteria for Soils Impacted by a Release										
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Limit								
10,000 mg/1103	Chloride	600 mg/kg								
< 50 feet	TPH (GRO+DRO+MRO)	100 mg/kg								
< 50 feet	BTEX	50 mg/kg								
	Benzene	10 mg/kg								

TDS - total dissolved solids

5.0 Remedial Actions Taken

An initial site inspection of the release area was completed on November 25, 2024, which identified the area of the release specified in the initial C-141 Report. The impacted area was determined to be approximately 10,838 squarefeet. The Daily Field Report (DFR) associated with the site inspection is included in Appendix B.

Remediation efforts began on January 22, 2025, and were finalized on February 21, 2025. Vertex personnel supervised the excavation of impacted soils. Soils were removed to a depth of 6 inches to 6 feet bgs. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility as stipulated by the Form C-138 Request for Approval to Accept Solid Waste. 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 on February 13, 2025. Confirmatory composite samples were collected from the base and walls of the excavation in 200 square foot increments. A total of 102 samples were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Cardinal Labs 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.

6.0 Closure Request

The release area was fully delineated, remediated, and backfilled with local soil by March 3, 2025. Confirmatory samples were analyzed by the laboratory and found to be below allowable concentrations as per the NMAC Closure Criteria for Soils Impacted by a Release location "under 50 feet to groundwater". Based on these findings, Exxon requests that this release be closed.

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

BTEX - benzene, toluene, ethylbenzene and xylenes

Incident Closure March 2025

Should you have any questions or concerns, please do not hesitate to contact Chad Hensley at 575-200-6167 or Chensley@vertexresource.com.

7.0 References

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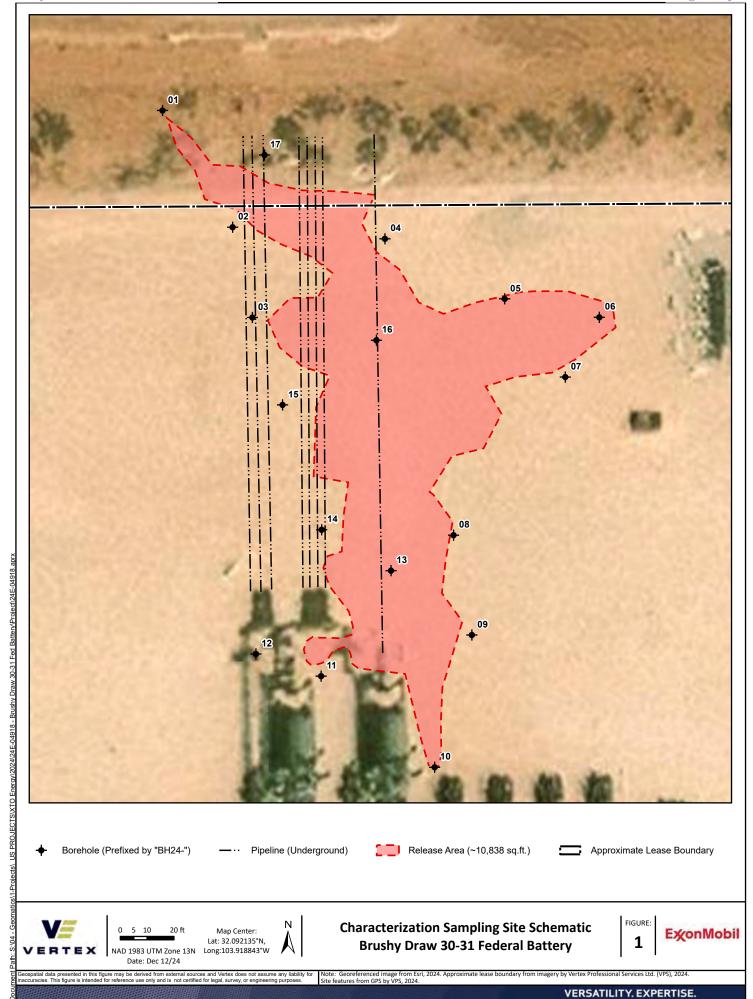
Incident Closure March 2025

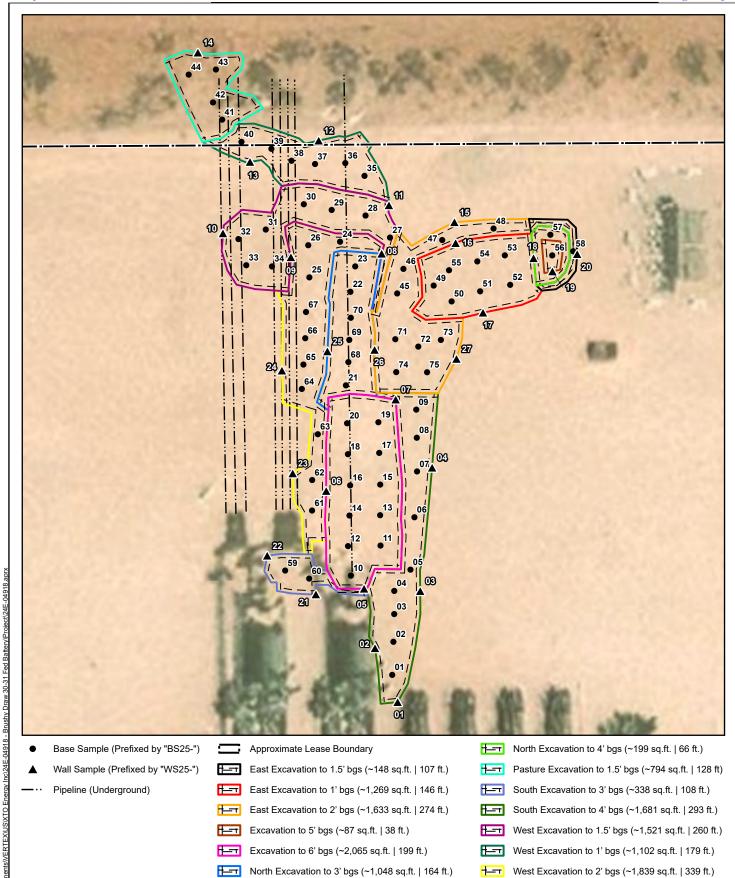
8.0 Limitations

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. Conclusions and recommendations presented in this report should not be considered legal advice.

FIGURES





VERTEX

0 15 30 ft Map Center: Lat: 32.092096°N, NAD 1983 UTM Zone 13N Long:103.918814°W Date: Feb 27/25 Confirmatory Sampling Site Schematic Brushy Draw 30-31 Fed Battery FIGURE:

ExonMobil

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

Note: Georeferenced image from Esri, 2024. Approximate lease boundary from imagery by Vertex Professional Services Ltd. (VPS), 20 Site features from GPS by VPS, 2025.

TABLES

NMOCD Tracking #:nAPP2431846528

Project #: 24E-04918 Lab Report #: H247231

Sample ID Depth (ft) Sample Date			Table 3. Initia	l Characte	rization S						
Sample ID Depth (ft) Sample Date		Sample Des	cription			Petrole	eum Hydro	carbons			
Mg/kg (mg/kg) (mg/k				Vol	atile			Extractable)		Inorganic
BH24-01	Sample ID	Depth (ft)	Sample Date								3) Chloride Concentration (6)
BH24-01 2				\'''6/ \\6/	(1116/146)					(1116/116)	(1116/116)
BH24-01 2		0	November 22, 2024	ND	ND					ND	96
Head-of-order-name	BH24-01		,								32
BH24-02 2	51121 01		,								32
BH24-02			,								192
A	BH24-02		, , , , , , , , , , , , , , , , , , ,		i e		i e				32
BH24-03 2 November 22, 2024 ND ND ND ND ND ND ND N	5.12.02		,								32
BH24-03 2			·								32
Head-off	BH24-03		,								32
BH24-04			,								16
BH24-04 2	BH24-04		,								144
Head			,	i e	i e		i e				64
BH24-05 2 November 22, 2024 ND			,								112
BH24-05 2		0	·	ND	ND	ND	ND	ND	ND	ND	4640
BH24-06	BH24-05	2	November 22, 2024								304
BH24-06		4	November 22, 2024	ND	ND	ND	ND	ND	ND	ND	128
AR		0		ND	ND	ND	ND	ND	ND	ND	112
BH24-07 2 November 22, 2024 ND	BH24-06	2	November 22, 2024	ND	ND	ND	ND	ND	ND	ND	80
BH24-07 2 November 22, 2024 ND		4R	November 22, 2024	ND	ND	ND	140	36.8	140	176.8	64
A		0	November 22, 2024	ND	ND	ND	ND	ND	ND	ND	80
BH24-08 2 November 22, 2024 ND	BH24-07	2	November 22, 2024	ND	ND	ND	ND	ND	ND	ND	32
BH24-08 2 November 22, 2024 ND		4	November 22, 2024	ND	ND	ND	ND	ND	ND	ND	16
A		0	November 22, 2024	ND	ND	ND	ND	ND	ND	ND	32
BH24-09	BH24-08	2	, ,								32
BH24-09 2 November 22, 2024 ND		4	November 22, 2024	ND	ND	ND	ND	ND	ND	ND	32
H24-10 A November 22, 2024 ND		0	November 22, 2024	ND	ND	ND	ND	ND	ND	ND	192
BH24-10	BH24-09		,								32
BH24-10 2 November 22, 2024 ND			•	ND	ND	ND	ND	ND	ND	ND	16
4 November 22, 2024 ND			,	ND	ND	ND	ND	ND	ND	ND	48
BH24-11	BH24-10		,								48
BH24-11 2 November 22, 2024 ND ND ND ND ND ND 1 4 November 22, 2024 ND			,								32
4 November 22, 2024 ND	DU24 44										96
0 November 22, 2024 ND ND ND ND ND ND ND ND 8	BH24-11		•								16
, 112 112 112 112 112 112			,								32
STIZE 12 NOVERTIBET 22, 2024 NO NO NO NO NO NO NO S	BH24-12		,								80
4 November 22, 2024 ND ND ND ND ND ND ND 1	DIIZ4-TZ										32 16



NMOCD Tracking #:nAPP2431846528

Project #: 24E-04918 Lab Report #: H247231

		Table 3. Initia	l Characte	rization S	ample Lab	oratory R	esults				
	Sample Des	cription			Petrole	um Hydrod	arbons				
			Vola	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)	Motor Oil Range Organics (MRO) (Bay/8m) (GRO + DRO) (GRO + DRO) (GRO + DRO) (May/9m) (GRO + DRO) (May/9m) (Maydrocarbons (TPH)	Chloride Concentration		
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)	(mg/kg)	
			Depth to Groundwater <50								
	0	November 22, 2024	ND	ND	ND	1670	411	1670	2081	1230	
BH24-13	2	November 22, 2024	ND	ND	12.6	784	140	796.6	936.6	2280	
	4R	November 22, 2024	ND	ND	26.6	500	73.8	526.6	600.4	1920	
	0	November 22, 2024	ND	ND	ND	ND	ND	ND	ND	208	
BH24-14	2	November 22, 2024	ND	ND	ND	17.5	ND	17.5	17.5	144	
	4	November 22, 2024	ND	ND	ND	ND	ND	ND	ND	16	
	0	November 22, 2024	ND	ND	ND	ND	ND	ND	ND	80	
BH24-15	2	November 22, 2024	ND	ND	ND	ND				48	
	4	November 22, 2024	ND	ND	ND	ND	ND	ND	ND	16	
	0	November 22, 2024	ND	ND	221	3880	497	4101	4598	2520	
BH24-16	2	November 22, 2024	ND	ND	ND	123	11.1	123	134.1	6800	
	4	November 22, 2024	ND	ND	ND	ND	ND	ND	ND	32	
	0	November 22, 2024	ND	ND	ND	ND	ND	ND	ND	96	
BH24-17	2	November 22, 2024	ND	ND	ND	ND	ND	ND	ND	32	
	4	November 22, 2024	ND	ND	ND	ND	ND	ND	ND	16	

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

R indicates Refusal

Bold and grey shaded indicates exceedance outside of NMOCD Remediation Closure Criteria



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

NMOCD Tracking #: nAPP2431846528

Project #: 24E-04918

Lab Reports: H250926, H250956, H251073, H251074, and H251075

Sample ID			Table 4. (Confirmati	on Sample	Laborate	ory Result	s			
Sample ID		Sample Des	cription			Petrole	um Hydro	carbons			
				Vol	atile			Extractable			Inorganic
BS25-01	Sample ID	Depth (ft)	Sample Date				(mg/kg) (DRO)	(mg/kg)	(mg/kg)	(mg/kg)	
BS25-02									er < 50 Feet	bgs	
SS25-03			, ,		ND	ND			ND		
BS25-04 4	BS25-02		February 20, 2025	ND	ND	ND	ND	ND	ND	ND	32
BS25-05			, .								
BS25-06			, .								
BS25-07			•	ND	ND	ND	ND	ND	ND	ND	16
BS25-08			, ,	ND	ND	ND	ND	ND	ND	ND	48
BS25-09 4			February 20, 2025	ND	ND	ND	ND	ND	ND	ND	48
BS25-10 6 February 20, 2025 ND ND </td <td>BS25-08</td> <td>4</td> <td>February 20, 2025</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>32</td>	BS25-08	4	February 20, 2025	ND	ND	ND	ND	ND	ND	ND	32
BS25-11 6 February 20, 2025 ND ND </td <td>BS25-09</td> <td>4</td> <td>February 20, 2025</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>16</td>	BS25-09	4	February 20, 2025	ND	ND	ND	ND	ND	ND	ND	16
BS25-12 6 February 20, 2025 ND ND </td <td>BS25-10</td> <td>6</td> <td>February 20, 2025</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>176</td>	BS25-10	6	February 20, 2025	ND	ND	ND	ND	ND	ND	ND	176
BS25-13 6 February 20, 2025 ND ND </td <td>BS25-11</td> <td>6</td> <td>February 20, 2025</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>32</td>	BS25-11	6	February 20, 2025	ND	ND	ND	ND	ND	ND	ND	32
BS25-14 6 February 20, 2025 ND ND </td <td>BS25-12</td> <td>6</td> <td>February 20, 2025</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>16</td>	BS25-12	6	February 20, 2025	ND	ND	ND	ND	ND	ND	ND	16
BS25-15 6 February 20, 2025 ND ND </td <td>BS25-13</td> <td>6</td> <td>February 20, 2025</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>32</td>	BS25-13	6	February 20, 2025	ND	ND	ND	ND	ND	ND	ND	32
BS25-16 6 February 20, 2025 ND ND </td <td>BS25-14</td> <td>6</td> <td>February 20, 2025</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>32</td>	BS25-14	6	February 20, 2025	ND	ND	ND	ND	ND	ND	ND	32
BS25-17 6 February 20, 2025 ND ND </td <td>BS25-15</td> <td>6</td> <td>February 20, 2025</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>32</td>	BS25-15	6	February 20, 2025	ND	ND	ND	ND	ND	ND	ND	32
BS25-18 6 February 20, 2025 ND ND ND ND ND ND ND ND ND 16 BS25-19 6 February 20, 2025 ND	BS25-16	6	February 20, 2025	ND	ND	ND	ND	ND	ND	ND	16
BS25-19 6 February 20, 2025 ND ND ND ND ND ND ND ND ND A8 BS25-20 6 February 20, 2025 ND ND <td>BS25-17</td> <td>6</td> <td>February 20, 2025</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>16</td>	BS25-17	6	February 20, 2025	ND	ND	ND	ND	ND	ND	ND	16
BS25-20 6 February 20, 2025 ND ND </td <td>BS25-18</td> <td>6</td> <td>February 20, 2025</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>16</td>	BS25-18	6	February 20, 2025	ND	ND	ND	ND	ND	ND	ND	16
BS25-21 3 February 20, 2025 ND ND </td <td>BS25-19</td> <td>6</td> <td>February 20, 2025</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>48</td>	BS25-19	6	February 20, 2025	ND	ND	ND	ND	ND	ND	ND	48
BS25-22 3 February 17, 2025 ND ND </td <td>BS25-20</td> <td>6</td> <td>February 20, 2025</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>64</td>	BS25-20	6	February 20, 2025	ND	ND	ND	ND	ND	ND	ND	64
BS25-23 3 February 17, 2025 ND ND </td <td>BS25-21</td> <td>3</td> <td>February 20, 2025</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>16</td>	BS25-21	3	February 20, 2025	ND	ND	ND	ND	ND	ND	ND	16
BS25-24 2 February 17, 2025 ND ND </td <td>BS25-22</td> <td>3</td> <td>February 17, 2025</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>96</td>	BS25-22	3	February 17, 2025	ND	ND	ND	ND	ND	ND	ND	96
BS25-25 2 February 17, 2025 ND	BS25-23	3	February 17, 2025	ND	ND	ND	ND	ND	ND	ND	64
BS25-26 2 February 17, 2025 ND ND </td <td>BS25-24</td> <td>2</td> <td>February 17, 2025</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>64</td>	BS25-24	2	February 17, 2025	ND	ND	ND	ND	ND	ND	ND	64
BS25-27 1.5 February 17, 2025 ND	BS25-25	2	February 17, 2025	ND	ND	ND	ND	ND	ND	ND	16
BS25-28 1.5 February 17, 2025 ND	BS25-26	2	February 17, 2025	ND	ND	ND	ND	ND	ND	ND	64
BS25-29 1.5 February 17, 2025 ND	BS25-27	1.5	February 17, 2025	ND	ND	ND	ND	ND	ND	ND	64
BS25-30 1.5 February 17, 2025 ND	BS25-28	1.5	February 17, 2025	ND	ND	ND	ND	ND	ND	ND	48
BS25-31 1.5 February 17, 2025 ND	BS25-29	1.5	February 17, 2025	ND	ND	ND	ND	ND	ND	ND	64
BS25-32 1.5 February 17, 2025 ND	BS25-30	1.5	February 17, 2025	ND	ND	ND	ND	ND	ND	ND	32
BS25-33 1.5 February 17, 2025 ND	BS25-31	1.5	February 17, 2025	ND	ND	ND	ND	ND	ND	ND	48
BS25-34 1.5 February 17, 2025 ND	BS25-32	1.5	February 17, 2025	ND	ND	ND	ND	ND	ND	ND	16
BS25-35 1 February 17, 2025 ND ND </td <td>BS25-33</td> <td>1.5</td> <td>February 17, 2025</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>112</td>	BS25-33	1.5	February 17, 2025	ND	ND	ND	ND	ND	ND	ND	112
BS25-36 1 February 17, 2025 ND ND </td <td>BS25-34</td> <td>1.5</td> <td>February 17, 2025</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>80</td>	BS25-34	1.5	February 17, 2025	ND	ND	ND	ND	ND	ND	ND	80
BS25-37 1 February 17, 2025 ND ND ND ND ND ND ND 32	BS25-35	1	February 17, 2025	ND	ND	ND	ND	ND	ND	ND	32
	BS25-36	1	February 17, 2025	ND	ND	ND	ND	ND	ND	ND	32
BS25-38 1 February 17, 2025 ND ND ND ND ND ND ND ND 32	BS25-37	1	February 17, 2025	ND	ND	ND	ND	ND	ND	ND	32
	BS25-38	1	February 17, 2025	ND	ND	ND	ND	ND	ND	ND	32



NMOCD Tracking #: nAPP2431846528

Project #: 24E-04918

Lab Reports: H250926, H250956, H251073, H251074, and H251075

		Table 4. (Confirmati	on Sample	Laborate	ory Result	s			
	Sample Desc	cription		-	Petrole	um Hydro	carbons			
	1	•	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) iroundwate	(mg/kg)	(mg/kg)	(mg/kg)
BS25-39	1	F-1								4.0
	1	February 17, 2025	ND	ND	ND	ND	ND	ND	ND	16
BS25-40 BS25-41	1	February 17, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BS25-41 BS25-42	1.5 1.5	February 17, 2025 February 17, 2025	ND	ND	ND	ND	ND	ND	ND	ND 22
BS25-42 BS25-43	1.5	February 17, 2025	ND	ND ND	ND ND	ND	ND	ND	ND	32 ND
BS25-43 BS25-44	1.5	February 17, 2025	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 16
BS25-45	2									64
BS25-45 BS25-46	2	February 16, 2025 February 16, 2025	ND	ND ND	ND	ND	ND	ND	ND	-
BS25-47	2	February 16, 2025	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	80 96
BS25-48	2	•								
BS25-46	1	February 16, 2025 February 16, 2025	ND	ND	ND	ND	ND	ND	ND	96
BS25-49 BS25-50	1	February 16, 2025	ND ND	ND ND	ND	ND	ND	ND	ND	80
BS25-50	1	February 16, 2025	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	64 80
BS25-52	1	February 16, 2025			ND ND	ND ND				96
BS25-52	1	February 16, 2025	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	32
BS25-54	1	February 16, 2025	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND
BS25-55	1	February 16, 2025	ND ND	ND ND	ND	ND ND	ND ND	ND	ND ND	80
BS25-56	5	February 16, 2025	ND ND	ND ND	ND	ND ND	ND ND	ND	ND ND	32
BS25-57	4	February 16, 2025	ND	ND ND	ND	ND	ND	ND	ND ND	80
BS25-58	1.5	February 16, 2025	ND ND	ND ND	ND	ND	ND	ND	ND ND	64
BS25-59	3	February 20, 2025	ND	ND ND	ND	ND	ND	ND	ND ND	32
BS25-60	3	February 20, 2025	ND	ND ND	ND	ND	ND	ND	ND	96
BS25-61	2	February 21, 2025	ND	ND	ND	ND ND	ND	ND	ND	64
BS25-62	2	February 21, 2025	ND	ND	ND	ND	ND	ND	ND	16
BS25-63	2	February 21, 2025	ND	ND	ND	ND	ND	ND	ND	16
BS25-64	2	February 21, 2025	ND	ND	ND	ND	ND	ND	ND	32
BS25-65	2	February 21, 2025	ND	ND	ND	ND	ND	ND	ND	16
BS25-66	2	February 21, 2025	ND	ND	ND	ND	ND	ND	ND	16
BS25-67	2	February 21, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BS25-68	3	February 20, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BS25-69	3	February 20, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BS25-70	3	February 20, 2025	ND	ND	ND	ND	ND	ND	ND	32
BS25-71	2	February 21, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BS25-72	2	February 21, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BS25-73	2	February 21, 2025	ND	ND	ND	ND	ND	ND	ND	16
BS25-74	2	February 21, 2025	ND	ND	ND	ND	ND	ND	ND	16
BS25-75	2	February 21, 2025	ND	ND	ND	ND	ND	ND	ND	64
WS25-01	0-4	February 20, 2025	ND	ND	ND	ND	ND	ND	ND	16



NMOCD Tracking #: nAPP2431846528

Project #: 24E-04918

Lab Reports: H250926, H250956, H251073, H251074, and H251075

		Table 4. (Confirmati	on Sample	Laborate	ory Result	S			
	Sample Des	cription			Petrole	um Hydro	carbons			
			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)	96 16 ND 192 16 32 80 80 112 48 96 80 32 48 96 224
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
				1		Depth to G	iroundwate	r <50 feet	bgs	
WS25-02	0-4	February 20, 2025	ND	ND	ND	ND	ND	ND	ND	96
WS25-03	0-4	February 20, 2025	ND	ND	ND	ND	ND	ND	ND	16
WS25-04	0-4	February 20, 2025	ND	ND	ND	ND	ND	ND	ND	ND
WS25-05	3-6	February 20, 2025	ND	ND	ND	ND	ND	ND	ND	
WS25-06	2-6	February 20, 2025	ND	ND	ND	ND	ND	ND	ND	16
WS25-07	3-6	February 20, 2025	ND	ND	ND	ND	ND	ND	ND	32
WS25-08	1.5-3	February 16, 2025	ND	ND	ND	ND	ND	ND	ND	80
WS25-09	1.5-2	February 16, 2025	ND	ND	ND	ND	ND	ND	ND	80
WS25-10	0-1.5	February 16, 2025	ND	ND	ND	ND	ND	ND	ND	112
WS25-11	0-1.5	February 16, 2025	ND	ND	ND	ND	ND	ND	ND	48
WS25-12	0-1	February 16, 2025	ND	ND	ND	ND	ND	ND	ND	96
WS25-13	0-1	February 16, 2025	ND	ND	ND	ND	ND	ND	ND	
WS25-14	0-1.5	February 16, 2025	ND	ND	ND	ND	ND	ND	ND	32
WS25-15	0-2	February 16, 2025	ND	ND	ND	ND	ND	ND	ND	
WS25-16	1-2	February 16, 2025	ND	ND	ND	ND	ND	ND	ND	
WS25-17	0-1	February 16, 2025	ND	ND	ND	ND	ND	ND	ND	224
WS25-18	1-4	February 16, 2025	ND	ND	ND	ND	ND	ND	ND	
WS25-19	4-5	February 16, 2025	ND	ND	ND	ND	ND	ND	ND	64
WS25-20	0-1.5	February 16, 2025	ND	ND	ND	ND	ND	ND	ND	96
WS25-21	0-3	February 20, 2025	ND	ND	ND	ND	ND	ND	ND	96
WS25-22	0-3	February 20, 2025	ND	ND	ND	ND	ND	ND	ND	48
WS25-23	0-2	February 21, 2025	ND	ND	ND	ND	ND	ND	ND	16
WS25-24	0-2	February 21, 2025	ND	ND	ND	ND	ND	ND	ND	16
WS25-25	2-3	February 21, 2025	ND	ND	ND	ND	ND	ND	ND	16
WS25-26	2-3	February 21, 2025	ND	ND	ND	ND	ND	ND	ND	16
WS25-27	0-2	February 21, 2025	ND	ND	ND	ND	ND	ND	ND	208
BackFill	-	February 21, 2025	ND	ND	ND	ND	ND	ND	ND	240
TopSoil	-	February 21, 2025	ND	ND	ND	ND	ND	ND	ND	16

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

Bold and grey shaded indicates exceedance outside of NMOCD Remediation Closure Criteria

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



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

APPENDIX A - Closure Criteria Research Documentation

APPENDIX B – Daily Field and Sampling Report(s)

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



December 03, 2024

CHAD HENSLEY
VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: BRUSHY DRAW 30-31

Enclosed are the results of analyses for samples received by the laboratory on 11/25/24 16:22.

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

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

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

Celey D. Keene

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: 11/25/2024 Reported: 12/03/2024

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -01 @ 0' (H247231-01)

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	11/28/2024	ND	2.27	113	2.00	6.17	
Toluene*	<0.050	0.050	11/28/2024	ND	2.18	109	2.00	9.55	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.29	114	2.00	12.8	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.80	113	6.00	13.4	
Total BTEX	<0.300	0.300	11/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/27/2024	ND	416	104	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	11/27/2024	ND	206	103	200	1.25	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	217	108	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

Applyand By 14

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Celey D. Keene



Analytical Results For:

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

Received: 11/25/2024 Sampling Date: 11/22/2024

Reported: 12/03/2024 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 Sampling Condition: Cool & Intact
Project Number: 24E-04918 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BH24 -01 @ 2' (H247231-02)

BTEX 8021B

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/28/2024	ND	2.27	113	2.00	6.17	
Toluene*	<0.050	0.050	11/28/2024	ND	2.18	109	2.00	9.55	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.29	114	2.00	12.8	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.80	113	6.00	13.4	
Total BTEX	<0.300	0.300	11/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/27/2024	ND	416	104	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	11/27/2024	ND	206	103	200	1.25	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	217	108	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: **BRUSHY DRAW 30-31**

Project Number: 24E-04918

Project Location: XTO Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -01 @ 4' (H247231-03)

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	11/28/2024	ND	2.27	113	2.00	6.17	
Toluene*	<0.050	0.050	11/28/2024	ND	2.18	109	2.00	9.55	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.29	114	2.00	12.8	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.80	113	6.00	13.4	
Total BTEX	<0.300	0.300	11/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PH	110 9	% 71.5-13	4						

Surrogate: 4-Bromofluorobenze	ne (PID	110 %	71.5-134

mg,	mg/kg		Analyzed By: CT					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
32.0	16.0	11/27/2024	ND	416	104	400	3.92	
mg,	/kg	Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	11/27/2024	ND	206	103	200	1.25	
<10.0	10.0	11/27/2024	ND	217	108	200	2.69	
<10.0	10.0	11/27/2024	ND					
	Result 32.0 mg, Result <10.0 <10.0	Result Reporting Limit 32.0 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0	Result Reporting Limit Analyzed 32.0 16.0 11/27/2024 mg/kg Analyze Result Reporting Limit Analyzed <10.0	Result Reporting Limit Analyzed Method Blank 32.0 16.0 11/27/2024 ND mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank <10.0	Result Reporting Limit Analyzed Method Blank BS 32.0 16.0 11/27/2024 ND 416 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery 32.0 16.0 11/27/2024 ND 416 104 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 32.0 16.0 11/27/2024 ND 416 104 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 32.0 16.0 11/27/2024 ND 416 104 400 3.92 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

Surrogate: 1-Chlorooctane 111 % 48.2-134 Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene



Analytical Results For:

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

Received: 11/25/2024

 Reported:
 12/03/2024
 Sam

 Project Name:
 BRUSHY DRAW 30-31
 Sam

mg/kg

Project Name: BRUSHY DRAW 30-Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024
Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Alyssa Parras

Sample ID: BH24 -02 @ 0' (H247231-04)

BTEX 8021B

DILX GOZID	iiig/	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/28/2024	ND	2.27	113	2.00	6.17	
Toluene*	<0.050	0.050	11/28/2024	ND	2.18	109	2.00	9.55	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.29	114	2.00	12.8	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.80	113	6.00	13.4	
Total BTEX	<0.300	0.300	11/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/27/2024	ND	416	104	400	3.92	
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	11/27/2024	ND	206	103	200	1.25	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	217	108	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	112 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

BTEX 8021B

Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -02 @ 2' (H247231-05)

DILX GOZID	ilig/	- Kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/28/2024	ND	2.27	113	2.00	6.17	
Toluene*	<0.050	0.050	11/28/2024	ND	2.18	109	2.00	9.55	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.29	114	2.00	12.8	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.80	113	6.00	13.4	
Total BTEX	<0.300	0.300	11/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/27/2024	ND	416	104	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	11/27/2024	ND	206	103	200	1.25	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	217	108	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: **BRUSHY DRAW 30-31**

Project Number: 24E-04918

Project Location: XTO Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -02 @ 4' (H247231-06)

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	11/28/2024	ND	2.27	113	2.00	6.17	
Toluene*	<0.050	0.050	11/28/2024	ND	2.18	109	2.00	9.55	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.29	114	2.00	12.8	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.80	113	6.00	13.4	
Total BTEX	<0.300	0.300	11/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/27/2024	ND	416	104	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	11/27/2024	ND	206	103	200	1.25	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	217	108	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	115 %	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

BTEX 8021B

Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -03 @ 0' (H247231-07)

DILX GOZID	11197	9	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/28/2024	ND	2.27	113	2.00	6.17	
Toluene*	<0.050	0.050	11/28/2024	ND	2.18	109	2.00	9.55	
Ethylbenzene*	< 0.050	0.050	11/28/2024	ND	2.29	114	2.00	12.8	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.80	113	6.00	13.4	
Total BTEX	<0.300	0.300	11/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/27/2024	ND	416	104	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	11/27/2024	ND	206	103	200	1.25	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	217	108	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: **BRUSHY DRAW 30-31**

Project Number: 24E-04918

Project Location: XTO Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -03 @ 2' (H247231-08)

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	11/28/2024	ND	1.98	99.1	2.00	5.12	
Toluene*	<0.050	0.050	11/28/2024	ND	1.94	96.8	2.00	8.20	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.09	104	2.00	8.72	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.41	107	6.00	9.40	
Total BTEX	<0.300	0.300	11/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	206	103	200	1.25	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	217	108	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: **BRUSHY DRAW 30-31**

Project Number: 24E-04918

Project Location: XTO Sampling Date: 11/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

Sample ID: BH24 -03 @ 4' (H247231-09)

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	11/28/2024	ND	1.98	99.1	2.00	5.12	
Toluene*	< 0.050	0.050	11/28/2024	ND	1.94	96.8	2.00	8.20	
Ethylbenzene*	< 0.050	0.050	11/28/2024	ND	2.09	104	2.00	8.72	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.41	107	6.00	9.40	
Total BTEX	<0.300	0.300	11/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	206	103	200	1.25	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	217	108	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: **BRUSHY DRAW 30-31**

Project Number: 24E-04918

Project Location: XTO Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -04 @ 0' (H247231-10)

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	11/28/2024	ND	1.98	99.1	2.00	5.12	
Toluene*	<0.050	0.050	11/28/2024	ND	1.94	96.8	2.00	8.20	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.09	104	2.00	8.72	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.41	107	6.00	9.40	
Total BTEX	<0.300	0.300	11/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 %	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	206	103	200	1.25	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	217	108	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	102 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 %	6 49.1-14	8						

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: **BRUSHY DRAW 30-31**

Project Number: 24E-04918

Project Location: XTO Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -04 @ 2' (H247231-11)

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	11/28/2024	ND	1.98	99.1	2.00	5.12	
Toluene*	<0.050	0.050	11/28/2024	ND	1.94	96.8	2.00	8.20	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.09	104	2.00	8.72	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.41	107	6.00	9.40	
Total BTEX	<0.300	0.300	11/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	206	103	200	1.25	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	217	108	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	98.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -04 @ 4' (H247231-12)

RTFY 8021R

B1EX 8021B	mg,	r Kg	Апатуге	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/28/2024	ND	1.98	99.1	2.00	5.12	
Toluene*	<0.050	0.050	11/28/2024	ND	1.94	96.8	2.00	8.20	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.09	104	2.00	8.72	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.41	107	6.00	9.40	
Total BTEX	<0.300	0.300	11/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	206	103	200	1.25	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	217	108	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: BRUSHY DRAW 30-31

mg/kg

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Alyssa Parras

Sample ID: BH24 -05 @ 0' (H247231-13)

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	11/28/2024	ND	1.98	99.1	2.00	5.12	
Toluene*	<0.050	0.050	11/28/2024	ND	1.94	96.8	2.00	8.20	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.09	104	2.00	8.72	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.41	107	6.00	9.40	
Total BTEX	<0.300	0.300	11/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	12/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	206	103	200	1.25	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	217	108	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

Analyzed By: JH

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Celey D. Keene



Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: **BRUSHY DRAW 30-31**

Project Number: 24E-04918

Project Location: XTO Sampling Date: 11/22/2024

Sampling Type: Soil

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

mg/kg

Sample ID: BH24 -05 @ 2' (H247231-14)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/28/2024	ND	1.98	99.1	2.00	5.12	
Toluene*	<0.050	0.050	11/28/2024	ND	1.94	96.8	2.00	8.20	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.09	104	2.00	8.72	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.41	107	6.00	9.40	
Total BTEX	<0.300	0.300	11/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	12/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	206	103	200	1.25	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	217	108	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

Analyzed By: JH

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Celey D. Keene



Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: BRUSHY DRAW 30-31

mg/kg

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -05 @ 4' (H247231-15)

BTEX 8021B

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Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/28/2024	ND	1.98	99.1	2.00	5.12	
Toluene*	<0.050	0.050	11/28/2024	ND	1.94	96.8	2.00	8.20	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.09	104	2.00	8.72	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.41	107	6.00	9.40	
Total BTEX	<0.300	0.300	11/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	206	103	200	1.25	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	217	108	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

Analyzed By: JH

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Celey & Keene



Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: BRUSHY DRAW 30-31

mg/kg

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -06 @ 0' (H247231-16)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/28/2024	ND	1.98	99.1	2.00	5.12	
Toluene*	<0.050	0.050	11/28/2024	ND	1.94	96.8	2.00	8.20	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.09	104	2.00	8.72	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.41	107	6.00	9.40	
Total BTEX	<0.300	0.300	11/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	223	112	200	4.21	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	202	101	200	6.18	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	98.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -06 @ 2' (H247231-17)

RTFY 8021R

mg/kg		Analyzed By: JH						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	11/28/2024	ND	1.98	99.1	2.00	5.12	
<0.050	0.050	11/28/2024	ND	1.94	96.8	2.00	8.20	
<0.050	0.050	11/28/2024	ND	2.09	104	2.00	8.72	
<0.150	0.150	11/28/2024	ND	6.41	107	6.00	9.40	
<0.300	0.300	11/28/2024	ND					
111 9	% 71.5-13	4						
mg/kg		Analyzed By: KV						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
80.0	16.0	12/02/2024	ND	432	108	400	0.00	
mg/	'kg	Analyze	d By: ms					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	11/27/2024	ND	223	112	200	4.21	
<10.0	10.0	11/27/2024	ND	202	101	200	6.18	
<10.0	10.0	11/27/2024	ND					
99.2	% 48.2-13	4						
104 9	% 49.1-14	8						
	<0.050 <0.050 <0.050 <0.150 <0.300 111 9 mg/ Result 80.0 mg/ Result <10.0 <10.0 <99.2 9	<0.050 <0.050 <0.050 <0.050 <0.050 <0.150 <0.300 0.300 111 % 71.5-13 mg/kg Result Reporting Limit 80.0 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0 <10.0 10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Applyzod By: 14

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Celeg D. Freene



Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: BRUSHY DRAW 30-31

mg/kg

112 %

49.1-148

Project Number: 24E-04918

Project Location: XTO

BTEX 8021B

Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -06 @ 4' (H247231-18)

		9							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/28/2024	ND	1.98	99.1	2.00	5.12	
Toluene*	<0.050	0.050	11/28/2024	ND	1.94	96.8	2.00	8.20	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.09	104	2.00	8.72	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.41	107	6.00	9.40	
Total BTEX	<0.300	0.300	11/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	223	112	200	4.21	
DRO >C10-C28*	140	10.0	11/27/2024	ND	202	101	200	6.18	
EXT DRO >C28-C36	36.8	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	97.3 9	% 48.2-13							

Analyzed By: JH

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Surrogate: 1-Chlorooctadecane



Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Reported: 12/03/2024 Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Alyssa Parras

Sample ID: BH24 -07 @ 0' (H247231-19)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/28/2024	ND	1.98	99.1	2.00	5.12	
Toluene*	<0.050	0.050	11/28/2024	ND	1.94	96.8	2.00	8.20	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.09	104	2.00	8.72	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.41	107	6.00	9.40	
Total BTEX	<0.300	0.300	11/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	223	112	200	4.21	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	202	101	200	6.18	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	89.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.8	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: **BRUSHY DRAW 30-31**

Project Number: 24E-04918

Project Location: XTO Sampling Date: 11/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

Sample ID: BH24 -07 @ 2' (H247231-20)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/28/2024	ND	1.98	99.1	2.00	5.12	
Toluene*	<0.050	0.050	11/28/2024	ND	1.94	96.8	2.00	8.20	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.09	104	2.00	8.72	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.41	107	6.00	9.40	
Total BTEX	<0.300	0.300	11/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	223	112	200	4.21	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	202	101	200	6.18	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	98.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

Applyzod By: 14

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Celeg D. Freene



Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -07 @ 4' (H247231-21)

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	11/28/2024	ND	1.98	99.1	2.00	5.12	
Toluene*	<0.050	0.050	11/28/2024	ND	1.94	96.8	2.00	8.20	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.09	104	2.00	8.72	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.41	107	6.00	9.40	
Total BTEX	<0.300	0.300	11/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	223	112	200	4.21	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	202	101	200	6.18	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	99.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

Applyzod By: 14

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11/22/2024

Sampling Date:

Analytical Results For:

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

Received: 11/25/2024

mg/kg

Reported: 12/03/2024 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 Sampling Condition: Cool & Intact
Project Number: 24E-04918 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BH24 -08 @ 0' (H247231-22)

BTEX 8021B

DIEX GOZID	ıııg,	K9	Alldiyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/28/2024	ND	1.98	99.1	2.00	5.12	
Toluene*	<0.050	0.050	11/28/2024	ND	1.94	96.8	2.00	8.20	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.09	104	2.00	8.72	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.41	107	6.00	9.40	
Total BTEX	<0.300	0.300	11/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	ed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	223	112	200	4.21	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	202	101	200	6.18	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	74.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.0	% 49.1-14	8						

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -08 @ 2' (H247231-23)

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	11/28/2024	ND	1.98	99.1	2.00	5.12	
Toluene*	<0.050	0.050	11/28/2024	ND	1.94	96.8	2.00	8.20	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.09	104	2.00	8.72	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.41	107	6.00	9.40	
Total BTEX	<0.300	0.300	11/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	223	112	200	4.21	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	202	101	200	6.18	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	82.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.2	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: **BRUSHY DRAW 30-31**

Project Number: 24E-04918

Project Location: XTO Sampling Date: 11/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

Sample ID: BH24 -08 @ 4' (H247231-24)

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	11/28/2024	ND	1.98	99.1	2.00	5.12	
Toluene*	<0.050	0.050	11/28/2024	ND	1.94	96.8	2.00	8.20	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.09	104	2.00	8.72	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.41	107	6.00	9.40	
Total BTEX	<0.300	0.300	11/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	223	112	200	4.21	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	202	101	200	6.18	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	76.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.4	% 49.1-14	8						

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -09 @ 0' (H247231-25)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/28/2024	ND	1.98	99.1	2.00	5.12	
Toluene*	<0.050	0.050	11/28/2024	ND	1.94	96.8	2.00	8.20	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.09	104	2.00	8.72	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.41	107	6.00	9.40	
Total BTEX	<0.300	0.300	11/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	223	112	200	4.21	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	202	101	200	6.18	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	75.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.0	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -09 @ 2' (H247231-26)

RTFY 8021R

Reporting Limit 0.050	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	01:6:
0.050				75 110007017	True value QC	KPD	Qualifier
	11/28/2024	ND	1.98	99.1	2.00	5.12	
0.050	11/28/2024	ND	1.94	96.8	2.00	8.20	
0.050	11/28/2024	ND	2.09	104	2.00	8.72	
0.150	11/28/2024	ND	6.41	107	6.00	9.40	
0.300	11/28/2024	ND					
71.5-13	34						
g/kg	Analyze	Analyzed By: KV					
Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
16.0	12/02/2024	ND	432	108	400	0.00	
g/kg	Analyze	d By: ms					
Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
10.0	11/27/2024	ND	223	112	200	4.21	
10.0	11/27/2024	ND	202	101	200	6.18	
10.0	11/27/2024	ND					
5% 48.2-13	34						
	16.0 g/kg Reporting Limit 10.0 10.0 10.0	16.0 12/02/2024 g/kg Analyze Reporting Limit Analyzed 10.0 11/27/2024 10.0 11/27/2024 10.0 11/27/2024	16.0 12/02/2024 ND g/kg Analyzed By: ms Reporting Limit Analyzed Method Blank 10.0 11/27/2024 ND 10.0 11/27/2024 ND 10.0 11/27/2024 ND	16.0 12/02/2024 ND 432 g/kg Analyzed By: ms Reporting Limit Analyzed Method Blank BS 10.0 11/27/2024 ND 223 10.0 11/27/2024 ND 202 10.0 11/27/2024 ND	16.0 12/02/2024 ND 432 108 g/kg Analyzed By: ms Reporting Limit Analyzed Method Blank BS % Recovery 10.0 11/27/2024 ND 223 112 10.0 11/27/2024 ND 202 101 10.0 11/27/2024 ND	16.0 12/02/2024 ND 432 108 400 g/kg Analyzed By: ms Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 10.0 11/27/2024 ND 223 112 200 10.0 11/27/2024 ND 202 101 200 10.0 11/27/2024 ND	16.0 12/02/2024 ND 432 108 400 0.00 g/kg Analyzed By: ms Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 10.0 11/27/2024 ND 223 112 200 4.21 10.0 11/27/2024 ND 202 101 200 6.18 10.0 11/27/2024 ND

Applyzod By: 14

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: **BRUSHY DRAW 30-31**

Project Number: 24E-04918

Project Location: XTO Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -09 @ 4' (H247231-27)

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	11/28/2024	ND	1.98	99.1	2.00	5.12	
Toluene*	<0.050	0.050	11/28/2024	ND	1.94	96.8	2.00	8.20	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.09	104	2.00	8.72	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.41	107	6.00	9.40	
Total BTEX	<0.300	0.300	11/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	223	112	200	4.21	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	202	101	200	6.18	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	78.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.4	% 49.1-14	8						

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

mg/kg

Project Name: **BRUSHY DRAW 30-31**

Project Number: 24E-04918

Project Location: XTO Sampling Date: 11/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Alyssa Parras

Sample ID: BH24 -10 @ 0' (H247231-28)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2024	ND	2.09	105	2.00	5.49	
Toluene*	<0.050	0.050	11/29/2024	ND	1.99	99.3	2.00	5.24	
Ethylbenzene*	<0.050	0.050	11/29/2024	ND	2.00	99.8	2.00	4.34	
Total Xylenes*	<0.150	0.150	11/29/2024	ND	5.96	99.3	6.00	4.12	
Total BTEX	<0.300	0.300	11/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 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	12/03/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	223	112	200	4.21	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	202	101	200	6.18	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	62.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	62.6	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

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

Received: 11/25/2024 Sampling Date: 11/22/2024

Reported: 12/03/2024 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 Sampling Condition: Cool & Intact
Project Number: 24E-04918 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BH24 -10 @ 2' (H247231-29)

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	11/29/2024	ND	2.09	105	2.00	5.49	
Toluene*	<0.050	0.050	11/29/2024	ND	1.99	99.3	2.00	5.24	
Ethylbenzene*	<0.050	0.050	11/29/2024	ND	2.00	99.8	2.00	4.34	
Total Xylenes*	<0.150	0.150	11/29/2024	ND	5.96	99.3	6.00	4.12	
Total BTEX	<0.300	0.300	11/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 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	48.0	16.0	12/03/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	223	112	200	4.21	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	202	101	200	6.18	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	78.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.6	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: **BRUSHY DRAW 30-31**

Project Number: 24E-04918

Project Location: XTO Sampling Date: 11/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

Sample ID: BH24 -10 @ 4' (H247231-30)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2024	ND	2.09	105	2.00	5.49	
Toluene*	<0.050	0.050	11/29/2024	ND	1.99	99.3	2.00	5.24	
Ethylbenzene*	<0.050	0.050	11/29/2024	ND	2.00	99.8	2.00	4.34	
Total Xylenes*	<0.150	0.150	11/29/2024	ND	5.96	99.3	6.00	4.12	
Total BTEX	<0.300	0.300	11/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 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	12/03/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	223	112	200	4.21	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	202	101	200	6.18	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	78.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.4	% 49.1-14	8						

Analyzed By: JH

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Celey D. Keene



Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -11 @ 0' (H247231-31)

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	11/29/2024	ND	2.09	105	2.00	5.49	
Toluene*	<0.050	0.050	11/29/2024	ND	1.99	99.3	2.00	5.24	
Ethylbenzene*	<0.050	0.050	11/29/2024	ND	2.00	99.8	2.00	4.34	
Total Xylenes*	<0.150	0.150	11/29/2024	ND	5.96	99.3	6.00	4.12	
Total BTEX	<0.300	0.300	11/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 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	96.0	16.0	12/03/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	223	112	200	4.21	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	202	101	200	6.18	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	73.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.3	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -11 @ 2' (H247231-32)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2024	ND	2.09	105	2.00	5.49	
Toluene*	< 0.050	0.050	11/29/2024	ND	1.99	99.3	2.00	5.24	
Ethylbenzene*	< 0.050	0.050	11/29/2024	ND	2.00	99.8	2.00	4.34	
Total Xylenes*	<0.150	0.150	11/29/2024	ND	5.96	99.3	6.00	4.12	
Total BTEX	<0.300	0.300	11/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 71.5-13-	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Chloride, SM4500CI-B Analyte	mg/ Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
·			<u> </u>		BS 432	% Recovery	True Value QC	RPD 0.00	Qualifier
Analyte	Result	Reporting Limit	Analyzed 12/03/2024	Method Blank			•		Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 12/03/2024	Method Blank			•		Qualifier Qualifier
Analyte Chloride TPH 8015M	Result 16.0 mg/	Reporting Limit 16.0	Analyzed 12/03/2024 Analyze	Method Blank ND d By: ms	432	108	400	0.00	
Analyte Chloride TPH 8015M Analyte	Result 16.0 mg/	Reporting Limit 16.0 kg Reporting Limit	Analyzed 12/03/2024 Analyzed Analyzed	Method Blank ND d By: ms Method Blank	432 BS	108 % Recovery	400 True Value QC	0.00	

Analyzed By: JH

Surrogate: 1-Chlorooctane 76.7 % 48.2-134
Surrogate: 1-Chlorooctadecane 74.8 % 49.1-148

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -11 @ 4' (H247231-33)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2024	ND	2.09	105	2.00	5.49	
Toluene*	<0.050	0.050	11/29/2024	ND	1.99	99.3	2.00	5.24	
Ethylbenzene*	<0.050	0.050	11/29/2024	ND	2.00	99.8	2.00	4.34	
Total Xylenes*	<0.150	0.150	11/29/2024	ND	5.96	99.3	6.00	4.12	
Total BTEX	<0.300	0.300	11/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 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	32.0	16.0	12/03/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	223	112	200	4.21	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	202	101	200	6.18	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	75.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.9	% 49.1-14	8						

Analyzed By: JH

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11/22/2024

Analytical Results For:

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

Received: 11/25/2024 Sampling Date:

Reported: 12/03/2024 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 Sampling Condition: Cool & Intact
Project Number: 24E-04918 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BH24 -12 @ 0' (H247231-34)

mg/kg

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	11/29/2024	ND	2.09	105	2.00	5.49	
Toluene*	<0.050	0.050	11/29/2024	ND	1.99	99.3	2.00	5.24	
Ethylbenzene*	<0.050	0.050	11/29/2024	ND	2.00	99.8	2.00	4.34	
Total Xylenes*	<0.150	0.150	11/29/2024	ND	5.96	99.3	6.00	4.12	
Total BTEX	<0.300	0.300	11/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 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	80.0	16.0	12/03/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	223	112	200	4.21	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	202	101	200	6.18	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	72.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.4	% 49.1-14	8						

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: **BRUSHY DRAW 30-31**

Project Number: 24E-04918

Project Location: XTO Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -12 @ 2' (H247231-35)

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	11/29/2024	ND	2.09	105	2.00	5.49	
Toluene*	<0.050	0.050	11/29/2024	ND	1.99	99.3	2.00	5.24	
Ethylbenzene*	<0.050	0.050	11/29/2024	ND	2.00	99.8	2.00	4.34	
Total Xylenes*	<0.150	0.150	11/29/2024	ND	5.96	99.3	6.00	4.12	
Total BTEX	<0.300	0.300	11/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 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	12/03/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	223	112	200	4.21	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	202	101	200	6.18	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	75.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.5	% 49.1-14	8						

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: **BRUSHY DRAW 30-31**

24E-04918 Project Number:

Project Location: XTO Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -12 @ 4' (H247231-36)

BTEX 8021B	mg/	mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2024	ND	2.09	105	2.00	5.49	
Toluene*	<0.050	0.050	11/29/2024	ND	1.99	99.3	2.00	5.24	
Ethylbenzene*	<0.050	0.050	11/29/2024	ND	2.00	99.8	2.00	4.34	
Total Xylenes*	<0.150	0.150	11/29/2024	ND	5.96	99.3	6.00	4.12	
Total BTEX	< 0.300	0.300	11/29/2024	ND					

Surrogate: 4-Bromofluorobenzene	(PID	98.6 %	71.5-134

Chloride, SM4500CI-B Analyte	mg/kg		Analyzed By: AC						
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/03/2024	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	209	104	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	214	107	200	6.15	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134 Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918
Project Location: XTO

 11/25/2024
 Sampling Date:
 11/22/2024

 12/03/2024
 Sampling Type:
 Soil

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

7.10

Sample ID: BH24 -13 @ 0' (H247231-37)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2024	ND	2.09	105	2.00	5.49	
Toluene*	<0.050	0.050	11/29/2024	ND	1.99	99.3	2.00	5.24	
Ethylbenzene*	<0.050	0.050	11/29/2024	ND	2.00	99.8	2.00	4.34	
Total Xylenes*	<0.150	0.150	11/29/2024	ND	5.96	99.3	6.00	4.12	
Total BTEX	<0.300	0.300	11/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 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	1230	16.0	12/03/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	209	104	200	5.52	
DRO >C10-C28*	1670	10.0	11/27/2024	ND	214	107	200	6.15	
EXT DRO >C28-C36	411	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	66.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.9	% 49.1-14	8						

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -13 @ 2' (H247231-38)

RTFY 8021R

B1EX 8021B	mg	^и кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2024	ND	2.09	105	2.00	5.49	
Toluene*	<0.050	0.050	11/29/2024	ND	1.99	99.3	2.00	5.24	
Ethylbenzene*	<0.050	0.050	11/29/2024	ND	2.00	99.8	2.00	4.34	
Total Xylenes*	<0.150	0.150	11/29/2024	ND	5.96	99.3	6.00	4.12	
Total BTEX	<0.300	0.300	11/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	2280	16.0	12/03/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.6	10.0	11/27/2024	ND	209	104	200	5.52	
DRO >C10-C28*	784	10.0	11/27/2024	ND	214	107	200	6.15	
EXT DRO >C28-C36	140	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	82.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.7	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -13 @ 4' (H247231-39)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2024	ND	2.09	105	2.00	5.49	
Toluene*	<0.050	0.050	12/03/2024	ND	1.99	99.3	2.00	5.24	
Ethylbenzene*	<0.050	0.050	12/03/2024	ND	2.00	99.8	2.00	4.34	GC-NC
Total Xylenes*	<0.150	0.150	12/03/2024	ND	5.96	99.3	6.00	4.12	GC-NC
Total BTEX	<0.300	0.300	12/03/2024	ND					GC-NC
Surrogate: 4-Bromofluorobenzene (PID	122	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	12/03/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	26.6	10.0	11/27/2024	ND	209	104	200	5.52	
DRO >C10-C28*	500	10.0	11/27/2024	ND	214	107	200	6.15	
EXT DRO >C28-C36	73.8	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	92.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Reported: 12/03/2024 Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

BTEX 8021B

Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -14 @ 0' (H247231-40)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2024	ND	2.09	105	2.00	5.49	
Toluene*	<0.050	0.050	11/29/2024	ND	1.99	99.3	2.00	5.24	
Ethylbenzene*	<0.050	0.050	11/29/2024	ND	2.00	99.8	2.00	4.34	
Total Xylenes*	<0.150	0.150	11/29/2024	ND	5.96	99.3	6.00	4.12	
Total BTEX	<0.300	0.300	11/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 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	208	16.0	12/03/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	209	104	200	5.52	
	-10.0	10.0	11/27/2024	ND	214	107	200	6.15	
DRO >C10-C28*	<10.0	10.0	11, 2, , 202 .						
DRO >C10-C28* EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					

Analyzed By: JH

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -14 @ 2' (H247231-41)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2024	ND	2.09	105	2.00	5.49	
Toluene*	<0.050	0.050	11/29/2024	ND	1.99	99.3	2.00	5.24	
Ethylbenzene*	<0.050	0.050	11/29/2024	ND	2.00	99.8	2.00	4.34	
Total Xylenes*	<0.150	0.150	11/29/2024	ND	5.96	99.3	6.00	4.12	
Total BTEX	<0.300	0.300	11/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/03/2024	ND	432	108	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	11/27/2024	ND	209	104	200	5.52	
DRO >C10-C28*	17.5	10.0	11/27/2024	ND	214	107	200	6.15	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	75.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.5	% 49.1-14	0						

Analyzed By: JH

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11/22/2024

Analytical Results For:

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

Received: 11/25/2024 Sampling Date:

Reported: 12/03/2024 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 Sampling Condition: Cool & Intact
Project Number: 24E-04918 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BH24 -14 @ 4' (H247231-42)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2024	ND	2.09	105	2.00	5.49	
Toluene*	<0.050	0.050	11/29/2024	ND	1.99	99.3	2.00	5.24	
Ethylbenzene*	<0.050	0.050	11/29/2024	ND	2.00	99.8	2.00	4.34	
Total Xylenes*	<0.150	0.150	11/29/2024	ND	5.96	99.3	6.00	4.12	
Total BTEX	<0.300	0.300	11/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 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	16.0	16.0	12/03/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	209	104	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	214	107	200	6.15	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	78.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.3	% 49.1-14	8						

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -15 @ 0' (H247231-43)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2024	ND	2.09	105	2.00	5.49	
Toluene*	<0.050	0.050	11/29/2024	ND	1.99	99.3	2.00	5.24	
Ethylbenzene*	<0.050	0.050	11/29/2024	ND	2.00	99.8	2.00	4.34	
Total Xylenes*	<0.150	0.150	11/29/2024	ND	5.96	99.3	6.00	4.12	
Total BTEX	<0.300	0.300	11/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 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	80.0	16.0	12/03/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	209	104	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	214	107	200	6.15	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	71.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.7	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Alyssa Parras

Sample ID: BH24 -15 @ 2' (H247231-44)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2024	ND	2.09	105	2.00	5.49	
Toluene*	<0.050	0.050	11/29/2024	ND	1.99	99.3	2.00	5.24	
Ethylbenzene*	<0.050	0.050	11/29/2024	ND	2.00	99.8	2.00	4.34	
Total Xylenes*	<0.150	0.150	11/29/2024	ND	5.96	99.3	6.00	4.12	
Total BTEX	<0.300	0.300	11/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 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	48.0	16.0	12/03/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	209	104	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	214	107	200	6.15	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	78.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.0	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: **BRUSHY DRAW 30-31**

Project Number: 24E-04918

Project Location: XTO Sampling Date: 11/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

Sample ID: BH24 -15 @ 4' (H247231-45)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2024	ND	2.09	105	2.00	5.49	
Toluene*	<0.050	0.050	11/29/2024	ND	1.99	99.3	2.00	5.24	
Ethylbenzene*	<0.050	0.050	11/29/2024	ND	2.00	99.8	2.00	4.34	
Total Xylenes*	<0.150	0.150	11/29/2024	ND	5.96	99.3	6.00	4.12	
Total BTEX	<0.300	0.300	11/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 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	16.0	16.0	12/03/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	209	104	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	214	107	200	6.15	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	75.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.5	% 49.1-14	8						

Analyzed By: JH

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Celey D. Keene



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11/22/2024

Analytical Results For:

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

Received: 11/25/2024 Sampling Date:

Reported: 12/03/2024 Sampling Type: Soil

Project Name: **BRUSHY DRAW 30-31** Sampling Condition: Cool & Intact Sample Received By: Project Number: 24E-04918 Alyssa Parras

Project Location: XTO

Sample ID: BH24 -16 @ 0' (H247231-46)

BTEX 8021B	mg/kg		Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2024	ND	2.09	105	2.00	5.49	
Toluene*	<0.050	0.050	11/29/2024	ND	1.99	99.3	2.00	5.24	
Ethylbenzene*	<0.050	0.050	11/29/2024	ND	2.00	99.8	2.00	4.34	GC-NC
Total Xylenes*	<0.150	0.150	11/29/2024	ND	5.96	99.3	6.00	4.12	GC-NC
Total BTEX	<0.300	0.300	11/29/2024	ND					GC-NC
Surrogate: 4-Bromofluorobenzene (PID	144 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	2520	16.0	12/03/2024	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	221	10.0	11/27/2024	ND	209	104	200	5.52	
DRO >C10-C28*	3880	10.0	11/27/2024	ND	214	107	200	6.15	
EXT DRO >C28-C36	497	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	123 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: **BRUSHY DRAW 30-31**

Project Number: 24E-04918

Project Location: XTO Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -16 @ 2' (H247231-47)

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	11/29/2024	ND	2.09	105	2.00	5.49	
Toluene*	<0.050	0.050	11/29/2024	ND	1.99	99.3	2.00	5.24	
Ethylbenzene*	<0.050	0.050	11/29/2024	ND	2.00	99.8	2.00	4.34	
Total Xylenes*	<0.150	0.150	11/29/2024	ND	5.96	99.3	6.00	4.12	
Total BTEX	<0.300	0.300	11/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 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	6800	16.0	12/03/2024	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	209	104	200	5.52	
DRO >C10-C28*	123	10.0	11/27/2024	ND	214	107	200	6.15	
EXT DRO >C28-C36	11.1	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	77.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.8	% 49.1-14	8						

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: BRUSHY DRAW 30-31

mg/kg

Project Number: 24E-04918

Project Location: XTO

BTEX 8021B

Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -16 @ 4' (H247231-48)

	9/	9	7	<u></u>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2024	ND	2.11	105	2.00	5.57	
Toluene*	<0.050	0.050	11/29/2024	ND	2.15	108	2.00	6.58	
Ethylbenzene*	<0.050	0.050	11/29/2024	ND	2.08	104	2.00	7.07	
Total Xylenes*	<0.150	0.150	11/29/2024	ND	6.53	109	6.00	6.96	
Total BTEX	<0.300	0.300	11/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	209	104	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	214	107	200	6.15	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	85.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.4	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

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

Received: 11/25/2024 Reported: 12/03/2024

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

Sample ID: BH24 -17 @ 0' (H247231-49)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2024	ND	2.11	105	2.00	5.57	
Toluene*	<0.050	0.050	11/29/2024	ND	2.15	108	2.00	6.58	
Ethylbenzene*	<0.050	0.050	11/29/2024	ND	2.08	104	2.00	7.07	
Total Xylenes*	<0.150	0.150	11/29/2024	ND	6.53	109	6.00	6.96	
Total BTEX	<0.300	0.300	11/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	209	104	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	214	107	200	6.15	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	81.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.2	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

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

Received: 11/25/2024 Sampling Date: 11/22/2024

Reported: 12/03/2024 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 Sampling Condition: Cool & Intact
Project Number: 24E-04918 Sample Received By: Alyssa Parras

Project Location: XTO

Sample ID: BH24 -17 @ 2' (H247231-50)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2024	ND	2.11	105	2.00	5.57	
Toluene*	<0.050	0.050	11/29/2024	ND	2.15	108	2.00	6.58	
Ethylbenzene*	<0.050	0.050	11/29/2024	ND	2.08	104	2.00	7.07	
Total Xylenes*	<0.150	0.150	11/29/2024	ND	6.53	109	6.00	6.96	
Total BTEX	<0.300	0.300	11/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	209	104	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	214	107	200	6.15	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	83.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.0	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 11/25/2024 Reported:

12/03/2024 Project Name: **BRUSHY DRAW 30-31**

Project Number: 24E-04918

Project Location: XTO Sampling Date: 11/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

Sample ID: BH24 -17 @ 4' (H247231-51)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2024	ND	2.11	105	2.00	5.57	
Toluene*	<0.050	0.050	11/29/2024	ND	2.15	108	2.00	6.58	
Ethylbenzene*	<0.050	0.050	11/29/2024	ND	2.08	104	2.00	7.07	
Total Xylenes*	<0.150	0.150	11/29/2024	ND	6.53	109	6.00	6.96	
Total BTEX	<0.300	0.300	11/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	209	104	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	214	107	200	6.15	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	82.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.3	% 49.1-14	8						

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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-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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av 30		State: NM ZIP 88000	MI
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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ADOPATORES
101 East Mariano, Hobbs, NM 88240

575 393-2326 FAX 575 393-2478

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100		Company: X/O
City CUNS bould State:	Ĭ.	Attn:
Phone #:		Address: 3104 & Greene
Project #: 246-84918 Project Owner	Amy Ruth	ons agrished
Project Name: BRUSHY DRAW 30-3		97588 diz w/N:state
Project Location:		Phone #
Sampler Name: R. 71099-6		Fax #:
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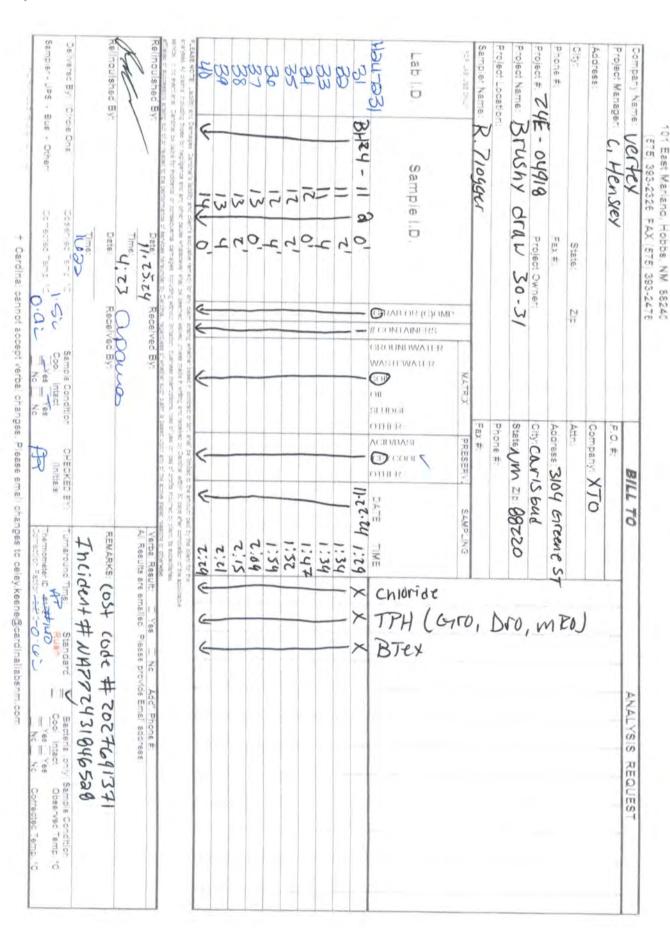
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Page 55 of 59

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Ve		ANALYSIS RECCES
Project Manager C. Hensky	P,O. #	
Address	Company: X70)
Oity: State: Zip:		0
E #	ADDRESS 3104 Greene ST	110
Project # 24E-04918 Project Owner Amy Ruth	city cards bad	٧
raw 30-31	State: NMZID: 88220	0,
Project Location		DI
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Mariand, Hobbs, NM 88240

ETE 383-2328 FAX (575) 383-2476

COMPANY NAME VCT+CX	BILL TO	ANALYSIS REQUEST
Project Manager C. Hensley	P.O. #	- 1
Address	Company: X/O	
Oity: State: Z	Zip: Attr:	
Faxe	ADDRESS 3104 Greene	
Project Name Brushy Dry 30-31	State: NM ZID 88220	
Project Location:		
Sampler Name: R. 710944		
	MATRIX PRESERV. SAMPLING	
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BILL TO P.O. #: Company: XTO Address: Joh Greensy City:CANIS bad State: // MZIp: 882.20 Phone #: Fax #: MATRIX PRESERV SAMPLING City:CANIS bad State: // MZIp: 882.20 Phone #: Fax #: MATRIX PRESERV SAMPLING I CITY:CANIS and the state of th
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Cnioride Cnioride TPH (Gro, Dro, MPO) ** ** ** ** ** ** ** ** **
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ANALYSIS REQUEST ANALYSIS REQUEST No Add'l Phone #: provide Email address: Provide Email address: Bacteria (only) Sample Condition

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February 19, 2025

CHAD HENSLEY

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: BRUSHY DRAW 30-31 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/17/25 12:30.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 02/17/2025 Reported:

02/19/2025

BRUSHY DRAW 30-31 FEDERAL BATTERY

Project Number: 24E-04918 (NORTH)

Project Location: XTO

Project Name:

Sampling Date: 02/16/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 45 2' (H250926-01)

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	02/17/2025	ND	2.09	105	2.00	2.93	
Toluene*	<0.050	0.050	02/17/2025	ND	2.14	107	2.00	0.346	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.16	108	2.00	0.00998	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	0.338	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/17/2025	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	02/17/2025	ND	202	101	200	2.93	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	188	93.8	200	3.99	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	94.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.1	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/17/2025 Reported: 02/19/2025

BRUSHY DRAW 30-31 FEDERAL BATTERY

Project Number: 24E-04918 (NORTH)

Project Location: XTO

Project Name:

Sampling Date: 02/16/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 46 2' (H250926-02)

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	02/17/2025	ND	2.09	105	2.00	2.93	
Toluene*	<0.050	0.050	02/17/2025	ND	2.14	107	2.00	0.346	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.16	108	2.00	0.00998	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	0.338	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/17/2025	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	02/17/2025	ND	202	101	200	2.93	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	188	93.8	200	3.99	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	96.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.7	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/17/2025 Sampling Date: 02/16/2025

Reported: 02/19/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: 24E-04918 (NORTH) Tamara Oldaker

Project Location: XTO

Sample ID: BS 25 - 47 2' (H250926-03)

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	02/17/2025	ND	2.09	105	2.00	2.93	
Toluene*	<0.050	0.050	02/17/2025	ND	2.14	107	2.00	0.346	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.16	108	2.00	0.00998	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	0.338	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/17/2025	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	02/17/2025	ND	202	101	200	2.93	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	188	93.8	200	3.99	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	98.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.6	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/17/2025 Reported: 02/19/2025

02/19/2025 Sampling Type:

Applyzod By: 14

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTERY

Project Number: 24E-04918 (NORTH)

Project Location: XTO

Sampling Date: 02/16/2025

npling Type: Soil

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

Sample ID: BS 25 - 48 2' (H250926-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2025	ND	2.09	105	2.00	2.93	
Toluene*	<0.050	0.050	02/17/2025	ND	2.14	107	2.00	0.346	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.16	108	2.00	0.00998	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	0.338	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/17/2025	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	02/17/2025	ND	202	101	200	2.93	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	188	93.8	200	3.99	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/17/2025 Reported: 02/19/2025

BRUSHY DRAW 30-31 FEDERAL BATTERY

Project Number: 24E-04918 (NORTH)

Project Location: XTO

Project Name:

Sampling Date: 02/16/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 49 1' (H250926-05)

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	02/17/2025	ND	2.09	105	2.00	2.93	
Toluene*	<0.050	0.050	02/17/2025	ND	2.14	107	2.00	0.346	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.16	108	2.00	0.00998	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	0.338	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	6 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	80.0	16.0	02/18/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	202	101	200	2.93	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	188	93.8	200	3.99	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	97.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.4	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/17/2025 Reported: 02/19/2025

BRUSHY DRAW 30-31 FEDERAL BATTERY

Project Name: BRUSHY DRAW 30-31
Project Number: 24E-04918 (NORTH)

Project Location: XTO

Sampling Date: 02/16/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 50 1' (H250926-06)

RTFY 8021R

BIEX 8021B	mg,	кg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2025	ND	2.09	105	2.00	2.93	
Toluene*	<0.050	0.050	02/17/2025	ND	2.14	107	2.00	0.346	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.16	108	2.00	0.00998	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	0.338	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 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	64.0	16.0	02/18/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	202	101	200	2.93	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	188	93.8	200	3.99	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

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

Received: 02/17/2025 Reported:

02/19/2025

BRUSHY DRAW 30-31 FEDERAL BATTERY

Project Number: 24E-04918 (NORTH)

Project Location: XTO

Project Name:

RTFY 8021R

Sampling Date: 02/16/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 51 1' (H250926-07)

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	02/17/2025	ND	2.09	105	2.00	2.93	
Toluene*	<0.050	0.050	02/17/2025	ND	2.14	107	2.00	0.346	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.16	108	2.00	0.00998	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	0.338	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 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	80.0	16.0	02/18/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	202	101	200	2.93	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	188	93.8	200	3.99	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	96.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.4	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

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

Received: 02/17/2025 Reported:

02/19/2025

BRUSHY DRAW 30-31 FEDERAL BATTERY 24E-04918 (NORTH)

Project Number: Project Location: XTO Sampling Date: 02/16/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 52 1' (H250926-08)

Project Name:

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	02/17/2025	ND	2.09	105	2.00	2.93	
Toluene*	<0.050	0.050	02/17/2025	ND	2.14	107	2.00	0.346	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.16	108	2.00	0.00998	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	0.338	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 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	02/18/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	202	101	200	2.93	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	188	93.8	200	3.99	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	95.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.9	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/17/2025 Reported: 02/19/2025

 02/17/2025
 Sampling Date:
 02/16/2025

 02/19/2025
 Sampling Type:
 Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTERY

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

Project Number: 24E-04918 (NORTH)

Project Location: XTO

Sample ID: BS 25 - 53 1' (H250926-09)

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	02/17/2025	ND	2.09	105	2.00	2.93	
Toluene*	<0.050	0.050	02/17/2025	ND	2.14	107	2.00	0.346	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.16	108	2.00	0.00998	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	0.338	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 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	02/18/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	202	101	200	2.93	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	188	93.8	200	3.99	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	99.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.4	% 49.1-14	8						

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Celey D. Kreine



Analytical Results For:

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

Received: 02/17/2025 Reported: 02/19/2025

BRUSHY DRAW 30-31 FEDERAL BATTERY

Project Name: BRUSHY DRAW 30-31
Project Number: 24E-04918 (NORTH)

Project Location: XTO

Sampling Date: 02/16/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 54 1' (H250926-10)

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	02/17/2025	ND	2.09	105	2.00	2.93	
Toluene*	<0.050	0.050	02/17/2025	ND	2.14	107	2.00	0.346	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.16	108	2.00	0.00998	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	0.338	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 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	<16.0	16.0	02/18/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	202	101	200	2.93	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	188	93.8	200	3.99	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	92.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.5	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 02/17/2025 Reported:

02/19/2025

BRUSHY DRAW 30-31 FEDERAL BATTERY 24E-04918 (NORTH)

Project Location: XTO

Project Name:

Project Number:

Sampling Date: 02/16/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 55 1' (H250926-11)

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	02/17/2025	ND	2.09	105	2.00	2.93	
Toluene*	<0.050	0.050	02/17/2025	ND	2.14	107	2.00	0.346	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.16	108	2.00	0.00998	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	0.338	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 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	80.0	16.0	02/18/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	190	94.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	171	85.4	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	89.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.0	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 02/17/2025 Reported: 02/19/2025

02/19/2025

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTERY
Project Number: 24E-04918 (NORTH)

Project Location: XTO

Sampling Date: 02/16/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 56 5' (H250926-12)

RTFY 8021R

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	02/17/2025	ND	2.09	105	2.00	2.93	
<0.050	0.050	02/17/2025	ND	2.14	107	2.00	0.346	
<0.050	0.050	02/17/2025	ND	2.16	108	2.00	0.00998	
<0.150	0.150	02/17/2025	ND	6.61	110	6.00	0.338	
<0.300	0.300	02/17/2025	ND					
110 9	71.5-13	4						
mg/	'kg	Analyzed By: AC						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
32.0	16.0	02/18/2025	ND	432	108	400	0.00	
mg/	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	02/17/2025	ND	190	94.8	200	8.81	
<10.0	10.0	02/17/2025	ND	171	85.4	200	14.8	
<10.0	10.0	02/17/2025	ND					
92.7	% 48.2-13	4						
90.4	% 49.1-14	8						
-	<0.050 <0.050 <0.050 <0.150 <0.300 110 9 mg/ Result 32.0 mg/ Result <10.0 <10.0 <92.7 9	<0.050 <0.050 <0.050 <0.050 <0.050 <0.150 <0.300 0.300 110 % 71.5-13 mg/kg Result Reporting Limit 32.0 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0 <48.2-13	<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: 02/17/2025 Reported: 02/19/2025

Reported: 02/19/2025

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTERY
Project Number: 24E-04918 (NORTH)

Project Location: XTO

BTEX 8021B

Sampling Date: 02/16/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 57 4' (H250926-13)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2025	ND	2.09	105	2.00	2.93	
Toluene*	<0.050	0.050	02/17/2025	ND	2.14	107	2.00	0.346	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.16	108	2.00	0.00998	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	0.338	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 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	80.0	16.0	02/18/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	190	94.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	171	85.4	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					

Analyzed By: JH

Surrogate: 1-Chlorooctane 85.9 % 48.2-134
Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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Analytical Results For:

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

Received: 02/17/2025 Reported: 02/19/2025

BRUSHY DRAW 30-31 FEDERAL BATTERY

Project Number: 24E-04918 (NORTH)

Project Location: XTO

Project Name:

RTFY 8021R

Sampling Date: 02/16/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 58 1.5' (H250926-14)

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	02/17/2025	ND	2.20	110	2.00	1.89	
Toluene*	<0.050	0.050	02/17/2025	ND	2.28	114	2.00	2.30	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.24	112	2.00	2.79	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	2.84	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 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	02/18/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	190	94.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	171	85.4	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	99.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.5	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

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

Received: 02/17/2025 Reported: 02/19/2025

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTERY

Project Number: 24E-04918 (NORTH)

Project Location: XTO Sampling Date: 02/16/2025

Sampling Type: Soil

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

Sample ID: WS 25 - 08 1.5-3' (H250926-15)

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	02/17/2025	ND	2.20	110	2.00	1.89	
Toluene*	<0.050	0.050	02/17/2025	ND	2.28	114	2.00	2.30	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.24	112	2.00	2.79	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	2.84	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 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	80.0	16.0	02/18/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	190	94.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	171	85.4	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	87.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.1	% 49.1-14	8						

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02/16/2025

Soil

Analytical Results For:

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

Received: 02/17/2025

Reported: 02/19/2025 Sampling Type:

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTERY Sampling Condition: Cool & Intact
Project Number: 24E-04918 (NORTH) Sample Received By: Tamara Oldaker

Sampling Date:

Project Location: XTO

Sample ID: WS 25 - 09 1.5-2' (H250926-16)

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	02/17/2025	ND	2.20	110	2.00	1.89	
Toluene*	<0.050	0.050	02/17/2025	ND	2.28	114	2.00	2.30	
Ethylbenzene*	< 0.050	0.050	02/17/2025	ND	2.24	112	2.00	2.79	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	2.84	
Total BTEX	<0.300	0.300	02/17/2025	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	80.0	16.0	02/18/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	190	94.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	171	85.4	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	90.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.2	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/17/2025 Reported:

02/19/2025

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTERY 24E-04918 (NORTH) Project Number:

Project Location: XTO Sampling Date: 02/16/2025

Sampling Type: Soil

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

Sample ID: WS 25 - 10 0-1.5' (H250926-17)

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	02/17/2025	ND	2.20	110	2.00	1.89	
Toluene*	<0.050	0.050	02/17/2025	ND	2.28	114	2.00	2.30	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.24	112	2.00	2.79	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	2.84	
Total BTEX	<0.300	0.300	02/17/2025	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	112	16.0	02/18/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	190	94.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	171	85.4	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	84.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.5	% 49.1-14	18						

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Celey D. Keene



Analytical Results For:

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

Received: 02/17/2025 Reported:

02/19/2025

mg/kg

BRUSHY DRAW 30-31 FEDERAL BATTERY Project Number: 24E-04918 (NORTH)

Project Location: XTO

Project Name:

BTEX 8021B

Sampling Date: 02/16/2025

Sampling Type: Soil

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

Sample ID: WS 25 - 11 0-1.5' (H250926-18)

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2025	ND	2.20	110	2.00	1.89	
Toluene*	<0.050	0.050	02/17/2025	ND	2.28	114	2.00	2.30	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.24	112	2.00	2.79	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	2.84	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/18/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	190	94.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	171	85.4	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	93.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.6	% 49.1-14	8						

Analyzed By: JH

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Celey D. Keene



Analytical Results For:

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

Received: 02/17/2025 Reported:

02/19/2025

mg/kg

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTERY Project Number: 24E-04918 (NORTH)

Project Location: XTO

BTEX 8021B

Sampling Date: 02/16/2025

Sampling Type: Soil

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

Sample ID: WS 25 - 12 0-1' (H250926-19)

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2025	ND	2.20	110	2.00	1.89	
Toluene*	<0.050	0.050	02/17/2025	ND	2.28	114	2.00	2.30	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.24	112	2.00	2.79	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	2.84	
Total BTEX	<0.300	0.300	02/17/2025	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	96.0	16.0	02/18/2025	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	190	94.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	171	85.4	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	93.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.9	% 49.1-14	8						

Analyzed By: JH

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Celecy D. Keene



Analytical Results For:

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

Received: 02/17/2025 Reported: 02/19/2025

02/19/2025 BRUSHY DRAW 30-31 FEDERAL BATTERY 24E-04918 (NORTH)

mg/kg

Project Location: XTO

Project Name:

BTEX 8021B

Project Number:

Sampling Date: 02/16/2025

Sampling Type: Soil

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

Sample ID: WS 25 - 13 0-1' (H250926-20)

	9/	9	7111411720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2025	ND	2.20	110	2.00	1.89	
Toluene*	<0.050	0.050	02/17/2025	ND	2.28	114	2.00	2.30	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.24	112	2.00	2.79	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	2.84	
Total BTEX	<0.300	0.300	02/17/2025	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	80.0	16.0	02/18/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	190	94.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	171	85.4	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	88.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.8	% 49.1-14	8						

Analyzed By: JH

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Celey D. Keene



Analytical Results For:

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

Received: 02/17/2025 Reported:

02/19/2025

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTERY Project Number: 24E-04918 (NORTH)

Project Location: XTO

RTFY 8021R

Sampling Date: 02/16/2025

Sampling Type: Soil

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

Sample ID: WS 25 - 14 0-1.5' (H250926-21)

B1EX 8021B	mg,	r Kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2025	ND	2.20	110	2.00	1.89	
Toluene*	<0.050	0.050	02/17/2025	ND	2.28	114	2.00	2.30	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.24	112	2.00	2.79	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	2.84	
Total BTEX	<0.300	0.300	02/17/2025	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	32.0	16.0	02/18/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	190	94.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	171	85.4	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	86.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.2	% 49.1-14	8						

Analyzed By: 14

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Celey D. Keene



Analytical Results For:

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

Received: 02/17/2025 Reported: 02/19/2025

BRUSHY DRAW 30-31 FEDERAL BATTERY

Project Number: 24E-04918 (NORTH)

Project Location: XTO

Project Name:

RTFY 8021R

Sampling Date: 02/16/2025

Sampling Type: Soil

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

Sample ID: WS 25 - 15 0-2' (H250926-22)

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	02/17/2025	ND	2.20	110	2.00	1.89	
Toluene*	<0.050	0.050	02/17/2025	ND	2.28	114	2.00	2.30	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.24	112	2.00	2.79	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	2.84	
Total BTEX	<0.300	0.300	02/17/2025	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	48.0	16.0	02/18/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	190	94.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	171	85.4	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	79.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.3	% 49.1-14	8						

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Analytical Results For:

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

02/17/2025 Received: Reported:

02/19/2025

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTERY 24E-04918 (NORTH) Project Number:

XTO Project Location:

Sampling Date: 02/16/2025

Sampling Type: Soil

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

Sample ID: WS 25 - 16 1-2' (H250926-23)

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	02/17/2025	ND	2.20	110	2.00	1.89	
Toluene*	<0.050	0.050	02/17/2025	ND	2.28	114	2.00	2.30	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.24	112	2.00	2.79	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	2.84	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 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	96.0	16.0	02/18/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	190	94.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	171	85.4	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	89.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.3	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 02/17/2025 Reported: 02/19/2025

02/19/2025

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTERY
Project Number: 24E-04918 (NORTH)

Project Location: XTO

RTFY 8021R

Sampling Date: 02/16/2025

Sampling Type: Soil

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

Sample ID: WS 25 - 17 0-1' (H250926-24)

BIEX 8021B	mg,	^и кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2025	ND	2.20	110	2.00	1.89	
Toluene*	<0.050	0.050	02/17/2025	ND	2.28	114	2.00	2.30	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.24	112	2.00	2.79	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	2.84	
Total BTEX	<0.300	0.300	02/17/2025	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	224	16.0	02/18/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	190	94.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	171	85.4	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	85.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.6	% 49.1-14	8						

Applyzod 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: 02/17/2025 Reported: 02/19/2025

BRUSHY DRAW 30-31 FEDERAL BATTERY

Project Number: 24E-04918 (NORTH)

mg/kg

Project Location: XTO

Project Name:

BTEX 8021B

Sampling Date: 02/16/2025

Sampling Type: Soil

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

Sample ID: WS 25 - 18 1-4' (H250926-25)

	9,	9	7	7 5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2025	ND	2.20	110	2.00	1.89	
Toluene*	<0.050	0.050	02/17/2025	ND	2.28	114	2.00	2.30	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.24	112	2.00	2.79	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	2.84	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/18/2025	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	02/17/2025	ND	190	94.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	171	85.4	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	96.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.4	% 49.1-14	8						

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: 02/17/2025 Reported: 02/19/2025

BRUSHY DRAW 30-31 FEDERAL BATTERY

Project Number: 24E-04918 (NORTH)

Project Location: XTO

Project Name:

Sampling Date: 02/16/2025

Sampling Type: Soil

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

Sample ID: WS 25 - 19 4-5' (H250926-26)

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	02/17/2025	ND	2.20	110	2.00	1.89	
Toluene*	<0.050	0.050	02/17/2025	ND	2.28	114	2.00	2.30	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.24	112	2.00	2.79	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	2.84	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/18/2025	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	02/17/2025	ND	190	94.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	171	85.4	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	92.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.8	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 02/17/2025 Sampling Date: 02/16/2025

Reported: 02/19/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: 24E-04918 (NORTH) Tamara Oldaker

Project Location: XTO

Sample ID: WS 25 - 20 0-1.5' (H250926-27)

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	02/17/2025	ND	2.20	110	2.00	1.89	
Toluene*	<0.050	0.050	02/17/2025	ND	2.28	114	2.00	2.30	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.24	112	2.00	2.79	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	2.84	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/18/2025	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	02/17/2025	ND	190	94.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	171	85.4	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	88.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.8	% 49.1-14	8						

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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

Company Name	Company Name: Vertex Resource Services (Direct Bill to XTO Energy, Inc.)	vices (Direct Bill to XT	O En	ergy	, Inc	-						0	BILL TO					ANALYSIS		REQUEST	TS				
Project Manager: Chad Hensley	r: Chad Hensley									P.O. #:	#				1	1	1	-		-11	_] ?		1		-
Address: 3101 Boyd Drive	Boyd Drive									Cor	npar	X.	Company: XTO Energy, Inc	nc.	_			_		_					_
City: Carlsbad	State: NM	Zip: 88220			- 1			- 1		Attr	11 00	lton	Attn: Colton Brown		_	0)		_		_					_
Phone #:	575.725.5001	001 Fax #:								Add	ress	31	Address: 3104 E. Greene St	St		иR				_			_		_
Project #: 25E-00017	0017	Project Owner: Colton Brown	ner: C	olto	n Br	nwo.				City	Ca	City: Carlsbad	ad		_	/ N				_					_
Project Name: B	Project Name: Brushy Draw 30-31 Federal Battery - North	eral Battery - North							\perp	State:	e:	Z	NM Zip:	88220	1)					_				_	
Project Location:										Pho	ne #	57	Phone #: 575-988-2390	00220	802	_	ide	_		_					
Sampler Name: L. Pullman	Pullman			ı				ı	\perp	1	1				(_	ori	_	_	_			_	_	
Complet Manie.	L. Fullindii									Fax #:	#				EX	-	hle	_		_			_	_	_
Lab I.D.					Т	11	MATRIX	믔	╛╽	-	PRESERV.	-ERV.	SAMPLING	LING	вті	_	C			_					
10001	Sample I.D.	ī.b.	RAB OR (C)OMP	CONTAINERS	OUNDWATER	STEWATER	IL		JDGE	D/BASE:		/COOL HER:				TPH:801									
1	BS25-45 2'		7	- 10	G	V	S	C	-	_	4		20.31.00	10.50	1		4	+	t	+	1		t	1	+
e	2 BS25-46 2'		0	_	+		×	7	4	+	+	+	02 16 25	10:45	/	X :	× ,	+	†	+	4		+	1	+
O1	3 BS25-47 2'		0	-	7		×	7	4	+	+	+	02.16.25	10:40	× ;	× ;	x ;	+	+	+	4		1	1	
P	4 BS25-48 2"		0	_			X		_	+	-	+	02.16.25	10:35	×	×	×	+	+	+	4		1	1	+
v	BS25-49 1'		C	-			×	\Box	_	+	-	7	02.16.25	10:30	×	×	X	+	1	+	4		1	1	+
6	BS25-50 1'		C	-			×	\neg	4	\dashv	-	+	02,16.25	10:20	×	×	×	+	†	+	4			+	+
7	BS25-51 1'		C	-	7		×		4	+	\dashv	7	02.16.25	10:15	×	×	×	+	1	+	4		1	1	+
00	BS25-52 1'		C	-			×	4	4	+	+	7	02.16.25	10:05	×	×	×	+	1	+	4		1	1	+
9	BS25-53 1'		0	1	П		×			\dashv	\dashv	\exists	02.16.25	10:00	×	×	X	-	1	+	4			-	1
PLEASE NOTE: Labelly and Dar	O BS25-54 1'	skie remedy for any claim arising whether	C	1	and or tent.	2	×			7	H	taid by the class for the leads	02.16.25	10:10	×	×	×	H	H	H	Н			Н	
ompleton of the applicable so affiliates or successors arising	competend of the applicable service. In no event shall Cardinal be liable for incidental or con- efficiates or successors areaing out of or related to the performance of services himsunder by	the for incommendate or commendate demands, including elfocal ferbation, business interruptions, loss of use, or loss of profits incoming the commendate by Cardinal, regardless of whether auch claim is based upon any of the above stated reasons or otherwise.	ages, inc	whethe	without such	imtato dam a	based	400 a	A p th	e abovi	states	reasor	recountal damages, including effoot innation, business etemptions, loss of use, or loss of profits incurred by client its subsidiaries. Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	clent its subsidiarie					2	100	-	9	Lectored by Caronia	of Lings	oays arren
Ruinquished By:	Mia	Date: 1-17130	Rec	Received By	d B	lo x		60	11.	A	1	de	A STATE OF THE PROPERTY OF THE	Verbal Result: ☐ Yes ☐ No	Results (CHen	Yes [ts: nsley@ve	□ No	Add'	Add'I Phone #: n), Lakin Pullma	man (I	pulli	man@	ertexre	source.com	i), Andrew
Relinquished By:		Time:	Rec	Received By:	d By	~7	11						1	REMARKS: Direct Bill to XTO Energy, Inc., Cost Center #: 2027691371, Incident #: nAPP2431846528	irect	Bill to XTO	Energy, I	nc., Cost C	enter #: 2	20276	9137	1, Inc	ident #: n	APP243184	6528
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	e One) ss - Other:	Observed Temp. °C Corrected Temp. °C	10.7		ппоя	Sample Condition Cool Intact Tree Tree No No		a c aditi	9		2	(frit	CHECKED BY: (Initials)	Thermometer ID 4433-Correction Factor - USC	Standa Cool Int	+ 1 1	Observed Temp. "C	Bacteria (only) Sample Condition of Temp. 'C	Wes Ves	₹ £	Come	Corrected Temp. "C	d d		

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

FORM-006 R 3.2 10/07/21

Sampler - UPS - Bus - Other Delivered By: (Circle One)

Corrected Temp. °C 3.

Cool Miact

CHECKED BY: (Initials)

O No O No

Corrected Temp. "C

Received By:

Ludvik (ALudvik@vertexresource.com)
REMARKS: Direct Bill to XTO Energy, Inc., Cost Center #: 2027691371, Incident #: nAPP2431845628 Chad Hensley (CHensley@vertexresource.com), Lakin Pullman (Lpullman@vertexresource.com), Andrew

FORM-006 R 3.2 10/07/21

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST 48-hour Rugh



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

Company Name:	Company Name: Vertex Resource Services (Direct Bill to XTO Energy, Inc.)	Direct Bill to XTO Energy,	Inc.)	BIL	BILL TO			A	ANALYSIS REQUEST
Project Manager: Chad Hensley	: Chad Hensley			P.O. #:			+		
Address: 3101 Boyd Drive	oyd Drive			Company: XTO Energy, Inc.	Energy, Inc.				
City: Carlsbad	State: NM	Zip: 88220		Attn: Colton Brown	OWN		0)		
Phone #:	575.725.5001	Fax#:		Address: 3104 E. Greene	E. Greene St		4R		
Project #: 25E-00017	017	Project Owner: Colton Brown	Brown	City: Carlsbad		1	//		
Project Name: Br	Project Name: Brushy Draw 30-31 Federal Battery - North	ttery - North		State: NM Zip:	Zip: 88220		_		
Project Location:				Phone #: 575-0			_	de	
				FIIOIle #: 5/5-300-2390	06-23-00	(8	_	ric	
Sampler Name: L. Pullman	Pullman			Fax#:		EX	_	hlo	
FOR LAB USE ONLY			MATRIX	PRESERV.	SAMPLING	ETE	-	C	
	Sample I.D.	R (C)OMP	0.1040				PH:8015		
450926		(G)RAB C	WASTEW. SOIL DIL BLUDGE	OTHER: ACID/BAS CE / COC OTHER:	DATE TI	TIME			
11	BS25-55 1'	1	X		5	10:25 X	×	×	
12	BS25-56 5'	C 1	×			+	+	×	
13	BS25-57 4'	C 1	X		7	+	+	×	
14	BS25-58 1.5	C 1	X	0		+	+	X	
15	WS25-08 1.5-3'	C 1	X		7	+	+	×	
16	WS25-09 1.5-2'	C 1	X			+	+	X	
17	WS25-10 0-1.5'	1 3	X		\neg	-	+	X	
18	WS25-11 0-1.5'	C 1	N		7	+	+	×	
19	WS25-12.0-1'	C 1	X	0	\forall	-	+	×	
	WS25-13 0-1'	C 1	X	0	\neg	+	×	×	
PLEASE NOTE: Laselly and Danscompletton of the applicable set afficiates or successors arraing of	WS25-12 0-1* WS25-13 0-1* WS25-13 0-1* vice in no event striat function in soluble in victor in ordinate in soluble in ordinate in soluble in ordinate in soluble in ordinate in soluble in the performance of sen	C 1 X	X X X X X You shall be imited to the emount of those immation, business interrupt such claims in based upon any of	C C C C C C C C C C C C C C C C C C C	02.16.25 8 02.16.25 8 02.16.25 8 02.16.25 8 02.16.25 8 visits incurred by client.	8:45 X 8:40 X 8:35 X 9 those for negligence f. lit subsidiaries.	X X	X X X	er shall be deemed waved unless made in wilding and received by Cardinal willing 30 days after
Relinquished By:	0	Date: 2-1-1-18 Received Br	By:	111	Verb	Verbal Result: Y	es	□ No	Add'l Phone #:
	-	44		11 11 11	Chail	Resh IIPID a	100		

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 (500) Source Services (Direct Bill to XTO Energy (1997) (199

Project Manager: Chad Hensley	Project Manager: Chad Hensley Address: 3404 Bod Date:	s (Direct Bill to XTO Ener	rgy, Ir	15.				P.O. #:	*	00	BILL TO		11	71	11
City: Carlsbad State: N	State: NM	Zip: 88220						Con	pan	y: x	Company: XTO Energy, Inc	Inc.	ш		
Phone #	Oute. NW	71p: 88220						Attn	00	Iton	Attn: Colton Brown				O)
Project #: 25E-00017	0017	Fax #:						Add	ress	310	Address: 3104 E. Greene	e St			MR
Decinet Mana. D		wilei.	Cotton Brown	STOW	3			City: Carlsbad	Car	SdS	b		_)/
Froject Name: B	Project Name: Brushy Draw 30-31 Federal Battery - North	Battery - North						State:		X	NM Zip:	88220	21)		RC
Project Location:								Phor	ne #	575	Phone #: 575-988-2390		80	OU.	_
Sampler Name: L. Pullman	Pullman							Fax #:	**				v /	V (_
Lab I.D.				41	MATRIX	R	11	P	PRESERV.	₹ 	SAMPLING	LING	Щ	BTE	_
heman	Sample I.D.	RAB OR (C)OMP.	OUNDWATER	STEWATER	L	IDGE	HER:	D/BASE:	/ COOL	ER:				E	TPH:80151
B	WS25-14 0-1.5'			_	_	0	_	_	10	_	02.16.25	8:30	,		~
Se S	WS25-15 0-2'	0	-	+	×	7	+	+	+	T	02 16 25	0.05	1,	1	+
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104	WS25-17 0-1	С	-		X		_				02.16.25	9:15	×		+
	WS25 10 1 5	C	-		×						02.16.25	9:25		×	
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3/ "	N 22-20 0-1.3	0			×	-	-				02.16.25	9:35		×	×
Relinquished BA	iting uished BM Date: A 20 Received BY:	coderate or consequental danages, including without limitation, business interruptions, is the runder by Cardinal, repardness of whether such claim is based upon any of the a Date:	ved B	d limitation in	n, business based upor	ess inte	of the ab	Booke of	of use, or it	or loss of	ng d	y client as subsidiaries. Verbal Result:	D Second		and any other cause wi
Relinquished By:	hallhoun/	Time: Received By:	ed B	in the		20	1	The	10	6	A	Please Email Results: Please Email Results: Chad Hensley (CHensley@vertexresource.com), Lakin Pullman (Lpullman@vertexresource.com), Andrew Ludvik (ALudvik@vertexresource.com) REMARKS: Direct Bill to XTO Energy, Inc., Cost Center #: 2027691371 Inc.ident #: pappy/aggs/aggs/aggs/aggs/aggs/aggs/aggs/agg	Resu y (CH lvik@	ens Ver	ensley@ver
Delivered By: (Circle One) Sampler - UPS - Bus - Other		Observed Temp. °C 3,7 Corrected Temp. °C 4,0		Sample Condition Cool intact	mple Cond	i ditio	8	0	로 앞	ECKED (Initials)	3,48	Tunatound Time: Stand	At S s	Standa ool inta	Standard Bacteria (or Cool Intact Observed Temp. C
FORM-006 F	2010/07/04		H												

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2/3



February 20, 2025

CHAD HENSLEY
VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: BRUSHY DRAW 30-31 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/18/25 13:50.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. 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: 02/18/2025 Reported: 02/20/2025

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTERY

Project Number: 24E-04918 (NORTH)

Project Location: XTO

Sampling Date: 02/17/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 22 3' (H250956-01)

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	02/19/2025	ND	2.00	99.8	2.00	13.3	
Toluene*	<0.050	0.050	02/19/2025	ND	2.27	113	2.00	14.5	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.52	126	2.00	16.5	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.72	129	6.00	18.0	
Total BTEX	<0.300	0.300	02/19/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/19/2025	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	02/19/2025	ND	191	95.4	200	2.18	
DRO >C10-C28*	<10.0	10.0	02/19/2025	ND	179	89.5	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	02/19/2025	ND					
Surrogate: 1-Chlorooctane	89.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.4	% 49.1-14	8						

Applyand By 14

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Celey D. Keene



Analytical Results For:

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

Received: 02/18/2025 Reported: 02/20/2025

BRUSHY DRAW 30-31 FEDERAL BATTERY

Project Number: 24E-04918 (NORTH)

Project Location: XTO

Project Name:

Sampling Date: 02/17/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 23 3' (H250956-02)

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	02/19/2025	ND	2.00	99.8	2.00	13.3	
Toluene*	<0.050	0.050	02/19/2025	ND	2.27	113	2.00	14.5	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.52	126	2.00	16.5	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.72	129	6.00	18.0	
Total BTEX	<0.300	0.300	02/19/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/19/2025	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	02/19/2025	ND	191	95.4	200	2.18	
DRO >C10-C28*	<10.0	10.0	02/19/2025	ND	179	89.5	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	02/19/2025	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.3	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Received: 02/18/2025 Sampling Date:

Reported: Project Name:

02/20/2025

Sampling Type: Soil

BRUSHY DRAW 30-31 FEDERAL BATTERY

Sampling Condition: Cool & Intact Sample Received By:

Project Number:

BTEX 8021B

24E-04918 (NORTH)

Tamara Oldaker

02/17/2025

Project Location: XTO

Sample ID: BS 25 - 24 2' (H250956-03)

DIEX GOZID	11197	ng .	Allulyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2025	ND	2.00	99.8	2.00	13.3	
Toluene*	<0.050	0.050	02/19/2025	ND	2.27	113	2.00	14.5	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.52	126	2.00	16.5	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.72	129	6.00	18.0	
Total BTEX	<0.300	0.300	02/19/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/19/2025	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	02/19/2025	ND	191	95.4	200	2.18	
DRO >C10-C28*	<10.0	10.0	02/19/2025	ND	179	89.5	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	02/19/2025	ND					
Surrogate: 1-Chlorooctane	94.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.9	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

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

Received: 02/18/2025

Sampling Date: 02/17/2025

Reported: 02/20/2025
Project Name: BRUSHY DR

Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTERY
Project Number: 24E-04918 (NORTH)

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

Project Location: XTO

Sample ID: BS 25 - 25 2' (H250956-04)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2025	ND	2.00	99.8	2.00	13.3	
Toluene*	<0.050	0.050	02/19/2025	ND	2.27	113	2.00	14.5	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.52	126	2.00	16.5	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.72	129	6.00	18.0	
Total BTEX	<0.300	0.300	02/19/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/19/2025	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	02/19/2025	ND	191	95.4	200	2.18	
DRO >C10-C28*	<10.0	10.0	02/19/2025	ND	179	89.5	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	02/19/2025	ND					
Surrogate: 1-Chlorooctane	94.3	% 48.2-13	4						

Analyzed By: JH

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Celey D. Keene

Surrogate: 1-Chlorooctadecane

Celey D. Keene, Lab Director/Quality Manager

88.8 %

49.1-148



Analytical Results For:

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

Received: 02/18/2025 02/20/2025 Reported:

BRUSHY DRAW 30-31 FEDERAL BATTERY

Project Name: 24E-04918 (NORTH) Project Number:

XTO Project Location:

Sampling Date: 02/17/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 26 2' (H250956-05)

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	02/19/2025	ND	2.00	99.8	2.00	13.3	
Toluene*	<0.050	0.050	02/19/2025	ND	2.27	113	2.00	14.5	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.52	126	2.00	16.5	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.72	129	6.00	18.0	
Total BTEX	<0.300	0.300	02/19/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/19/2025	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	02/19/2025	ND	191	95.4	200	2.18	
DRO >C10-C28*	<10.0	10.0	02/19/2025	ND	179	89.5	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	02/19/2025	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/18/2025 Reported:

Sampling Type: 02/20/2025

Analyzed By: JH

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTERY

mg/kg

Project Number: 24E-04918 (NORTH)

Project Location: XTO Sampling Date: 02/17/2025

Soil

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

Sample ID: BS 25 - 27 1.5' (H250956-06)

BTEX 8021B

DILX GOZID	ıııg,	ng .	Allulyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2025	ND	2.00	99.8	2.00	13.3	
Toluene*	<0.050	0.050	02/19/2025	ND	2.27	113	2.00	14.5	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.52	126	2.00	16.5	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.72	129	6.00	18.0	
Total BTEX	<0.300	0.300	02/19/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/19/2025	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	02/19/2025	ND	191	95.4	200	2.18	
DRO >C10-C28*	<10.0	10.0	02/19/2025	ND	179	89.5	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	02/19/2025	ND					
Surrogate: 1-Chlorooctane	96.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.0	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/18/2025

Reported: 02/20/2025

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTERY

Project Number: 24E-04918 (NORTH)

Project Location: XTO

Sampling Date: 02/17/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 28 1.5' (H250956-07)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2025	ND	2.00	99.8	2.00	13.3	
Toluene*	<0.050	0.050	02/19/2025	ND	2.27	113	2.00	14.5	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.52	126	2.00	16.5	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.72	129	6.00	18.0	
Total BTEX	<0.300	0.300	02/19/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/19/2025	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	02/19/2025	ND	191	95.4	200	2.18	
DRO >C10-C28*	<10.0	10.0	02/19/2025	ND	179	89.5	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	02/19/2025	ND					
Surrogate: 1-Chlorooctane	99.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.8	% 49.1-14	8						

Applyzod By: 14

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Celeg & Keene



Analytical Results For:

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

Received: 02/18/2025 Reported:

02/20/2025

mg/kg

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTERY Project Number: 24E-04918 (NORTH)

Project Location: XTO Sampling Date: 02/17/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 29 1.5' (H250956-08)

BTEX 8021B

DRO >C10-C28*

EXT DRO >C28-C36

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2025	ND	2.00	99.8	2.00	13.3	
Toluene*	<0.050	0.050	02/19/2025	ND	2.27	113	2.00	14.5	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.52	126	2.00	16.5	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.72	129	6.00	18.0	
Total BTEX	<0.300	0.300	02/19/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/19/2025	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

ND

ND

179

89.5

200

4.39

02/19/2025

02/19/2025

Analyzed By: JH

Surrogate: 1-Chlorooctane 106 % 48.2-134 Surrogate: 1-Chlorooctadecane 99.7 % 49.1-148

<10.0

<10.0

10.0

10.0

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Analytical Results For:

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

Received: 02/18/2025 Sampling Date: 02/17/2025

Reported: 02/20/2025 Project Name:

Sampling Type: Soil

BRUSHY DRAW 30-31 FEDERAL BATTERY Project Number: 24E-04918 (NORTH)

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

Project Location: XTO

Sample ID: BS 25 - 30 1.5' (H250956-09)

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	02/19/2025	ND	2.00	99.8	2.00	13.3	
Toluene*	<0.050	0.050	02/19/2025	ND	2.27	113	2.00	14.5	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.52	126	2.00	16.5	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.72	129	6.00	18.0	
Total BTEX	<0.300	0.300	02/19/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/19/2025	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	02/19/2025	ND	191	95.4	200	2.18	
DRO >C10-C28*	<10.0	10.0	02/19/2025	ND	179	89.5	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	02/19/2025	ND					
Surrogate: 1-Chlorooctane	94.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.9	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/18/2025 Reported: 02/20/2025

BRUSHY DRAW 30-31 FEDERAL BATTERY

mg/kg

Project Number: 24E-04918 (NORTH)

Project Location: XTO

Project Name:

BTEX 8021B

Sampling Date: 02/17/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 31 1.5' (H250956-10)

	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	02/19/2025	ND	2.00	99.8	2.00	13.3	
Toluene*	<0.050	0.050	02/19/2025	ND	2.27	113	2.00	14.5	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.52	126	2.00	16.5	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.72	129	6.00	18.0	
Total BTEX	<0.300	0.300	02/19/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/19/2025	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	02/19/2025	ND	191	95.4	200	2.18	
DRO >C10-C28*	<10.0	10.0	02/19/2025	ND	179	89.5	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	02/19/2025	ND					
Surrogate: 1-Chlorooctane	88.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.9	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

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

Received: 02/18/2025 Reported: 02/20/2025

02/20/2025 BRUSHY DRAW 30-31 FEDERAL BATTERY

Project Name: BRUSHY DRAW 30-31 FE Project Number: 24E-04918 (NORTH)

mg/kg

Project Location: XTO

Sampling Date: 02/17/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 32 1.5' (H250956-11)

BTEX 8021B

DIEX GOZID	iiig/	9	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2025	ND	2.00	99.8	2.00	13.3	
Toluene*	<0.050	0.050	02/19/2025	ND	2.27	113	2.00	14.5	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.52	126	2.00	16.5	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.72	129	6.00	18.0	
Total BTEX	<0.300	0.300	02/19/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/19/2025	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	02/19/2025	ND	191	95.4	200	2.18	
DRO >C10-C28*	<10.0	10.0	02/19/2025	ND	179	89.5	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	02/19/2025	ND					
Surrogate: 1-Chlorooctane	98.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.5	% 49.1-14	8						

Analyzed By: JH

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Celey D. Keene



Analytical Results For:

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

Received: 02/18/2025

mg/kg

Sampling Date: 02/17/2025

Reported: 02/20/2025

Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTERY
Project Number: 24E-04918 (NORTH)

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

Project Location: XTO

Sample ID: BS 25 - 33 1.5' (H250956-12)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2025	ND	2.00	99.8	2.00	13.3	
Toluene*	<0.050	0.050	02/19/2025	ND	2.27	113	2.00	14.5	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.52	126	2.00	16.5	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.72	129	6.00	18.0	
Total BTEX	<0.300	0.300	02/19/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/19/2025	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	02/19/2025	ND	191	95.4	200	2.18	
DRO >C10-C28*	<10.0	10.0	02/19/2025	ND	179	89.5	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	02/19/2025	ND					
Surrogate: 1-Chlorooctane	96.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.1	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

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

Received: 02/18/2025 Reported:

02/20/2025

Sampling Date: 02/17/2025

Sampling Type:

Soil

Project Name:

BRUSHY DRAW 30-31 FEDERAL BATTERY 24E-04918 (NORTH)

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

Project Number: Project Location:

XTO

Sample ID: BS 25 - 34 1.5' (H250956-13)

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	02/19/2025	ND	2.00	99.8	2.00	13.3	
Toluene*	<0.050	0.050	02/19/2025	ND	2.27	113	2.00	14.5	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.52	126	2.00	16.5	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.72	129	6.00	18.0	
Total BTEX	<0.300	0.300	02/19/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/19/2025	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	02/19/2025	ND	191	95.4	200	2.18	
DRO >C10-C28*	<10.0	10.0	02/19/2025	ND	179	89.5	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	02/19/2025	ND					
Surrogate: 1-Chlorooctane	93.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.6	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/18/2025 Reported:

02/20/2025

BRUSHY DRAW 30-31 FEDERAL BATTERY

Project Number: 24E-04918 (NORTH)

Project Location: XTO

Project Name:

Sampling Date: 02/17/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 35 1' (H250956-14)

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	02/19/2025	ND	2.00	99.8	2.00	13.3	
Toluene*	<0.050	0.050	02/19/2025	ND	2.27	113	2.00	14.5	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.52	126	2.00	16.5	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.72	129	6.00	18.0	
Total BTEX	<0.300	0.300	02/19/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/19/2025	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	02/19/2025	ND	191	95.4	200	2.18	
DRO >C10-C28*	<10.0	10.0	02/19/2025	ND	179	89.5	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	02/19/2025	ND					
Surrogate: 1-Chlorooctane	94.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.1	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/18/2025 Reported: 02/20/2025

02/20/2025 BRUSHY DRAW 30-31 FEDERAL BATTERY

Project Number: 24E-04918 (NORTH)

Project Location: XTO

Project Name:

Sampling Date: 02/17/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 36 1' (H250956-15)

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	02/19/2025	ND	2.00	99.8	2.00	13.3	
Toluene*	<0.050	0.050	02/19/2025	ND	2.27	113	2.00	14.5	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.52	126	2.00	16.5	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.72	129	6.00	18.0	
Total BTEX	<0.300	0.300	02/19/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/19/2025	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	02/19/2025	ND	191	95.4	200	2.18	
DRO >C10-C28*	<10.0	10.0	02/19/2025	ND	179	89.5	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	02/19/2025	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.0	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/18/2025 Reported: 02/20/2025 Sampling Date: 02/17/2025
Sampling Type: Soil

Reported: 02/20/2025
Project Name: BRUSHY DRAW 30-31 FEDERAL BATTERY

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

Project Number: 24E-04918 (NORTH)

Project Location: XTO

Sample ID: BS 25 - 37 1' (H250956-16)

BTEX 8021B

DIEX GOZID	11197	K9	Allulyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2025	ND	2.00	99.8	2.00	13.3	
Toluene*	<0.050	0.050	02/19/2025	ND	2.27	113	2.00	14.5	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.52	126	2.00	16.5	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.72	129	6.00	18.0	
Total BTEX	<0.300	0.300	02/19/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/19/2025	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	02/19/2025	ND	191	95.4	200	2.18	
DRO >C10-C28*	<10.0	10.0	02/19/2025	ND	179	89.5	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	02/19/2025	ND					
Surrogate: 1-Chlorooctane	98.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.5	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

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

Received: 02/18/2025

Sampling Date: 02/17/2025

Reported: 02/20/2025

Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTERY
Project Number: 24E-04918 (NORTH)

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

Project Location: XTO

Sample ID: BS 25 - 38 1' (H250956-17)

BTEX 8021B

DILX OUZID	11197	ng .	Allulyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2025	ND	2.00	99.8	2.00	13.3	
Toluene*	< 0.050	0.050	02/19/2025	ND	2.27	113	2.00	14.5	
Ethylbenzene*	< 0.050	0.050	02/19/2025	ND	2.52	126	2.00	16.5	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.72	129	6.00	18.0	
Total BTEX	<0.300	0.300	02/19/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/19/2025	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	02/19/2025	ND	191	95.4	200	2.18	
DRO >C10-C28*	<10.0	10.0	02/19/2025	ND	179	89.5	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	02/19/2025	ND					
Surrogate: 1-Chlorooctane	97.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.8	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

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

Received: 02/18/2025 Reported: 02/20/2025

02/20/2025

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTERY
Project Number: 24E-04918 (NORTH)

Project Location: XTO

Sampling Date: 02/17/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 39 1' (H250956-18)

mg,	/kg	Analyze	d By: JH					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	02/19/2025	ND	2.00	99.8	2.00	13.3	
<0.050	0.050	02/19/2025	ND	2.27	113	2.00	14.5	
<0.050	0.050	02/19/2025	ND	2.52	126	2.00	16.5	
<0.150	0.150	02/19/2025	ND	7.72	129	6.00	18.0	
<0.300	0.300	02/19/2025	ND					
			ND					
	Result <0.050 <0.050 <0.050 <0.050 <0.150 <0.300	<0.050	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/19/2025	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	02/19/2025	ND	191	95.4	200	2.18	
DRO >C10-C28*	<10.0	10.0	02/19/2025	ND	179	89.5	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	02/19/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134 Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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Analytical Results For:

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

Received: 02/18/2025 Reported: 02/20/2025

BRUSHY DRAW 30-31 FEDERAL BATTERY

Project Number: 24E-04918 (NORTH)

Project Location: XTO

Project Name:

Sampling Date: 02/17/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 40 1' (H250956-19)

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	02/19/2025	ND	2.06	103	2.00	8.87	
Toluene*	<0.050	0.050	02/19/2025	ND	2.32	116	2.00	8.54	
Ethylbenzene*	< 0.050	0.050	02/19/2025	ND	2.42	121	2.00	8.60	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.45	124	6.00	9.59	
Total BTEX	<0.300	0.300	02/19/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 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	02/19/2025	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	02/19/2025	ND	191	95.4	200	2.18	
DRO >C10-C28*	<10.0	10.0	02/19/2025	ND	179	89.5	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	02/19/2025	ND					
Surrogate: 1-Chlorooctane	88.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.4	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/18/2025

Reported: 02/20/2025 Project Name: BRUSHY DRAW 30-31 FEDERAL BATTERY

Project Number: 24E-04918 (NORTH)

Project Location: XTO Sampling Date: 02/17/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 41 1.5' (H250956-20)

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	02/19/2025	ND	2.06	103	2.00	8.87	
Toluene*	<0.050	0.050	02/19/2025	ND	2.32	116	2.00	8.54	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.42	121	2.00	8.60	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.45	124	6.00	9.59	
Total BTEX	<0.300	0.300	02/19/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 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	<16.0	16.0	02/19/2025	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	02/19/2025	ND	183	91.7	200	0.260	
DRO >C10-C28*	<10.0	10.0	02/19/2025	ND	183	91.7	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	02/19/2025	ND					
Surrogate: 1-Chlorooctane	92.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.1	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 02/18/2025 Reported:

02/20/2025 BRUSHY DRAW 30-31 FEDERAL BATTERY

Project Name: Project Number: 24E-04918 (NORTH)

Project Location: XTO Sampling Date: 02/17/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 42 1.5' (H250956-21)

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	02/19/2025	ND	2.06	103	2.00	8.87	
Toluene*	<0.050	0.050	02/19/2025	ND	2.32	116	2.00	8.54	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.42	121	2.00	8.60	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.45	124	6.00	9.59	
Total BTEX	<0.300	0.300	02/19/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/19/2025	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	02/19/2025	ND	183	91.7	200	0.260	
DRO >C10-C28*	<10.0	10.0	02/19/2025	ND	183	91.7	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	02/19/2025	ND					
Surrogate: 1-Chlorooctane	95.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.8	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/18/2025 Sampling Date: 02/17/2025

Reported: 02/20/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: 24E-04918 (NORTH) Tamara Oldaker

Project Location: XTO

Sample ID: BS 25 - 43 1.5' (H250956-22)

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	02/19/2025	ND	2.06	103	2.00	8.87	
Toluene*	<0.050	0.050	02/19/2025	ND	2.32	116	2.00	8.54	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.42	121	2.00	8.60	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.45	124	6.00	9.59	
Total BTEX	<0.300	0.300	02/19/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 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	<16.0	16.0	02/19/2025	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	02/19/2025	ND	183	91.7	200	0.260	
DRO >C10-C28*	<10.0	10.0	02/19/2025	ND	183	91.7	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	02/19/2025	ND					
Surrogate: 1-Chlorooctane	99.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/18/2025 Reported:

02/20/2025

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTERY Project Number: 24E-04918 (NORTH)

Project Location: XTO Sampling Date: 02/17/2025

Sampling Type: Soil

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

Sample ID: BS 25 - 44 1.5' (H250956-23)

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	02/19/2025	ND	2.06	103	2.00	8.87	
Toluene*	<0.050	0.050	02/19/2025	ND	2.32	116	2.00	8.54	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.42	121	2.00	8.60	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.45	124	6.00	9.59	
Total BTEX	<0.300	0.300	02/19/2025	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	16.0	16.0	02/19/2025	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	02/19/2025	ND	183	91.7	200	0.260	
DRO >C10-C28*	<10.0	10.0	02/19/2025	ND	183	91.7	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	02/19/2025	ND					
Surrogate: 1-Chlorooctane	97.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.5	% 49.1-14	8						

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Notes and Definitions

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

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

ecovery.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Corrected Temp. °C

Cool Intact

(Initials)

ON ON O

Corrected Temp. "C

FORM-006 R 3.2 10/07/21

Relinquished By

Date: 1-18-15 Received By:

Received By:

48-hour Kush

CARDINAL Laboratories 101 East Marland, Hobbs, NM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Vertex Resource Services (Direct Bill to X I U Energy, Inc.)	rect Bill to X I O Energy, Inc.,	BILL TO		A	ANALTSIS REGUES!
Project Manager: Chad Hensley	P	P.O. #:			
Address: 3101 Boyd Drive	0	Company: XTO Energy, Inc.			
City: Carlsbad State: NM	Zip: 88220 A	Attn: Colton Brown	RO)		
Phone #: 575.725.5001	Fax#:	Address: 3104 E. Greene St	MF		
Project #: 25E-00017	Project Owner: Colton Brown	City: Carlsbad	0/		
Project Name: Brushy Draw 30-31 Federal Battery - North		State: NM Zip: 88220		e	
Project Location:		Phone #: 575-988-2390	(80) / C	rid	
		Fav #-	-	ilo	
Sampler Name: L. Pullman			_	CI	
Lab I.D.	MATRIX	PRESERV. SAMPLING			
Sample I.D.	G)RAB OR (C)OMI CONTAINERS GROUNDWATER WASTEWATER GOIL DIL SLUDGE	OTHER: ACID/BASE OTHER: DATE	ТРН:8		
BS25-22 3'	1 X	02.17.25 9:00	X	X	
2 BS25-23 3'	C 1 X	02.17.25 9:05	×	X	
3 BS25-24 2'	C 1 X	02.17.25 9:10	XX	X	
4 BS25-25 2'	C 1 X	02.17.25 9:15	×	X	
S BS25-26 2'	C 1 X	02.17.25 9:20	XX	×	
6 BS25-27 1.5'	C 1 X	02.17.25 9:30	X	-	
-	C 1 X	02.17.25 9:35	XX	X	
8 BS25-29 1.5	C 1 X	02.17.25 9:40	X X	X	
9 BS25-30 1.5'	C 1 X	02.17.25 9:45	×	-	
BS25-31 1.5'	C 1 X	02.17.25 9:50 X	XX	X	X X

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

company value: vertex resource services (Direct Bill to XTO Ellergy, Inc.	pervices (Direct Bill to A I	Ene	ergy,	Inc.	-						6	BILL	LTO				,	ANALYSIS REQUEST
Project Manager: Chad Hensley									P.O. #:	#								
Address: 3101 Boyd Drive									Con	npai	ny:	OTA	Company: XTO Energy, Inc.	nc.				
City: Carlsbad State: NM	Zip: 88220							_	Attn	0	oftor	Br	Attn: Colton Brown			O)		
Phone #: 575.725.5001	5.5001 Fax #:								Add	res	S	04	Address: 3104 E. Greene St	St		MR		
Project #: 25E-00017	Project Owner:	er: C	Colton Brown	n Br	nwo				City: Carlsbad	Ca	rist	ad)/		
Project Name: Brushy Draw 30-31 Federal Battery - North	ederal Battery - North								State:		M		Zip:	88220	21)	R		
Project Location:									Pho	ne #	57	5-9	Phone #: 575-988-2390		(80)/1	ride	
Sampler Name: L. Pullman					- 1				Fax #:	#					X	RC	hlo	
FOR LAB USE ONLY			\neg	П	11	MATRIX		11	-	RES	PRESERV.	1	SAMPLING	LING	BTE	5D(0	C	
	Sample I.D.	RAB OR (C)OMP	CONTAINERS	OUNDWATER	STEWATER	IL		JDGE	HER: ID/BASE:		HER:	THE COUNTY				TPH:801		
// BS25-32 1.5'		0	_			X		_	\rightarrow		\rightarrow	-	02.17.25	9:55	X	X	X	
12 BS25-33 1.5'		C	-			×			-		-	_	02.17.25	10:00	X	X	X	
15 BS25-34 1.5'		C	_			×			Н	Ш	Н		02.17.25	10:05	×	X	X	
/4 BS25-35 1'		C	1			×			-	_	-	-	02.17.25	10:15	X	X	X	
15 BS25-36 1'		C	_			X			-	_	-	_	02.17.25	10:20	X	X	N	
/6 BS25-37 1'		C	-			X			-		-	_	02.17.25	10:25	X	X	X	
/7 BS25-38 1		C	_			×			-		-	_	02.17.25	10:30	X	X	X	
18 BS25-39 1'		C	_			X			-		Н	_	02.17.25	10:35	X	X	X	
19 BS25-40 1		0	1			×			_		_	_	02.17.25	10:40	X	X	X	
70 BS25-41 1.5'		С	-	Н		×	\Box	Ц	Н	Н	Н		02.17.25		×	X	X	
PLEASE NOTE: Liabily and Eurages. Cardina's leadily, and clerify exclusive remark for any climinating elether bead in contract or bot, lead by finited to the amount paid by the client for the amalyses. All coll cardinals of the applicable service. In the event, shall Cardinal be leable for incidental or consequental damages, including vetnout installor, business elemination, loss of use, or bas of profits incompletes or successors arising out of or related to the performance of services her sunder by Cardinal, legaritiess of whether such claim is based upon any of the above stated reasons or otherwise.	Carplina's labelly and client's exclusive remaily for any claim arrang effether based in contract or fort, shed by firmfact to the arranged for the arranged All Claims including those for regist. In no event shad Cardinal be liable for incidental or consequental damages, including without inhalation, business interruptions, loss of other or loss of profits incurred by claim, its subsidiaries or related to the performance of services hersurder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	ages, n	cuding duding whether	without without	smill be smillable claim is	hased based	ness in	ny of th	00 kg	200	for the	oss of loss of years	analyses. All claims incluses of profits incurred by one or otherwise.	cluding those for negligence ar y client, its subsidiaries.	gence and	any other ca	ase whatsoev	wer shall be deemed waved vriess made in writing and received by Cardinal within 10 days after
Relinquished By	Date: J. R. Long Received By	Rec	eive	CO B	Visite in	8	Ex	7	A	1/2	MIL	M.	D	Verbal Result: U Y Please Email Results: Chad Hensley (CHens Ludvik (ALudvik@verl	esults (CHen	Yes s: nsley@ver	□ No vertexresou ource.com)	Verbal Result: □ Yes □ No Add'I Phone #: Please Email Results: □ Add'I Phone #: Chad Hensley (CHensley@vertexresource.com), Lakin Pullman (Lpullman@vertexresource.com), Andrew Ludvik (ALudvik@vertexresource.com)
Refinquished By:	Time:	Rec	Received By:	d B	77							1	1	REMARKS: DI	rect B	III to XTO	Energy,	REMARKS: Direct Bill to XTO Energy, Inc., Cost Center #: 2027691371, Incident #: nAPP2431846528
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C L	4		D 0 10	Sample Condition Cool Intact	le Cond	ndit ondit	0	_	1 0	√ = ₩	(Initials)	. 37	Turnaround Time:	Standard Cool Intact	# obs	Bacteria (o) Observed Temp. 4C	nly) Sample Cond
					O No O No	Ů	No		_		-	7		Correction Factor -0.6°C	1	1	الل	□ Yes □ Yes

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

□ No □ No

FORM-006 R 3.2 10/07/21

48-ham Rush Page 27 of 28

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Observed Temp. °C Corrected Temp. °C

Cool inflact

CHECKED BY

FORM-006 R 3.2 10/07/21

Relinquished By:

DINAL

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

48-hour Rush

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

Company Name: Vertex Resource Services (Direct Bill to XTO Energy, Inc.)	ervices (Direct Bill to XTO Energy, Inc.		BILL TO		A	ANALYSIS REQUEST
Project Manager: Chad Hensley		P.O. #:				
Address: 3101 Boyd Drive		Company:	Company: XTO Energy, Inc.			
City: Carlsbad State: NM	Zip: 88220	Attn: Colton Brown	n Brown		,,	
Phone #: 575.725.5001	.5001 Fax #:	Address: 3	Address: 3104 E. Greene St			
Project #: 25E-00017	Project Owner: Colton Brown	own City: Carlsbad	bad		7 1	
Project Name: Brushy Draw 30-31 Federal Battery - North	ederal Battery - North	State: N	NM Zip: 88220	÷		
Project Location:		Phone #: 575-988-2390		_	_	
Sampler Name: L. Pullman		Fax#:		X (lor	
FOR LABIJSE ONLY		MATRIX PRESERV.	/ SAMPLING		_	
Sample I.D.	AB OR (C)OMP. NTAINERS	GE R : BASE: COOL R :		B TPH:80151	1111.60131	
2/ BS25-42 1.5'	-	X	02.17.25 10:50	X	×	
22 BS25-43 1.5'	C 1	X	\neg		-	
23 BS25-44 1.5'	C 1	X	02.17.25 11:00	X	×	
				+		
PLEASE NOTE: Liability and Damagnet Cardinal's leability and client's completion of the applicable service. In no event shall Cardinal b affiliaties or successors arrang out of or instead to the performance.	REASE NOTE: Labelly and Distrages. Central's labelly and clears's exclusive remay by any own interest behave in contract in toc shall be labelly and produced by any own standard by amount part by the death for the analyses. At clears, including those for negligence and a competion of the applicable service in no event shall Candina's be labell for incidental or consequental damages, providing without imitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services between the particularies of services between the particular regardless of whether such claim is blased upon of or the above stated reasons or otherwise.	all be invalid to the amount paid by the client for the analyses; All clientation, business interruptions, loss of use, or loss of profits incoming the above stated resisting or otherwise.	analyses. All claims including those for osa of profits incurred by client, its subset one or otherwise.	ence and any	offer cause whatsoever	shall be desired waved unless made in willing and received by Cardinal willinn 30 days after
Relinquished By:	Date: 1-1616 Received By		Verbal Result:	ult: Yes	□ No	Add'l Phone #:
Just william/		The Man	Chad Hensley (CHensl	ley (CHensley@	ey@vertexresourc	Chale tentain results: Chale Hensley (CHensley@vertexresource.com), Lakin Puliman (Lpuliman@vertexresource.com), Andrew

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

00

No No

REMARKS: Direct Bill to XTO Energy, Inc., Cost Center #: 2027691371, Incident #: nAPP2431846528



February 26, 2025

CHAD HENSLEY

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: BRUSHY DRAW 30-31 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/24/25 12:30.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. 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: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: Cool & Intact Project Number: 24E-04918, 25E-00017 Sample Received By: Shalyn Rodriguez

Project Location: XTO

Sample ID: BACKFILL (H251073-01)

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	02/25/2025	ND	2.02	101	2.00	0.0537	
Toluene*	<0.050	0.050	02/25/2025	ND	2.04	102	2.00	5.63	
Ethylbenzene*	<0.050	0.050	02/25/2025	ND	2.10	105	2.00	9.82	
Total Xylenes*	<0.150	0.150	02/25/2025	ND	6.22	104	6.00	10.9	
Total BTEX	<0.300	0.300	02/25/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/25/2025	ND	432	108	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	02/24/2025	ND	189	94.7	200	3.11	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	179	89.6	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					
Surrogate: 1-Chlorooctane	60.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	59.4	% 49.1-14	8						

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

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Corrected Temp. °C 3. 4

Sample Condition
Cool Intact
Cool Intact
No No No

(Initials)

FORM-006 R 3.2 10/07/21

48 hour Rush

CARDINAL Laboratories 101 East Marland, Hobbs, NM 8

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Source Services (Direct Bill to XTO Fnerry, Inc.)

			93;	1.0						Dr	BILL	10					ANA	ANALYSIS	REQUEST	200	ST									_
Project Manager: Chad Hensley	ensley					1		9.	P.O. #:					٦	٦	1				4		┪	-		-		\dashv		\dashv	
Address: 3101 Boyd Drive	8				- 1			S	mpa	ny:	NY.	Company: XTO Energy, Inc.	Inc.	_									_		_		_		_	_
City: Carlsbad State: NM	NM Zip: 88220							Att	n: C	Sto.	B	Attn: Colton Brown		_	0)					_			_		_				_	_
Phone #:	575.725.5001 Fax #:							Ad	dres	S	04	Address: 3104 E. Greene St	e St		ИR	_				_					_		_		_	_
Project #: 24E-04918, 25E-00017	25E-00017 Project Owner: Colton Brown	ner: Col	ton E	row	-			CIT	City: Carlsbad	aris	bad			_) / N	_				_			_		_		_			_
Project Name: Brushy Draw 30-31 Federal Battery	aw 30-31 Federal Battery							State:	te:	z	NM Zip:	Zip:	88220	(1)	RC					_			_		_					_
Project Location:					-			Ph	one	# 5	5-9	Phone #: 575-988-2390		802	/ D	ide				_			_		_		_		_	_
Sampler Name: L. Pullman	7							Fax #:	#	- 1	1			X (RO	nlor				_			_		_					_
FOR LAB USE ONLY			\vdash	H	MA	MATRIX	11	L	PRESERV.	M		SAMPLING	LING	BTE	D(G	C				_					_					_
73	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:	OTTEN:	DATE	TIME	1	TPH:8015															
/ BackFill	iii	1		\vdash	\rightarrow	\rightarrow		-	\vdash		\vdash	02.21.25	13:30	×	×	X				\vdash			+		-		1		\dashv	_
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			\vdash	+		\exists		-	-	-	-									+		П	+		+		1		+	_
PLEASE NOTE: Liability and Daniages. Cardinal completion of the applicable service. In no evaluation of the successions arising out of or related the completion of the successions arising out of the successions are successions arising out of the successions are successions.	PLEASE ANTIE: Listing and Centrals listedly and clerifie sociative mining byt any came animally whether based in contract or tot, and be limited to the amount paid by the clear by the claims including those for negligence and any offer cause whitshower shall be determed completion of the applicable service. In no event shall Cardinals the liable for incidental or consequential damages, including versions animang out of or related to the performance of services interviolet by Cardinal, regardless of whether such claim is based upon any of the above stated resource or otherwise.	based in cont ages, includi rdless of who	tract or to ling witho other suc	of limited of limited	indad on, but s bases	to the ar	any of the	ons, lo	e state	Torthe	analys ons or	ies Al claims i profits incurred otherwise.	ncluding those for neg ly client, its subsidien	es, pigence an	id any other o	ause whats:	ever shall be	deemed w	waived uni	75 73	9	ding as	d race	wed by	Cardo	THE WAY	30	unitess made in writing and received by Cardinal within 30 days site	E.	L
Relinquished By:	St-ht-t	Received By:	ved E	By:			- 1			- 1	- 1		Verbal Result: ☐ Ye	Rosults	S	□ No		Add'l Phone #:	hone	399	Ш	П								ш

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

Thermometer ID 113

1003 1003

□ No □ No

Corrected Temp. "C

/

Chad Hensley (CHensley@vertexresource.com), Lakin Puliman (Lpuliman@vertexresource.com), Andrew

Ludvik (ALudvik@vertexresource.com)
REMARKS: Direct Bill to XTO Energy, Inc., Cost Center #: 2027691371, Incident #: nAPP2431846528,



February 26, 2025

CHAD HENSLEY
VERTEX RESOURCE
3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: BRUSHY DRAW 30-31 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/24/25 12:30.

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

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

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

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



02/21/2025

Soil

Analytical Results For:

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

Received: 02/24/2025

02/26/2025 Sampling Type:

Project Name: Project Number:

Project Location: XTO

BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: Cool & Intact 24E-04918 (NORTH) Sample Received By: Shalyn Rodriguez

Sampling Date:

Sample ID: TOP SOIL (H251074-01)

Reported:

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	02/25/2025	ND	2.02	101	2.00	0.0537	
Toluene*	<0.050	0.050	02/25/2025	ND	2.04	102	2.00	5.63	
Ethylbenzene*	<0.050	0.050	02/25/2025	ND	2.10	105	2.00	9.82	
Total Xylenes*	<0.150	0.150	02/25/2025	ND	6.22	104	6.00	10.9	
Total BTEX	<0.300	0.300	02/25/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/25/2025	ND	432	108	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	02/25/2025	ND	207	103	200	0.708	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	203	101	200	0.592	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					
Surrogate: 1-Chlorooctane	118 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Observed Temp. °C 3, 4 C

Cool Intact

Sample Condition

CHECKED BY (Initials)

TO ST

ed Temp. 'C

□ No □ No

ded Temp. "C

SP-he-Kard

1330

Received By:

Chad Hensley (CHensley@vertexresource.com), Lakin Pullman (Lpullman@vertexresource.com), Andrew Ludvik (ALudvik@vertexresource.com)
REMARKS: Direct Bill to XTO Energy, Inc., Cost Center #: 2027691371, Incident #: nAPP2431846528

Add'I Phone #:

FORM-006 R 3.2 10/07/21

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: Vertex Resource Services (Direct Bill to X10 Energy, Inc.)	urce Services (Direct Bill to Air	China	37									1	the same say					1			_
Project Manager: Chad Hans	NA .	1							9	P.O. #:	-0.7										
Address: 3404 Boyd Drive	-9					-	- 1		S	ğ	any	×	Company: XTO Energy, Inc.	, Inc.							
City: Carlehad State: NM	Zip: 88220			-	- 1	- 1	- 1		At	. E	S	ton	Attn: Colton Brown			(0)					
9000	575 725 5001 Fax #:					- 1	- 1		A	dre	SS	31	Address: 3104 E. Greene	ne St		МІ					
FIIONE#.			1	1		1	1	1	2	1		2	2			/					
Project #: 24E-04918	Project Owner: Colton Brown	ner: Co	olton	Bro	M				2	4	8	City. Calistian	30)	RO					
Project Name: Brushy Draw 30-31 Federal Battery - North	30-31 Federal Battery - North								3S	State:		Z	NM Zip:	88220)21	DI	le				
Floject Name: Diverily Com				1	1	1	1		함	3	P ##	57	Phone #: 575-988-2390		80	1	rid				_
Project Location:									13	3	9	1	000		(20	loi				_
Campler Name: Pullman									Fa	Fax #:					EN	GI	Ch				_
Sampler Maille. L Similar.		1	1	1			2	1	1	B	100	PRESERV	SA	SAMPLING	T)(-				
FOR LAB USE ONLY				T		NA I AUA	7		\exists	1	-	-			В	151					
Lab I.D.	Sample I.D.	G)RAB OR (C)OMP.	CONTAINERS	GROUNDWATER	VASTEWATER	SOIL	DIL	SLUDGE	OTHER:	ACID/BASE:	CE / COOL	OTHER:	DATE	TIME		TPH:80					
H25/0/4		((#	G	V	S		S	10		+		20 10 00	75 13:35	×	×	×				-
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		+	1	+	+		-		-	-		_					_	and the second and the second by Cardinal within 30 days after		The Care Care	200

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

YOUNT MUST OF

APPENDIX D – Notification(s)

From: Hall, Brittany, EMNRD
To: Chad Hensley

Subject: RE: [EXTERNAL] nAPP2431846528 sampling notice 432480 Variance.

Date: Wednesday, February 19, 2025 8:22:09 AM

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

Mr. Hensley,

The variance request is approved. Submit a correct C-141N for nAPP2500254282 and include in the "necessary for navigation to sampling site" box, the directions to the site <u>AND</u> that a variance request was approved.

Please include a copy of this email chain in the next submittal.

Thank you,

Brittany Hall ● Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.517.5333 | Brittany.Hall@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd/

<u>Effective 12/1/2024</u>: OCD has updated guidance on karst potential occurrence zones. This notice can be found at: https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ under "2024 OCD ANNOUNCEMENTS AND NOTIFICATIONS".

The Digital C-141 guidance documents can be found at https://www.emnrd.nm.gov/ocd/ocd-ocd-ocd-announcements-and-notifications/ or https://www.emnrd.nm.gov/ocd/ocd-forms/.

From: Chad Hensley < CHensley@vertexresource.com>

Sent: Wednesday, February 19, 2025 8:15 AM

To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>

Subject: [EXTERNAL] nAPP2431846528 sampling notice 432480 Variance.

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

Ms. Hall,

Vertex on behalf of ExxonMobil formally request a variance from 19.15.29.12 D.(1)(a) NMAC, "The responsible party must verbally notify the appropriate division district office two business days prior to conducting final sampling. If the division district office does not respond to the notice within the two business days, the responsible party may proceed with final sampling.

The responsible party may request a variance from this requirement upon a showing of good cause as determined by the division." Request for sampling was given in error to the wrong incident number. Both incident numbers are at the same location, but the sampling notification is required for the incident number as depicted below:

Wrongly submitted request:

Incident number nAPP2431846528 with the approval given as seen in C-141N 432480.

Correct Incident number for sampling notification: nAPP2500254282

Chad Hensley Senior Project Manager Cell: 575-200-6167

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



www.vertex.ca

Chad Hensley

Senior Project Manager

Vertex Resource Services Inc.

Carlsbad, NM 88220

P C 575.200.6167 F

www.vertex.ca

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OSE POD 0.5 Miles



12/11/2024, 8:13:17 AM GIS WATERS PODs

Active

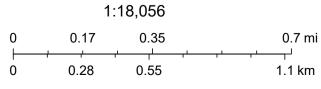
Plugged

Water Right Regulations

Artesian Planning Area

NHD Flowlines

Stream River



Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar

Released to Imaging: 3/13/2025 7:17:25 AM

Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water	(R=POD has been replaced, O=orphaned, C=the file is			(quart	ers are											
right file.)	closed)			smalle	est to lar	gest)				(NAD83 UTN	M in meters)			(In feet)	(In feet)	(In feet
POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	x	Y	Мар	Distance	Well Depth	Depth Water	Water Column
C 03782 POD1		CUB	ED	SE	SW	SW	28	25S	30E	604525.7	3551444.2	•	2522	805	277	528
<u>C 01360</u>		CUB	ED	SE	SW	SW	05	26S	30E	602996.6	3548152.0	•	3142	770	173	597
<u>C 04705 POD1</u>		CUB	ED	NE	NW	NE	35	25S	29E	598866.5	3551191.8	•	3155			
<u>C 01361</u>		CUB	ED	SW	SE	SW	05	265	30E	603240.4	3548157.5	•	3221	775	184	591
C 03581 POD1		CUB	ED	SE	SE	SE	05	265	30E	604298.2	3548291.8	•	3646	800	320	480
<u>C 03483</u>		С	ED	SE	SE	SE	05	26S	30E	604296.3	3548251.4	•	3676	700	200	500
C 04558 POD1		CUB	ED	SW	SE	SW	23	25S	29E	598353.7	3553039.4	•	4130			
C 04529 POD1		CUB	ED	NW	SW	NW	18	25S	30E	601076.9	3555733.7	•	4689			
C 04755 POD2		CUB	ED	SE	NW	SW	12	26S	29E	599857.0	3546955.1	•	4711	25		
<u>C 04720 POD1</u>		CUB	ED	SE	NW	SW	12	26S	29E	599807.3	3546968.8	•	4722			
<u>C 04755 POD1</u>		CUB	ED	SE	NW	SW	12	265	29E	599787.4	3546971.4	•	4729	40		
<u>C 04720 POD4</u>		CUB	ED	SE	NW	SW	12	265	29E	599812.4	3546955.0	•	4732			
<u>C 04720 POD2</u>		CUB	ED	SE	NW	SW	12	26S	29E	599835.7	3546932.1	•	4741			
<u>C 04720 POD3</u>		CUB	ED	SE	NW	SW	12	26S	29E	599835.7	3546932.1	•	4741			
<u>C 04720 POD5</u>		CUB	ED	SE	NW	SW	12	265	29E	599840.0	3546920.4	8	4750	20		
<u>C 04720 POD6</u>		CUB	ED	SE	NW	SW	12	26S	29E	599857.7	3546880.9	•	4777	31		
<u>C 04755 POD3</u>		CUB	ED	SE	NW	SW	12	26S	29E	599747.8	3546862.3	•	4844	103		
														Average [Pepth to Wa	ter: 230 f є
														Minimum	Depth: 173	feet
														Maximum	Depth: 320	feet
4																>

Record Count: 17

<u>UTM Filters (in meters):</u>

Easting: 602022 **Northing:** 3551140 **Radius:** 005000

* UTM location was derived from PLSS - see Help

Received by OCD: 3/6/2025 10:08:14 AM
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

12/11/24 6:21 AM MST Water Column/Average Depth to Water

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Point of Diversion Summary

		quarte	ers are smallest to	largest				NAD83 UTM	in meters		
Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Мар	
	C 03782 POD1	SE	SW	SW	28	25S	30E	604525.7	3551444.2	•	
UTM locatio	n was derived from P	LSS - see H	elp								
Driller License:	331	Drille	r Company:	SBQ2, I	LLC DBA	STEWA	RT BRO	THERS DRILL	ING CO.		
Driller Name:	STEWART, Jo	OEL H.									
Drill Start Date:	2015-01-16	Drill F	Finish Date:	2015-0	1-17				Р	lug Date:	
Log File Date:	2015-02-19	PCW	Rcv Date:						s	ource:	Artesia
Pump Type	e:	Pipe I Size:	Discharge						_	stimated ield:	
Casing Size	e: 8.63		ո Well։	805					_	epth Water:	277

Water Bearing Stratifications:

Тор	Bottom	Description
260	320	Sandstone/Gravel/Conglomerate
320	380	Sandstone/Gravel/Conglomerate
380	410	Sandstone/Gravel/Conglomerate
410	530	Shale/Mudstone/Siltstone
530	590	Shale/Mudstone/Siltstone
590	600	Shale/Mudstone/Siltstone
600	630	Shale/Mudstone/Siltstone
630	650	Shale/Mudstone/Siltstone
650	700	Shale/Mudstone/Siltstone
700	710	Shale/Mudstone/Siltstone
710	760	Shale/Mudstone/Siltstone
760	770	Shale/Mudstone/Siltstone

Bottom	Description
780	Shale/Mudstone/Siltstone
790	Shale/Mudstone/Siltstone
805	Shale/Mudstone/Siltstone
	780 790

Casing Perforations:

Тор	Bottom
270	805

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

12/11/24 6:57 AM MST Point of Diversion Summary

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Water Right Summary WR File Number: Subbasin: **Cross Reference: Primary Purpose: EXP EXPLORATION** <u>list</u> **Primary Status:** PMT Permit **Total Acres:** Subfile: Header: **Total Diversion:** 0.000 Cause/Case: Owner: ATKINS ENGR ASSOC INC **CHRIS CORTEZ Contact:** Owner: BOPCO, L.P. BRIAN PREGGER Contact: **Documents on File** (acre-feet per annum) Transaction Status Status Trn # File/Act 2 Transaction Desc. From/To Images Doc Acres Diversion Consumptive get images 555125 EXPL 2014-11-14 PMT LOG C 03782 0.000 0.000 **Current Points of Diversion POD Number** Well Tag Х Υ **Other Location Desc** Source Q64 Q16 **Q4** Rng Tws C 03782 POD1 Artesian SE SW SW 28 255 30F 604525.7 3551444.2 2/3 MILE SW OF HEDGEHOG ROAD * UTM location was derived from PLSS - see Help

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

12/11/24 6:59 AM MST Water Rights Summary

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LICENSE NUMBER

DRILLING STARTED

01-16-15

331



NAME OF LICENSED DRILLER

805

Joel H. Stewart

DRILLING ENDED

01-17-15

	OSE POD NUMBE	<u></u>	•	Α	~		OSE FILE NUMBER(S)	Renui	nBere.
AIION	POD-1	Kenumb	ered C.	3832-Po	02		C3782 (explorator	y) (·	<u> 383 </u>
LUCAI	WELL OWNER NA BOPCO, L.P.	AME(S)					PHONE (OPTIONAL) (817) 390-8662		
WELL	WELL OWNER M. 201 N Main S				, , ,		Fort Worth	STATE TX	7610
AND	WELL LOCATION	LATITUDE	DEGREES 32	MINUTES 05	SECONDS 40.1	N	* ACCURACY REQUIRED: ONE T	ENTH OF A SEC	OND
JENEKAI	(FROM GPS)	LONGITUDE	103	53	32.2	w	* DATUM REQUIRED: WGS 84		

BORE HOLE DEPTH (FT)

±805

DEPTH OF COMPLETED WELL (FT)

SW1/4SE1/4SW1/4SW1/4 of Section 28, Township 25 South, Range 30 East, in the NE corner of a well pad.

COMPLETI	ED WELL IS:	ARTESIAN	O DRY HOLE O SHALLOW (UNC	CONFINED)	STATIC WATER LEV	EL IN COMPLETED WE	LL (FT)
DRILLING	FLUID:	C AIR	MUD ADDITIVES – SP	ECIFY:			•
DRILLING	METHOD:	ROTARY	C HAMMER C CABLE TOOL	OTHER - SPECIFY:			
DEPTI	TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
O	270	14.75	ASIM A53B	Welded	8.625	0.322	35
270	805	14.75	304 Stainless Steel	Welded	8.625	0.25	्राम् १६
U	15	19	A21W A23R	444	16	0.25	
						****	<u>9</u>
							70
						N 0	
							: 73
DEPTI	I (feet bgl)	BORE HOLE	LIST ANNULAR SEAL M	ATERIAL AND	AMOUNT	METHO	D OE

		<u> </u>		<u> </u>		
7	DEPTH FROM	(feet bgl)	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
TERLA	0	120	14.75	Sand Mix Ready Mix	90.36	grav. tremie meas.
MAT	120	170	14.75	Hydrated Bentonite Chips	35.90	grav. tremie meas.
K	170	805	14,75	6/9 Silica Sand	455.95	Tremie Pipe
ANN						
m						
:		ì				

FOR OSE INTERNAL USE	Renumbere	d from C-3	782-POD1

WR-20 WELL RECORD & LOG (Version 06/08/2012)

NAME OF WELL DRILLING COMPANY

DEPTH WATER FIRST ENCOUNTERED (FT)

SBQ Drilling, LLC

FILE NUMBER 6-3832 25.30.28.3343 LOCATION

TRN NUMBER 555125

PAGE 1 OF 2

Silverio Galindo, Gabriel Armijo, Pedro Pizano THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: Silverio Galindo, Gabriel Armijo, Pedro Pizano THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: Silverio Galindo, Gabriel Armijo, Pedro Pizano Correct Record of The Above Described Hole And That He or SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: Silverio Galindo, Gabriel Armijo, Pedro Pizano Correct Record of The Above Described Hole And That He or SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: Silverio Galindo, Gabriel Armijo, Pedro Pizano Correct Record of The Above Described Hole And That He or SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: Silverio Galindo, Gabriel Armijo, Pedro Pizano Silverio Galindo, Ga		DEPTH (feet bgl)	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES/NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)			
30 40 10 Sandy Silt, light brown, sub-angular	1	U	30	30	Cemented Sand, light tan, sub-angular	$O^{Y}O^{N}$				
Figure 1 Figure 2 Slity Sand, light brown, sub-angular C Y C N		30	40	10	Sandy Silt, light brown, sub-angular	7607 5647				
250		40	60	20	Sandy clay, reddish brown	$O \times O N$				
250 260 10		60	80	20	Silty Sand, light brown, sub-angular	OYON				
250 320 60 Fine Sand, light tan, sub-angular		80	250	170	Fine to Medium Sand, light tan, sub-angular to rounded	$O^{Y}O^{N}$				
Correct record of the above described hole and that the or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and the permit had the permit holder within 20 days after completion of well drilling:	ii.	250	260	10	Clayey Sand, brown, sub-angular	$O_A O_N$				
Correct record of the above described hole and that the or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and the permit had the permit holder within 20 days after completion of well drilling:	VEL	260	320	60	Fine Sand, light tan, sub-angular	⊙ Y C N				
Correct record of the above described hole and that the or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and the permit had the permit holder within 20 days after completion of well drilling:	P.	320	380	60	Silty Sand, brownish gray, sub-angular	© Y C N	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Correct record of the above described hole and that the or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and the permit had the permit holder within 20 days after completion of well drilling:	00	380	410	30	Fine Sand, dark gray, sub-angular					
Correct record of the above described hole and that the or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and the permit had the permit holder within 20 days after completion of well drilling:	IC F	410	530	120	Clayey Fine Sand, dark gray, sub-angular	● Y C N				
Correct record of the above described hole and that the or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and the permit had the permit holder within 20 days after completion of well drilling:	503	530	590	60	Sandy Clay, dark gray, sub-angular	● Y O N				
Correct record of the above described hole and that the or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and the permit had the permit holder within 20 days after completion of well drilling:	EO	590	600	10	Clayey Fine Sand, dark gray, sub-angular	© Y O N				
Correct record of the above described hole and that the or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and the permit had the permit holder within 20 days after completion of well drilling:	ROC	600	630	30	Sandy Clay, dark gray, sub-angular	● Y C N				
Correct record of the above described hole and that the or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and the permit had the permit holder within 20 days after completion of well drilling:	EXD	630	650	20	Clayey Sand, dark gray, sub-angular	● Y O N				
710 760 50 Sandy Clay, dark gray, sub-angular 760 770 10 Clay, 75% gray, 25% red 770 780 10 Clay, 50% gray, 50% red 780 790 10 Clay, 50% gray, 50% red 790 805 15 Sandy Clay, Grayish red, 10% white sand. METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: PUMP C AIR LIFT BAILER OTHER - SPECIFY: TBD by pump test WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD MISCELLANEOUS INFORMATION: Pump test will be performed at a later time. Hydrated Bentonite Chips and Sand Mix Ready Mix were placed by gravity and tagged with tremie pipe. PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE Silverio Galindo, Gabriel Armijo, Pedro Pizano THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: 2-13-45	4	650	700	50	Sandy Clay, dark gray, sub-angular	⊙ Y C N				
710 760 50 Sandy Clay, dark gray, sub-angular 760 770 10 Clay, 75% gray, 25% red 770 780 10 Clay, 50% gray, 50% red 780 790 10 Clay, 50% gray, 50% red 790 805 15 Sandy Clay, Grayish red, 10% white sand. METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: PUMP C AIR LIFT BAILER OTHER - SPECIFY: TBD by pump test WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD MISCELLANEOUS INFORMATION: Pump test will be performed at a later time. Hydrated Bentonite Chips and Sand Mix Ready Mix were placed by gravity and tagged with tremie pipe. PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE Silverio Galindo, Gabriel Armijo, Pedro Pizano THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: 2-13-45		700	710	10	Clayey Sand, brown and gray, sub-angular	● Y O N				
770 780 10 Clay, 50% gray, 50% red		710	760	50	Sandy Clay, dark gray, sub-angular					
780 790 10 Clay, 25% gray, 75% red 790 805 15 Sandy Clay, Grayish red, 10% white sand. METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: PUMP C AIR LIFT BAILER OTHER - SPECIFY: TBD by pump test WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIODS MISCELLANEOUS INFORMATION: Pump test will be performed at a later time. Hydrated Bentonite Chips and Sand Mix Ready Mix were placed by gravity and tagged with tremie pipe. PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICEUMEN Silverio Galindo, Gabriel Armijo, Pedro Pizano THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: 2 - 13 - 15		760	770	10	Clay, 75% gray, 25% red	● Y O N	, , , , , , , , , , , , , , , , , , , ,			
790 805 15 Sandy Clay, Graylsh red, 10% white sand. METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: PUMP TOTAL ESTIMATED WELL YIELD (gpm): TBD WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIODS MISCELLANEOUS INFORMATION: Pump test will be performed at a later time. Hydrated Bentonite Chips and Sand Mix Ready Mix were placed by gravity and tagged with tremie pipe. PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSES. Silverio Galindo, Gabriel Armijo, Pedro Pizano THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: July 15 July 15 July 16 July 17 July 16 July 17 July 17 July 17 July 17 July 18 Jul		770	780	10	Clay, 50% gray, 50% red	⊙ Y O N				
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: PUMP O AIR LIFT		780	790	10	Clay, 25% gray, 75% red	● Y C N				
WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD. START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD MISCELLANEOUS INFORMATION: Pump test will be performed at a later time. Hydrated Bentonite Chips and Sand Mix Ready Mix were placed by gravity and tagged with tremie pipe. PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE Silverio Galindo, Gabriel Armijo, Pedro Pizano THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: 2 - 13 - 15		790	805	15	Sandy Clay, Grayish red, 10% white sand.	● Y C N				
WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIODS MISCELLANEOUS INFORMATION: Pump test will be performed at a later time. Hydrated Bentonite Chips and Sand Mix Ready Mix were placed by gravity and tagged with tremie pipe. PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSET Silverio Galindo, Gabriel Armijo, Pedro Pizano THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: 2 - 13 - 15		METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING STRATA: PUMP		TRD			
START TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIODS MISCELLANEOUS INFORMATION: Pump test will be performed at a later time. Hydrated Bentonite Chips and Sand Mix Ready Mix were placed by gravity and tagged with tremie pipe. PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE Silverio Galindo, Gabriel Armijo, Pedro Pizano THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: Jack H. Stewart 2-13-15		C AIR LIF		BAILER (•)	OTHER – SPECIFY: TBD by pump test	WELL YIELD (gpm):				
THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: July 1	NO	WELL TES	T TEST	RESULTS - ATT I TIME, END TI	ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCL ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER	LUDING DISCHARGE N R THE TESTING PERIO	AETHOD,			
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THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: July 1	TES	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:								
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AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: July 18 July		THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND COMPLETE BECOME OF THE ADOMEDIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND THAT HE OF SHE WILL FILE THIS WILL BE FOREGOING IS A TRUE AND THAT HE OF SHE WILL FILE THIS WILL BE FOREGOING IS A TRUE AND THAT HE OF SHE WILL FILE THIS WILL BE FOREGOING IS A TRUE AND THAT HE OF SHE WILL FILE THIS WILL BE FOREGOING IS A TRUE AND THAT HE OF SHE WILL FILE THIS WILL BE FOREGOING IS A TRUE AND THAT HE OF SHE WILL FILE THIS WILL BE FOREGOING IS A TRUE AND THAT HE OF SHE WILL FILE THIS WILL BE FOREGOING IS A TRUE AND THAT HE OF SHE WILL FILE THIS WILL BE FOREGOING IS A TRUE AND THAT HE OF SHE WILL FILE THIS WILL BE FOREGOING IS A TRUE AND THAT HE OF SHE WILL FILE THIS WILL BE FOREGOING IS A TRUE AND THAT HE OF SHE WILL FILE THIS WILL BE FOREGOING IS A TRUE AND THAT HE OF SHE WILL FILE THIS WILL BE FOREGOING IS A TRUE AND THAT HE OF SHE WILL FILE THIS WILL BE FOREGOING IS A TRUE AND THAT HE OF SHE WILL FILE THIS WILL BE FOREGOING IS A TRUE AND THAT HE OF SHE WILL FILE THIS WILL BE FOREGOING IS A TRUE AND THE WILL FILE THE WILL BE FOREGOING IS A TRUE AND THE WILL FILE THE WILL BE FOREGOING IS A TRUE AND THE WILL FILE TH								
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SUCHATURE OF DRIVLER / DRIVE STONE NAME 2-13-15	SNA A		1 11		= -11/-1/-					
CICNIATURE OF DRIVEER / BRINE CICNIES MAME	6. SI	Jba	1/8	Hans						
SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE			SIGNAT	URE OF DRILLE	R / PRINT SIGNEE NAME	DATE	· ·			

FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER (-3832 POD NUMBER POD 2 TRN NUMBER 555/25

LOCATION 25.30.28.3343 PAGE 2 OF 2

Locator Tool Report

General Information:

Application ID:27

Date: 05-28-2015

Time: 12:01:24

WR File Number: C-03782-POD1

Purpose: POINT OF DIVERSION

Applicant First Name: BOPCO EXPLORATORY WELL DRILLERS RECORD

Applicant Last Name: RENUMBERED C-3832-POD2

GW Basin: CARLSBAD County: EDDY

*Critical Management Area Name(s): NONE Special Condition Area Name(s): NONE

Land Grant Name: NON GRANT

PLSS Description (New Mexico Principal Meridian):

SW 1/4 of SE 1/4 of SW 1/4 of SW 1/4 of Section 28, Township 25S, Range 30E.

Coordinate System Details:

Geographic Coordinates:

Latitude:

32 Degrees 5 Minutes 40.1 Seconds N

Longitude:

103 Degrees 53 Minutes 32.2 Seconds W

Universal Transverse Mercator Zone: 13N

NAD 1983(92) (Meters) NAD 1983(92) (Survey Feet) NAD 1927 (Meters) NAD 1927 (Survey Feet)

N: 3,551,444 E: 604,526 N: 11,651,697 E: 1,983,348 N: 3,551,243 E: 604,573

N: 11,651,036 E: 1,983,505

State Plane Coordinate System Zone: New Mexico East

NAD 1983(92) (Meters) NAD 1983(92) (Survey Feet) NAD 1927 (Meters) NAD 1927 (Survey Feet)

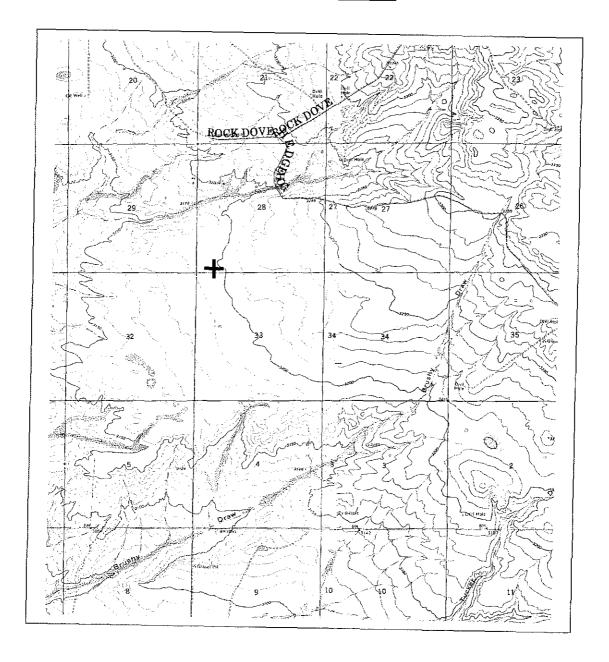
N: 121,428 E: 206,630 N: 398,385 E: 677,920 N: 121,410 E: 194,077

N: 398,327 E: 636,734



NEW MEXICO OFFICE OF STATE ENGINEER

Locator Tool Report





WR File Number: C-03782-POD1 Scale: 1:47,832

Northing/Easting: UTM83(92) (Meter): N: 3,551,444

GW Basin: Carlsbad

Page 2 of 2 Print Date: 05/28/2015

E: 604,526



Intermittent 720 feet



December 11, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

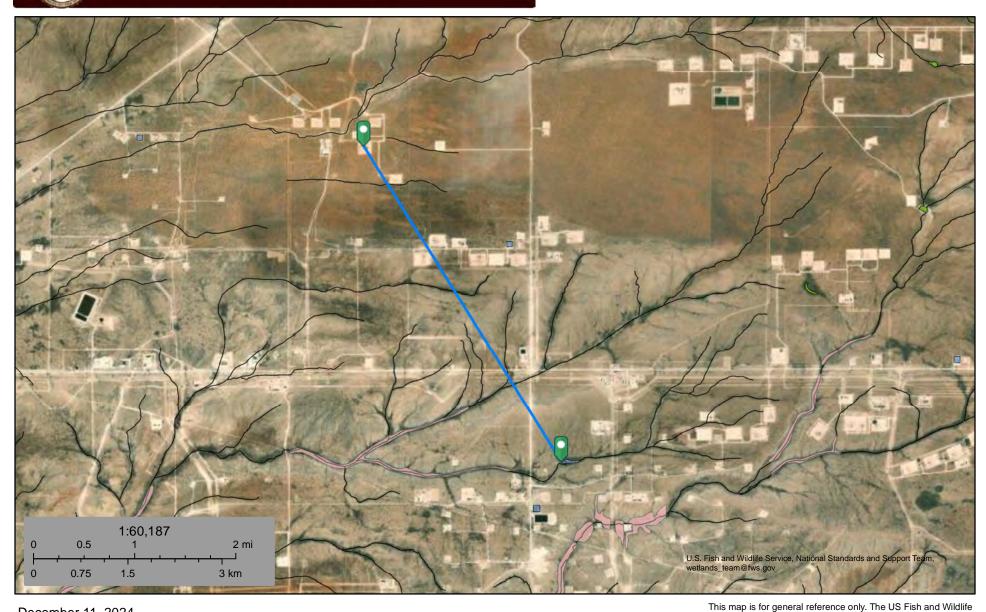
Other

Riverine

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

U.S. Fish and Wildlife Service National Wetlands Inventory

Pond 16,426 feet



December 11, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

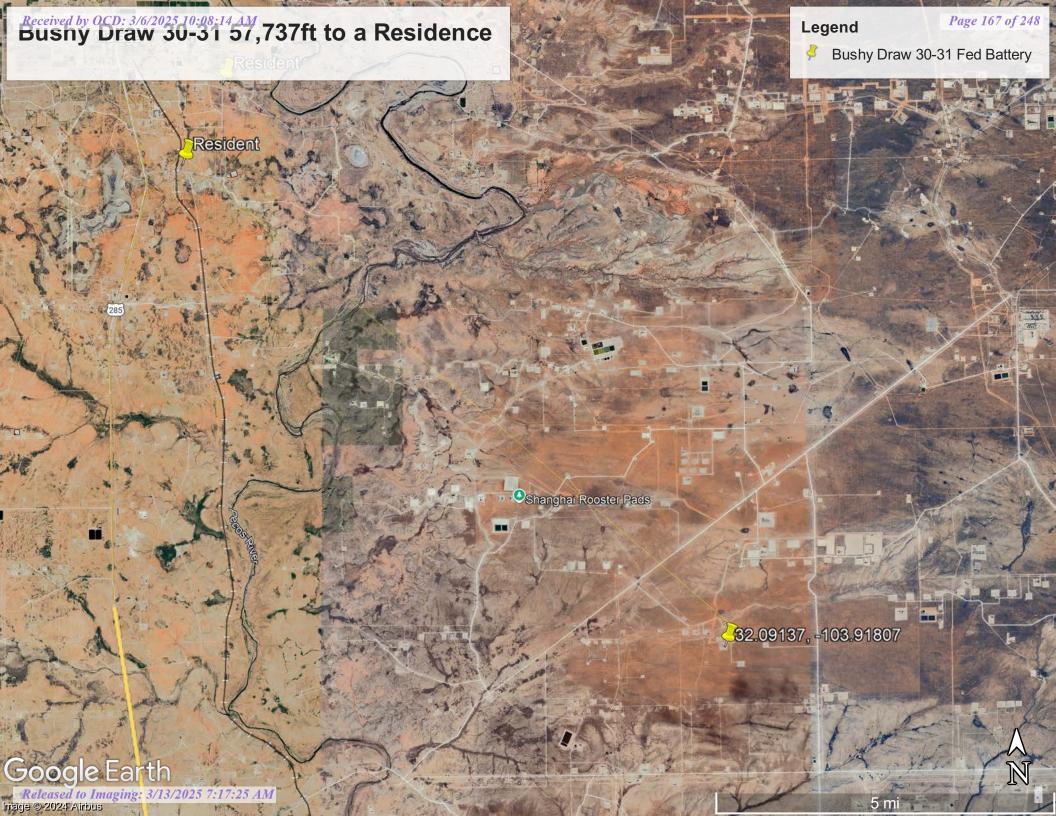
Freshwater Pond





Riverine

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.



Active & Inactive Points of Diversion

(with Ownership Information)

			(acre ft per annum)					and no	D has been replaced b longer serves this file, file is closed)			ers are 1 ers are s			W 4=SE;)	(NAD83 UTN	l in meters)		(meters)
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q64	q16	q4	Sec	Tws	Range	x	Υ	Map	Distance
<u>C 04394</u>	CUB	MON	0.000	XTO ENERGY INC	ED	C 04394 POD1	NA				SW	NE	SE	19	25S	30E	602315.9	3553464.1	•	2,342.6
C 03782	CUB	EXP	0.000	BOPCO, L.P.	ED	<u>C 03782 POD1</u>				Artesian	SE	SW	SW	28	255	30E	604525.7	3551444.2	•	2,522.1
C 01360	CUB	IND	0.000	EL PASO NATURAL GAS	ED	<u>C 01360</u>				Shallow	SE	SW	SW	05	26S	30E	602996.6	3548152.0	•	3,142.9
<u>C 03448</u>	С	PRO	0.000	DEVON ENERGY CORP.	ED	<u>C 01360</u>				Shallow	SE	SW	SW	05	265	30E	602996.6	3548152.0	•	3,142.9
<u>C 03449</u>	С	PRO	0.000	OGX RESOURCES	ED	<u>C 01360</u>				Shallow	SE	SW	SW	05	265	30E	602996.6	3548152.0	•	3,142.9
<u>C 04705</u>	CUB	MON	0.000	DEVON ENERGY	ED	C 04705 POD1	NA				NE	NW	NE	35	25\$	29E	598866.5	3551191.8	•	3,155.9
<u>C 01361</u>	CUB	IND	0.000	EL PASO NATURAL GAS	ED	<u>C 01361</u>				Shallow	SW	SE	SW	05	265	30E	603240.4	3548157.5	•	3,221.8
<u>C 03581</u>	CUB	EXP	0.000	JANEY LOREE PASCHAL	ED	C 03581 POD1				Shallow	SE	SE	SE	05	265	30E	604298.2	3548291.8	•	3,646.0
<u>C 03608</u>	С	PRO	0.000	DEVON ENERGY CORP.	ED	C 03581 POD1				Shallow	SE	SE	SE	05	265	30E	604298.2	3548291.8	•	3,646.0
<u>C 04612</u>	С	STK	3.000	JANEY LOREE PASCHALL DBA PASCHAL RANCH LLC	ED	C 04612 C-3581	NA				SE	SE	SE	05	265	30E	604298.2	3548291.8	•	3,646.0
<u>C 03483</u>	С	STK	3.000	PASCHAL RANCH LLC	ED	<u>C 03483</u>				Shallow	SE	SE	SE	05	265	30E	604296.3	3548251.4	•	3,676.5
<u>C 03501</u>	С	PRO	0.000	DEVON ENERGY CO.	ED	<u>C 03483</u>				Shallow	SE	SE	SE	05	26S	30E	604296.3	3548251.4	•	3,676.5
<u>C 03502</u>	С	PRO	0.000	DEVON ENERGY CO	ED	<u>C 03483</u>				Shallow	SE	SE	SE	05	26S	30E	604296.3	3548251.4	•	3,676.5
<u>C 03503</u>	С	PRO	0.000	DEVON ENERGY CO.	ED	<u>C 03483</u>				Shallow	SE	SE	SE	05	26S	30E	604296.3	3548251.4	•	3,676.5
<u>C 03483</u>	С	STK	3.000	PASCHAL RANCH LLC	ED	C 03483 POD3					SE	SW	SW	04	265	30E	604557.8	3548291.0	•	3,814.1
					ED	C 03483 POD2						SW	SW	04	265	30E	604565.8	3548253.6	•	3,847.4
<u>C 04851</u>	CUB	MON	0.000	COG OPERATING LLC	ED	C 04851 POD1	NA				NW	NE	NW	24	255	29E	599946.3	3554519.9	•	3,966.4
<u>C 02441</u>	С	STK	0.000	BYRON W PASCHAL	ED	<u>C 02441</u>								21	25S	30E	605077.0	3553783.0 *	•	4,039.6
<u>C 04758</u>	CUB	MON	0.000	XTO ENERGY, INC.	ED	C 04758 POD1	NA				SE	SE	SE	17	25S	30E	604096.5	3554651.8	•	4,078.8
<u>C 04558</u>	CUB	MON	0.000	XTO ENERGY INC	ED	C 04558 POD1	NA				SW	SE	SW	23	25S	29E	598353.7	3553039.4	•	4,130.9
<u>C 04730</u>	CUB	MON	0.000	XTO ENERGY, INC	ED	C 04730 POD1	NA				SW	SW	NW	27	255	30E	606032.8	3552256.2	•	4,163.2
<u>C 04529</u>	CUB	MON	0.000	XTO ENERGY INC	ED	C 04529 POD1	NA				NW	SW	NW	18	25S	30E	601076.9	3555733.7	•	4,689.9
<u>C 04755</u>	CUB	MON	0.000	DEVON ENERGY	ED	C 04755 POD2	NA				SE	NW	SW	12	265	29E	599857.0	3546955.1	•	4,711.8
<u>C 04720</u>	CUB	EXP	0.000	DEVON ENERGY	ED	<u>C 04720 POD1</u>	NA				SE	NW	SW	12	265	29E	599807.3	3546968.8	•	4,722.7
<u>C 04755</u>	CUB	MON	0.000	DEVON ENERGY	ED	<u>C 04755 POD1</u>	NA				SE	NW	SW	12	265	29E	599787.4	3546971.4	•	4,729.8
<u>C 04720</u>	CUB	EXP	0.000	DEVON ENERGY	ED	<u>C 04720 POD4</u>	NA				SE	NW	SW	12	265	29E	599812.4	3546955.0	•	4,732.5
					ED	<u>C 04720 POD2</u>	NA				SE				265			3546932.1	•	4,742.0
					ED	C 04720 PODS	NA				SE				265			3546932.1	•	4,742.0
					ED ED	C 04720 POD5 C 04720 POD6	NA NA				SE SE		SW		26S 26S			3546920.4 3546880.9	•	4,777.5
<u>C 04755</u>	CUB	MON	0.000	DEVON ENERGY	ED	C 04755 POD3	NA				SE				265			3546862.3	•	4,844.7
1																				

Record Count: 31

Filters Applied:

Point of Diversion Summary

		•	1=NW 2=NE 3 are smallest to		NAD83 UTM in meters					
Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	х	Υ	Мар
	C 01360	SE	SW	SW	05	26S	30E	602996.6	3548152.0	•

* UTM location was derived from PLSS - see Help

Driller License:	95	Driller Company:	FOLK DRILLING CO.		
Driller Name:					
Drill Start Date:	1952-04-26	Drill Finish Date:	1952-05-15	Plug Date:	
Log File Date:	1953-11-17	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	12.75	Depth Well:	770	Depth Water:	173

Water Bearing Stratifications:

Тор	Bottom	Description
210	220	Sandstone/Gravel/Conglomerate
580	585	Sandstone/Gravel/Conglomerate
665	710	Sandstone/Gravel/Conglomerate
725	770	Sandstone/Gravel/Conglomerate

Casing Perforations:

Bottom
289
770

Meter Information

Meter Number:	16557	Meter Make:	SIEMENS
Meter Serial Number:	L1254823	Meter Multiplier:	100.0000
Number of Dials:	8	Meter Type:	Diversion
Unit of Measure:	Gallons	Reading Frequency:	Quarterly

Meter Readings (in Acre-Feet)

2014-07-01							Online
2014-07-01	2014	234997.000	Α	RPT		0.000	
2014-09-30	2014	354169.000	Α	RPT		36.573	
2014-11-20	2014	7281000.000	А	RPT		0.000	
2014-12-31	2014	11430100.000	Α	RPT		12.733	
2015-04-01	2015	22535200.000	Α	RPT		34.080	
2015-07-01	2015	35821800.000	Α	RPT		40.775	
2015-10-05	2015	46631200.000	Α	RPT		33.173	
2015-12-31	2015	55653200.000	Α	RPT		27.688	
2016-01-31	2016	58047600.000	Α	RPT		7.348	
2016-02-29	2016	61081100.000	Α	RPT		9.309	
2016-03-31	2016	62593100.000	Α	RPT		4.640	
2016-06-30	2016	71642600.000	Α	RPT		27.772	
2016-10-03	2016	81998399.000	Α	RPT		31.781	
2016-12-31	2016	90558600.000	Α	RPT		26.270	
2019-04-04	2019	164290087.000	Α	RPT		226.274	
2019-10-02	2019	790380.000	Α	RPT	METER CHANGE OUT 07/2019	0.000	
2020-01-02	2020	1733720.000	Α	RPT		289.500	
2021-04-07	2021	36814117.000	Α	WEB		10765.779	X
2021-07-27	2021	36836238.000	Α	WEB		6.789	Х
2021-10-04	2021	36844496.000	Α	WEB		2.534	Х
2021-12-31	2021	36847463.000	А	WEB		0.911	Х

YTD Meter Amounts:

Year	Amount
2014	49.306
2015	135.716
2016	107.120

Year	Amount
2019	226.274
2020	289.500
2021	10776.013

Meter Information

Meter Number:	16558	Meter Make:	MASTERMETER
Meter Serial Number:	32530403	Meter Multiplier:	100.0000
Number of Dials:	6	Meter Type:	Diversion
Unit of Measure:	Gallons	Reading Frequency:	Monthly (No Reading Expected)

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2014-10-01	2014	354169.000	Α	RPT		0.000	
2014-11-20	2014	415555.000	Α	RPT		18.839	
2014-11-21	2014	72810.000	Α	RPT		0.000	
2014-12-31	2014	112178.000	Α	RPT		12.082	
2015-02-01	2015	147039.000	Α	RPT		10.698	
2015-03-02	2015	188133.000	Α	RPT		12.611	
2015-04-01	2015	224102.000	Α	RPT		11.038	
2015-04-30	2015	270723.000	А	RPT		14.307	
2015-05-31	2015	315628.000	Α	tw		13.781	
2015-07-01	2015	369075.000	Α	tw		16.402	
2015-08-01	2015	395528.000	Α	tw		8.118	
2015-08-31	2015	455361.000	Α	tw		18.362	
2015-10-01	2015	466312.000	А	RPT		3.361	

YTD Meter Amounts:

Year	Amount
2014	30.921
2015	108.678

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

12/11/24 8:01 AM MST Point of Diversion Summary

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Water Right Summary



WR File Number: C 01360 Subbasin: **Cross Reference: Primary Purpose:** IND INDUSTRIAL **Primary Status:** DCL Declaration **Total Acres:** 0.000 Subfile: Header: **Total Diversion:** 0.000 Cause/Case: EL PASO NATURAL GAS Owner: Contact: PAULA JOY

Documents on File

(acre-feet per annum)

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion	Consumptive
	<u>460091</u>	COWNF	2010-05-26	CHG	PRC	C 01360	Т	0.000	0.000	
	203459	DCL	1953-11-17	DCL	PRC	C 01360	Т	0.000	0.000	

Current Points of Diversion

POD Number W	Vell Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	Х	Υ	Мар	Other Location Desc
<u>C 01360</u>		Shallow	SE	SW	SW	05	26S	30E	602996.6	3548152.0	•	

* UTM location was derived from PLSS - see Help

Place of Use

Q256 Q64	Q16	Q4	Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
						0.000	0.000		IND		DCL	NO PLACE OF USE GIVEN.

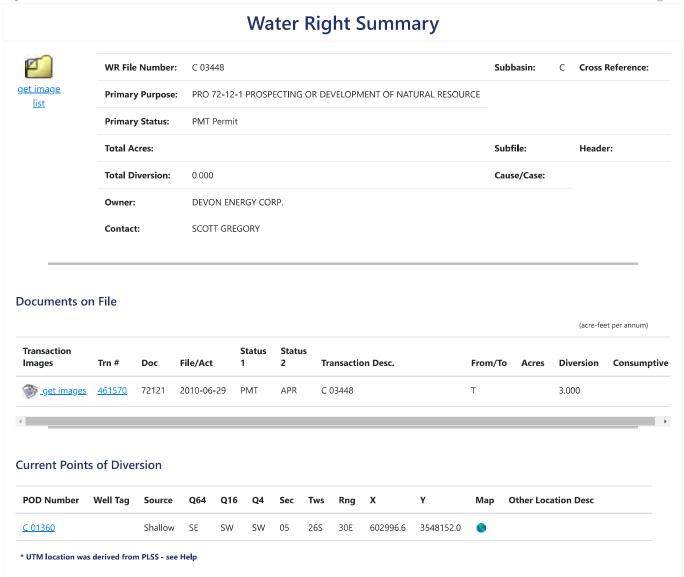
Source

Acres	Diversion	CU	Use	Priority	Source	Description
0.000	0.000		IND		GW	

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

12/11/24 7:54 AM MST Water Rights Summary

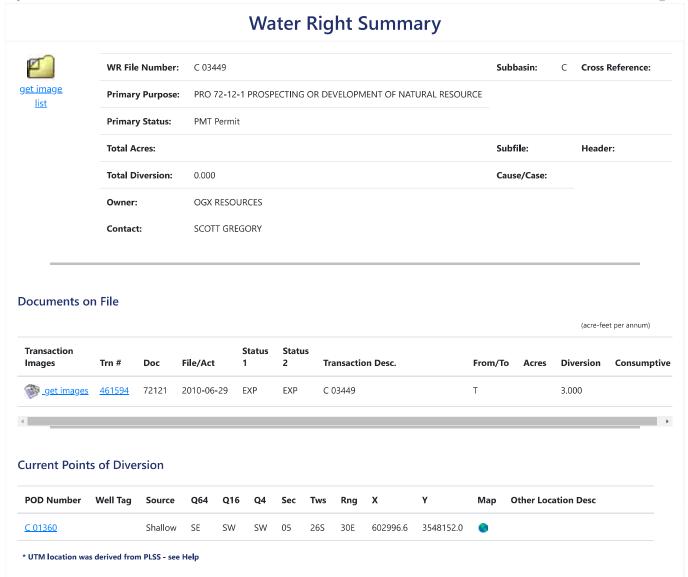
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The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any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

12/11/24 8:07 AM MST Water Rights Summary

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12/11/24 8:08 AM MST Water Rights Summary

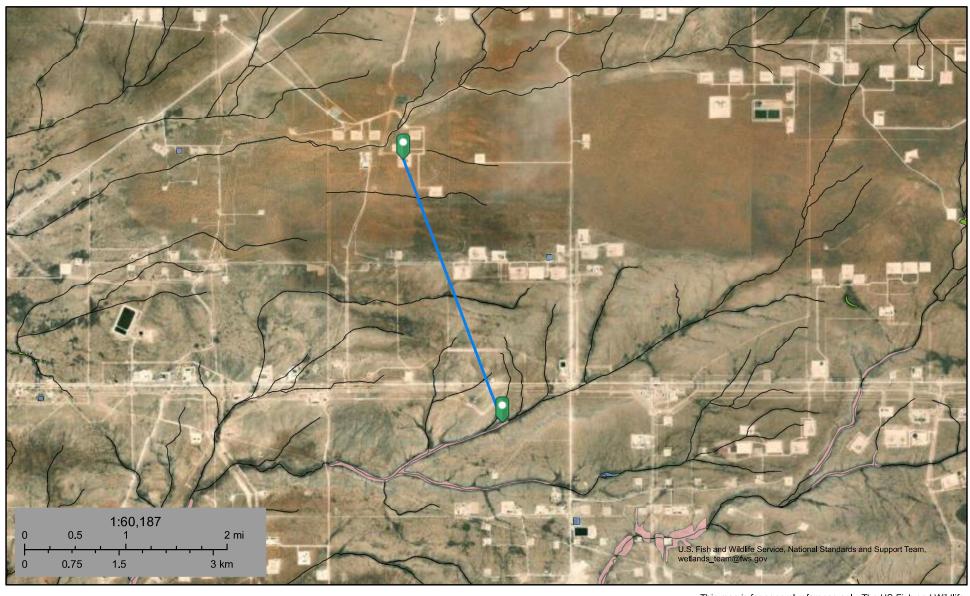
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U.S. Fish and Wildlife Service

National Wetlands Inventory

Wetland 12,393 feet



December 11, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Lake

Freshwater Forested/Shrub Wetland

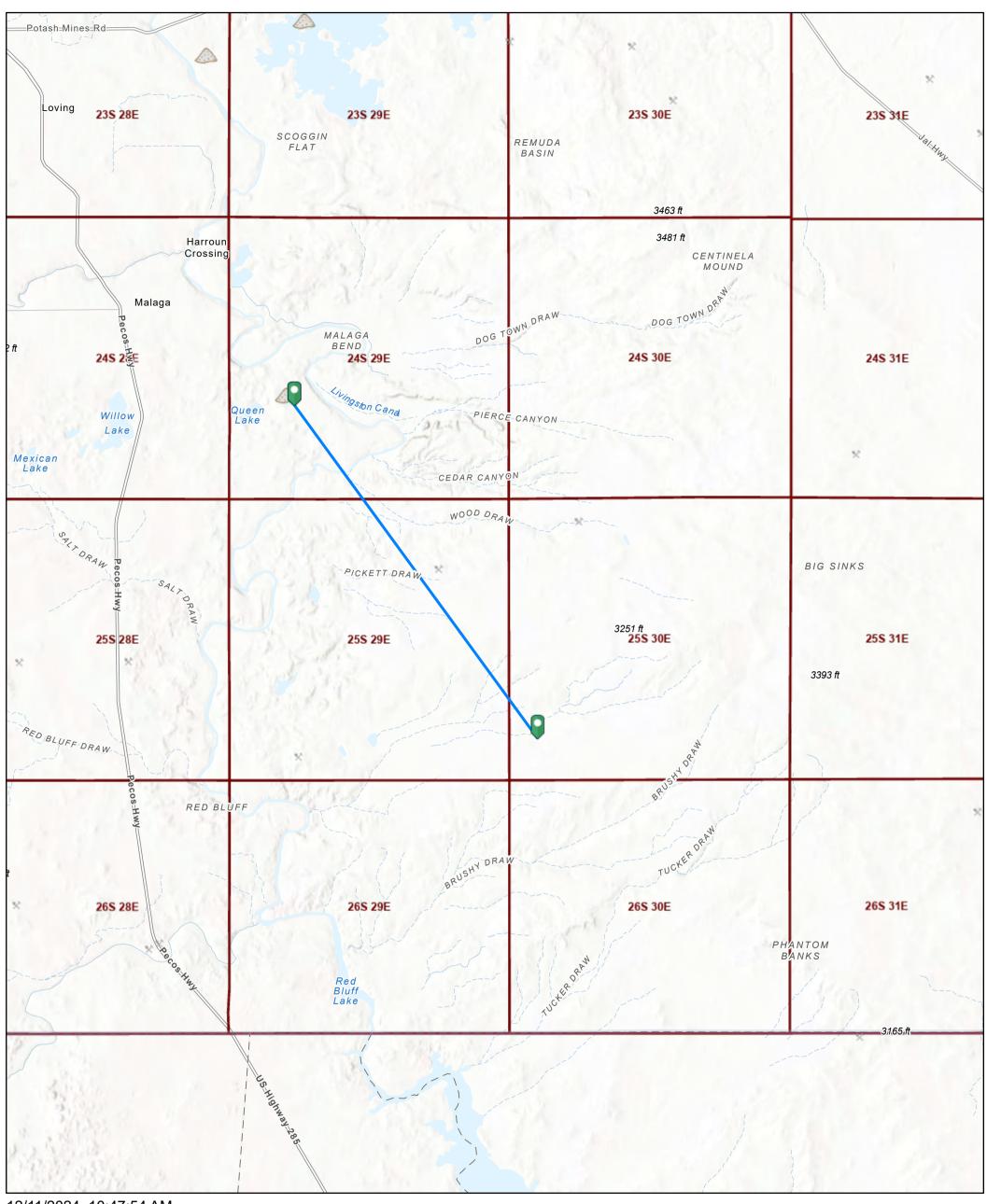


Other

Freshwater Pond Riverine

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

Salt Mine 46,820 feet



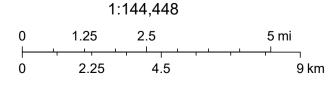
12/11/2024, 10:47:54 AM

Registered Mines

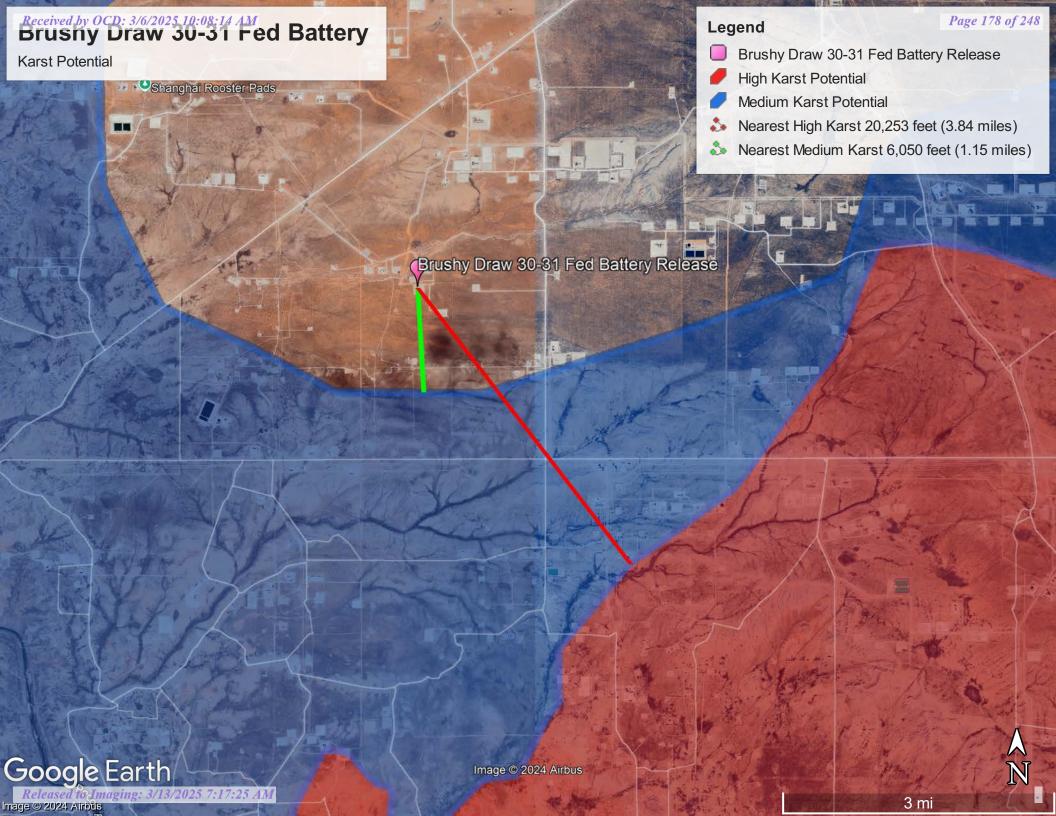
- Aggregate, Stone etc.
- Aggregate, Stone etc.

Salt

PLSS Townships



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



National Flood Hazard Layer FIRMette



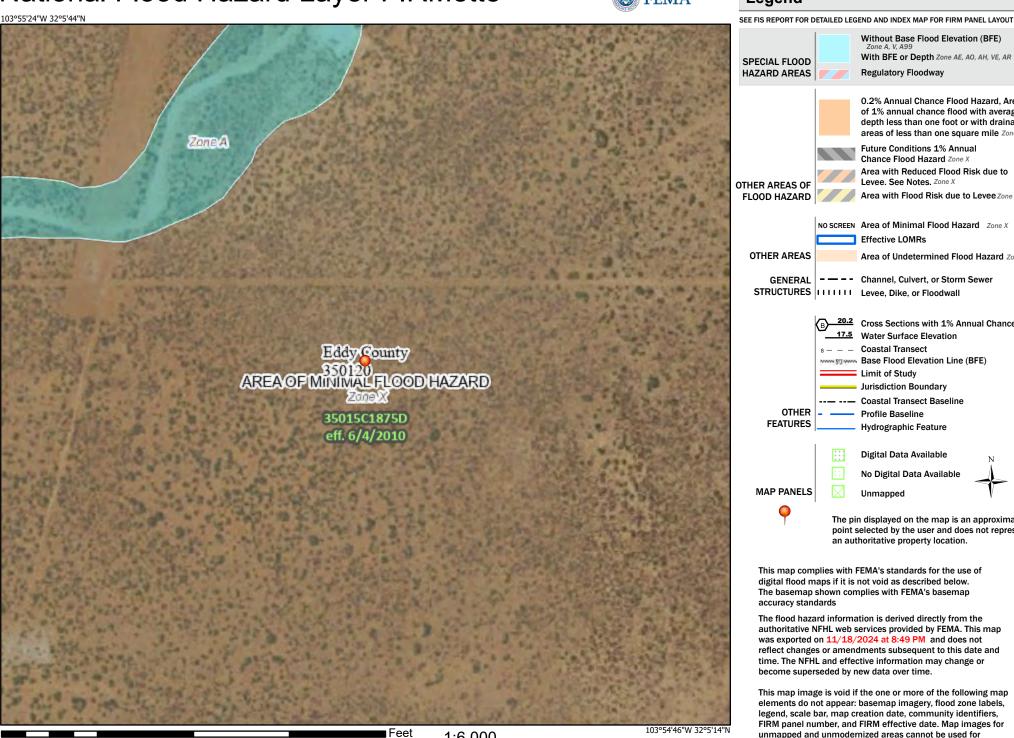


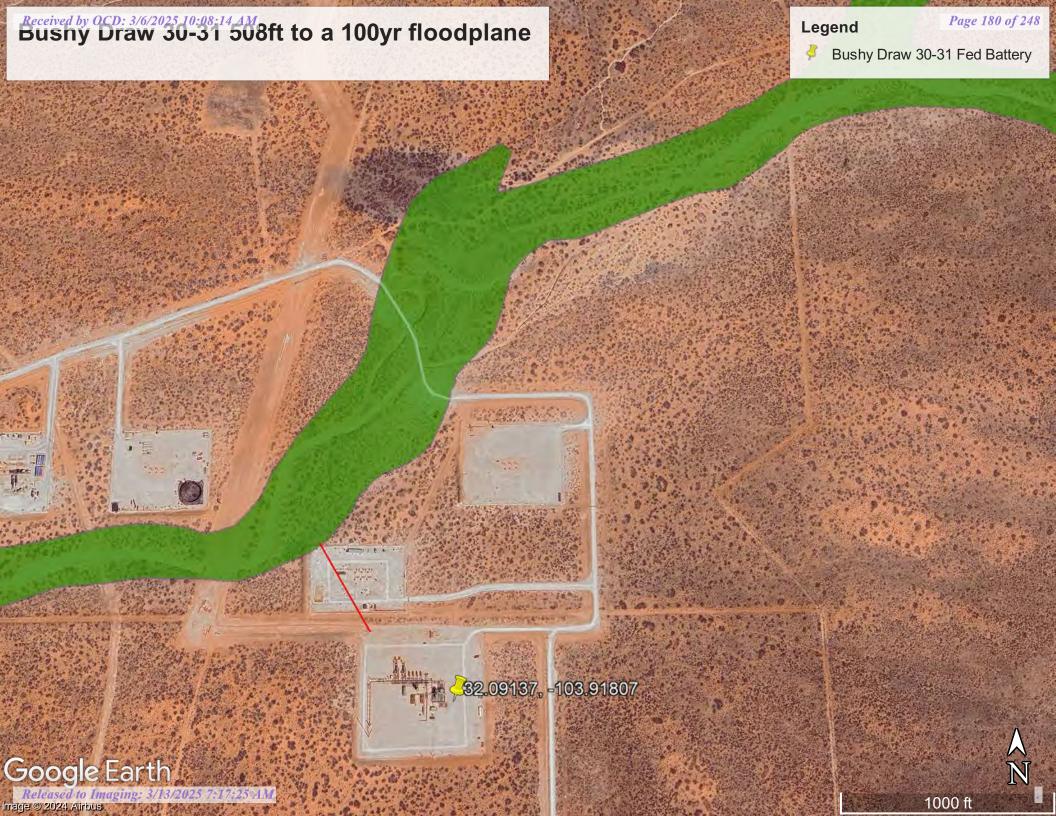
Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 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 | LILLIL 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 The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/18/2024 at 8:49 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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







VRCS

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Eddy Area, New Mexico





MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

-

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

()

Blowout

 \boxtimes

Borrow Pit

Ж

Clay Spot

 \Diamond

Closed Depression

¥

Gravel Pit

...

Gravelly Spot

0

Landfill

٨.

Lava Flow

Marsh or swamp

2

Mine or Quarry

X. ..

Miscellaneous Water

Perennial Water

0

Rock Outcrop

+

Saline Spot

...

Sandy Spot
Severely Eroded Spot

_

Sinkhole

Ø

Sodic Spot

Slide or Slip

SEND

8

Spoil Area Stony Spot

m

Very Stony Spot

Ø

Wet Spot Other

Δ

Special Line Features

Water Features

~

Streams and Canals

Transportation

ransp

Rails

~

Interstate Highways

~

US Routes

 \sim

Major Roads

~

Local Roads

Background

100

Aerial Photography

MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: 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.

Map Unit Legend (11. Bushy Draw 30-31 Soil Type)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ВВ	Berino complex, 0 to 3 percent slopes, eroded	3.7	100.0%
Totals for Area of Interest		3.7	100.0%

Map Unit Descriptions (11. Bushy Draw 30-31 Soil Type)

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

BB—Berino complex, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w43 Elevation: 2,000 to 5,700 feet

Mean annual precipitation: 5 to 15 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 260 days

Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 60 percent Pajarito and similar soils: 25 percent Minor components: 15 percent

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

Description of Berino

Setting

Landform: Plains, fan piedmonts

Landform position (three-dimensional): Riser

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand

H2 - 17 to 58 inches: sandy clay loam H3 - 58 to 60 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Description of Pajarito

Setting

Landform: Dunes, plains, interdunes

Landform position (three-dimensional): Side slope

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

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 9 inches: loamy fine sand H2 - 9 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: 40 percent Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 8.0 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

Minor Components

Pajarito

Percent of map unit: 4 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Wink

Percent of map unit: 4 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Cacique

Percent of map unit: 4 percent

Ecological site: R070BD004NM - Sandy

Hydric soil rating: No

Kermit

Percent of map unit: 3 percent

Ecological site: R070BD005NM - Deep Sand

Hydric soil rating: No

Soil Information for All Uses

Ecological Sites

Individual soil map unit components can be correlated to a particular ecological site. The Ecological Site Assessment section includes ecological site descriptions, plant growth curves, state and transition models, and selected National Plants database information.

All Ecological Sites — (12. Bushy Draw 30-31 Ecological)

An "ecological site" is the product of all the environmental factors responsible for its development. It has characteristic soils that have developed over time; a characteristic hydrology, particularly infiltration and runoff, that has developed over time; and a characteristic plant community (kind and amount of vegetation). The vegetation, soils, and hydrology are all interrelated. Each is influenced by the others and influences the development of the others. For example, the hydrology of the site is influenced by development of the soil and plant community. The plant community on an ecological site is typified by an association of species that differs from that of other ecological sites in the kind and/or proportion of species or in total production.

An ecological site name provides a general description of a particular ecological site. For example, "Loamy Upland" is the name of a rangeland ecological site. An "ecological site ID" is the symbol assigned to a particular ecological site.

The map identifies the dominant ecological site for each map unit, aggregated by dominant condition. Other ecological sites may occur within each map unit. Each map unit typically consists of one or more components (soils and/or miscellaneous areas). Each soil component is associated with an ecological site. Miscellaneous areas, such as rock outcrop, sand dunes, and badlands, have little or no soil material and support little or no vegetation and therefore are not linked to an ecological site. The table below the map lists all of the ecological sites for each map unit component in your area of interest.



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

R070BD003NM

Not rated or not available

Soil Rating Lines

R070BD003NM

Not rated or not available

Soil Rating Points

■ R070BD003NM

Not rated or not available

Water Features

Streams and Canals

Transportation

+++ Rails

Interstate Highways

us US

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

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

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Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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Table—Ecological Sites by Map Unit Component (12. Bushy Draw 30-31 Ecological)

Map unit symbol	Map unit name	Component name (percent)	Ecological site	Acres in AOI	Percent of AOI
BB	Berino complex, 0 to 3 percent slopes,	Berino (60%)	R070BD003NM — 3.7 100.0% Loamy Sand		
	eroded	Pajarito (25%)	R070BD003NM — Loamy Sand		
		Cacique (4%)	R070BD004NM — Sandy		
		Pajarito (4%)	R070BD003NM — Loamy Sand		
		Wink (4%)	R070BD003NM — Loamy Sand		
		Kermit (3%)	R070BD005NM — Deep Sand		
Totals for Area of In	terest	1	ı	3.7	100.0%



Ecological site R070BD003NM Loamy Sand

Accessed: 09/02/2024

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

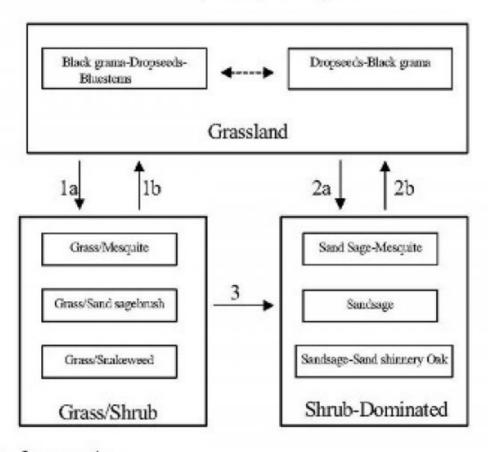
The Loamy Sand site intergrades with the Deep Sand and Sandy sites (SD-3). These sites can be differentiated by surface soil texture and depth to a textural change. Loamy Sand and Deep Sand sites have coarse textured (sands and loamy sand) surface soils while Sandy sites have moderately coarse textured (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):

MLRA-42, SD-3, Loamy Sand



- 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					
Non-vascular plants	0%				
Biological crusts					
Litter					
Surface fragments >0.25" and <=3"					
Surface fragments >3"	0%				
Bedrock	0%				
Water					
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 .

Jai	ı Fe	eb	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





*Black grams/Mesquite community, with some dropseeds, threeours, and scattered sand shimory oak *Oracs 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	BOBA3	Bothriochloa barbinodis	37–61	_
	silver bluestem	BOSA	Bothriochloa saccharoides	37–61	_
4	Warm Season	•	•	123–184	
	black grama	BOER4	Bouteloua eriopoda	123–184	_
	bush muhly	MUPO2	Muhlenbergia porteri	123–184	_
5	Warm Season	•	•	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			61–123	
	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 neomexicana	37–61	_
	giant dropseed	SPGI	Sporobolus giganteus	37–61	_
10	Shrub	•	•	61–123	

13. Bushy Draw 30-31 Geology



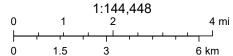
11/18/2024, 2:41:54 PM

Lithologic Units

Playa—Alluvium and evaporite deposits (Holocene)

Water—Perenial standing water

Qa—Alluvium (Holocene to upper Pleistocene)



Esri, NASA, NGA, USGS, NMBGMR, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global

Departed Site

Daily Site Visit Report

11/21/2024 3:07 PM



Client:	XTO Energy Inc. (US)	Inspection Date:	11/21/2024				
Site Location Name:	Brushy Draw 30-31 Fed Battery	Report Run Date:	12/2/2024 2:33 PM				
Client Contact Name:	Amy Ruth	API #:					
Client Contact Phone #:	432-661-0571						
Unique Project ID		Project Owner:					
Project Reference #		Project Manager:					
Summary of Times							
Arrived at Site	11/21/2024 10:11 AM						



Site Sketch

Site Sketch



Field Notes

14:55 Delineate spill area

Next Steps & Recommendations

1 Send samples to lab for analysis



Site Photos







Viewing Direction: West BH24-06 @ 4'

BH24-05 @ 4'

Viewing Direction: North

BH24-07



Daily Site Visit Signature

Inspector: Riley Plogger

Signature:



Client:	XTO Energy Inc. (US)	Inspection Date:	2/16/2025				
Site Location Name:	Brushy Draw 30-31 Fed	Report Run Date:	2/17/2025 2:07 AM				
	Battery						
Client Contact Name:	Amy Ruth	API #:					
Client Contact Phone #:	432-661-0571						
Unique Project ID		Project Owner:					
Project Reference #		Project Manager:					
Summary of Times							
Arrived at Site	2/16/2025 7:01 AM						
Departed Site	2/16/2025 4:38 PM						
Field Notes							

- 9:29 Incident north of treating equipment. Completed Vertex and XTO JSA on arrival. Communicated to XTO and confirmed work clearance. On site to collect confirmation samples from excavation surfaces on north side of pad.
- 9:29 Swept excavation sampling areas with magnetic locator prior to sample collection.
- 9:30 Collected confirmation samples from surfaces of excavations to 1, 1.5, 2, 3, 4, and 5 feet bgs on north side of pad and into pasture. Confirmation samples collected from the excavation base and walls were 5-point composites representing areas no greater than 200 square feet.
- 16:02 Collected confirmation samples WS25-08 and WS25-09 from walls of excavations to 3 and 2 feet bgs, respectively. Collected confirmation samples WS25-10, WS25-11, WS25-14, and WS25-20 from walls of excavations to 1.5 feet bgs. Collected confirmation samples WS25-12, WS25-13, and WS25-17 from walls of excavations to 1 feet bgs. Collected confirmation samples WS25-15 and WS25 -16 WS25-06 from walls of excavation to 2 feet bgs. Collected confirmation samples WS25-18 and WS25-19 from walls of excavations to 4 and 5 feet bgs, respectively. Field screening results were below NMOCD strictest criteria for chloride and TPH.
- 16:04 Collected confirmation samples BS25-45 through BS25-48 from base of excavation to 2 feet bgs. Collected confirmation samples BS25-49 through BS25-55 from base of excavation to 1 feet bgs. Collected confirmation samples BS25-56, BS25-57, and BS25-58 from base of excavations to 5, 4, and 1.5 feet bgs, respectively. Field screening results were below NMOCD strictest criteria for chloride and TPH.



Next Steps & Recommendations

- 1 Continue collecting confirmation samples from prepared excavations.
- **2** Continue excavation immediately north of treating equipment.



Site Photos

Viewing Direction: West



At pad entrance facing west.

Viewing Direction: North



North edge of pad facing north. Collected WS25-14 from pasture excavation wall to 1.5 feet bgs.





North edge of pad facing east. Collected WS25-12 and WS25-13 excavation wall to 1 feet bgs.



North side of pad facing northwest. Collected WS25-12 and WS25-13 excavation wall to 1 feet bgs.



North side of pad facing west. Collected WS25-09 and WS25-10 from excavation walls to 2 and 1.5 feet bgs.



North side of pad facing southwest. Collected WS25-09 and WS25-10 from excavation walls to 2 and 1.5 feet bgs.





North side of pad facing east. Collected WS25-08 and WS25-11 from excavation walls to 3 and 1.5 feet bgs.



Viewing Direction: North

North side of pad facing northeast. Collected WS25-08 and WS25-11 from excavation walls to 3 and 1.5 feet bgs.



North side of pad facing north. Collected BS25-45, BS25-46, and WS25-16 from excavation to 2 feet bgs.



North side of pad facing northeast. Collected BS25-45 through BS25-48, WS25-15, and WS25-16 from excavation to 2 feet bgs.







North side of pad facing west. Collected BS25-47, BS25-48, WS25-15, and WS25-16 from excavation to 2 feet bgs.

Viewing Direction: East



North side of pad facing east. Collected BS25-49 through BS25-55 and WS25-17 from excavation to 1 feet bgs.

Viewing Direction: Southwest



North side of pad facing southwest. Collected BS25-49 through BS25-55 and WS25-17 from excavation to 1 feet bgs.

Viewing Direction: North



North side of pad facing north. Collected BS25-56 through BS25-58 and WS25-18 through WS25-20 from excavations to 1.5, 4, and 5 feet bgs.







North side of pad facing west. Collected BS25-56 through BS25-58 and WS25-18 through WS25-20 from excavations to 1.5, 4, and 5 feet bgs.

Viewing Direction: South

North side of pad facing south. Collected BS25-56 through BS25-58 and WS25-18 through WS25-20 from excavations to 1.5, 4, and 5 feet bgs.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:



Client:	XTO Energy Inc. (US)	Inspection Date:	2/17/2025
Site Location Name:	Brushy Draw 30-31 Fed Battery	Report Run Date:	2/18/2025 2:23 AM
Client Contact Name:	Amy Ruth	API #:	
Client Contact Phone #:	432-661-0571	_	
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
		Janimai y Ji	
Arrived at Site	2/17/2025 6:44 AM		
Departed Site	2/17/2025 4:54 PM		
	·	<u> </u>	

Field Notes

- **8:59** Incident north of treating equipment. Completed Vertex and XTO JSA on arrival. Conducted safety meeting with Halo work crew. Communicated to XTO and confirmed work clearance. On site to continue excavation north of treating equipment. Also on site to continue collecting confirmation samples from completed excavation on north side of pad.
- 8:59 Swept excavation areas with magnetic locator. Infrastructure proximity introduced interference.
- **14:16** Collected confirmation samples from surfaces of excavations to 1, 1.5, 2, and 3 feet bgs on north side of pad and into pasture. Confirmation samples collected from the excavation base and walls were 5-point composites representing areas no greater than 200 square feet.
- 16:06 Collected confirmation samples BS25-22 and BS25-23 from base of excavation to 3 feet bgs. Collected confirmation samples BS25-24 through 26 from base of excavation to 2 feet bgs. Collected confirmation samples BS25-27 through BS25-34 from base of excavation to 1.5 feet bgs on pad. Collected confirmation samples BS25-35 through BS25-40 from base of excavation to 1 feet bgs. Collected confirmation samples BS25-41 through BS25-44 from base of excavation to 1.5 feet bgs in pasture off north edge of pad. Field screening results were below NMOCD strictest criteria for chloride and TPH.
- **16:07** Packed confirmation samples for laboratory analyses. Confirmation sampling for excavation on north side of pad is tentatively completed to date pending laboratory results.



16:08 Halo work crew continued to dig excavation between pipes north of treating equipment to 3 feet bgs with hand tools. Excavation was not completed and was to continue the following day.

Next Steps & Recommendations

1 Continue excavation.



Site Photos

Viewing Direction: West



At pad entrance facing west.

Viewing Direction: West



North side of pad facing west. Collected BS25-27 through BS25-30 from excavation to 1.5 feet bgs.

Viewing Direction: West



North side of pad facing west. Collected BS25-22 and BS25-23 from excavation to 3 feet bgs.

Viewing Direction: Southwest



North side of pad facing southwest. Collected BS25-24 through BS25-27 from excavation to 2 feet bgs.







North side of pad facing northeast. Collected BS25-31 through BS25-34 from excavation to 1.5 feet bgs.

Viewing Direction: East



North side of pad facing east. Collected BS25-31 through BS25-34 from excavation to 1.5 feet bgs.

Viewing Direction: East



North side of pad facing east. Collected BS25-35 through BS25-40 from excavation to 1 feet bgs.

Viewing Direction: Northwest



North side of pad facing northwest. Collected BS25-35 through BS25-40 from excavation to 1 feet bgs.







North edge of pad facing southeast. Collected BS25-35 through BS25-40 from excavation to 1 feet bgs.

Viewing Direction: Southeast



North of pad facing southeast. Collected BS25-41 through BS25-44 from excavation in pasture to 1.5 feet bgs.

Viewing Direction: North



North edge of pad facing north. Collected BS25 -41 through BS25-44 from excavation in pasture to 1.5 feet bgs.

Viewing Direction: North



North of treating equipment facing north. Excavation to 3 feet bgs incomplete.





North of treating equipment facing east. Excavation to 3 feet bgs incomplete.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:



Client:	XTO Energy Inc. (US)	Inspection Date:	2/20/2025
Site Location Name:	Brushy Draw 30-31 Fed Battery	Report Run Date:	2/21/2025 2:38 AM
Client Contact Name:	Amy Ruth	API #:	
Client Contact Phone #:	432-661-0571		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	2/20/2025 7:10 AM		
Departed Site	2/20/2025 4:47 PM		
		Field No.	

Field Notes

- **7:16** Incident north of treating equipment. Completed Vertex and XTO JSA on arrival. Conducted safety meeting with Halo work crew. Communicated to XTO and confirmed work clearance. On site to complete excavation on north side of pad. Also on site to collect confirmation samples from excavation surfaces.
- **7:18** Swept excavation and sampling areas with magnetic locator. Infrastructure proximity introduced interference.
- 13:48 Halo crew completed excavation to 2 feet bgs east of pipelines. Excavation tentatively completed pending field screening results.
- **13:51** Collected confirmation samples from surfaces of excavations to 3, 4, and 6 feet north of treating equipment. Confirmation samples collected from the excavation base and walls were 5-point composites representing areas no greater than 200 square feet.
- **14:42** Collected confirmation samples BS25-01 through BS25-09 from base of excavation to 4 feet bgs. Collected confirmation samples BS25-10 through BS25-20 from base of excavation to 6 feet bgs. Collected confirmation samples BS25-59 and BS25-60 from base of excavation to 3 feet bgs between pipes. Collected confirmation sample BS25-21 and BS25-68 through BS25-70 from base of excavation to 3 feet bgs along pipelines. Field screening results were below NMOCD strictest criteria for chloride and TPH.
- **15:25** Collected confirmation samples WS25-01 through WS25-04 from walls of excavation to 4 feet bgs. Collected confirmation samples WS25-05 through WS25-07 from walls of excavation to 6 feet bgs. Collected confirmation samples WS25-21 and WS25-22 from wall of excavation to 3 feet bgs between pipes. Field screening results were below NMOCD strictest criteria for chloride and TPH.



15:26 Remaining confirmation samples to be collected the following day.

Next Steps & Recommendations

- 1 Submit confirmation samples for laboratory analyses.
- 2 Collect remaining confirmation samples.



Site Photos





At pad entrance facing west.

Viewing Direction: South



North of treating equipment facing south. Excavation completed east of pipelines.

Viewing Direction: North



North of treating equipment facing north. Excavation completed east of pipelines.

Viewing Direction: North



At treating equipment facing north. Collected confirmation samples from excavations to 4 and 6 feet bgs.







North of treating equipment facing north. Collected confirmation samples from excavations to 4 and 6 feet bgs.



North of treating equipment facing north. Collected confirmation samples from excavations to 4 and 6 feet bgs.

Viewing Direction: Northwest



North of treating equipment facing northwest. Collected confirmation samples from excavations to 4 and 6 feet bgs.

Viewing Direction: South



North of treating equipment facing southeast. Collected confirmation samples from excavations to 4 and 6 feet bgs.







North of treating equipment facing south. Collected confirmation samples from excavations to 4 and 6 feet bgs.

Viewing Direction: Southwest

North of treating equipment facing southwest. Collected confirmation samples from excavations to 4 and 6 feet bgs.

Viewing Direction: Southwest



North of treating equipment facing southwest. Collected confirmation samples from excavations to 3 feet bgs between pipes.

Viewing Direction: Southeast



North of treating equipment facing southeast. Collected confirmation samples from excavations to 3 feet bgs between pipes.







North of treating equipment facing southeast. Collected confirmation samples from excavations to 3 feet bgs between pipes.

Viewing Direction: North



North of treating equipment facing north. Collected confirmation samples from excavation to 3 feet bgs over pipelines.

Viewing Direction: North



North of treating equipment facing northwest. Collected confirmation samples from excavations to 3 feet bgs between pipes.

Viewing Direction: South



North of treating equipment facing south. Collected confirmation samples from excavation to 3 feet bgs over pipelines.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:



Client:	XTO Energy Inc. (US)	Inspection Date:	2/21/2025
Site Location Name:	Brushy Draw 30-31 Fed Battery	Report Run Date:	2/22/2025 5:04 PM
Client Contact Name:	Amy Ruth	API #:	
Client Contact Phone #:	432-661-0571		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of ⁻	Times
Arrived at Site	2/21/2025 7:02 AM		
Departed Site	2/21/2025 4:44 PM		
		Field Net	

Field Notes

- **10:30** Incident north of treating equipment. Completed Vertex and XTO JSA on arrival. Conducted safety meeting with Halo work crew. Communicated to XTO and confirmed work clearance. On site to complete excavation on north side of pad. Also on site to complete confirmation sampling of excavation surfaces.
- **10:30** Swept excavation areas with magnetic locator. Infrastructure proximity introduced interference.
- **10:31** Halo work crew completed the excavation to 2 feet bgs west of the pipelines with hand tools due to proximity of equipment. Excavation completed pending confirmation sampling laboratory results.
- **14:02** Collected confirmation samples from surfaces of excavations to 2 and 3 feet bgs north of treating equipment. Confirmation samples collected from the excavation base and walls were 5-point composites representing areas no greater than 200 square feet.
- **4:16** Collected confirmation samples BS25-61 through BS25-67 from base of excavation to 2 feet bgs west of pipelines. Collected confirmation samples BS25-71 through BS25-75 from base of excavation to 2 feet bgs east of pipelines. Field screening results were below NMOCD strictest criteria for chloride and TPH.
- **4:22** Collected confirmation samples WS25-23 and WS25-24 from walls of excavation to 2 feet bgs west of pipelines. Collected confirmation sample WS25-27 from walls of excavation to 2 feet bgs east of pipelines. Collected confirmation samples WS25-25 and WS25-26 from walls of excavation to 3 feet bgs over pipelines. Field screening results were below NMOCD strictest criteria for chloride and TPH.



- **4:26** Halo stockpiled backfill and topsoil on site as material was hauled out. Collected composite samples from backfill and topsoil stockpiles. Field screening results were below NMOCD strictest criteria for chloride and TPH.
- **4:26** Excavation and confirmation sampling completed pending laboratory results.

Next Steps & Recommendations

- 1 Submit confirmation samples to laboratory for analyses.
- **2** Submit backfill and topsoil samples to laboratory for analyses.



Site Photos





At site entrance facing west.

Viewing Direction: North



North of treating equipment facing north. Completed excavation west of pipelines to 2 feet bgs.







North of treating equipment facing north. Collected confirmation samples from excavation west of pipelines to 2 feet bgs.



North of treating equipment facing south. Collected confirmation samples from excavation west of pipelines to 2 feet bgs.

Viewing Direction: Northwest



North of treating equipment facing northwest. Collected confirmation samples from excavation west of pipelines to 2 feet bgs.

Viewing Direction: South



North of treating equipment facing south. Collected confirmation samples from excavation west of pipelines to 2 feet bgs.







North of treating equipment facing southeast. Collected confirmation samples from excavation west of pipelines to 2 feet bgs.

Viewing Direction: Southeast



North of treating equipment facing southeast. Collected confirmation samples from walls of excavation over pipelines to 3 feet bgs.

Viewing Direction: Southwest



North of treating equipment facing southwest. Collected confirmation samples from walls of excavation over pipelines to 3 feet bgs.

Viewing Direction: South



North of treating equipment facing south. Collected confirmation samples from excavation east of pipelines to 2 feet bgs.







North of treating equipment facing southeast. Collected confirmation samples from excavation east of pipelines to 2 feet bgs.

Viewing Direction: Northeast



North of treating equipment facing northeast. Collected confirmation samples from excavation east of pipelines to 2 feet bgs.

Viewing Direction: North



North of treating equipment facing north. Collected confirmation samples from excavation east of pipelines to 2 feet bgs.

Viewing Direction: North



North of treating equipment facing north.
Collected confirmation samples from
excavation east of pipelines to 2 feet bgs.





North edge of pad facing north. Completed excavation in pasture.



North of pad facing southeast. Completed excavation in pasture.



North edge of pad facing southeast. Completed excavation.



North edge of pad facing southeast. Completed excavation.





North edge of pad facing south. Completed excavation.



North edge of pad facing southwest.
Completed excavation.



North side of pad facing northwest. Completed excavation.



North side of pad facing east. Completed excavation.







North side of pad facing southwest. Completed excavation.



North side of pad facing south. Completed excavation.

Viewing Direction: East



North side of pad facing east. Completed excavation.

Viewing Direction: Southeast



North side of pad facing southwest. Completed excavation.







North side of pad facing west. Completed excavation.

Viewing Direction: East

North side of pad facing east. Completed excavation.

Viewing Direction: Southeast



North side of pad facing southeast. Completed excavation.

Viewing Direction: Northeast



North of treating equipment facing northeast. Completed excavation.





North of treating equipment facing southwest. Completed excavation.



North of treating equipment facing northwest. Completed excavation.



North of treating equipment facing north. Completed excavation.



At treating equipment facing north. Completed excavation.





North of tank battery facing west. Backfill stockpile.



North side of pad facing west. Topsoil stockpile.



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 439746

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	439746
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2431846528	
Incident Name	NAPP2431846528 BRUSHY DRAW 30-31 FED BATTERY @ 0	
Incident Type	Release Other	
Incident Status	Remediation Closure Report Received	
Incident Facility	[fAPP2207332396] BRUSHY DRAW 30-31 FED BATTERY	

Location of Release Source		
Please answer all the questions in this group.		
Site Name	BRUSHY DRAW 30-31 FED BATTERY	
Date Release Discovered	11/10/2024	
Surface Owner	Federal	

Incident Details		
Please answer all the questions in this group.		
Incident Type	Release 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 for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Cause: Corrosion Other (Specify) Crude Oil Released: 27 BBL Recovered: 2 BBL Lost: 25 BBL.	
Produced Water Released (bbls) Details	Cause: Corrosion Other (Specify) Produced Water Released: 108 BBL Recovered: 2 BBL Lost: 106 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)	Release was from the bulk line	

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 2

Action 439746

Santa	1 e, 14141 07 303
QUESTI	ONS (continued)
Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380 Action Number: 439746
	Action Type: [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	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	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	afety 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 ed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe 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 require uses 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 to 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: 03/06/2025

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

QUESTIONS, Page 3

Action 439746

QUESTIONS (continued)

 Operator:
 OGRID:
 5380

 6401 Holiday Hill Road
 Action Number:
 439746

 Midland, TX 79707
 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 approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)	
Any other fresh water well or spring	Between 1 and 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between 1 and 5 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Between 1 and 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Between 500 and 1000 (ft.)	
Did the release impact areas not on an exploration, development, production, or storage site	Yes	

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to t	the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in mill	ligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	6800	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	4598	
GRO+DRO (EPA SW-846 Method 8015M)	4101	
BTEX (EPA SW-846 Method 8021B or 8260B)	0	
Benzene (EPA SW-846 Method 8021B or 8260B)	0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed which includes the anticipated timelines for beginning and completing the remediation.	efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
On what estimated date will the remediation commence	01/22/2025	
On what date will (or did) the final sampling or liner inspection occur	02/21/2025	
On what date will (or was) the remediation complete(d)	04/15/2025	
What is the estimated surface area (in square feet) that will be reclaimed	570	
What is the estimated volume (in cubic yards) that will be reclaimed	85	
What is the estimated surface area (in square feet) that will be remediated	10268	
What is the estimated volume (in cubic yards) that will be remediated 1560		
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.		

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QUESTIONS, Page 4

Action 439746

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	439746
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed 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
Title: Environmental Analyst
Email: robert.d.woodall@exxonmobil.com
Date: 03/06/2025

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.

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QUESTIONS, Page 5

Action 439746

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	439746
	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 439746

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	439746
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	433328
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/21/2025
What was the (estimated) number of samples that were to be gathered	51
What was the sampling surface area in square feet	8900

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	12920	
What was the total volume (cubic yards) remediated	1343	
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	850	
What was the total volume (in cubic yards) reclaimed	44	
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: 03/06/2025

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QUESTIONS, Page 7

Action 439746

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	439746
	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 439746

CONDITIONS

Operator:	OGRID:
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6401 Holiday Hill Road	Action Number:
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	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation closure approved.	3/13/2025
bhall	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	3/13/2025
bhall	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	3/13/2025
bhall	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	3/13/2025
bhall	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	3/13/2025
bhall	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	3/13/2025