Incident ID: nAB1532334246

Release Assessment and Closure

Todd 36 State #001

Section 36, Township 23 South, Range 31 East

API: 30-015-20341

County: Eddy

Vertex File Number: 25A-01349

Prepared for:

Devon Energy Production Company, LP

Prepared by:

Vertex Resource Services Inc.

Date:

March 2026

Release Assessment and Closure
Todd 36 State #001
Section 36, Township 23 South, Range 31 East
API: 30-015-20341
County: Eddy

Prepared for:
Devon Energy Production Company, LP
5321 Buena Vista Drive
Carlsbad, New Mexico 88220

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

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

Katrina Taylor
Katrina Taylor, B.Sc.
ENVIRONMENTAL SPECIALIST, REPORTING

March 30, 2026
Date

Sally Carttar
Sally Carttar, B.A.
PROJECT MANAGER, REPORT REVIEW

April 7, 2026
Date

Table of Contents

In-text Tables

List of Figures

List of Tables

List of Appendices

1.0 Introduction

Devon Energy Production Company, LP (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment and Closure for a produced water release that occurred on January 21, 2015, at Todd 36 State #001 API 30-015-20341 (hereafter referred to as the "site"). Devon submitted an initial C-141 Release to New Mexico Oil Conservation Division (NMOCD) District 2 on January 23, 2015. Incident ID nAB1532334246 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 the termination of all oil and gas activities and site reclamation as per NMAC 19.15.29.13.

2.0 Incident Description

The release occurred on January 21, 2015, due to a hole in the water tank. The incident was reported on January 23, 2015, and involved the release of approximately 75 barrels (bbl) of produced water onto the pad surface. Approximately 50 bbl of free fluid was removed during initial clean-up. Additional details relevant to the release are presented in the C-141 Report included in Appendix A.

3.0 Site Characteristics

The site is located approximately 20 miles east of Malaga, New Mexico. The legal location for the site is Section 36, Township 23 South and Range 31 East in Eddy County, New Mexico. The release area is located on Bureau of Land Management (BLM) 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 the constructed pad Figure 1).

The Geological Map of New Mexico 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 alluvial fans and fan piedmonts with elevations ranging between 3,100 and 4,200 feet. The climate is semiarid with average annual precipitation ranging between 10 and 14 inches. Predominant soil textures on the site are well drained fine sand and fine sandy loam. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be grasses with scattered shrubs (United States Department of Agriculture, Natural Resources Conservation Service, 2025). Limited to no vegetation is allowed to grow on the compacted production pad.

4.0 Closure Criteria Determination

The nearest depth to groundwater reference to the site is an exploratory borehole advanced 0.497 miles to the south on June 1, 2023. The borehole was terminated at 105 feet below ground surface (bgs) without encountering the water surface (New Mexico Office of the State Engineer, 2025). Information pertaining to the depth to ground water determination is included in Appendix B.

The nearest active well to the site is a sanitary and commercial well located approximately 0.58 miles north-northwest of the site (New Mexico Office of the State Engineer, 2025). 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 4.47 miles west 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. Further information supporting closure criteria determination is included in Appendix B and below in Table 1.

Table 1. Closure Criteria Determination			
Site Name: Todd 36 State #001 Pad			
Spill Coordinates: 32.262704,-103.733261		**X: 619312**	**Y: 3570259**
Site Specific Conditions		**Value**	**Unit**
1	Depth to Groundwater (nearest reference)	**>105**	feet
	Distance between release and nearest DTGW reference	**2,625**	feet
		0.497	miles
	Date of nearest DTGW reference measurement	**June 1, 2023**	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	23,600	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	27,590	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	27,476	feet
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**	3,041	feet
	ii) Within 1000 feet of any fresh water well or spring	3,041	feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	11,240	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
	Distance between release and nearest registered mine	57,255	feet
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
	Distance between release and nearest High Karst	36,802	feet
10	Within a 100-year Floodplain	>500	year
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	31,859	feet
11	Soil Type	Fine sand, fine sandy loam	
12	Ecological Classification	Loamy sand	
13	Geology	Eolian and piedmont deposits	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	>100'	<50' 51-100' >100'

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

Table 2. Closure Criteria for Soils Impacted by a Release

Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Limit
> 100 feet	Chloride	20,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

TDS – total dissolved solids
TPH – total petroleum hydrocarbons, GRO – gas range organics, DRO – diesel range organics, MRO – motor oil range organics
BTEX – benzene, toluene, ethylbenzene and xylenes

5.0 Remedial Actions Taken

Characterization of the release area on the pad east and south of the tank battery was completed by Vertex between October 26, 2022, and April 12, 2023, including horizontal delineation to strictest criteria and vertical delineation to closure criteria. Two boreholes to 13 feet bgs were conducted with equipment in 2023 and fulfills the NMOCD's requirement of delineation greater than 10 ft bgs on historical releases. The total impacted area was determined to be 6,951 square feet. Daily Field Reports associated with characterization site visits were included in the approved Site Characterization (Application 528327). Characterization sample locations and approximate release area are presented on Figure 1. Characterization laboratory results are summarized in Table 3. The original laboratory data associated with the samples was included in the approved Site Characterization (Application 528327). Vertex's variance for confirmation samples to represent increments of 400 square feet over the undisturbed impacted area was approved with the site characterization on February 5, 2026. The variance is included in Appendix D.

Remediation efforts began and were finalized on February 9, 2026. Vertex personnel supervised the excavation of impacted soils to closure criteria. Field screening consisted of analysis using a Dexsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and an electroconductivity meter (chloride). Field screening results were used to identify areas requiring further remediation. Soils were removed to a depth of 1 foot bgs in the north of the release area. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. Daily Field Reports documenting the results of the remediation are presented in Appendix C.

Notification that confirmation samples were being collected was provided to the NMOCD. Confirmation 5-point composite samples collected from the surface of the undisturbed impacted areas of the pad were collected in increments no greater than 400 square feet per the approved variance. A total of 17 confirmation surface samples were collected from the approximate 6,766 square feet of undisturbed release area. Confirmation 5-point composite samples were collected from the base and walls of the excavation in increments no greater than 200 square feet. The areas of the excavation base and walls were approximately 198 and 56 square feet, respectively. A total of one excavation base

sample and two excavation wall samples were collected for laboratory analysis following NMOCD soil sampling procedures. A composite sample of the backfill material was collected on February 26, 2026, directly from the source at Lea Land. Samples were submitted to Eurofins Environment Testing in Albuquerque, New Mexico, 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 E. Confirmation sample locations are presented on Figure 2. All final confirmation samples collected and analyzed were below closure criteria for the site.

Upon completion of remedial actions, approximately 198 square feet and 7.3 cubic yards of the pad surface was remediated to closure criteria. All confirmation samples collected from the remediation area were below closure criteria. Surface confirmation samples from the undisturbed release area met closure criteria. At time of facility decommissioning and deconstruction, the remediation depth of the total impact area is estimated to be 4 feet bgs to meet NMOCD requirements for reclamation. The total impact area includes the excavation and undisturbed areas and covers approximately 6,964 square feet. The estimated volume of soil remaining to be removed to meet reclamation standards is 1,025 cubic yards. The remediation areas, undisturbed impact areas and corresponding confirmation sampling locations are shown on Figure 2.

6.0 Closure Request

Vertex recommends no additional remedial action to address the release at Todd 36 State #001. Laboratory analyses of the final confirmatory samples showed constituent of concern concentration levels below NMOCD remediation closure criteria for areas where depth to groundwater is greater than 100 feet bgs as shown in Table 2. There are no anticipated risks to human, ecological or hydrological receptors associated with the release sites. The excavation was backfilled with non-waste-containing, uncontaminated, earthen material, sourced locally, and placed to meet the site's existing grade to prevent ponding of water and erosion.

Devon Energy Production Company, LP, requests that incident nAB1532334246 be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. Devon certifies that all information in this report and the attachments is correct, and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain closure on the January 21, 2015, release at Todd 36 State #001.

Should you have any questions or concerns, please do not hesitate to contact the Project Manager Sally Carttar at 346.814.1413 or scarttar@vertexresource.com

7.0 References

Google Inc. (2025). *Google Earth Pro (Version 7.3.3)* [Software]. Retrieved from https://earth.google.com

New Mexico Bureau of Geology and Mineral Resources. (2025). *Interactive Geologic Map*. Retrieved from https://maps.nmt.edu/

New Mexico Office of the State Engineer. (2025). *Point of Diversion Location Report - New Mexico Water Rights Reporting System*. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/wellSurfaceDiversion.html

New Mexico Oil Conservation Division. (2018). *New Mexico Administrative Code – Natural Resources and Wildlife Oil and Gas Releases*. Santa Fe, New Mexico.

United States Department of Agriculture, Natural Resources Conservation Service. (2025). *Web Soil Survey*. Retrieved from https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx

United States Department of Homeland Security, Federal Emergency Management Agency. (2025). *FEMA Flood Map Service: Search by Address*. Retrieved from https://msc.fema.gov/portal/search?AddressQuery=malaga%20new%20mexico#searchresultsanchor

United States Department of the Interior, Bureau of Land Management. (2018). *New Mexico Cave/Karst*. Retrieved from https://www.nm.blm.gov/shapeFiles/cfo/carlsbad_spatial_data.html

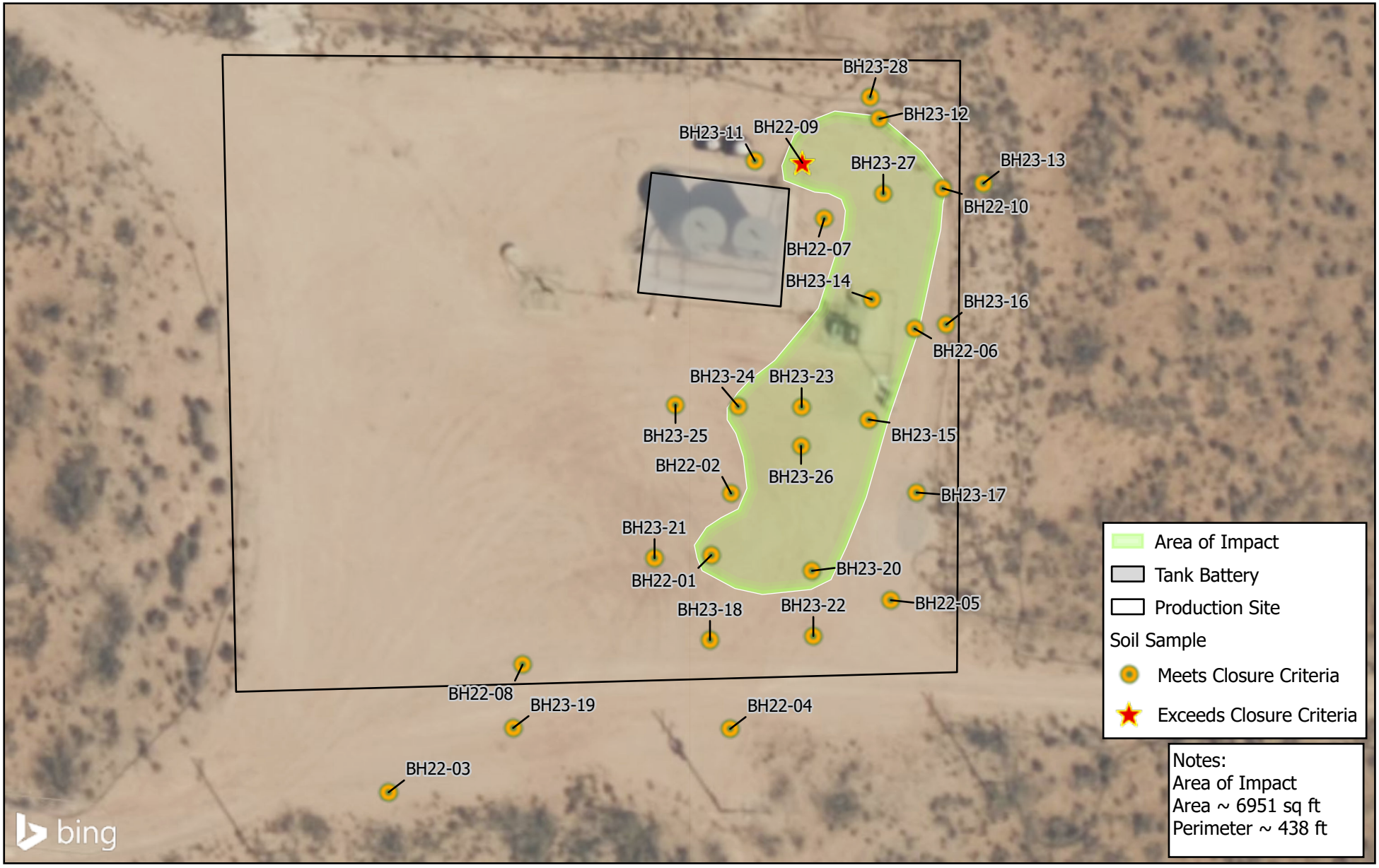
United States Fish and Wildlife Service. (2025). *National Wetland Inventory - Surface Waters and Wetlands*. Retrieved from https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/

8.0 Limitations

This report has been prepared for the sole benefit of Devon Energy Production Company, LP. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division and the New Mexico Bureau of Land Management, without the express written consent of Vertex Resource Services Inc. (Vertex) and Devon Energy Production Company, LP. 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 25 50 ft

NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Map Center:
Lat/Long: 32.26259°N, 103.733495°W

Date: Apr 23/25

N

Characterization Sampling Site Schematic
Todd 36 State #001

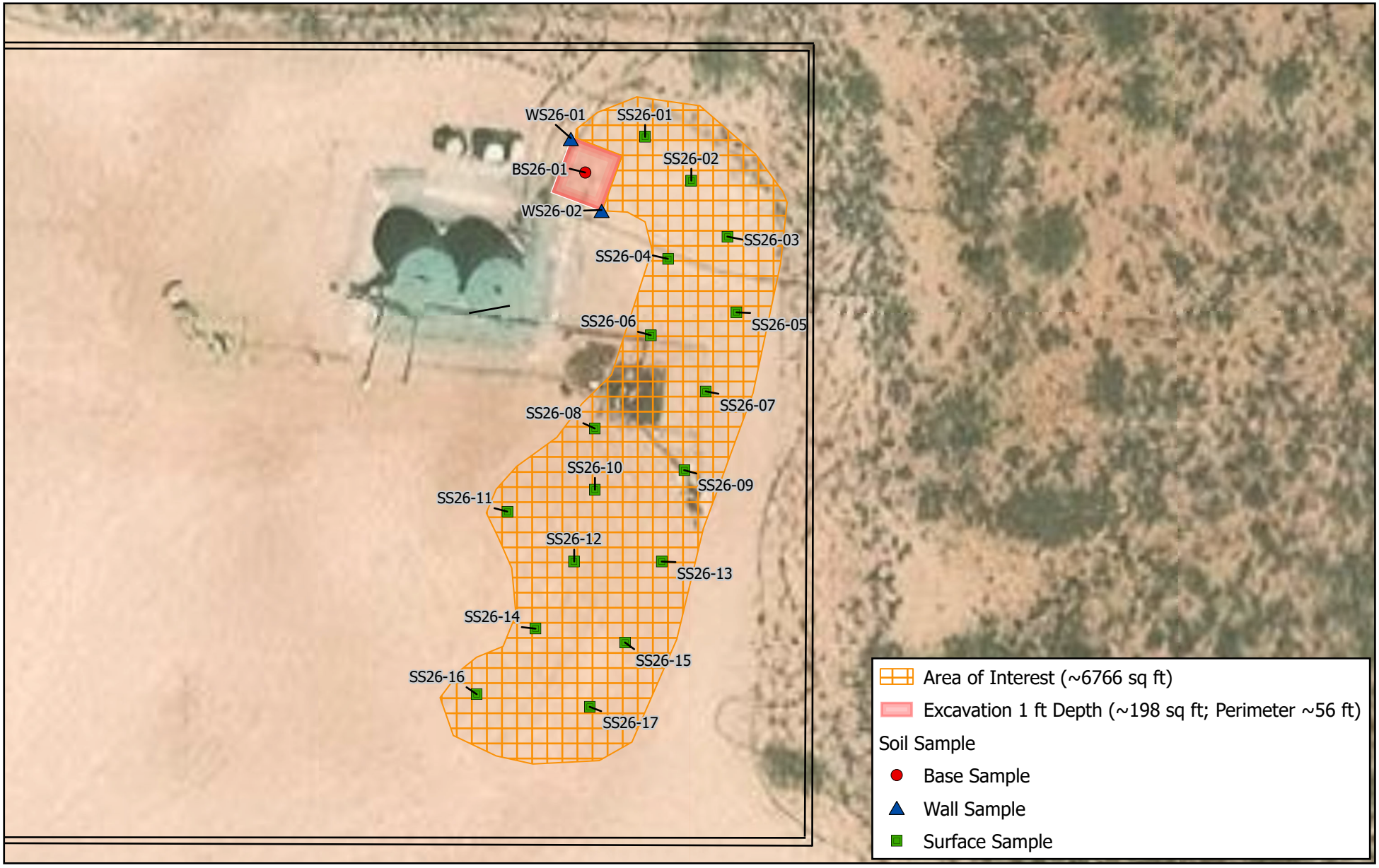
FIGURE:
1

devon

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

Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

VERSATILITY. EXPERTISE.



VERTEX

0 20 40 ft

NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Map Center:
Lat/Long: 32.262663°N, 103.73329°W

Date: Feb 11/26

N

Confirmation Sample Locations
Todd 36 State #001

FIGURE:
2

devon

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

Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

VERSATILITY. EXPERTISE.

TABLES

Client Name: Devon Energy Production Company, LP
Site Name: Todd 36 State #001
NMOCD Tracking #: nAB1532334246, 2RP-3405
Project #: 25A-01349
Lab Reports: 2210E20, 2211737, 2303C31, 2303D16, 2303C84, 2303F73, 2304087, and 2304667

Table 2. Initial Characterization Laboratory Results - Depth to Groundwater >100 feet bgs

Sample Description			Petroleum Hydrocarbons							Inorganic
			Volatile		Extractable					
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH22-01	0	October 26, 2022	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 26, 2022	ND	ND	ND	ND	ND	ND	ND	410
	4	October 26, 2022	ND	ND	ND	ND	ND	ND	ND	740
	6	October 26, 2022	ND	ND	ND	ND	ND	ND	ND	2,600
BH22-02	0	October 26, 2022	ND	ND	ND	ND	ND	ND	ND	100
	2	October 26, 2022	ND	ND	ND	ND	ND	ND	ND	96
	4	October 26, 2022	ND	ND	ND	ND	ND	ND	ND	120
BH22-03	0	October 26, 2022	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 26, 2022	ND	ND	ND	ND	ND	ND	ND	65
	4	October 26, 2022	ND	ND	ND	ND	ND	ND	ND	94
BH22-04	0	October 26, 2022	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 26, 2022	ND	ND	ND	ND	ND	ND	ND	ND
	4	October 26, 2022	ND	ND	ND	ND	ND	ND	ND	84
BH22-05	0	October 26, 2022	ND	ND	ND	ND	ND	ND	ND	260
	2	October 26, 2022	ND	ND	ND	ND	ND	ND	ND	ND
	4	October 26, 2022	ND	ND	ND	ND	ND	ND	ND	81
BH22-06	0	October 26, 2022	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 26, 2022	ND	ND	ND	ND	ND	ND	ND	470
	4	October 26, 2022	ND	ND	ND	ND	ND	ND	ND	1,700
BH22-07	0	October 26, 2022	ND	ND	ND	ND	ND	ND	ND	470
	2	October 26, 2022	ND	ND	ND	ND	ND	ND	ND	570
	4	October 26, 2022	ND	ND	ND	ND	ND	ND	ND	460
BH22-08	0	October 26, 2022	ND	ND	ND	ND	ND	ND	ND	83
	2	October 26, 2022	ND	ND	ND	ND	ND	ND	ND	71
	4	October 26, 2022	ND	ND	ND	ND	ND	ND	ND	130
BH22-09	0	November 10, 2022	ND	ND	ND	**9,400**	**7,000**	**9,400**	**16,400**	**30,000**
	2	November 10, 2022	ND	ND	ND	56	74	56	130	2,000
	4	November 10, 2022	ND	ND	ND	ND	ND	ND	ND	1,800
BH22-10	0	November 10, 2022	ND	ND	ND	ND	ND	ND	ND	460
	2	November 10, 2022	ND	ND	ND	ND	ND	ND	ND	580
	4	November 10, 2022	ND	ND	ND	ND	ND	ND	ND	1,500
BH23-11	0	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	210
	2	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	420
	3	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	360

Client Name: Devon Energy Production Company, LP
Site Name: Todd 36 State #001
NMOCD Tracking #: nAB1532334246, 2RP-3405
Project #: 25A-01349
Lab Reports: 2210E20, 2211737, 2303C31, 2303D16, 2303C84, 2303F73, 2304087, and 2304667

Table 2. Initial Characterization Laboratory Results - Depth to Groundwater >100 feet bgs

Sample Description			Petroleum Hydrocarbons							Inorganic
			Volatile		Extractable					
Sample ID	Depth (ft)	Sample Date	Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)	Chloride Concentration (mg/kg)
BH23-12	0	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	490
	3	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	610
BH23-13	0	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	150
	2	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	85
	4	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	120
BH23-14	0	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	2,400
	2	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	3,000
	3	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	2,200
	4	March 31, 2023	ND	ND	ND	ND	ND	ND	ND	420
	5	March 31, 2023	ND	ND	ND	ND	ND	ND	ND	480
BH23-15	0	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	1,300
	2	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	3,100
	3	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	3,300
	4	March 31, 2023	ND	ND	ND	ND	ND	ND	ND	2,500
BH23-16	0	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	290
	3	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	280
BH23-17	0	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	360
	2	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	78
	3	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	78
BH23-18	0	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	410
	2	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	70
	4	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	83
BH23-19	0	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	4	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-20	0	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	1,400
	2	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	1,100
	4	March 22, 2023	ND	ND	ND	ND	ND	ND	ND	1,100
	6	March 24, 2023	ND	ND	ND	ND	ND	ND	ND	3,200
	8	March 30, 2023	ND	ND	ND	ND	ND	ND	ND	2,300
	10	March 30, 2023	ND	ND	ND	ND	ND	ND	ND	2,800
	12	March 30, 2023	ND	ND	ND	ND	ND	ND	ND	790
	13	March 30, 2023	ND	ND	ND	ND	ND	ND	ND	1,200
BH23-21	0	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	200
	2	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	340
	4	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	460

Client Name: Devon Energy Production Company, LP
Site Name: Todd 36 State #001
NMOCD Tracking #: nAB1532334246, 2RP-3405
Project #: 25A-01349
Lab Reports: 2210E20, 2211737, 2303C31, 2303D16, 2303C84, 2303F73, 2304087, and 2304667

Table 2. Initial Characterization Laboratory Results - Depth to Groundwater >100 feet bgs

Sample Description			Petroleum Hydrocarbons							Inorganic
			Volatile		Extractable					
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH23-22	0	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	380
	2	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	72
	4	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-23	0	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	1,100
	2	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	1,900
	3	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	6,100
	4	March 30, 2023	ND	ND	ND	ND	ND	ND	ND	7,900
	6	March 31, 2023	ND	ND	ND	ND	ND	ND	ND	5,000
	8	March 31, 2023	ND	ND	ND	ND	ND	ND	ND	5,600
BH23-24	0	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	1,900
	2	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	1,900
	4	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	2,600
	4	March 30, 2023	ND	ND	ND	ND	ND	ND	ND	4,700
	5	March 24, 2023	ND	ND	ND	ND	ND	ND	ND	4,500
	6	March 30, 2023	ND	ND	ND	ND	ND	ND	ND	5,100
	10	March 30, 2023	ND	ND	ND	ND	ND	ND	ND	5,200
	12	March 30, 2023	ND	ND	ND	ND	ND	ND	ND	4,100
	13	March 30, 2023	ND	ND	ND	ND	ND	ND	ND	6,600
BH23--25	0	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	68
	4	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	160
BH23-26	0	March 24, 2023	ND	ND	ND	ND	ND	ND	ND	3,800
	2	March 24, 2023	ND	ND	ND	ND	ND	ND	ND	380
	4	March 24, 2023	ND	ND	ND	ND	ND	ND	ND	1,700
BH23-27	0	March 24, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	March 24, 2023	ND	ND	ND	ND	ND	ND	ND	520
	3	March 24, 2023	ND	ND	ND	ND	ND	ND	ND	610
BH23-28	0	April 12, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	April 12, 2023	ND	ND	ND	ND	ND	ND	ND	150
	3.5	April 12, 2023	ND	ND	ND	ND	ND	ND	ND	170

"ND" Not Detected at the Reporting Limit
"-" indicates not analyzed/assessed
Bold and grey shaded indicates exceedance outside of NMOCD Remediation Closure Criteria
Laboratory data associated with these samples was submitted to OCD on Novemeber 10, 2025 in application 528327

Client Name: Devon Energy Production Company, LP
Site Name: Todd 36 State #001
NMOCD Tracking #: nAB1532334246, 2RP-3405
Project #: 25A-01349
Lab Reports: 855-43081-1 and 855-22354-1

Table 4. Confirmation Laboratory Results - Depth to Groundwater >100 feet bgs

Sample Description			Petroleum Hydrocarbons							Inorganic
			Volatile		Extractable					
Sample ID	Depth (ft)	Sample Date	Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)	Chloride Concentration (mg/kg)
Backfill Sample										
Backfill	-	February 26, 2026	ND	ND	ND	ND	ND	ND	ND	100
Base Sample										
BS26-01	1	February 9, 2026	ND	ND	ND	12	ND	12	12	3,200
Wall Samples										
WS26-01	0-1	February 9, 2026	ND	ND	ND	11	ND	11	11	3,200
WS26-02	0-1	February 9, 2026	ND	ND	ND	22	49	22	71	2,800
Surface Samples										
SS26-01	0	February 9, 2026	ND	ND	ND	21	94	21	115	700
SS26-02	0	February 9, 2026	ND	ND	ND	ND	ND	ND	ND	620
SS26-03	0	February 9, 2026	ND	ND	ND	ND	ND	ND	ND	900
SS26-04	0	February 9, 2026	ND	ND	ND	21	160	21	181	4,800
SS26-05	0	February 9, 2026	ND	ND	ND	ND	ND	ND	ND	240
SS26-06	0	February 9, 2026	ND	ND	ND	210	1400	210	1610	1,300
SS26-07	0	February 9, 2026	ND	ND	ND	ND	78	ND	78	240
SS26-08	0	February 9, 2026	ND	ND	ND	47	250	47	297	630
SS26-09	0	February 9, 2026	ND	ND	ND	130	460	130	590	480
SS26-10	0	February 9, 2026	ND	ND	ND	16	110	16	126	7,200
SS26-11	0	February 9, 2026	ND	ND	ND	18	ND	18	18	10,000
SS26-12	0	February 9, 2026	ND	ND	ND	11	ND	11	11	210
SS26-13	0	February 9, 2026	ND	ND	ND	11	ND	11	11	3,600
SS26-14	0	February 9, 2026	ND	ND	ND	11	ND	11	11	ND
SS26-15	0	February 9, 2026	ND	ND	ND	14	ND	14	14	880
SS26-16	0	February 9, 2026	ND	ND	ND	ND	ND	ND	ND	420
SS26-17	0	February 9, 2026	ND	ND	ND	ND	ND	ND	ND	3,800

"ND" Not Detected at the Reporting Limit
"-" indicates not analyzed/assessed
Bold and grey shaded indicates exceedance outside of NMOCD Remediation Closure Criteria

APPENDIX A - NMOCD C-141 Report

Sent to NMOCD Dist 2 by
Devon via email 1/23/2015

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

nAB1532334246

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company **Devon Energy** 6137	Contact **Kevin Phillips**
Address **PO Box 250 Artesia, NM 88211**	Telephone No. **575- 748-3371**
Facility Name Todd 36 1	Facility Type **SWD**

Surface Owner State	Mineral Owner State	API No. **30-015-20341**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	**36**	**23S**	**31E**	**1980**	**WEST**	**1980**	**NORTH**	**EDDY**

Latitude: 32.2626871870239 **Longitude:** 103.733599857938

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 75 BBL	Volume Recovered 50 BBL
Source of Release Water tank leak	Date and Hour of Occurrence 1/21/15 2:00PM	Date and Hour of Discovery 1/21/15 2:00 PM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? BLM- Jeff Robertson OCD- Mike Bratcher	
By Whom? Kevin Phillips	Date and Hour 1/22/15 10:15 PM BLM 1/22/15 1:00 PM OCD	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Hole in water tank.

Describe Area Affected and Cleanup Action Taken.*
Lease operator noticed a hole about 5' from the bottom of the tank. The containment was full and overflowing onto the location. 75 BBL total spill with 50 BBL recovered. Called SB Transportation for a vacuum truck to pick up water. Planning the cleanup with Enviro Clean.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: Jeanette Barron

Printed Name: **Jeanette Barron**

Title: **Field Admin Support**

E-mail Address: **Jeanette.barron@dvn.com**

Date: 1.23.15 Phone: **575-748-1813**

OIL CONSERVATION DIVISION

Signed By Mike Bratcher

Approved by Environmental Specialist:

Approval Date: 11/19/15 Expiration Date: N/A

Conditions of Approval: Attached ☐
Remediation per O.C.D. Rules & Guidelines
SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 12/19/15

2RP-3405

* Attach Additional Sheets If Necessary

APPENDIX B – Closure Criteria Research Documentation

OSE POD 0.5 mile

1/25/2024, 6:24:34 PM

1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

GIS WATERS PODs

- Active
- Pending
- Plugged
- OSE District Boundary

Water Right Regulations

- Closure Area

New Mexico State Trust Lands

- Subsurface Estate
- Both Estates

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

Online web user

This is an unofficial map from the OSE's online application.

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 04746 POD1		CUB	ED	3	4	3	36	23S	31E	619226	3569417	800	105		
C 04712 POD1		CUB	LE	1	4	1	31	23S	32E	620917	3570289	1615	55		
C 02348		C	ED	1	4	3	26	23S	31E	617648	3571068	1862	700	430	270
C 04672 POD 1		CUB	ED	2	1	4	01	24S	31E	619762	3568286	1982	110		

Average Depth to Water: **430 feet**

Minimum Depth: **430 feet**

Maximum Depth: **430 feet**

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 619303 **Northing (Y):** 3570215 **Radius:** 2000

1/25/24 6:31 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04746 POD1	3	4	3	36	23S	31E	619226	3569417

Driller License: 1833 **Driller Company:** VISION RESOURCES, INC

Driller Name: JASON MALEY

Drill Start Date:	06/01/2023	**Drill Finish Date:**	06/01/2023	**Plug Date:**	06/06/2023
Log File Date:	06/13/2023	**PCW Rcv Date:**		**Source:**	
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:		**Depth Well:**	105 feet	**Depth Water:**	

New Mexico Office of the State Engineer
Water Right Summary

get image list

WR File Number: C 04746 **Subbasin:** CUB **Cross Reference:** -

Primary Purpose: MON MONITORING WELL

Primary Status: PMT PERMIT

Total Acres: **Subfile:** - **Header:** -

Total Diversion: 0 **Cause/Case:** -

User: DEVON ENERGY RESOURCES

Contact: DALE WOODALL

Documents on File

	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
get images	747203	EXPL	2023-05-31	PMT	LOG	C 04746 POD1	T	0	0	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q 64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
C 04746 POD1	NA		3	4	3	36	23S	31E	619226	3569417	

New Mexico Office of the State Engineer
Transaction Summary

EXPL Permit To Explore

Transaction Number: 747203 **Transaction Desc:** C 04746 POD1 **File Date:** 04/24/2023

Primary Status: PMT Permit
Secondary Status: LOG Well Log Received
Person Assigned: *******
User: DEVON ENERGY RESOURCES
Contact: DALE WOODALL

Events

	Date	Type	Description	Comment	Processed By
get images	04/24/2023	APP	Application Received	*	*******
	04/24/2023	FTN	Finalize non-published Trans.		*******
get images	04/24/2023	TEC	Technical Report	*PLUGGING PLAN	*******
get images	06/13/2023	LGI	Well Log Image	*PLG RECORD	*******
get images	06/13/2023	LOG	Well Log Received	*DRY HOLE	*******
	06/29/2023	QAT	Quality Assurance Completed	DATA	*******
	07/06/2023	QAT	Quality Assurance Completed	DATA TEC/APP	*******
	07/10/2023	QAT	Quality Assurance Completed	IMAGE TEC/APP	*******
	07/11/2023	DRY	Dry well log received		*******
	07/24/2023	QAT	Quality Assurance Completed	DATA/LOG/LGI	*******
	08/10/2023	QAT	Quality Assurance Completed	DATA	*******
	08/16/2023	QAT	Quality Assurance Completed	IMAGES LGI/LOG	*******

Water Right Information

WR File Nbr	Acres	Diversion	Consumptive	Purpose of Use
C 04746	0	0		MON MONITORING WELL
**Point of Diversion				
C 04746 POD1		619226	3569417	

Conditions

1A Depth of the well shall not exceed the thickness of the valley fill.

4 No water shall be appropriated and beneficially used under this permit.

B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.

C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record. The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.

6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable

7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.

16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.

P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.

Q The State Engineer retains jurisdiction over this permit.

R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

Action of the State Engineer

IT IS THE PERMITTEE'S RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

**** See Image For Any Additional Conditions of Approval ****

Approval Code: A - Approved

Action Date: 04/24/2023

Log Due Date: 05/30/2024

State Engineer: Mike A. Hamman, P.

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.) ~~C-4746~~ POD 1	WELL TAG ID NO.	OSE FILE NO(S). C-4746
WELL OWNER NAME(S) Devon Energy Resources		PHONE (OPTIONAL)
WELL OWNER MAILING ADDRESS 205 E Bender Road #150		CITY Hobbs / STATE NM / ZIP 88240

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	32	15'	18.5"	N
LONGITUDE	103	44'	03.4"	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1833	Jason Maley	Vision Resources

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
6-1-23	6-1-23	105'	105'	Dry

COMPLETED WELL IS: ☐ ARTESIAN *add Centralizer info below ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): Dry

DATE STATIC MEASURED:

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	100	6	2" PVC SCH 40	Thread	2"	SCH 40	-
100	105	6	2" PVC SCH 40	Thread	2"	SCH 40	.02

OSE DIT JUN 13 2023 PM2:03

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below)	AMOUNT (cubic feet)	METHOD OF PLACEMENT
			None pulled and plugged		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. C-4746	POD NO. 1	TRN NO. 747203	
LOCATION 23S. 31E. 36 3 4 3		WELL TAG ID NO. NA	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	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)
0	10	10	Red sand/White Caliche	Y ✓N	
10	20	10	White Caliche	Y ✓N	
20	80	60	Light Tan fine sand	Y ✓N	
80	105	25	Brown fine sand	Y ✓N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0

5. TEST; RIG SUPERVISION

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:

OSE DIT JUN 13 2023 PM2:08

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Jason Maley

6. SIGNATURE

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 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Jason Maley — 6-7-23

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. C-4746	POD NO. 1	TRN NO. 747203	
LOCATION 235.31E.30 343		WELL TAG ID NO. NA	PAGE 2 OF 2

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4746-POD 1

Well owner: Devon Energy Resources Phone No.: _____

Mailing address: 205 E Bender Road #150

City: Hobbs State: NM Zip code: 88240

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Vision Resources INC

2) New Mexico Well Driller License No.: WD1833 Expiration Date: 10-7-23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): _____
Jason Maley

4) Date well plugging began: 6-6-23 Date well plugging concluded: 6-6-23

5) GPS Well Location: Latitude: 32 deg, 15' min, 18.5" sec
Longitude: 103 deg, 44' min, 03.4" sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 105 ft below ground level (bgl),
by the following manner: Tape

7) Static water level measured at initiation of plugging: Dry ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 6-6-2023

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

OSE OIT JUN 13 2023 PM2:08

Version: September 8, 2009
Page 1 of 2

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
0		155	155	open hole	
	Bentonite Chips				
105					

OSE DII JUN 13 2023 PM2:03

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Jason Maley, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

6-7-23
Date

Version: September 8, 2009
Page 2 of 2

U.S. Fish and Wildlife Service
National Wetlands Inventory

Intermittent 23,600 feet

July 3, 2023

Wetlands_Alaska

- 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.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

U.S. Fish and Wildlife Service
National Wetlands Inventory

Pond 27,590 feet

July 3, 2023

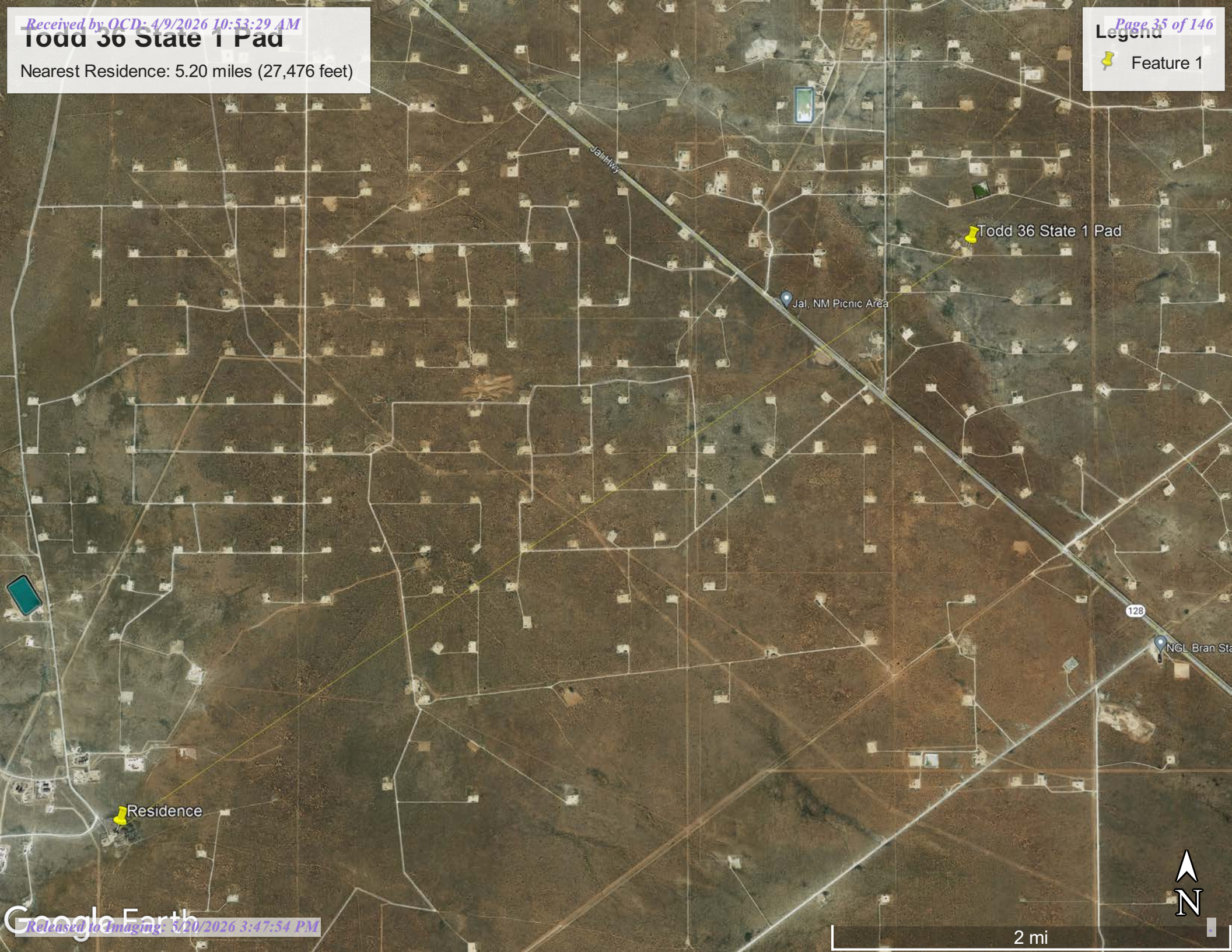
Wetlands_Alaska

- 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.

Todd 36 State 1 Pad

Nearest Residence: 5.20 miles (27,476 feet)



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)

(R=POD has been replaced and no longer serves this file, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q 64	q 16	q 4	Sec	Twn	Rng	X	Y	Distance
C 04790	CUB	MON	0	DEVON ENERGY RESOURCES	ED	C 04790 POD1	NA				4	4	3	25	23S	31E	619309	3570904	689
C 04746	CUB	MON	0	DEVON ENERGY RESOURCES	ED	C 04746 POD1	NA				3	4	3	36	23S	31E	619225	3569417	800
C 02602	C	SAN	0	POGO PRODUCING COMPANY	ED	C 02602						2	2	35	23S	31E	618471	3570650*	938
C 04712	CUB	MON	0	VERTEX RESOURCES	LE	C 04712 POD1	NA				1	4	1	31	23S	32E	620917	3570289	1615
C 02348	C	STK	3	NGL WATER SOLUTIONS PERMIAN	ED	C 02348				Shallow	1	4	3	26	23S	31E	617647	3571068	1862
C 04672	CUB	EXP	0	OXY USA INC.	ED	C 04672 POD 1	NA				2	1	4	01	24S	31E	619762	3568286	1982

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 619303 **Northing (Y):** 3570215 **Radius:** 2000

Sorted by: Distance

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 02602		2	2	35	23S	31E	618471	3570650*

Driller License: **Driller Company:**

Driller Name:

Drill Start Date: **Drill Finish Date:** **Plug Date:**

Log File Date: **PCW Rcv Date:** **Source:**

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: **Depth Well:** **Depth Water:**

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Water Right Summary

get image list

WR File Number: C 02602 **Subbasin:** C **Cross Reference:** -

Primary Purpose: SAN 72-12-1 SANITARY IN CONJUNCTION WITH A COMMERCIAL USE

Primary Status: EXP EXPIRED

Total Acres: **Subfile:** - **Header:** -

Total Diversion: 0 **Cause/Case:** -

Owner: POGO PRODUCING COMPANY

Contact: JERRY A COOPER

Documents on File

Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
get images	466110	72121 1998-09-15	EXP	EXP	C 02602	T		3	

Current Points of Diversion

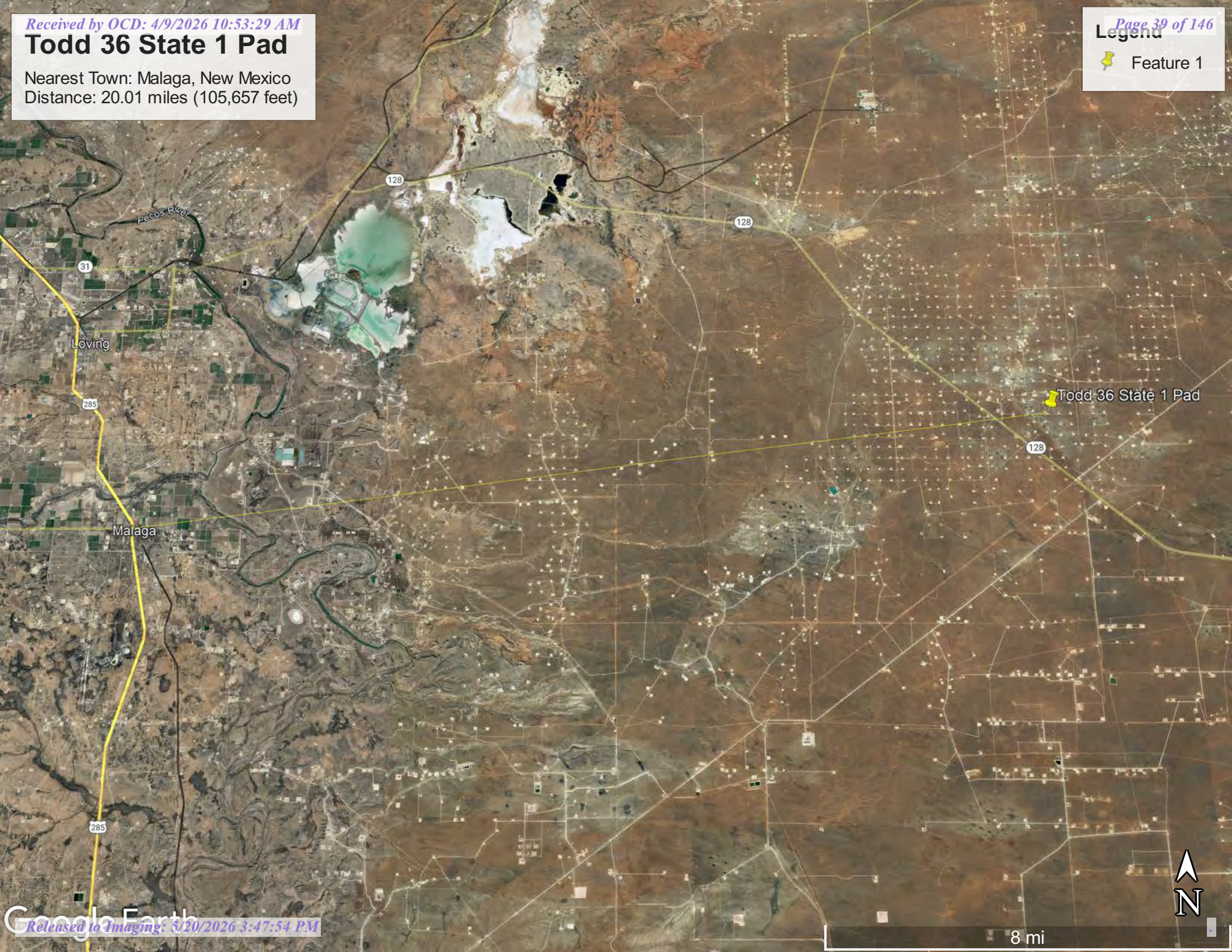
(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q 64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
C 02602				2	2	35	23S	31E	618471	3570650*	

***An (*) after northing value indicates UTM location was derived from PLSS - see Help**

Todd 36 State 1 Pad

Nearest Town: Malaga, New Mexico
Distance: 20.01 miles (105,657 feet)



U.S. Fish and Wildlife Service
National Wetlands Inventory

Wetland 11,240 feet

July 3, 2023

Wetlands_Alaska

- 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.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Nearest Mine 57,255 feet

1/26/2024, 5:40:52 AM

1:144,448

0 1 2 4 mi

0 1.5 3 6 km

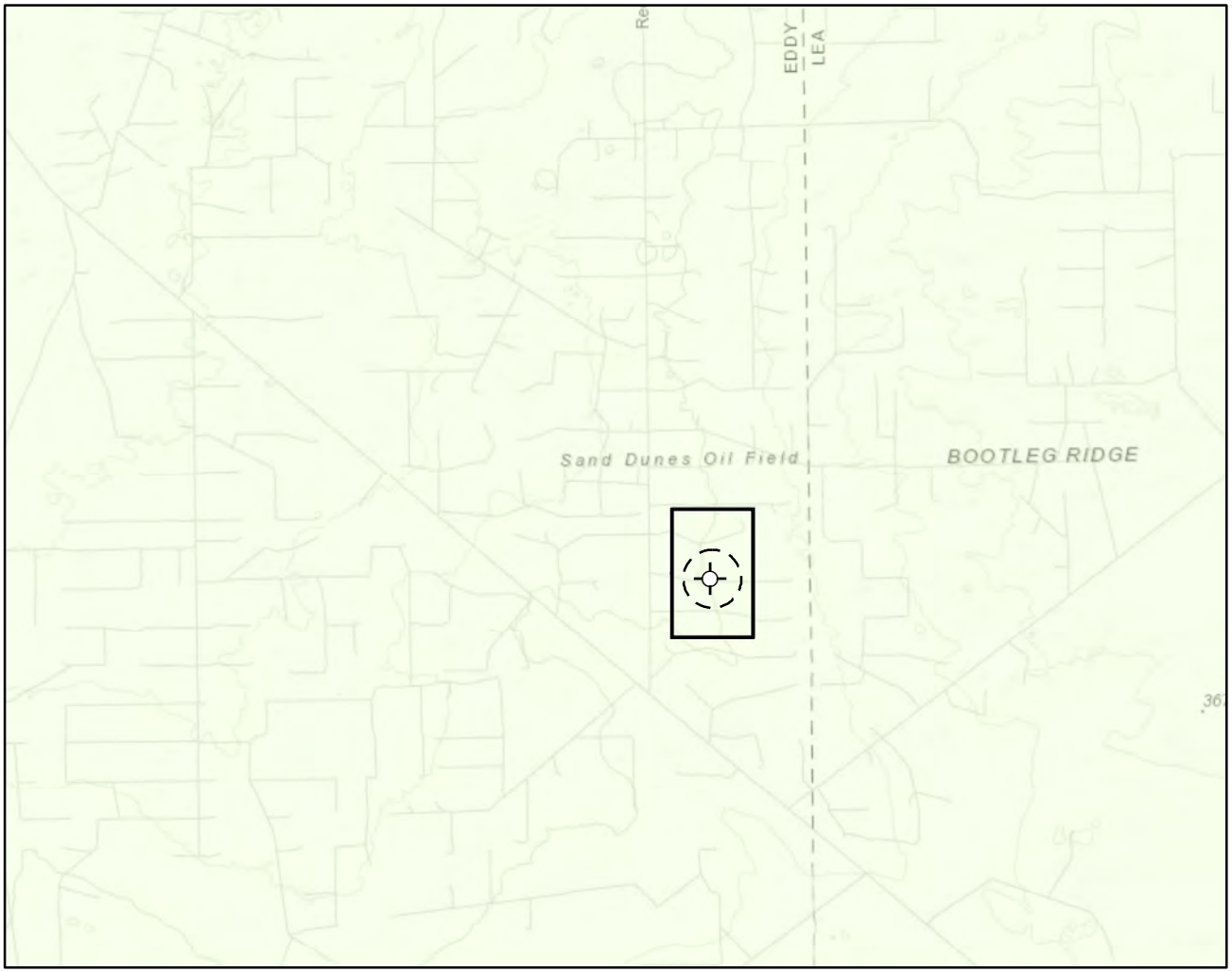
Registered Mines

- Aggregate, Stone etc.
- Aggregate, Stone etc.
- Potash
- PLSS Townships

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

EMNRD MMD GIS Coordinator

New Mexico Energy, Minerals and Natural Resources Department (http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795)



Overview Map

0 0.25 0.5 1 mi

Detail Map

0 150 300 600 ft.

Karst Potential

- Critical
- High
- Medium
- Low

Site Location

Site Buffer (1,000 ft.)

VERTEX

Map Center:
Lat/Long: 32.263143, -103.733705

NAD 1983 UTM Zone 13N
Date: Sep 08/22

N

Karst Potential Schematic
Todd 36 State 1 SWD

FIGURE:
X

devon

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

Note: Inset Map, ESRI 20XX; Overview Map: ESRI World Topographic

VERSATILITY. EXPERTISE.

Document Path: G:\1-Projects_US PROJECTS\Devon Energy Corporation\21E-02816\022 - Todd 36 State 1\Figure 4 Karst Potential Map Todd 36 State 1 SWD.mxd

Todd 36 State #001

Nearest High or Critical Karst Potential

Legend

- High
- Nearest High/Critical Karst 36,802 (6.97 miles)
- Rustler Formation
- Todd 36 State #001 Release

794
128
Official Scenic Historic Marker Project Gnome
128
797
128
Project Gnome
Todd 36 State #001 Release
128
N
4 mi

Google Earth

Image Landsat / Copernicus
Image © 2024 Airbus

National Flood Hazard Layer FIRMette

FEMA

103°44'20"W 32°16'1"N

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

1:6,000

103°43'42"W 32°15'30"N

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

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 2/17/2023 at 3:03 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.

Todd 36 State #001

Nearest FEMA Zone A (100-year Flood Plain)

United States Department of Agriculture

NRCS

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

February 17, 2023

Custom Soil Resource Report
Soil Map (Todd 36 State 1- Pad)

Map Scale: 1:592 if printed on A portrait (8.5" x 11") sheet.

N

Meters
0 5 10 20 30

Feet
0 25 50 100 150

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

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
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- 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 18, Sep 8, 2022

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.

Eddy Area, New Mexico

KM—Kermit-Berino fine sands, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w4q
Elevation: 3,100 to 4,200 feet
Mean annual precipitation: 10 to 14 inches
Mean annual air temperature: 60 to 64 degrees F
Frost-free period: 190 to 230 days
Farmland classification: Not prime farmland

Map Unit Composition

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

Description of Kermit

Setting

Landform: Plains, alluvial fans
Landform position (three-dimensional): Talf, rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 7 inches: fine sand
H2 - 7 to 60 inches: fine sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R070BD005NM - Deep Sand
Hydric soil rating: No

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 50 inches: fine sandy loam
H3 - 50 to 58 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 7.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Active dune land

Percent of map unit: 15 percent
Hydric soil rating: No

USDA Natural Resources Conservation Service

Ecological site R070BD003NM
Loamy Sand

Accessed: 02/21/2023

General information

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

Figure 1. Mapped extent

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

Associated sites

R070BD004NM	**Sandy** Sandy
R070BD005NM	**Deep Sand** Deep Sand

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

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

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

Table 2. Representative physiographic features

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

Climatic features

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common. Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity-short duration thunderstorms.
Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes.

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

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

Table 3. Representative climatic features

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

Influencing water features

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

Soil features

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

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

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

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

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

Characteristic soils are:
Maljamar
Berino
Parjarito
Palomas
Wink
Pyote

Table 4. Representative soil features

Surface texture	(1) Fine sand (2) Fine sandy loam (3) Loamy fine sand
Family particle size	(1) Sandy
Drainage class	Well drained to somewhat excessively drained
Permeability class	Moderate to moderately rapid

Soil depth	40–72 in
Surface fragment cover <=3"	0–10%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	5–7 in
Calcium carbonate equivalent (0-40in)	3–40%
Electrical conductivity (0-40in)	2–4 mmhos/cm
Sodium adsorption ratio (0-40in)	0–2
Soil reaction (1:1 water) (0-40in)	6.6–8.4
Subsurface fragment volume <=3" (Depth not specified)	4–12%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

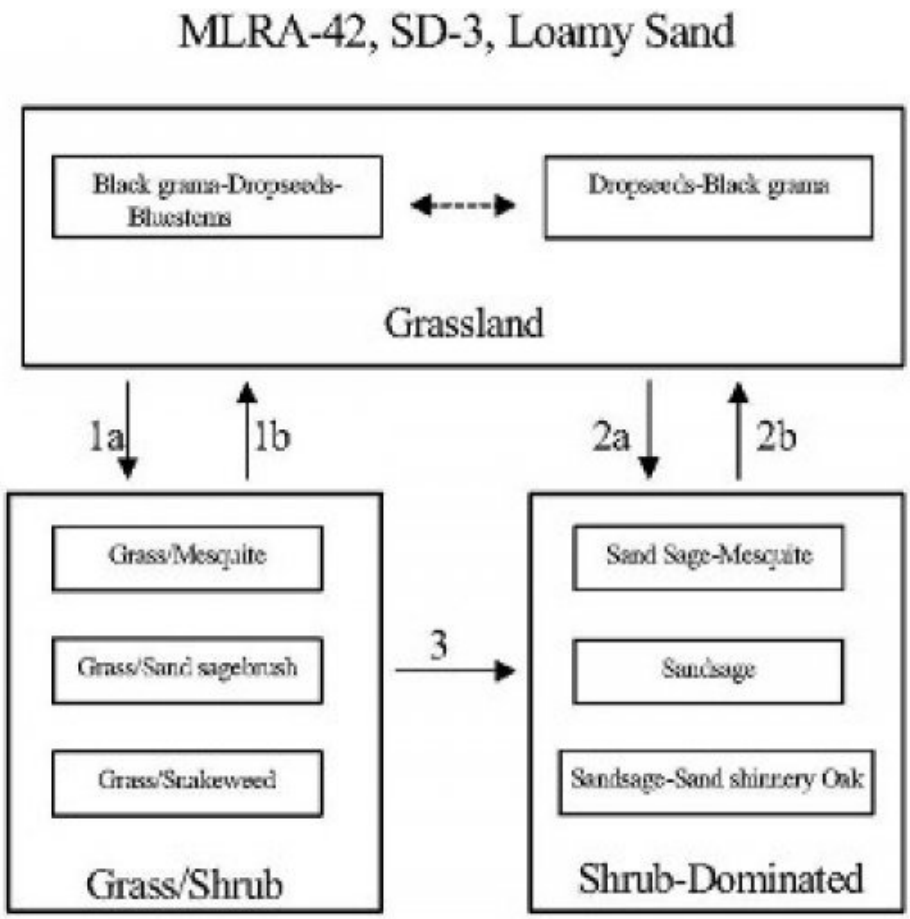
Overview

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

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

State and transition model

Plant Communities and Transitional Pathways (diagram):



1a. Drought, over grazing, fire suppression.
1b. Brush control, prescribed grazing

2.a Severe loss of grass cover, fire suppression, erosion.
2b. Brush control, seeding, prescribed grazing.

3. Continued loss of grass cover, erosion.

State 1
Historic Climax Plant Community

Community 1.1
Historic Climax Plant Community

Grassland: The historic plant community is a uniformly distributed grassland dominated by black grama, dropseeds, and bluestems. Sand sage and shinnery oak are evenly dispersed throughout the grassland due to the coarse soil

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

Table 5. Annual production by plant type

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

Table 6. Ground cover

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

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

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

State 2
Grass/Shrub

Community 2.1
Grass/Shrub

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

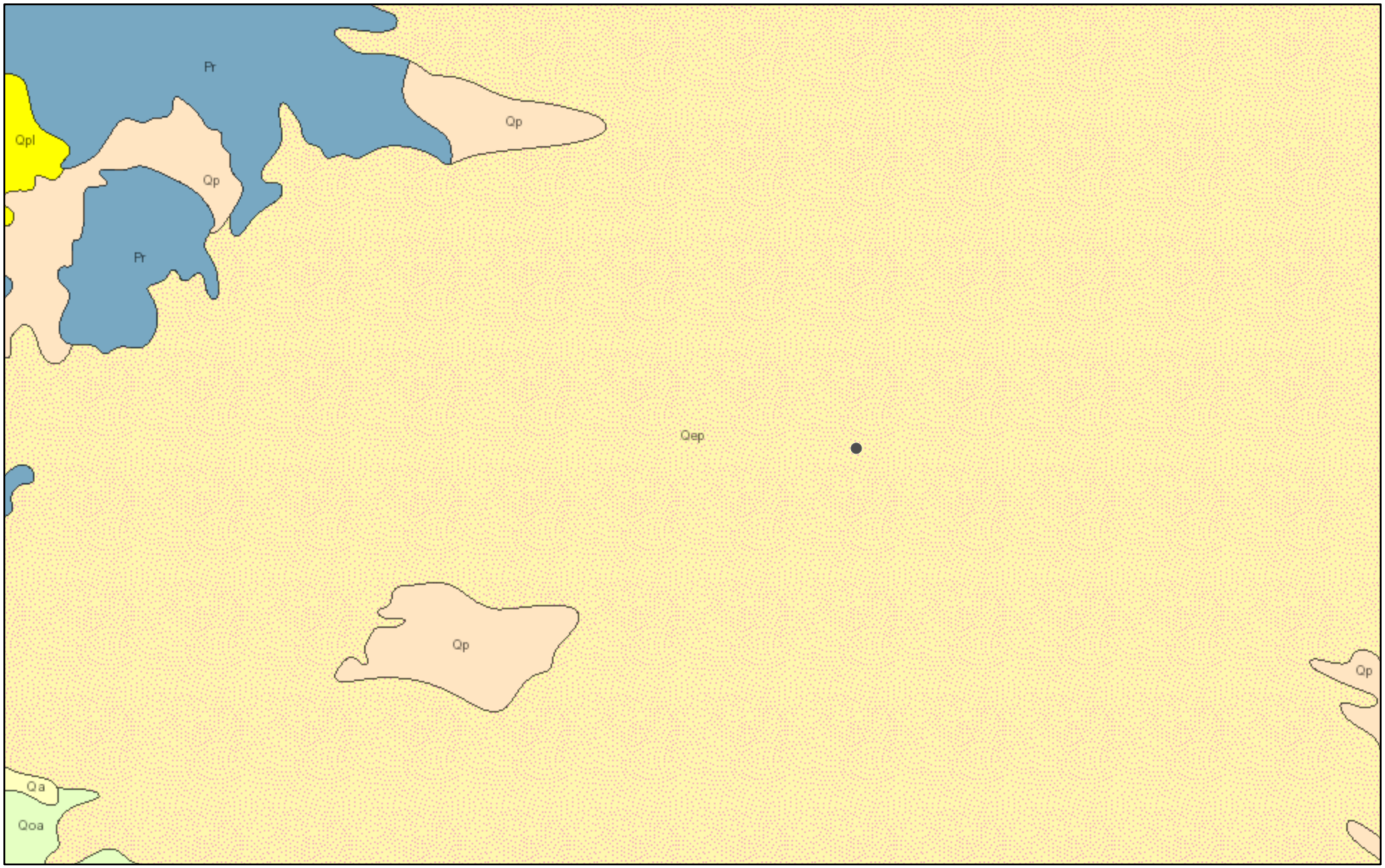
aggressive rhizome system. Shinnery oak's extensive root system promotes competitive exclusion of grasses and forbs. Sand sage, shinnery oak, and mesquite can be controlled with herbicide (Herbel et al. 1979, Pettit 1986). Transition to Shrub-Dominated (2a): Severe loss of grass species with increased 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	

ArcGIS Web Map



2/17/2023, 3:51:09 PM

1:144,448

0 1 2 4 mi

0 1.5 3 6 km

Lithologic Units

- Playa—Alluvium and evaporite deposits (Holocene)
- Water—Perenial standing water
- Qa—Alluvium (Holocene to upper Pleistocene)

Esri, NASA, NGA, USGS, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System,

ArcGIS Web AppBuilder

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

APPENDIX C – Daily Field Reports

VERTEX

Daily Field Log

Site: Todd 36 State 1

Client: Devon Energy Production Company

02/09/2026

Location: 32.2626877,-103.7336273

By: Katrina Taylor

Weather	Cloudy|Cool	Contractor	Centrex Unlimited
Staff On-site	Katrina Taylor	Contractor Crew	Bryce Blaylock (Devon). Fransico Sanchez (operator). Mario Rodriguez and Yessu Mendez
Staff From Time	08:30	Equipment On Site	Backhoe
Tailgate meeting conducted	Yes	Incident ID Number	nAB1532334246

Work Summary:

Excavation of the 200 sq ft area and confirmation sampling of the release area

Time	Observations
13:48:30	Operators one call was checked to be active before beginning excavation
13:48:55	The operators conducted a secondary sweep before beginning excavation
13:49:16	The 1ft excavation was finished and field screened below criteria. Two wall samples for a better directional resolution as well as one base sample was collected
13:50:13	17 surface samples were collected from the release area, field screened, and jarred, in accordance with the 400 sq ft variance.
13:50:48	All contaminated soils were stored on a liner on the south of the pad.

Pictures/Attachments

Date:	2/9/2026
Time:	13:36
Notes:	Surface Sampels of the release area 8-17 were taken here
Latitude:	32.26266388888889
Longitude:	-103.73334444444444
Direction:	S

VERTEX

Daily Field Log

Site: Todd 36 State 1

Client: Devon Energy Production Company

Pictures/Attachments

Date: 2/9/2026 Time: 13:36 Notes: Surface Sampels of the release area 8-17 were taken here Latitude: 32.262544444444444 Longitude: -103.73334444444444 Direction: E	
Date: 2/9/2026 Time: 13:37 Notes: Surface Sampels of the release area 8-17 were taken here Latitude: 32.262480555555555 Longitude: -103.7333 Direction: SW	

VERTEX

Daily Field Log
Site: Todd 36 State 1
Client: Devon Energy Production Company

Pictures/Attachments

Date: 2/9/2026 Time: 13:38 Notes: Surface samples 6-9 were taken around the equipment Latitude: 32.26266388888889 Longitude: -103.73328333333333 Direction: N	
Date: 2/9/2026 Time: 13:39 Notes: Surface samples 1-5 were taken north of the equipment Latitude: 32.26269444444444 Longitude: -103.73328333333333 Direction: N	

VERTEX

Daily Field Log
Site: Todd 36 State 1
Client: Devon Energy Production Company

Pictures/Attachments

Date: 2/9/2026 Time: 13:40 Notes: Surface samples 1-5 were taken north of the equipment Latitude: 32.26287777777778 Longitude: -103.73333055555555 Direction: E	
Date: 2/9/2026 Time: 13:45 Notes: 1ft excavation contained BS26-01, WS26-01, and WS26-02 Latitude: 32.262816666666666 Longitude: -103.73336944444445 Direction: W	

VERTEX

Daily Field Log

Site: Todd 36 State 1

Client: Devon Energy Production Company

Pictures/Attachments

Date:	2/9/2026
Time:	13:46
Notes:	1ft excavation contained BS26-01, WS26-01, and WS26-02
Latitude:	32.26287777777778
Longitude:	-103.73332222222223
Direction:	N

VERTEX

Daily Field Log

Site: Todd 36 State 1

Client: Devon Energy Production Company

02/26/2026

Location: Lea Land

By: Sharon Minnix

Weather	Clear	Contractor	
Staff On-site	Sharon Minnix	Contractor Crew	
Staff From Time	10:20	Equipment On Site	
Tailgate meeting conducted	NA	Incident ID Number	

Work Summary:

Collect Backfill

Time	Observations
10:53:29	Collect and field scree the backfill sample. Sample collected at Lea Land.

Inspector: Sharon Minnix

Pictures/Attachments

Date: 2/26/2026
Time: 10:57
Notes: Site view of where I collected a five point composite
Latitude: 32.52894166666667
Longitude: -103.79103888888889
Direction: SE

VERTEX

Daily Field Log

Site: Todd 36 State 1

Client: Devon Energy Production Company

Pictures/Attachments

Date: 2/26/2026 Time: 10:58 Notes: Site view of where I collected a five point composite Latitude: 32.53015555555555 Longitude: -103.7899861111111 Direction: E	
Date: 2/26/2026 Time: 10:58 Notes: Site view of where I collected a five point composite Latitude: 32.529269444444445 Longitude: -103.79071111111111 Direction: W	

VERTEX

Daily Field Log

Site: Todd 36 State 1

Client: Devon Energy Production Company

Pictures/Attachments

Date:	2/26/2026
Time:	10:58
Notes:	Site view of where I collected a five point composite
Latitude:	32.52932222222222
Longitude:	-103.79073333333334
Direction:	N

VERTEX

Daily Field Log

Site: Todd 36 State 1

Client: Devon Energy Production Company

03/17/2026

Location: 32.2626877,-103.7336273

By: Katrina Taylor

Weather	Clear|Sunny	Contractor	
Staff On-site	Katrina Taylor	Contractor Crew	
Staff From Time	15:00	Equipment On Site	
Tailgate meeting conducted	Yes	Incident ID Number	

Work Summary:

Photographs of the backfill were taken

Time	Observations
15:25:43	Backfill photos of the 200 sqft 1ft deep sample

Pictures/Attachments

Date: 3/17/2026
Time: 15:27
Notes:
Latitude: 32.262725
Longitude: -103.73312222222222
Direction: SE

VERTEX

Daily Field Log

Site: Todd 36 State 1

Client: Devon Energy Production Company

Pictures/Attachments

Date: 3/17/2026 Time: 15:27 Notes: Latitude: 32.262725 Longitude: -103.73312222222222 Direction: SE	
Date: 3/17/2026 Time: 15:27 Notes: Latitude: 32.262725 Longitude: -103.73312222222222 Direction: SE	

VERTEX

Daily Field Log

Site: Todd 36 State 1

Client: Devon Energy Production Company

Pictures/Attachments

Date:	3/17/2026
Time:	15:27
Notes:	
Latitude:	32.262725
Longitude:	-103.73312222222222
Direction:	SE

APPENDIX D – Variance

OCD Permitting

[C-141] Site Char./Remediation Plan C-141 (C-141-V-PLAN) Application

Submission Information

Submission ID:	528327	**Districts:**	Artesia
Operator:	[10155] HARVARD PETROLEUM COMPANY, LLC	**Counties:**	Eddy
Description:	HARVARD PETROLEUM COMPANY, LLC [10155] , TODD 36 STATE #001 , nAB1532334246		
Status:	Approved		
Status Date:	01/09/2026		
References (0):			

Forms

Attachments: Volume Calculation, Water Sources, Scaled Site Map, Field Data, Soil Contaminant, Water Depth, Boring Logs, Photographs, Topo Aerial Maps, Lab Da
Proposed Technique, Estimated Volume, Closure Criteria, Proposed Schedule

Questions

Prerequisites

Incident ID (n#)	**nAB1532334246**
Incident Name	**NAB1532334246 TODD 36 STATE #001 @ 30-015-20341**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Approved**
Incident Well	**[30-015-20341] TODD 36 STATE #001**

Location of Release Source

Please answer all the questions in this group.

Site Name	TODD 36 STATE #001
Date Release Discovered	01/21/2015
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No

detrimental to fresh water

Nature and Volume of Release

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

Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. | Tank (Any) | Produced Water | Released: 75 BBL | Recovered: 50 BBL | l
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there **additional details** for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

Nature and Volume of Release (continued)

Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to d submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and att closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to re 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 op 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 acce does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Roni Kidd Title: Business Manager Email: rkidd@buckhornproduction.com Date: 11/20/2025

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discov

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No

What is the minimum distance, between the closest lateral extents of the release and the following surface areas:

households for domestic or stock watering purposes	
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes

Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.

Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	30000
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	16400
GRO+DRO	(EPA SW-846 Method 8015M)	9400
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	01/01/2026
On what date will (or did) the final sampling or liner inspection occur	03/01/2026
On what date will (or was) the remediation complete(d)	03/01/2026
What is the estimated surface area (in square feet) that will be reclaimed	6951
What is the estimated volume (in cubic yards) that will be reclaimed	1030
What is the estimated surface area (in square feet) that will be remediated	198
What is the estimated volume (in cubic yards) that will be remediated	9

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

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	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
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	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*

OTHER (Non-listed remedial process)	*Not answered.*

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includ 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 re 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 op 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 acce does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Roni Kidd Title: Business Manager Email: rkidd@buckhornproduction.com Date: 11/20/2025

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

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

Sampling Event Information

Last sampling notification (C-141N) recorded	***{Unavailable.}***

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	No

Acknowledgments

This submission type does not have acknowledgments, at this time.

Comments

No comments found for this submission.

Conditions

Summary: *scott.rodgers (1/9/2026),* The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Fi confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determinatio Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Confirmation samples sho collected every 400 ft2. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the work p been reviewed.

Go Back

APPENDIX E – Laboratory Data Reports and Chain of Custody Forms

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Kent Stallings
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 2/19/2026 4:28:09 PM

JOB DESCRIPTION

Todd 36 State 1

JOB NUMBER

885-43081-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated
2/19/2026 4:28:09 PM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Vertex
Project/Site: Todd 36 State 1

Laboratory Job ID: 885-43081-1

Table of Contents

Definitions/Glossary

Client: Vertex Job ID: 885-43081-1
Project/Site: Todd 36 State 1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Vertex
Project: Todd 36 State 1

Job ID: 885-43081-1

Job ID: 885-43081-1 Eurofins Albuquerque

Job Narrative
885-43081-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 2/11/2026 7:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.5°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015M/D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 885-42940 and analytical batch 885-42967 recovered outside control limits for the following analytes: Di-n-octyl phthalate (Surr) and Diesel Range Organics [C10-C28]. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8015M/D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 885-42940 and analytical batch 885-43078 recovered outside control limits for the following analytes: Diesel Range Organics [C10-C28]. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8015M/D: The following sample required a dilution due to the nature of the sample matrix: SS26-06 (885-43081-6). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

Client Sample ID: SS26-01

Date Collected: 02/09/26 09:00
Date Received: 02/11/26 07:45

Lab Sample ID: 885-43081-1

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		02/11/26 13:21	02/14/26 06:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*15 - 150*	*02/11/26 13:21*	*02/14/26 06:40*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		02/11/26 13:21	02/14/26 06:40	1
Ethylbenzene	ND		0.047		mg/Kg		02/11/26 13:21	02/14/26 06:40	1
Toluene	ND		0.047		mg/Kg		02/11/26 13:21	02/14/26 06:40	1
Xylenes, Total	ND		0.094		mg/Kg		02/11/26 13:21	02/14/26 06:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*15 - 150*	*02/11/26 13:21*	*02/14/26 06:40*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**21**		9.4		mg/Kg		02/17/26 09:01	02/17/26 17:11	1
Motor Oil Range Organics [C28-C40]	**94**		47		mg/Kg		02/17/26 09:01	02/17/26 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*	*02/17/26 09:01*	*02/17/26 17:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**700**		51		mg/Kg		02/11/26 17:59	02/12/26 12:37	10

Client Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

Client Sample ID: SS26-02
Date Collected: 02/09/26 09:05
Date Received: 02/11/26 07:45

Lab Sample ID: 885-43081-2
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		02/11/26 13:21	02/14/26 07:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*15 - 150*	*02/11/26 13:21*	*02/14/26 07:04*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		02/11/26 13:21	02/14/26 07:04	1
Ethylbenzene	ND		0.048		mg/Kg		02/11/26 13:21	02/14/26 07:04	1
Toluene	ND		0.048		mg/Kg		02/11/26 13:21	02/14/26 07:04	1
Xylenes, Total	ND		0.096		mg/Kg		02/11/26 13:21	02/14/26 07:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*15 - 150*	*02/11/26 13:21*	*02/14/26 07:04*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.8		mg/Kg		02/11/26 15:58	02/13/26 16:28	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		02/11/26 15:58	02/13/26 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*100*		*62 - 134*	*02/11/26 15:58*	*02/13/26 16:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**620**		50		mg/Kg		02/11/26 17:59	02/12/26 12:47	10

Client Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

Client Sample ID: SS26-03

Date Collected: 02/09/26 09:10
Date Received: 02/11/26 07:45

Lab Sample ID: 885-43081-3

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		02/11/26 13:21	02/14/26 07:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*15 - 150*	*02/11/26 13:21*	*02/14/26 07:28*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		02/11/26 13:21	02/14/26 07:28	1
Ethylbenzene	ND		0.049		mg/Kg		02/11/26 13:21	02/14/26 07:28	1
Toluene	ND		0.049		mg/Kg		02/11/26 13:21	02/14/26 07:28	1
Xylenes, Total	ND		0.099		mg/Kg		02/11/26 13:21	02/14/26 07:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*15 - 150*	*02/11/26 13:21*	*02/14/26 07:28*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.7		mg/Kg		02/11/26 15:58	02/13/26 16:51	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		02/11/26 15:58	02/13/26 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*02/11/26 15:58*	*02/13/26 16:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**900**		51		mg/Kg		02/11/26 17:59	02/12/26 12:57	10

Client Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

Client Sample ID: SS26-04
Date Collected: 02/09/26 09:15
Date Received: 02/11/26 07:45

Lab Sample ID: 885-43081-4
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		02/11/26 13:21	02/14/26 07:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*15 - 150*	*02/11/26 13:21*	*02/14/26 07:52*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		02/11/26 13:21	02/14/26 07:52	1
Ethylbenzene	ND		0.047		mg/Kg		02/11/26 13:21	02/14/26 07:52	1
Toluene	ND		0.047		mg/Kg		02/11/26 13:21	02/14/26 07:52	1
Xylenes, Total	ND		0.094		mg/Kg		02/11/26 13:21	02/14/26 07:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*15 - 150*	*02/11/26 13:21*	*02/14/26 07:52*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**21**		9.6		mg/Kg		02/17/26 09:01	02/17/26 12:38	1
Motor Oil Range Organics [C28-C40]	**160**		48		mg/Kg		02/17/26 09:01	02/17/26 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*	*02/17/26 09:01*	*02/17/26 12:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4800**		49		mg/Kg		02/11/26 17:59	02/12/26 13:08	10

Client Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

Client Sample ID: SS26-05
Date Collected: 02/09/26 09:20
Date Received: 02/11/26 07:45

Lab Sample ID: 885-43081-5
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		02/11/26 13:21	02/14/26 08:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*15 - 150*	*02/11/26 13:21*	*02/14/26 08:16*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		02/11/26 13:21	02/14/26 08:16	1
Ethylbenzene	ND		0.048		mg/Kg		02/11/26 13:21	02/14/26 08:16	1
Toluene	ND		0.048		mg/Kg		02/11/26 13:21	02/14/26 08:16	1
Xylenes, Total	ND		0.096		mg/Kg		02/11/26 13:21	02/14/26 08:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*15 - 150*	*02/11/26 13:21*	*02/14/26 08:16*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.3		mg/Kg		02/11/26 15:58	02/13/26 15:34	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		02/11/26 15:58	02/13/26 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*02/11/26 15:58*	*02/13/26 15:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**240**		50		mg/Kg		02/11/26 17:59	02/12/26 13:18	10

Client Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

Client Sample ID: SS26-06

Date Collected: 02/09/26 09:25
Date Received: 02/11/26 07:45

Lab Sample ID: 885-43081-6

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		02/11/26 13:21	02/14/26 08:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*15 - 150*	*02/11/26 13:21*	*02/14/26 08:40*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		02/11/26 13:21	02/14/26 08:40	1
Ethylbenzene	ND		0.046		mg/Kg		02/11/26 13:21	02/14/26 08:40	1
Toluene	ND		0.046		mg/Kg		02/11/26 13:21	02/14/26 08:40	1
Xylenes, Total	ND		0.093		mg/Kg		02/11/26 13:21	02/14/26 08:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*15 - 150*	*02/11/26 13:21*	*02/14/26 08:40*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**210**		99		mg/Kg		02/17/26 09:01	02/17/26 12:50	10
Motor Oil Range Organics [C28-C40]	**1400**		500		mg/Kg		02/17/26 09:01	02/17/26 12:50	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*0*	*S1- D*	*62 - 134*	*02/17/26 09:01*	*02/17/26 12:50*	*10*
Di-n-octyl phthalate (Surr)	*81*		*62 - 134*	*02/16/26 11:22*	*02/18/26 16:53*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1300**		51		mg/Kg		02/11/26 17:59	02/12/26 13:29	10

Client Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

Client Sample ID: SS26-07

Date Collected: 02/09/26 09:30
Date Received: 02/11/26 07:45

Lab Sample ID: 885-43081-7

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		02/11/26 13:21	02/14/26 09:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*15 - 150*	*02/11/26 13:21*	*02/14/26 09:04*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		02/11/26 13:21	02/14/26 09:04	1
Ethylbenzene	ND		0.048		mg/Kg		02/11/26 13:21	02/14/26 09:04	1
Toluene	ND		0.048		mg/Kg		02/11/26 13:21	02/14/26 09:04	1
Xylenes, Total	ND		0.095		mg/Kg		02/11/26 13:21	02/14/26 09:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*15 - 150*	*02/11/26 13:21*	*02/14/26 09:04*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		02/17/26 09:01	02/17/26 13:02	1
Motor Oil Range Organics [C28-C40]	**78**		48		mg/Kg		02/17/26 09:01	02/17/26 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*	*02/17/26 09:01*	*02/17/26 13:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**240**		50		mg/Kg		02/11/26 17:59	02/12/26 13:39	10

Client Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

Client Sample ID: SS26-08
Date Collected: 02/09/26 09:35
Date Received: 02/11/26 07:45

Lab Sample ID: 885-43081-8
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		02/11/26 13:21	02/14/26 09:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*15 - 150*	*02/11/26 13:21*	*02/14/26 09:28*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		02/11/26 13:21	02/14/26 09:28	1
Ethylbenzene	ND		0.046		mg/Kg		02/11/26 13:21	02/14/26 09:28	1
Toluene	ND		0.046		mg/Kg		02/11/26 13:21	02/14/26 09:28	1
Xylenes, Total	ND		0.092		mg/Kg		02/11/26 13:21	02/14/26 09:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*15 - 150*	*02/11/26 13:21*	*02/14/26 09:28*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**47**		9.4		mg/Kg		02/17/26 09:01	02/17/26 13:13	1
Motor Oil Range Organics [C28-C40]	**250**		47		mg/Kg		02/17/26 09:01	02/17/26 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*	*02/17/26 09:01*	*02/17/26 13:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**630**		50		mg/Kg		02/11/26 17:59	02/12/26 13:49	10

Client Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

Client Sample ID: SS26-09

Date Collected: 02/09/26 09:40
Date Received: 02/11/26 07:45

Lab Sample ID: 885-43081-9

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		02/11/26 13:21	02/14/26 09:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*15 - 150*	*02/11/26 13:21*	*02/14/26 09:52*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		02/11/26 13:21	02/14/26 09:52	1
Ethylbenzene	ND		0.047		mg/Kg		02/11/26 13:21	02/14/26 09:52	1
Toluene	ND		0.047		mg/Kg		02/11/26 13:21	02/14/26 09:52	1
Xylenes, Total	ND		0.094		mg/Kg		02/11/26 13:21	02/14/26 09:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*15 - 150*	*02/11/26 13:21*	*02/14/26 09:52*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**130**		9.2		mg/Kg		02/17/26 09:01	02/17/26 13:25	1
Motor Oil Range Organics [C28-C40]	**460**		46		mg/Kg		02/17/26 09:01	02/17/26 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*	*02/17/26 09:01*	*02/17/26 13:25*	*1*
Di-n-octyl phthalate (Surr)	*111*		*62 - 134*	*02/16/26 11:22*	*02/18/26 13:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**480**		51		mg/Kg		02/11/26 17:59	02/12/26 14:00	10

Client Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

Client Sample ID: SS26-10

Date Collected: 02/09/26 09:45
Date Received: 02/11/26 07:45

Lab Sample ID: 885-43081-10

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		02/11/26 13:21	02/14/26 10:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*15 - 150*	*02/11/26 13:21*	*02/14/26 10:16*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		02/11/26 13:21	02/14/26 10:16	1
Ethylbenzene	ND		0.048		mg/Kg		02/11/26 13:21	02/14/26 10:16	1
Toluene	ND		0.048		mg/Kg		02/11/26 13:21	02/14/26 10:16	1
Xylenes, Total	ND		0.096		mg/Kg		02/11/26 13:21	02/14/26 10:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*15 - 150*	*02/11/26 13:21*	*02/14/26 10:16*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**16**		9.4		mg/Kg		02/17/26 09:01	02/17/26 13:37	1
Motor Oil Range Organics [C28-C40]	**110**		47		mg/Kg		02/17/26 09:01	02/17/26 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*	*02/17/26 09:01*	*02/17/26 13:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7200**		50		mg/Kg		02/11/26 17:59	02/12/26 14:31	10

Client Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

Client Sample ID: SS26-11

Date Collected: 02/09/26 09:50
Date Received: 02/11/26 07:45

Lab Sample ID: 885-43081-11

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		02/11/26 14:06	02/15/26 09:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*15 - 150*	*02/11/26 14:06*	*02/15/26 09:26*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		02/11/26 14:06	02/15/26 09:26	1
Ethylbenzene	ND		0.047		mg/Kg		02/11/26 14:06	02/15/26 09:26	1
Toluene	ND		0.047		mg/Kg		02/11/26 14:06	02/15/26 09:26	1
Xylenes, Total	ND		0.093		mg/Kg		02/11/26 14:06	02/15/26 09:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*15 - 150*	*02/11/26 14:06*	*02/15/26 09:26*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**18**		9.6		mg/Kg		02/12/26 15:03	02/14/26 00:02	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		02/12/26 15:03	02/14/26 00:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*83*		*62 - 134*	*02/12/26 15:03*	*02/14/26 00:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10000**		100		mg/Kg		02/11/26 17:59	02/18/26 15:44	20

Client Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

Client Sample ID: SS26-12

Date Collected: 02/09/26 09:55
Date Received: 02/11/26 07:45

Lab Sample ID: 885-43081-12

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		02/11/26 14:06	02/15/26 10:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*15 - 150*	*02/11/26 14:06*	*02/15/26 10:36*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		02/11/26 14:06	02/15/26 10:36	1
Ethylbenzene	ND		0.049		mg/Kg		02/11/26 14:06	02/15/26 10:36	1
Toluene	ND		0.049		mg/Kg		02/11/26 14:06	02/15/26 10:36	1
Xylenes, Total	ND		0.098		mg/Kg		02/11/26 14:06	02/15/26 10:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*15 - 150*	*02/11/26 14:06*	*02/15/26 10:36*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**11**		9.2		mg/Kg		02/12/26 15:03	02/14/26 00:13	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		02/12/26 15:03	02/14/26 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*81*		*62 - 134*	*02/12/26 15:03*	*02/14/26 00:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**210**		50		mg/Kg		02/11/26 17:59	02/12/26 14:51	10

Client Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

Client Sample ID: SS26-133
Date Collected: 02/09/26 10:00
Date Received: 02/11/26 07:45

Lab Sample ID: 885-43081-13
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		02/11/26 14:06	02/15/26 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*15 - 150*	*02/11/26 14:06*	*02/15/26 11:47*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		02/11/26 14:06	02/15/26 11:47	1
Ethylbenzene	ND		0.047		mg/Kg		02/11/26 14:06	02/15/26 11:47	1
Toluene	ND		0.047		mg/Kg		02/11/26 14:06	02/15/26 11:47	1
Xylenes, Total	ND		0.095		mg/Kg		02/11/26 14:06	02/15/26 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*15 - 150*	*02/11/26 14:06*	*02/15/26 11:47*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**11**		9.5		mg/Kg		02/12/26 15:03	02/14/26 00:25	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		02/12/26 15:03	02/14/26 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*83*		*62 - 134*	*02/12/26 15:03*	*02/14/26 00:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3600**		50		mg/Kg		02/11/26 17:59	02/12/26 15:02	10

Client Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

Client Sample ID: SS26-14

Date Collected: 02/09/26 10:15
Date Received: 02/11/26 07:45

Lab Sample ID: 885-43081-14

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		02/11/26 14:06	02/15/26 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*15 - 150*	*02/11/26 14:06*	*02/15/26 12:10*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		02/11/26 14:06	02/15/26 12:10	1
Ethylbenzene	ND		0.050		mg/Kg		02/11/26 14:06	02/15/26 12:10	1
Toluene	ND		0.050		mg/Kg		02/11/26 14:06	02/15/26 12:10	1
Xylenes, Total	ND		0.099		mg/Kg		02/11/26 14:06	02/15/26 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*15 - 150*	*02/11/26 14:06*	*02/15/26 12:10*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**11**		9.2		mg/Kg		02/12/26 15:03	02/14/26 00:36	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		02/12/26 15:03	02/14/26 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*	*02/12/26 15:03*	*02/14/26 00:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		51		mg/Kg		02/11/26 17:59	02/12/26 15:12	10

Client Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

Client Sample ID: SS26-15

Date Collected: 02/09/26 10:10
Date Received: 02/11/26 07:45

Lab Sample ID: 885-43081-15

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		02/11/26 14:06	02/15/26 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*15 - 150*	*02/11/26 14:06*	*02/15/26 12:34*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		02/11/26 14:06	02/15/26 12:34	1
Ethylbenzene	ND		0.050		mg/Kg		02/11/26 14:06	02/15/26 12:34	1
Toluene	ND		0.050		mg/Kg		02/11/26 14:06	02/15/26 12:34	1
Xylenes, Total	ND		0.099		mg/Kg		02/11/26 14:06	02/15/26 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*15 - 150*	*02/11/26 14:06*	*02/15/26 12:34*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**14**		9.7		mg/Kg		02/12/26 15:03	02/14/26 00:47	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		02/12/26 15:03	02/14/26 00:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*83*		*62 - 134*	*02/12/26 15:03*	*02/14/26 00:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**880**		51		mg/Kg		02/11/26 17:59	02/12/26 15:22	10

Client Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

Client Sample ID: SS26-16

Date Collected: 02/09/26 10:15
Date Received: 02/11/26 07:45

Lab Sample ID: 885-43081-16

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		02/11/26 14:06	02/15/26 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*15 - 150*	*02/11/26 14:06*	*02/15/26 12:58*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		02/11/26 14:06	02/15/26 12:58	1
Ethylbenzene	ND		0.047		mg/Kg		02/11/26 14:06	02/15/26 12:58	1
Toluene	ND		0.047		mg/Kg		02/11/26 14:06	02/15/26 12:58	1
Xylenes, Total	ND		0.094		mg/Kg		02/11/26 14:06	02/15/26 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*15 - 150*	*02/11/26 14:06*	*02/15/26 12:58*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		02/12/26 15:03	02/14/26 00:59	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		02/12/26 15:03	02/14/26 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*81*		*62 - 134*	*02/12/26 15:03*	*02/14/26 00:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**420**		50		mg/Kg		02/12/26 11:43	02/13/26 01:32	10

Client Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

Client Sample ID: SS26-17

Date Collected: 02/09/26 10:20
Date Received: 02/11/26 07:45

Lab Sample ID: 885-43081-17

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		02/11/26 14:06	02/15/26 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*15 - 150*	*02/11/26 14:06*	*02/15/26 13:46*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		02/11/26 14:06	02/15/26 13:46	1
Ethylbenzene	ND		0.046		mg/Kg		02/11/26 14:06	02/15/26 13:46	1
Toluene	ND		0.046		mg/Kg		02/11/26 14:06	02/15/26 13:46	1
Xylenes, Total	ND		0.092		mg/Kg		02/11/26 14:06	02/15/26 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*15 - 150*	*02/11/26 14:06*	*02/15/26 13:46*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		02/12/26 15:03	02/14/26 01:10	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		02/12/26 15:03	02/14/26 01:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*80*		*62 - 134*	*02/12/26 15:03*	*02/14/26 01:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3800**		50		mg/Kg		02/12/26 11:43	02/13/26 01:43	10

Client Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

Client Sample ID: BS26-01

Date Collected: 02/09/26 11:00
Date Received: 02/11/26 07:45

Lab Sample ID: 885-43081-18

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		02/11/26 14:06	02/15/26 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*15 - 150*	*02/11/26 14:06*	*02/15/26 14:10*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		02/11/26 14:06	02/15/26 14:10	1
Ethylbenzene	ND		0.048		mg/Kg		02/11/26 14:06	02/15/26 14:10	1
Toluene	ND		0.048		mg/Kg		02/11/26 14:06	02/15/26 14:10	1
Xylenes, Total	ND		0.095		mg/Kg		02/11/26 14:06	02/15/26 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*15 - 150*	*02/11/26 14:06*	*02/15/26 14:10*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**12**		9.8		mg/Kg		02/12/26 15:03	02/14/26 01:21	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		02/12/26 15:03	02/14/26 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*80*		*62 - 134*	*02/12/26 15:03*	*02/14/26 01:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3200**		50		mg/Kg		02/12/26 11:43	02/13/26 01:53	10

Client Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

Client Sample ID: WS26-01

Date Collected: 02/09/26 11:05
Date Received: 02/11/26 07:45

Lab Sample ID: 885-43081-19

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		02/11/26 14:06	02/15/26 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*15 - 150*	*02/11/26 14:06*	*02/15/26 14:34*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		02/11/26 14:06	02/15/26 14:34	1
Ethylbenzene	ND		0.046		mg/Kg		02/11/26 14:06	02/15/26 14:34	1
Toluene	ND		0.046		mg/Kg		02/11/26 14:06	02/15/26 14:34	1
Xylenes, Total	ND		0.093		mg/Kg		02/11/26 14:06	02/15/26 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*15 - 150*	*02/11/26 14:06*	*02/15/26 14:34*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**11**		9.6		mg/Kg		02/12/26 15:03	02/14/26 01:44	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		02/12/26 15:03	02/14/26 01:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*78*		*62 - 134*	*02/12/26 15:03*	*02/14/26 01:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3200**		49		mg/Kg		02/12/26 11:43	02/13/26 02:03	10

Client Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

Client Sample ID: WS26-02

Date Collected: 02/09/26 11:10
Date Received: 02/11/26 07:45

Lab Sample ID: 885-43081-20

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		02/11/26 14:06	02/15/26 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*15 - 150*	*02/11/26 14:06*	*02/15/26 14:58*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		02/11/26 14:06	02/15/26 14:58	1
Ethylbenzene	ND		0.048		mg/Kg		02/11/26 14:06	02/15/26 14:58	1
Toluene	ND		0.048		mg/Kg		02/11/26 14:06	02/15/26 14:58	1
Xylenes, Total	ND		0.096		mg/Kg		02/11/26 14:06	02/15/26 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*15 - 150*	*02/11/26 14:06*	*02/15/26 14:58*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**22**		9.5		mg/Kg		02/12/26 15:03	02/14/26 01:55	1
Motor Oil Range Organics [C28-C40]	**49**		47		mg/Kg		02/12/26 15:03	02/14/26 01:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*80*		*62 - 134*	*02/12/26 15:03*	*02/14/26 01:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2800**		50		mg/Kg		02/13/26 09:55	02/13/26 14:54	10

QC Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-42928/1-A
Matrix: Solid
Analysis Batch: 43095

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42928

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		02/11/26 13:21	02/13/26 23:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*15 - 150*	*02/11/26 13:21*	*02/13/26 23:49*	*1*

Lab Sample ID: LCS 885-42928/2-A
Matrix: Solid
Analysis Batch: 43095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42928

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	25.4		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*196*		*15 - 150*

Lab Sample ID: MB 885-42932/1-A
Matrix: Solid
Analysis Batch: 43134

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42932

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		02/11/26 14:06	02/15/26 08:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*15 - 150*	*02/11/26 14:06*	*02/15/26 08:39*	*1*

Lab Sample ID: LCS 885-42932/2-A
Matrix: Solid
Analysis Batch: 43134

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42932

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	23.2		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*178*		*15 - 150*

Lab Sample ID: 885-43081-11 MS
Matrix: Solid
Analysis Batch: 43134

Client Sample ID: SS26-11
Prep Type: Total/NA
Prep Batch: 42932

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		23.8	21.5		mg/Kg		90	70 - 130		

QC Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 885-43081-11 MS
Matrix: Solid
Analysis Batch: 43134

Client Sample ID: SS26-11
Prep Type: Total/NA
Prep Batch: 42932

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*168*		*15 - 150*

Lab Sample ID: 885-43081-11 MSD
Matrix: Solid
Analysis Batch: 43134

Client Sample ID: SS26-11
Prep Type: Total/NA
Prep Batch: 42932

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		23.8	20.5		mg/Kg		86	70 - 130	5	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*168*		*15 - 150*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-42928/1-A
Matrix: Solid
Analysis Batch: 43094

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42928

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		02/11/26 13:21	02/13/26 23:49	1
Ethylbenzene	ND		0.050		mg/Kg		02/11/26 13:21	02/13/26 23:49	1
Toluene	ND		0.050		mg/Kg		02/11/26 13:21	02/13/26 23:49	1
Xylenes, Total	ND		0.10		mg/Kg		02/11/26 13:21	02/13/26 23:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*91*		*15 - 150*	*02/11/26 13:21*	*02/13/26 23:49*	*1*

Lab Sample ID: LCS 885-42928/3-A
Matrix: Solid
Analysis Batch: 43094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42928

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.934		mg/Kg		93	70 - 130		
Ethylbenzene			1.00	0.941		mg/Kg		94	70 - 130		
m-Xylene & p-Xylene			2.00	1.92		mg/Kg		96	70 - 130		
o-Xylene			1.00	0.945		mg/Kg		94	70 - 130		
Toluene			1.00	0.948		mg/Kg		95	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*90*		*15 - 150*

Lab Sample ID: MB 885-42932/1-A
Matrix: Solid
Analysis Batch: 43135

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42932

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		02/11/26 14:06	02/15/26 08:39	1

QC Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-42932/1-A
Matrix: Solid
Analysis Batch: 43135

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42932

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.050		mg/Kg		02/11/26 14:06	02/15/26 08:39	1
Toluene	ND		0.050		mg/Kg		02/11/26 14:06	02/15/26 08:39	1
Xylenes, Total	ND		0.10		mg/Kg		02/11/26 14:06	02/15/26 08:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*15 - 150*	*02/11/26 14:06*	*02/15/26 08:39*	*1*

Lab Sample ID: LCS 885-42932/3-A
Matrix: Solid
Analysis Batch: 43135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42932

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.975		mg/Kg		97	70 - 130		
Ethylbenzene			1.00	0.955		mg/Kg		96	70 - 130		
m-Xylene & p-Xylene			2.00	1.95		mg/Kg		98	70 - 130		
o-Xylene			1.00	0.933		mg/Kg		93	70 - 130		
Toluene			1.00	1.00		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*80*		*15 - 150*

Lab Sample ID: 885-43081-12 MS
Matrix: Solid
Analysis Batch: 43135

Client Sample ID: SS26-12
Prep Type: Total/NA
Prep Batch: 42932

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.923	0.899		mg/Kg		97	70 - 130		
Ethylbenzene	ND		0.923	0.860		mg/Kg		93	70 - 130		
m-Xylene & p-Xylene	ND		1.85	1.77		mg/Kg		96	70 - 130		
o-Xylene	ND		0.923	0.883		mg/Kg		96	70 - 130		
Toluene	ND		0.923	0.877		mg/Kg		95	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*82*		*15 - 150*

Lab Sample ID: 885-43081-12 MSD
Matrix: Solid
Analysis Batch: 43135

Client Sample ID: SS26-12
Prep Type: Total/NA
Prep Batch: 42932

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.922	0.943		mg/Kg		102	70 - 130	5	20
Ethylbenzene	ND		0.922	0.916		mg/Kg		99	70 - 130	6	20
m-Xylene & p-Xylene	ND		1.84	1.89		mg/Kg		102	70 - 130	6	20
o-Xylene	ND		0.922	0.900		mg/Kg		98	70 - 130	2	20
Toluene	ND		0.922	0.957		mg/Kg		104	70 - 130	9	20

QC Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-43081-12 MSD
Matrix: Solid
Analysis Batch: 43135

Client Sample ID: SS26-12
Prep Type: Total/NA
Prep Batch: 42932

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*82*		*15 - 150*

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-42940/1-A
Matrix: Solid
Analysis Batch: 42967

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42940

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		02/11/26 15:58	02/12/26 10:09	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		02/11/26 15:58	02/12/26 10:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*	*02/11/26 15:58*	*02/12/26 10:09*	*1*

Lab Sample ID: LCS 885-42940/2-A
Matrix: Solid
Analysis Batch: 42967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42940

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	75.4	*+	mg/Kg		151	51 - 148		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*143*	*S1+*	*62 - 134*

Lab Sample ID: MB 885-43026/1-A
Matrix: Solid
Analysis Batch: 43077

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43026

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		02/12/26 15:03	02/13/26 23:39	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		02/12/26 15:03	02/13/26 23:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*79*		*62 - 134*	*02/12/26 15:03*	*02/13/26 23:39*	*1*

Lab Sample ID: LCS 885-43026/2-A
Matrix: Solid
Analysis Batch: 43077

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43026

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	50.3		mg/Kg		101	51 - 148		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*

QC Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 885-43161/1-A
Matrix: Solid
Analysis Batch: 43152

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43161

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		02/16/26 11:22	02/16/26 19:25	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		02/16/26 11:22	02/16/26 19:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*	*02/16/26 11:22*	*02/16/26 19:25*	*1*

Lab Sample ID: LCS 885-43161/2-A
Matrix: Solid
Analysis Batch: 43152

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43161

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	58.1		mg/Kg		116	51 - 148		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*

Lab Sample ID: MB 885-43207/1-A
Matrix: Solid
Analysis Batch: 43205

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43207

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		02/17/26 09:01	02/17/26 12:02	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		02/17/26 09:01	02/17/26 12:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*	*02/17/26 09:01*	*02/17/26 12:02*	*1*

Lab Sample ID: LCS 885-43207/2-A
Matrix: Solid
Analysis Batch: 43205

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43207

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	39.7		mg/Kg		79	51 - 148		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-42954/1-A
Matrix: Solid
Analysis Batch: 42980

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42954

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0		mg/Kg		02/11/26 17:59	02/12/26 10:22	1

QC Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-42954/2-A
Matrix: Solid
Analysis Batch: 42980

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42954

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			49.7	47.7		mg/Kg		96	90 - 110		

Lab Sample ID: MB 885-43002/1-A
Matrix: Solid
Analysis Batch: 42980

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43002

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0		mg/Kg		02/12/26 11:43	02/12/26 21:04	1

Lab Sample ID: LCS 885-43002/2-A
Matrix: Solid
Analysis Batch: 42980

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43002

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			49.7	49.8		mg/Kg		100	90 - 110		

Lab Sample ID: MB 885-43076/1-A
Matrix: Solid
Analysis Batch: 43079

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43076

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0		mg/Kg		02/13/26 09:55	02/13/26 11:17	1

Lab Sample ID: LCS 885-43076/2-A
Matrix: Solid
Analysis Batch: 43079

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43076

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			49.8	49.3		mg/Kg		99	90 - 110		

QC Association Summary

Client: Vertex
Job ID: 885-43081-1
Project/Site: Todd 36 State 1

GC VOA

Prep Batch: 42928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-43081-1	SS26-01	Total/NA	Solid	5030C	
885-43081-2	SS26-02	Total/NA	Solid	5030C	
885-43081-3	SS26-03	Total/NA	Solid	5030C	
885-43081-4	SS26-04	Total/NA	Solid	5030C	
885-43081-5	SS26-05	Total/NA	Solid	5030C	
885-43081-6	SS26-06	Total/NA	Solid	5030C	
885-43081-7	SS26-07	Total/NA	Solid	5030C	
885-43081-8	SS26-08	Total/NA	Solid	5030C	
885-43081-9	SS26-09	Total/NA	Solid	5030C	
885-43081-10	SS26-10	Total/NA	Solid	5030C	
MB 885-42928/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-42928/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-42928/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 42932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-43081-11	SS26-11	Total/NA	Solid	5030C	
885-43081-12	SS26-12	Total/NA	Solid	5030C	
885-43081-13	SS26-133	Total/NA	Solid	5030C	
885-43081-14	SS26-14	Total/NA	Solid	5030C	
885-43081-15	SS26-15	Total/NA	Solid	5030C	
885-43081-16	SS26-16	Total/NA	Solid	5030C	
885-43081-17	SS26-17	Total/NA	Solid	5030C	
885-43081-18	BS26-01	Total/NA	Solid	5030C	
885-43081-19	WS26-01	Total/NA	Solid	5030C	
885-43081-20	WS26-02	Total/NA	Solid	5030C	
MB 885-42932/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-42932/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-42932/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-43081-11 MS	SS26-11	Total/NA	Solid	5030C	
885-43081-11 MSD	SS26-11	Total/NA	Solid	5030C	
885-43081-12 MS	SS26-12	Total/NA	Solid	5030C	
885-43081-12 MSD	SS26-12	Total/NA	Solid	5030C	

Analysis Batch: 43094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-43081-1	SS26-01	Total/NA	Solid	8021B	42928
885-43081-2	SS26-02	Total/NA	Solid	8021B	42928
885-43081-3	SS26-03	Total/NA	Solid	8021B	42928
885-43081-4	SS26-04	Total/NA	Solid	8021B	42928
885-43081-5	SS26-05	Total/NA	Solid	8021B	42928
885-43081-6	SS26-06	Total/NA	Solid	8021B	42928
885-43081-7	SS26-07	Total/NA	Solid	8021B	42928
885-43081-8	SS26-08	Total/NA	Solid	8021B	42928
885-43081-9	SS26-09	Total/NA	Solid	8021B	42928
885-43081-10	SS26-10	Total/NA	Solid	8021B	42928
MB 885-42928/1-A	Method Blank	Total/NA	Solid	8021B	42928
LCS 885-42928/3-A	Lab Control Sample	Total/NA	Solid	8021B	42928

QC Association Summary

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

GC VOA

Analysis Batch: 43095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-43081-1	SS26-01	Total/NA	Solid	8015M/D	42928
885-43081-2	SS26-02	Total/NA	Solid	8015M/D	42928
885-43081-3	SS26-03	Total/NA	Solid	8015M/D	42928
885-43081-4	SS26-04	Total/NA	Solid	8015M/D	42928
885-43081-5	SS26-05	Total/NA	Solid	8015M/D	42928
885-43081-6	SS26-06	Total/NA	Solid	8015M/D	42928
885-43081-7	SS26-07	Total/NA	Solid	8015M/D	42928
885-43081-8	SS26-08	Total/NA	Solid	8015M/D	42928
885-43081-9	SS26-09	Total/NA	Solid	8015M/D	42928
885-43081-10	SS26-10	Total/NA	Solid	8015M/D	42928
MB 885-42928/1-A	Method Blank	Total/NA	Solid	8015M/D	42928
LCS 885-42928/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	42928

Analysis Batch: 43134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-43081-11	SS26-11	Total/NA	Solid	8015M/D	42932
885-43081-12	SS26-12	Total/NA	Solid	8015M/D	42932
885-43081-13	SS26-133	Total/NA	Solid	8015M/D	42932
885-43081-14	SS26-14	Total/NA	Solid	8015M/D	42932
885-43081-15	SS26-15	Total/NA	Solid	8015M/D	42932
885-43081-16	SS26-16	Total/NA	Solid	8015M/D	42932
885-43081-17	SS26-17	Total/NA	Solid	8015M/D	42932
885-43081-18	BS26-01	Total/NA	Solid	8015M/D	42932
885-43081-19	WS26-01	Total/NA	Solid	8015M/D	42932
885-43081-20	WS26-02	Total/NA	Solid	8015M/D	42932
MB 885-42932/1-A	Method Blank	Total/NA	Solid	8015M/D	42932
LCS 885-42932/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	42932
885-43081-11 MS	SS26-11	Total/NA	Solid	8015M/D	42932
885-43081-11 MSD	SS26-11	Total/NA	Solid	8015M/D	42932

Analysis Batch: 43135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-43081-11	SS26-11	Total/NA	Solid	8021B	42932
885-43081-12	SS26-12	Total/NA	Solid	8021B	42932
885-43081-13	SS26-133	Total/NA	Solid	8021B	42932
885-43081-14	SS26-14	Total/NA	Solid	8021B	42932
885-43081-15	SS26-15	Total/NA	Solid	8021B	42932
885-43081-16	SS26-16	Total/NA	Solid	8021B	42932
885-43081-17	SS26-17	Total/NA	Solid	8021B	42932
885-43081-18	BS26-01	Total/NA	Solid	8021B	42932
885-43081-19	WS26-01	Total/NA	Solid	8021B	42932
885-43081-20	WS26-02	Total/NA	Solid	8021B	42932
MB 885-42932/1-A	Method Blank	Total/NA	Solid	8021B	42932
LCS 885-42932/3-A	Lab Control Sample	Total/NA	Solid	8021B	42932
885-43081-12 MS	SS26-12	Total/NA	Solid	8021B	42932
885-43081-12 MSD	SS26-12	Total/NA	Solid	8021B	42932

QC Association Summary

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

GC Semi VOA

Prep Batch: 42940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-43081-2	SS26-02	Total/NA	Solid	SHAKE	
885-43081-3	SS26-03	Total/NA	Solid	SHAKE	
885-43081-5	SS26-05	Total/NA	Solid	SHAKE	
MB 885-42940/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-42940/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 42967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-42940/1-A	Method Blank	Total/NA	Solid	8015M/D	42940
LCS 885-42940/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	42940

Prep Batch: 43026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-43081-11	SS26-11	Total/NA	Solid	SHAKE	
885-43081-12	SS26-12	Total/NA	Solid	SHAKE	
885-43081-13	SS26-133	Total/NA	Solid	SHAKE	
885-43081-14	SS26-14	Total/NA	Solid	SHAKE	
885-43081-15	SS26-15	Total/NA	Solid	SHAKE	
885-43081-16	SS26-16	Total/NA	Solid	SHAKE	
885-43081-17	SS26-17	Total/NA	Solid	SHAKE	
885-43081-18	BS26-01	Total/NA	Solid	SHAKE	
885-43081-19	WS26-01	Total/NA	Solid	SHAKE	
885-43081-20	WS26-02	Total/NA	Solid	SHAKE	
MB 885-43026/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-43026/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 43077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-43081-2	SS26-02	Total/NA	Solid	8015M/D	42940
885-43081-3	SS26-03	Total/NA	Solid	8015M/D	42940
885-43081-11	SS26-11	Total/NA	Solid	8015M/D	43026
885-43081-12	SS26-12	Total/NA	Solid	8015M/D	43026
885-43081-13	SS26-133	Total/NA	Solid	8015M/D	43026
885-43081-14	SS26-14	Total/NA	Solid	8015M/D	43026
885-43081-15	SS26-15	Total/NA	Solid	8015M/D	43026
885-43081-16	SS26-16	Total/NA	Solid	8015M/D	43026
885-43081-17	SS26-17	Total/NA	Solid	8015M/D	43026
885-43081-18	BS26-01	Total/NA	Solid	8015M/D	43026
885-43081-19	WS26-01	Total/NA	Solid	8015M/D	43026
885-43081-20	WS26-02	Total/NA	Solid	8015M/D	43026
MB 885-43026/1-A	Method Blank	Total/NA	Solid	8015M/D	43026
LCS 885-43026/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	43026

Analysis Batch: 43078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-43081-5	SS26-05	Total/NA	Solid	8015M/D	42940

Analysis Batch: 43152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-43161/1-A	Method Blank	Total/NA	Solid	8015M/D	43161
LCS 885-43161/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	43161

QC Association Summary

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

GC Semi VOA

Prep Batch: 43161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-43081-6	SS26-06	Total/NA	Solid	SHAKE	
885-43081-9	SS26-09	Total/NA	Solid	SHAKE	
MB 885-43161/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-43161/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 43205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-43081-1	SS26-01	Total/NA	Solid	8015M/D	43207
885-43081-4	SS26-04	Total/NA	Solid	8015M/D	43207
885-43081-6	SS26-06	Total/NA	Solid	8015M/D	43207
885-43081-7	SS26-07	Total/NA	Solid	8015M/D	43207
885-43081-8	SS26-08	Total/NA	Solid	8015M/D	43207
885-43081-9	SS26-09	Total/NA	Solid	8015M/D	43207
885-43081-10	SS26-10	Total/NA	Solid	8015M/D	43207
MB 885-43207/1-A	Method Blank	Total/NA	Solid	8015M/D	43207
LCS 885-43207/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	43207

Prep Batch: 43207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-43081-1	SS26-01	Total/NA	Solid	SHAKE	
885-43081-4	SS26-04	Total/NA	Solid	SHAKE	
885-43081-6	SS26-06	Total/NA	Solid	SHAKE	
885-43081-7	SS26-07	Total/NA	Solid	SHAKE	
885-43081-8	SS26-08	Total/NA	Solid	SHAKE	
885-43081-9	SS26-09	Total/NA	Solid	SHAKE	
885-43081-10	SS26-10	Total/NA	Solid	SHAKE	
MB 885-43207/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-43207/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 43312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-43081-6	SS26-06	Total/NA	Solid	8015M/D	43161
885-43081-9	SS26-09	Total/NA	Solid	8015M/D	43161

HPLC/IC

Prep Batch: 42954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-43081-1	SS26-01	Total/NA	Solid	300_Prep	
885-43081-2	SS26-02	Total/NA	Solid	300_Prep	
885-43081-3	SS26-03	Total/NA	Solid	300_Prep	
885-43081-4	SS26-04	Total/NA	Solid	300_Prep	
885-43081-5	SS26-05	Total/NA	Solid	300_Prep	
885-43081-6	SS26-06	Total/NA	Solid	300_Prep	
885-43081-7	SS26-07	Total/NA	Solid	300_Prep	
885-43081-8	SS26-08	Total/NA	Solid	300_Prep	
885-43081-9	SS26-09	Total/NA	Solid	300_Prep	
885-43081-10	SS26-10	Total/NA	Solid	300_Prep	
885-43081-11	SS26-11	Total/NA	Solid	300_Prep	
885-43081-12	SS26-12	Total/NA	Solid	300_Prep	
885-43081-13	SS26-133	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

HPLC/IC (Continued)

Prep Batch: 42954 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-43081-14	SS26-14	Total/NA	Solid	300_Prep	
885-43081-15	SS26-15	Total/NA	Solid	300_Prep	
MB 885-42954/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-42954/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 42980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-43081-1	SS26-01	Total/NA	Solid	300.0	42954
885-43081-2	SS26-02	Total/NA	Solid	300.0	42954
885-43081-3	SS26-03	Total/NA	Solid	300.0	42954
885-43081-4	SS26-04	Total/NA	Solid	300.0	42954
885-43081-5	SS26-05	Total/NA	Solid	300.0	42954
885-43081-6	SS26-06	Total/NA	Solid	300.0	42954
885-43081-7	SS26-07	Total/NA	Solid	300.0	42954
885-43081-8	SS26-08	Total/NA	Solid	300.0	42954
885-43081-9	SS26-09	Total/NA	Solid	300.0	42954
885-43081-10	SS26-10	Total/NA	Solid	300.0	42954
885-43081-12	SS26-12	Total/NA	Solid	300.0	42954
885-43081-13	SS26-133	Total/NA	Solid	300.0	42954
885-43081-14	SS26-14	Total/NA	Solid	300.0	42954
885-43081-15	SS26-15	Total/NA	Solid	300.0	42954
885-43081-16	SS26-16	Total/NA	Solid	300.0	43002
885-43081-17	SS26-17	Total/NA	Solid	300.0	43002
885-43081-18	BS26-01	Total/NA	Solid	300.0	43002
885-43081-19	WS26-01	Total/NA	Solid	300.0	43002
MB 885-42954/1-A	Method Blank	Total/NA	Solid	300.0	42954
MB 885-43002/1-A	Method Blank	Total/NA	Solid	300.0	43002
LCS 885-42954/2-A	Lab Control Sample	Total/NA	Solid	300.0	42954
LCS 885-43002/2-A	Lab Control Sample	Total/NA	Solid	300.0	43002

Prep Batch: 43002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-43081-16	SS26-16	Total/NA	Solid	300_Prep	
885-43081-17	SS26-17	Total/NA	Solid	300_Prep	
885-43081-18	BS26-01	Total/NA	Solid	300_Prep	
885-43081-19	WS26-01	Total/NA	Solid	300_Prep	
MB 885-43002/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-43002/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Prep Batch: 43076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-43081-20	WS26-02	Total/NA	Solid	300_Prep	
MB 885-43076/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-43076/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 43079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-43081-20	WS26-02	Total/NA	Solid	300.0	43076
MB 885-43076/1-A	Method Blank	Total/NA	Solid	300.0	43076
LCS 885-43076/2-A	Lab Control Sample	Total/NA	Solid	300.0	43076

QC Association Summary

Client: Vertex
Job ID: 885-43081-1
Project/Site: Todd 36 State 1

HPLC/IC

Analysis Batch: 43321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-43081-11	SS26-11	Total/NA	Solid	300.0	42954

Lab Chronicle

Client: Vertex
Job ID: 885-43081-1
Project/Site: Todd 36 State 1

Client Sample ID: SS26-01
Lab Sample ID: 885-43081-1
Date Collected: 02/09/26 09:00
Matrix: Solid
Date Received: 02/11/26 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			42928	JP	EET ALB	02/11/26 13:21
Total/NA	Analysis	8015M/D		1	43095	VP	EET ALB	02/14/26 06:40
Total/NA	Prep	5030C			42928	JP	EET ALB	02/11/26 13:21
Total/NA	Analysis	8021B		1	43094	VP	EET ALB	02/14/26 06:40
Total/NA	Prep	SHAKE			43207	DR	EET ALB	02/17/26 09:01
Total/NA	Analysis	8015M/D		1	43205	EM	EET ALB	02/17/26 17:11
Total/NA	Prep	300_Prep			42954	JT	EET ALB	02/11/26 17:59
Total/NA	Analysis	300.0		10	42980	JT	EET ALB	02/12/26 12:37

Client Sample ID: SS26-02
Lab Sample ID: 885-43081-2
Date Collected: 02/09/26 09:05
Matrix: Solid
Date Received: 02/11/26 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			42928	JP	EET ALB	02/11/26 13:21
Total/NA	Analysis	8015M/D		1	43095	VP	EET ALB	02/14/26 07:04
Total/NA	Prep	5030C			42928	JP	EET ALB	02/11/26 13:21
Total/NA	Analysis	8021B		1	43094	VP	EET ALB	02/14/26 07:04
Total/NA	Prep	SHAKE			42940	DR	EET ALB	02/11/26 15:58
Total/NA	Analysis	8015M/D		1	43077	EM	EET ALB	02/13/26 16:28
Total/NA	Prep	300_Prep			42954	JT	EET ALB	02/11/26 17:59
Total/NA	Analysis	300.0		10	42980	JT	EET ALB	02/12/26 12:47

Client Sample ID: SS26-03
Lab Sample ID: 885-43081-3
Date Collected: 02/09/26 09:10
Matrix: Solid
Date Received: 02/11/26 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			42928	JP	EET ALB	02/11/26 13:21
Total/NA	Analysis	8015M/D		1	43095	VP	EET ALB	02/14/26 07:28
Total/NA	Prep	5030C			42928	JP	EET ALB	02/11/26 13:21
Total/NA	Analysis	8021B		1	43094	VP	EET ALB	02/14/26 07:28
Total/NA	Prep	SHAKE			42940	DR	EET ALB	02/11/26 15:58
Total/NA	Analysis	8015M/D		1	43077	EM	EET ALB	02/13/26 16:51
Total/NA	Prep	300_Prep			42954	JT	EET ALB	02/11/26 17:59
Total/NA	Analysis	300.0		10	42980	JT	EET ALB	02/12/26 12:57

Client Sample ID: SS26-04
Lab Sample ID: 885-43081-4
Date Collected: 02/09/26 09:15
Matrix: Solid
Date Received: 02/11/26 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			42928	JP	EET ALB	02/11/26 13:21
Total/NA	Analysis	8015M/D		1	43095	VP	EET ALB	02/14/26 07:52

Lab Chronicle

Client: Vertex
Job ID: 885-43081-1
Project/Site: Todd 36 State 1

Client Sample ID: SS26-04
Lab Sample ID: 885-43081-4
Date Collected: 02/09/26 09:15
Matrix: Solid
Date Received: 02/11/26 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			42928	JP	EET ALB	02/11/26 13:21
Total/NA	Analysis	8021B		1	43094	VP	EET ALB	02/14/26 07:52
Total/NA	Prep	SHAKE			43207	DR	EET ALB	02/17/26 09:01
Total/NA	Analysis	8015M/D		1	43205	EM	EET ALB	02/17/26 12:38
Total/NA	Prep	300_Prep			42954	JT	EET ALB	02/11/26 17:59
Total/NA	Analysis	300.0		10	42980	JT	EET ALB	02/12/26 13:08

Client Sample ID: SS26-05
Lab Sample ID: 885-43081-5
Date Collected: 02/09/26 09:20
Matrix: Solid
Date Received: 02/11/26 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			42928	JP	EET ALB	02/11/26 13:21
Total/NA	Analysis	8015M/D		1	43095	VP	EET ALB	02/14/26 08:16
Total/NA	Prep	5030C			42928	JP	EET ALB	02/11/26 13:21
Total/NA	Analysis	8021B		1	43094	VP	EET ALB	02/14/26 08:16
Total/NA	Prep	SHAKE			42940	DR	EET ALB	02/11/26 15:58
Total/NA	Analysis	8015M/D		1	43078	BV	EET ALB	02/13/26 15:34
Total/NA	Prep	300_Prep			42954	JT	EET ALB	02/11/26 17:59
Total/NA	Analysis	300.0		10	42980	JT	EET ALB	02/12/26 13:18

Client Sample ID: SS26-06
Lab Sample ID: 885-43081-6
Date Collected: 02/09/26 09:25
Matrix: Solid
Date Received: 02/11/26 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			42928	JP	EET ALB	02/11/26 13:21
Total/NA	Analysis	8015M/D		1	43095	VP	EET ALB	02/14/26 08:40
Total/NA	Prep	5030C			42928	JP	EET ALB	02/11/26 13:21
Total/NA	Analysis	8021B		1	43094	VP	EET ALB	02/14/26 08:40
Total/NA	Prep	SHAKE			43207	DR	EET ALB	02/17/26 09:01
Total/NA	Analysis	8015M/D		10	43205	EM	EET ALB	02/17/26 12:50
Total/NA	Prep	SHAKE			43161	BV	EET ALB	02/16/26 11:22
Total/NA	Analysis	8015M/D		5	43312	EM	EET ALB	02/18/26 16:53
Total/NA	Prep	300_Prep			42954	JT	EET ALB	02/11/26 17:59
Total/NA	Analysis	300.0		10	42980	JT	EET ALB	02/12/26 13:29

Client Sample ID: SS26-07
Lab Sample ID: 885-43081-7
Date Collected: 02/09/26 09:30
Matrix: Solid
Date Received: 02/11/26 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			42928	JP	EET ALB	02/11/26 13:21
Total/NA	Analysis	8015M/D		1	43095	VP	EET ALB	02/14/26 09:04

Lab Chronicle

Client: Vertex
Job ID: 885-43081-1
Project/Site: Todd 36 State 1

Client Sample ID: SS26-07
Lab Sample ID: 885-43081-7
Date Collected: 02/09/26 09:30
Matrix: Solid
Date Received: 02/11/26 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			42928	JP	EET ALB	02/11/26 13:21
Total/NA	Analysis	8021B		1	43094	VP	EET ALB	02/14/26 09:04
Total/NA	Prep	SHAKE			43207	DR	EET ALB	02/17/26 09:01
Total/NA	Analysis	8015M/D		1	43205	EM	EET ALB	02/17/26 13:02
Total/NA	Prep	300_Prep			42954	JT	EET ALB	02/11/26 17:59
Total/NA	Analysis	300.0		10	42980	JT	EET ALB	02/12/26 13:39

Client Sample ID: SS26-08
Lab Sample ID: 885-43081-8
Date Collected: 02/09/26 09:35
Matrix: Solid
Date Received: 02/11/26 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			42928	JP	EET ALB	02/11/26 13:21
Total/NA	Analysis	8015M/D		1	43095	VP	EET ALB	02/14/26 09:28
Total/NA	Prep	5030C			42928	JP	EET ALB	02/11/26 13:21
Total/NA	Analysis	8021B		1	43094	VP	EET ALB	02/14/26 09:28
Total/NA	Prep	SHAKE			43207	DR	EET ALB	02/17/26 09:01
Total/NA	Analysis	8015M/D		1	43205	EM	EET ALB	02/17/26 13:13
Total/NA	Prep	300_Prep			42954	JT	EET ALB	02/11/26 17:59
Total/NA	Analysis	300.0		10	42980	JT	EET ALB	02/12/26 13:49

Client Sample ID: SS26-09
Lab Sample ID: 885-43081-9
Date Collected: 02/09/26 09:40
Matrix: Solid
Date Received: 02/11/26 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			42928	JP	EET ALB	02/11/26 13:21
Total/NA	Analysis	8015M/D		1	43095	VP	EET ALB	02/14/26 09:52
Total/NA	Prep	5030C			42928	JP	EET ALB	02/11/26 13:21
Total/NA	Analysis	8021B		1	43094	VP	EET ALB	02/14/26 09:52
Total/NA	Prep	SHAKE			43207	DR	EET ALB	02/17/26 09:01
Total/NA	Analysis	8015M/D		1	43205	EM	EET ALB	02/17/26 13:25
Total/NA	Prep	SHAKE			43161	BV	EET ALB	02/16/26 11:22
Total/NA	Analysis	8015M/D		1	43312	EM	EET ALB	02/18/26 13:00
Total/NA	Prep	300_Prep			42954	JT	EET ALB	02/11/26 17:59
Total/NA	Analysis	300.0		10	42980	JT	EET ALB	02/12/26 14:00

Client Sample ID: SS26-10
Lab Sample ID: 885-43081-10
Date Collected: 02/09/26 09:45
Matrix: Solid
Date Received: 02/11/26 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			42928	JP	EET ALB	02/11/26 13:21
Total/NA	Analysis	8015M/D		1	43095	VP	EET ALB	02/14/26 10:16

Lab Chronicle

Client: Vertex
Job ID: 885-43081-1
Project/Site: Todd 36 State 1

Client Sample ID: SS26-10
Lab Sample ID: 885-43081-10
Date Collected: 02/09/26 09:45
Matrix: Solid
Date Received: 02/11/26 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			42928	JP	EET ALB	02/11/26 13:21
Total/NA	Analysis	8021B		1	43094	VP	EET ALB	02/14/26 10:16
Total/NA	Prep	SHAKE			43207	DR	EET ALB	02/17/26 09:01
Total/NA	Analysis	8015M/D		1	43205	EM	EET ALB	02/17/26 13:37
Total/NA	Prep	300_Prep			42954	JT	EET ALB	02/11/26 17:59
Total/NA	Analysis	300.0		10	42980	JT	EET ALB	02/12/26 14:31

Client Sample ID: SS26-11
Lab Sample ID: 885-43081-11
Date Collected: 02/09/26 09:50
Matrix: Solid
Date Received: 02/11/26 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			42932	VP	EET ALB	02/11/26 14:06
Total/NA	Analysis	8015M/D		1	43134	VP	EET ALB	02/15/26 09:26
Total/NA	Prep	5030C			42932	VP	EET ALB	02/11/26 14:06
Total/NA	Analysis	8021B		1	43135	VP	EET ALB	02/15/26 09:26
Total/NA	Prep	SHAKE			43026	BV	EET ALB	02/12/26 15:03
Total/NA	Analysis	8015M/D		1	43077	EM	EET ALB	02/14/26 00:02
Total/NA	Prep	300_Prep			42954	JT	EET ALB	02/11/26 17:59
Total/NA	Analysis	300.0		20	43321	MA	EET ALB	02/18/26 15:44

Client Sample ID: SS26-12
Lab Sample ID: 885-43081-12
Date Collected: 02/09/26 09:55
Matrix: Solid
Date Received: 02/11/26 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			42932	VP	EET ALB	02/11/26 14:06
Total/NA	Analysis	8015M/D		1	43134	VP	EET ALB	02/15/26 10:36
Total/NA	Prep	5030C			42932	VP	EET ALB	02/11/26 14:06
Total/NA	Analysis	8021B		1	43135	VP	EET ALB	02/15/26 10:36
Total/NA	Prep	SHAKE			43026	BV	EET ALB	02/12/26 15:03
Total/NA	Analysis	8015M/D		1	43077	EM	EET ALB	02/14/26 00:13
Total/NA	Prep	300_Prep			42954	JT	EET ALB	02/11/26 17:59
Total/NA	Analysis	300.0		10	42980	JT	EET ALB	02/12/26 14:51

Client Sample ID: SS26-133
Lab Sample ID: 885-43081-13
Date Collected: 02/09/26 10:00
Matrix: Solid
Date Received: 02/11/26 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			42932	VP	EET ALB	02/11/26 14:06
Total/NA	Analysis	8015M/D		1	43134	VP	EET ALB	02/15/26 11:47
Total/NA	Prep	5030C			42932	VP	EET ALB	02/11/26 14:06
Total/NA	Analysis	8021B		1	43135	VP	EET ALB	02/15/26 11:47

Lab Chronicle

Client: Vertex
Job ID: 885-43081-1
Project/Site: Todd 36 State 1

Client Sample ID: SS26-133
Lab Sample ID: 885-43081-13
Date Collected: 02/09/26 10:00
Matrix: Solid
Date Received: 02/11/26 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			43026	BV	EET ALB	02/12/26 15:03
Total/NA	Analysis	8015M/D		1	43077	EM	EET ALB	02/14/26 00:25
Total/NA	Prep	300_Prep			42954	JT	EET ALB	02/11/26 17:59
Total/NA	Analysis	300.0		10	42980	JT	EET ALB	02/12/26 15:02

Client Sample ID: SS26-14
Lab Sample ID: 885-43081-14
Date Collected: 02/09/26 10:15
Matrix: Solid
Date Received: 02/11/26 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			42932	VP	EET ALB	02/11/26 14:06
Total/NA	Analysis	8015M/D		1	43134	VP	EET ALB	02/15/26 12:10
Total/NA	Prep	5030C			42932	VP	EET ALB	02/11/26 14:06
Total/NA	Analysis	8021B		1	43135	VP	EET ALB	02/15/26 12:10
Total/NA	Prep	SHAKE			43026	BV	EET ALB	02/12/26 15:03
Total/NA	Analysis	8015M/D		1	43077	EM	EET ALB	02/14/26 00:36
Total/NA	Prep	300_Prep			42954	JT	EET ALB	02/11/26 17:59
Total/NA	Analysis	300.0		10	42980	JT	EET ALB	02/12/26 15:12

Client Sample ID: SS26-15
Lab Sample ID: 885-43081-15
Date Collected: 02/09/26 10:10
Matrix: Solid
Date Received: 02/11/26 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			42932	VP	EET ALB	02/11/26 14:06
Total/NA	Analysis	8015M/D		1	43134	VP	EET ALB	02/15/26 12:34
Total/NA	Prep	5030C			42932	VP	EET ALB	02/11/26 14:06
Total/NA	Analysis	8021B		1	43135	VP	EET ALB	02/15/26 12:34
Total/NA	Prep	SHAKE			43026	BV	EET ALB	02/12/26 15:03
Total/NA	Analysis	8015M/D		1	43077	EM	EET ALB	02/14/26 00:47
Total/NA	Prep	300_Prep			42954	JT	EET ALB	02/11/26 17:59
Total/NA	Analysis	300.0		10	42980	JT	EET ALB	02/12/26 15:22

Client Sample ID: SS26-16
Lab Sample ID: 885-43081-16
Date Collected: 02/09/26 10:15
Matrix: Solid
Date Received: 02/11/26 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			42932	VP	EET ALB	02/11/26 14:06
Total/NA	Analysis	8015M/D		1	43134	VP	EET ALB	02/15/26 12:58
Total/NA	Prep	5030C			42932	VP	EET ALB	02/11/26 14:06
Total/NA	Analysis	8021B		1	43135	VP	EET ALB	02/15/26 12:58
Total/NA	Prep	SHAKE			43026	BV	EET ALB	02/12/26 15:03
Total/NA	Analysis	8015M/D		1	43077	EM	EET ALB	02/14/26 00:59

Lab Chronicle

Client: Vertex
Job ID: 885-43081-1
Project/Site: Todd 36 State 1

Client Sample ID: SS26-16
Lab Sample ID: 885-43081-16
Date Collected: 02/09/26 10:15
Matrix: Solid
Date Received: 02/11/26 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			43002	EH	EET ALB	02/12/26 11:43
Total/NA	Analysis	300.0		10	42980	JT	EET ALB	02/13/26 01:32

Client Sample ID: SS26-17
Lab Sample ID: 885-43081-17
Date Collected: 02/09/26 10:20
Matrix: Solid
Date Received: 02/11/26 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			42932	VP	EET ALB	02/11/26 14:06
Total/NA	Analysis	8015M/D		1	43134	VP	EET ALB	02/15/26 13:46
Total/NA	Prep	5030C			42932	VP	EET ALB	02/11/26 14:06
Total/NA	Analysis	8021B		1	43135	VP	EET ALB	02/15/26 13:46
Total/NA	Prep	SHAKE			43026	BV	EET ALB	02/12/26 15:03
Total/NA	Analysis	8015M/D		1	43077	EM	EET ALB	02/14/26 01:10
Total/NA	Prep	300_Prep			43002	EH	EET ALB	02/12/26 11:43
Total/NA	Analysis	300.0		10	42980	JT	EET ALB	02/13/26 01:43

Client Sample ID: BS26-01
Lab Sample ID: 885-43081-18
Date Collected: 02/09/26 11:00
Matrix: Solid
Date Received: 02/11/26 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			42932	VP	EET ALB	02/11/26 14:06
Total/NA	Analysis	8015M/D		1	43134	VP	EET ALB	02/15/26 14:10
Total/NA	Prep	5030C			42932	VP	EET ALB	02/11/26 14:06
Total/NA	Analysis	8021B		1	43135	VP	EET ALB	02/15/26 14:10
Total/NA	Prep	SHAKE			43026	BV	EET ALB	02/12/26 15:03
Total/NA	Analysis	8015M/D		1	43077	EM	EET ALB	02/14/26 01:21
Total/NA	Prep	300_Prep			43002	EH	EET ALB	02/12/26 11:43
Total/NA	Analysis	300.0		10	42980	JT	EET ALB	02/13/26 01:53

Client Sample ID: WS26-01
Lab Sample ID: 885-43081-19
Date Collected: 02/09/26 11:05
Matrix: Solid
Date Received: 02/11/26 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			42932	VP	EET ALB	02/11/26 14:06
Total/NA	Analysis	8015M/D		1	43134	VP	EET ALB	02/15/26 14:34
Total/NA	Prep	5030C			42932	VP	EET ALB	02/11/26 14:06
Total/NA	Analysis	8021B		1	43135	VP	EET ALB	02/15/26 14:34
Total/NA	Prep	SHAKE			43026	BV	EET ALB	02/12/26 15:03
Total/NA	Analysis	8015M/D		1	43077	EM	EET ALB	02/14/26 01:44
Total/NA	Prep	300_Prep			43002	EH	EET ALB	02/12/26 11:43
Total/NA	Analysis	300.0		10	42980	JT	EET ALB	02/13/26 02:03

Lab Chronicle

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-43081-1

Client Sample ID: WS26-02

Date Collected: 02/09/26 11:10
Date Received: 02/11/26 07:45

Lab Sample ID: 885-43081-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			42932	VP	EET ALB	02/11/26 14:06
Total/NA	Analysis	8015M/D		1	43134	VP	EET ALB	02/15/26 14:58
Total/NA	Prep	5030C			42932	VP	EET ALB	02/11/26 14:06
Total/NA	Analysis	8021B		1	43135	VP	EET ALB	02/15/26 14:58
Total/NA	Prep	SHAKE			43026	BV	EET ALB	02/12/26 15:03
Total/NA	Analysis	8015M/D		1	43077	EM	EET ALB	02/14/26 01:55
Total/NA	Prep	300_Prep			43076	MA	EET ALB	02/13/26 09:55
Total/NA	Analysis	300.0		10	43079	MA	EET ALB	02/13/26 14:54

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Vertex Job ID: 885-43081-1
Project/Site: Todd 36 State 1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425	02-25-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics (GRO)-C6-C10
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total

Oregon	NELAP	NM100001	02-25-26

Chain-of-Custody Record

Client: VERTEX (BILL TO DEVON)

Mailing Address: 3101 Boyd dr CARLSBAD NM, 88220

Phone #: –

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☒ Rush 5 Day

Project Name: Todd 36 STATE 1

Project #: 25A-01349

Project Manager: SALLY CARTTAR, KENT STALLINGS

Sampler: KATRINA TAYLOR

On Ice: ~~☐ Yes~~ ☐ No

# of Coolers: 1 Ice

Cooler Temp(including CF): 0.3+0.2=0.5

eurofins | Environment T
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 8710
Tel. 505-345-3975 Fax 505-345-4107

885-43081 COC

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 8011)	PAHs by 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
2/9	9:00	Soil	SS26-01	4oz, 1	ICE		X	X					X			
	9:05		SS26-02													
	9:10		SS26-03													
	9:15		SS26-04													
	9:20		SS26-05													
	9:25		SS26-06													
	9:30		SS26-07													
	9:35		SS26-08													
	9:40		SS26-09													
	9:45		SS26-10													
	9:50		SS26-11													
	9:55		SS26-12													

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
2/9	1000				2/10/26	1000
2/10/26	1900			Courier	2/11/26	7:45

Remarks: BILL TO DEVON WO: 1006091901
ATTN: JIM RALEY
CC: SCARTTAR@VERTEX.CA, KSTALLINGS@VERTEX.CA
KATRINA.TAYLOR@VERTEX.CA

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: VERTEX (BILL TO DEVON)

Mailing Address: 3101 Boyd dr, CARLSBAD NM, 88220

Phone #: —

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☒ Rush 5 DAY

Project Name: Todd 36 STATE 1

Project #: 25A-01349

Project Manager: SALLY CARTTAR, KENT STALLINGS

Sampler: KATRINA TAYLOR

On Ice: ☐ ~~Yes~~ ☐ No

# of Coolers: 1 Ice

Cooler Temp(including CF): 0.3+0.2=0.5

eurofins | Environment Testing
Albuquerque
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 8011)	PAHs by 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
2/9	10:00	Soil	SS26-13	4oz, 1	ICE		X	X					X			
↓	10:05	↓	SS26-14	↓	↓		↓	↓					↓			
	10:10		SS26-15													
	10:15		SS26-16													
↓	10:20	↓	SS26-17	↓	↓		↓	↓					↓			
—	—	—	~~SS26-18~~	—	—	—	—	—					—			
↓	11:00	↓	BS26-01	↓	ICE		↓	↓					↓			
	11:05		WS26-01													
↓	11:10	↓	WS26-02	↓	↓		↓	↓					↓			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
2/10/26	1000	[signature]	[signature]		2/10/26	1000
2/10/26	1900	[signature]	[signature]	Courier	2/11/26	7:45

Remarks: BILL TO DEVON WO: 100609101
ATTN: JIM RALEY
CC: SCARTTAR@VERTEX.CA, KSTALLINGS@VERTEX.CA
KATRINA.TAYLOR@VERTEX.CA

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Vertex Job Number: 885-43081-1

Login Number: 43081 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Kent Stallings
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 3/6/2026 11:00:51 AM

JOB DESCRIPTION

Todd 36 State 1

JOB NUMBER

885-44354-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated
3/6/2026 11:00:51 AM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Vertex
Project/Site: Todd 36 State 1

Laboratory Job ID: 885-44354-1

Table of Contents

Definitions/Glossary

Client: Vertex Job ID: 885-44354-1
Project/Site: Todd 36 State 1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Vertex
Project: Todd 36 State 1

Job ID: 885-44354-1

Job ID: 885-44354-1 Eurofins Albuquerque

Job Narrative
885-44354-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The sample was received on 2/28/2026 8:20 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-44354-1

Client Sample ID: Backfill

Date Collected: 02/26/26 10:23
Date Received: 02/28/26 08:20

Lab Sample ID: 885-44354-1

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		03/02/26 10:55	03/04/26 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*15 - 150*	*03/02/26 10:55*	*03/04/26 21:27*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/02/26 10:55	03/04/26 21:27	1
Ethylbenzene	ND		0.049		mg/Kg		03/02/26 10:55	03/04/26 21:27	1
Toluene	ND		0.049		mg/Kg		03/02/26 10:55	03/04/26 21:27	1
Xylenes, Total	ND		0.098		mg/Kg		03/02/26 10:55	03/04/26 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*15 - 150*	*03/02/26 10:55*	*03/04/26 21:27*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		03/02/26 08:45	03/03/26 13:29	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		03/02/26 08:45	03/03/26 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*	*03/02/26 08:45*	*03/03/26 13:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**100**		50		mg/Kg		03/03/26 09:46	03/04/26 02:36	10

QC Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-44354-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-44132/1-A
Matrix: Solid
Analysis Batch: 44295

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44132

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		03/02/26 10:55	03/04/26 14:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*15 - 150*	*03/02/26 10:55*	*03/04/26 14:13*	*1*

Lab Sample ID: LCS 885-44132/2-A
Matrix: Solid
Analysis Batch: 44295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44132

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	28.9		mg/Kg		116	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*228*		*15 - 150*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-44132/1-A
Matrix: Solid
Analysis Batch: 44296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44132

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/02/26 10:55	03/04/26 14:13	1
Ethylbenzene	ND		0.050		mg/Kg		03/02/26 10:55	03/04/26 14:13	1
Toluene	ND		0.050		mg/Kg		03/02/26 10:55	03/04/26 14:13	1
Xylenes, Total	ND		0.10		mg/Kg		03/02/26 10:55	03/04/26 14:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*15 - 150*	*03/02/26 10:55*	*03/04/26 14:13*	*1*

Lab Sample ID: LCS 885-44132/3-A
Matrix: Solid
Analysis Batch: 44296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44132

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.964		mg/Kg		96	70 - 130		
Ethylbenzene			1.00	0.959		mg/Kg		96	70 - 130		
m-Xylene & p-Xylene			2.00	1.96		mg/Kg		98	70 - 130		
o-Xylene			1.00	0.950		mg/Kg		95	70 - 130		
Toluene			1.00	0.978		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*15 - 150*

QC Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-44354-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-44198/1-A
Matrix: Solid
Analysis Batch: 44175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44198

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0		mg/Kg		03/03/26 09:45	03/03/26 22:28	1

Lab Sample ID: LCS 885-44198/2-A
Matrix: Solid
Analysis Batch: 44175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44198

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			50.5	49.3		mg/Kg		98	90 - 110		

QC Association Summary

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-44354-1

GC VOA

Prep Batch: 44132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-44354-1	Backfill	Total/NA	Solid	5030C	
MB 885-44132/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-44132/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-44132/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 44295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-44354-1	Backfill	Total/NA	Solid	8015M/D	44132
MB 885-44132/1-A	Method Blank	Total/NA	Solid	8015M/D	44132
LCS 885-44132/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	44132

Analysis Batch: 44296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-44354-1	Backfill	Total/NA	Solid	8021B	44132
MB 885-44132/1-A	Method Blank	Total/NA	Solid	8021B	44132
LCS 885-44132/3-A	Lab Control Sample	Total/NA	Solid	8021B	44132

GC Semi VOA

Prep Batch: 44110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-44354-1	Backfill	Total/NA	Solid	SHAKE	

Analysis Batch: 44189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-44354-1	Backfill	Total/NA	Solid	8015M/D	44110

HPLC/IC

Analysis Batch: 44175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-44354-1	Backfill	Total/NA	Solid	300.0	44198
MB 885-44198/1-A	Method Blank	Total/NA	Solid	300.0	44198
LCS 885-44198/2-A	Lab Control Sample	Total/NA	Solid	300.0	44198

Prep Batch: 44198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-44354-1	Backfill	Total/NA	Solid	300_Prep	
MB 885-44198/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-44198/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Lab Chronicle

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-44354-1

Client Sample ID: Backfill

Date Collected: 02/26/26 10:23
Date Received: 02/28/26 08:20

Lab Sample ID: 885-44354-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			44132	VP	EET ALB	03/02/26 10:55
Total/NA	Analysis	8015M/D		1	44295	AT	EET ALB	03/04/26 21:27
Total/NA	Prep	5030C			44132	VP	EET ALB	03/02/26 10:55
Total/NA	Analysis	8021B		1	44296	AT	EET ALB	03/04/26 21:27
Total/NA	Prep	SHAKE			44110	DR	EET ALB	03/02/26 08:45
Total/NA	Analysis	8015M/D		1	44189	BV	EET ALB	03/03/26 13:29
Total/NA	Prep	300_Prep			44198	MS	EET ALB	03/03/26 09:46
Total/NA	Analysis	300.0		10	44175	JT	EET ALB	03/04/26 02:36

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Vertex Job ID: 885-44354-1
Project/Site: Todd 36 State 1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425	02-25-26 *

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics (GRO)-C6-C10
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total

Oregon	NELAP	NM100001	02-25-27

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Chain-of-Custody Record

Client: Vertex (bill to Devon Energy)

Mailing Address: 3101 Boyd Dr
Carlsbad, New Mexico 88220

Phone #: 575.725.5001

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
Rush 5 Day
Standard TAT

Project Name: Todd 36 State 1

Project #: wo 8999999999
25A-01349

Project Manager: Sally Carttar

SCarttar@vertexresource.com

Sampler: Sharon Minnix

On Ice: ☑ Yes ☐ No Abby

# of Coolers: 1

Cooler Temp(including CF): 1.4+0.3 = 1.9°c

HALL ENVIRONME
ANALYSIS LABOR
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87
Tel. 505-345-3975 Fax 505-345-4107

885-44354 COC

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	(GRO / DRO / MRO) (8015D)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
2.26.26	1023	soil	Backfill	1,402	ice		X	X					X			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
2/27/26	935	Sharon Minnix	Acummings		2/27/26	935
2/27/26	1900	Acummings	Acummings	courier	2/28/26	8:20

Remarks: Direct Bill to Devon Energy ATTN: Jim Raley CC: Sally Carttar (Scarttar@vertexresource.com), Permian@vertexresource.com, and Sharon Minnix (Sminnix@vertexresource.com) for final report.

Login Sample Receipt Checklist

Client: Vertex Job Number: 885-44354-1

Login Number: 44354 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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 572685

QUESTIONS

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 572685
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1532334246**
Incident Name	**NAB1532334246 TODD 36 STATE #001 @ 30-015-20341**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-015-20341] TODD 36 STATE #001**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	TODD 36 STATE #001
Date Release Discovered	01/21/2015
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. | Tank (Any) | Produced Water | Released: 75 BBL | Recovered: 50 BBL | Lost: 25 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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 (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 572685
	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. gas only) are to be submitted on the C-129 form.

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Roni Kidd Title: Business Manager Email: rkidd@buckhornproduction.com Date: 04/08/2026

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 (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 572685
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	30000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	16400
GRO+DRO (EPA SW-846 Method 8015M)	9400
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	01/01/2026
On what date will (or did) the final sampling or liner inspection occur	03/01/2026
On what date will (or was) the remediation complete(d)	03/01/2026
What is the estimated surface area (in square feet) that will be reclaimed	6951
What is the estimated volume (in cubic yards) that will be reclaimed	1030
What is the estimated surface area (in square feet) that will be remediated	198
What is the estimated volume (in cubic yards) that will be remediated	9
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.	

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 (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 572685
	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	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
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.	
I hereby agree and sign off to the above statement	Name: Roni Kidd Title: Business Manager Email: rkidd@buckhornproduction.com Date: 04/08/2026
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 572685
	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

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 (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 572685
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**550266**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**02/10/2026**
What was the (estimated) number of samples that were to be gathered	**20**
What was the sampling surface area in square feet	**6951**

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	198
What was the total volume (cubic yards) remediated	7.3
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	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	As detailed in attached 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	Name: Roni Kidd Title: Business Manager Email: rkidd@buckhornproduction.com Date: 04/08/2026

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 (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 572685
	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

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

CONDITIONS

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 572685
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	5/20/2026