

Incident Number: nAPP2513334879

Closure Report

PLU 23 DTD CVB

Section 14, 24 South, 30 East 32.210654, -103.854381 API/Facility ID: fAPP2325847913 County: Eddy, New Mexico Vertex File Number: 25A-02616

Prepared for: ExxonMobil Upstream Company

Prepared by: Vertex Resource Services Inc.

Date: June 2025 ExxonMobil Upstream Company PLU 23 DTD CVB Closure Report June 2025

Closure Report PLU 23 DTD CVB Section 14, 24 South, 30 East 32.210654 -103.854381 API/Facility ID: fAPP2325847913 County: Eddy, New Mexico

Prepared for: **ExxonMobil Upstream Company** 3104 East Greene Street Carlsbad, New Mexico, 88220

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1.0 Introduction

ExxonMobil Upstream Company (ExxonMobil) retained Vertex Resource Services Inc. (Vertex) to conduct a Closure Report for a produced water release that occurred on March 12, 2025, at PLU 23 DTD CVB API fAPP2325847913 (hereafter referred to as the "site"). ExxonMobil submitted an initial C-141 Release Notification to New Mexico Oil Conservation Division (NMOCD) on May 13, 2025. Incident ID number nAPP2513334879 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 at such time as all oil and gas activities are terminated and the site is reclaimed as per NMAC 19.15.29.13.

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2.0 Incident Description

The release occurred on March 12, 2025, due to the loss of power at the battery resulting in condensate coming out the flair. The incident was reported on March 12, 2025 and involved the release of approximately 9 barrels (bbl.) of produced water. Approximately 0 bbl. of free fluid was removed during initial clean-up. Additional details relevant to the release are presented in the C-141 Report.

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3.0 Site Characteristics

| Site Direction | 19 miles east of Malaga, New Mexico |
|-------------------------------|--|
| Section #, Township, Range | Section 14, 24 South and 30 East |
| Site Location | Rural, Eddy New Mexico |
| Release Area | on pad |
| Site Surface Geology | Qa |
| Predominant Soil Texture | Loamy Sand |
| Site Current Use | Tank Battery |
| Surrounding Landscape | uplands, plains, dunes |
| Elevation | 2,800 to 5,000 feet |
| Climate | 8 to 13 inches of precipitation with 221 days frost free |
| Vegetation | Little to no vegetation |
| Soil Type | Loamy Sand |
| Drainage Class | Well drained |
| Runoff Class | Low |
| Karst Geology | Low |

An aerial photograph and site schematic are presented in Appendices A.

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4.0 Closure Criteria Determination

| Table 1. Closure Criteria Determination | | | | | |
|--|--------------------------------|--|--|--|--|
| Site Specific Conditions | Value | | | | |
| Site Name: PLU 23 DTD CVB | | | | | |
| Spill Coordinates: 32.210654, -103.854381 | | | | | |
| 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 | | | | |
| A continuously flowing watercourse or any other significant watercourse | Greater than 5 miles | | | | |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) | Between 1 and 5 mile | | | | |
| An occupied permanent residence, school, hospital, institution, or church | Between 1 and 5 mile | | | | |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes | Greater than 5 miles | | | | |
| Any other fresh water well or spring | Greater than 5 miles | | | | |
| Incorporated municipal boundaries or a defined municipal fresh water well field | Between 1 and 5 mile | | | | |
| A wetland | Between 1 and 5 mile | | | | |
| A subsurface mine | Greater than 5 miles | | | | |
| An (non-karst) unstable area | Greater than 5 miles | | | | |
| Categorize the risk of this well / site being in a karst geology | Low | | | | |
| A 100-year floodplain | Greater than 5 miles | | | | |
| Did the release impact areas not on an exploration, development, production, or storage site | No | | | | |
| Requesting a remediation plan approval with this submission | Yes | | | | |

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

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| Fable 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 | | | | | |
| | Chloride | 20,000 mg/kg | | | | | |
| | TPH (GRO+DRO+MRO) | 2,500 mg/kg | | | | | |
| | GRO+DRO | 1,000 mg/kg | | | | | |
| > 100 feet | BTEX | 50 mg/kg | | | | | |
| | Benzene | 10 mg/kg | | | | | |

TDS – total dissolved solids

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

BTEX – benzene, toluene, ethylbenzene and xylenes

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5.0 Remedial Actions Taken

An initial site inspection of the release area was completed on May 12, 2025, which identified the area of the release specified in the initial C-141 Report. The impacted area was determined to be on pad; the total affected area is 1675 square feet. The Daily Field Report associated with the site inspection is included in Appendix E.

Remediation efforts began on June 11, 2025, and were finalised on June 13, 2025, Vertex Personnel supervised the excavation of impacted soils. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility as stipulated by the Form C-138 Request for Approval to Accept Solid Waste.

Notification that confirmatory samples were being collected on June 13, 2025, was provided to the NMOCD. Confirmatory composite samples were collected from the base and walls of the excavation in 200 square foot increments. A total of 10 samples were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Cardinal Laboratory 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, Appendix B, and the laboratory data reports are included in Appendix F. The release area was excavated to 3 inches with a combination of hand digging and mechanical excavation to remediate it in compliance with NMAC 19.15.29.12. All confirmatory samples collected and analysed were below closure criteria for the site.

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6.0 Closure Request

The release area was fully delineated and remediated by June 13, 2025. Confirmatory samples were analyzed by the laboratory and found to be below allowable concentrations as per the NMAC Closure Criteria for Soils Impacted by a Release location >100 feet to groundwater.

Based on these findings, Vertex Resource on behalf of ExxonMobil Upstream Company requests that this release be closed.

Should you have any questions or concerns, please do not hesitate to contact Chad Hensley at 575.200.6167 or chensley@vertexresource.com.

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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 Department of Surface Water Quality Bureau. (2025). *Assessed and Impaired Waters of New Mexico*. Retrieved from https://gis.web.env.nm.gov/oem/?map=swqb

New Mexico Energy, Minerals and Natural Resources Department. (2025). *OCD Permitting - Spill Search*. Retrieved from https://wwwapps.emnrd.nm.gov/ocd/ocdpermitting/Data/Spills/Spills.aspx

New Mexico Mining and Minerals Division. (2025). *Coal Mine Resources in New Mexico*. Retrieved from https://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=5f80f3b0faa545e58fe747cc7b037a93

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

New Mexico Office of the State Engineer. (2025b). *Water Column/Average Depth to Water Report - New Mexico Water Rights Reporting System*. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html

New Mexico Office of the State Engineer. (2025c). *Well Log/Meter Information Report - New Mexico Water Rights Reporting System*. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/meterReport.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 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/

United States Geological Survey. (2025). *National Water Information System: Web Interface*. Retrieved from https://waterdata.usgs.gov/nwis

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8.0 Limitations

This report has been prepared for the sole benefit of ExxonMobil Upstream Company.This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division and the Bureau of Land Management, without the express written consent of Vertex Resource Services Inc. (Vertex) and ExxonMobil Upstream Company. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

APPENDIX A: Figures





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APPENDIX B: Tables

Client Name: ExxonMobil Upstream Company Site Name: PLU 23 DTD CVB NMOCD Tracking #: NAPP2513334879 Project #: 25A-02616 Lab Report(sX): H253081

| Table 3. Initial Characterization Sample and Laboratory Results | | | | | | | | | | |
|---|------------|--------------|-------------------------|----------------|---|--------------------------|-------------------------|------------------------|--|-------------------------------|
| Sample Description | | | Petroleum Hydrocarbons | | | | | | | |
| | | | Vola | atile | | | Extractable | | | Inorganic |
| Sample ID | Depth (ft) | Sample Date | eue Bezue (mg/kg) | (mg/ga/gareal) | () () () () () () () () () () () () () (| ad Diesel Range Organics | (MRO) (MRO) (MRO) | (OXO + OXS) (mg/kg) |) Total Petroleum ଅନ୍ଧ୍ୟ Hydrocarbons (TPH) | (mg/kg) (gay/gancentration |
| | 0 | May 19, 2025 | ND | ND | ND | 74 | | 74 | ND | 16 |
| BH25-01 | 2 | May 19, 2025 | ND | ND | ND | 47 | ND | 47 | ND | 48 |
| | 0 | May 19, 2025 | ND | ND | ND | 31 | ND | 31 | ND | 48 |
| BH25-02 | 1 | May 19, 2025 | ND | ND | ND | 19 | ND | 19 | ND | 48 |
| BU 25 02 | 0 | May 19, 2025 | ND | ND | ND | 13 | ND | 13 | ND | 80 |
| BH25-03 | 1 | May 19, 2025 | ND | ND | ND | 38 | ND | 38 | ND | 512 |
| | 0 | May 20, 2025 | ND | ND | ND | 12 | ND | 12 | ND | ND |
| BHZ2-04 | 2 | May 20, 2025 | ND | ND | ND | ND | ND | ND | ND | 80 |
| BH25-05 | 0 | May 20, 2025 | ND | ND | ND | ND | ND | ND | ND | 32 |
| БП25-05 | 1 | May 20, 2025 | ND | ND | ND | ND | ND | ND | ND | 80 |
| BH25-06 | 0 | May 21, 2025 | ND | ND | ND | ND | ND | ND | ND | 32 |
| BH25-00 | 1 | May 21, 2025 | ND | ND | ND | ND | ND | ND | ND | 80 |
| BH25-07 | 0.25 | May 21, 2025 | ND | ND | ND | ND | ND | ND | ND | 12000 |
| BH25-08 | 0.25 | May 21, 2025 | ND | ND | ND | ND | ND | ND | ND | 10400 |
| SS25-01 | 0 | May 20, 2025 | ND | ND | ND | ND | ND | ND | ND | 21600 |
| SS25-02 | 0 | May 20, 2025 | ND | ND | ND | ND | ND | ND | ND | 23600 |
| SS25-03 | 0 | May 20, 2025 | ND | ND | ND | ND | ND | ND | ND | 15800 |
| SS25-04 | 0 | May 20, 2025 | ND | ND | ND | ND | ND | ND | ND | 22800 |
| SS25-05 | 0 | May 20, 2025 | ND | ND | ND | ND | ND | ND | ND | 56800 |
| SS25-06 | 0 | May 21, 2025 | ND | ND | ND | ND | ND | ND | ND | 24800 |

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria (on-pad)



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Client Name: ExxonMobil Upstream Company Site Name: PLU 23 DTD CVB NMOCD Tracking #: NAPP2513334879 Project #: 25A-02616 Lab Report(sX): H253545

| Table 4. Confirmatory Sample and Laboratory Results | | | | | | | | | | | |
|---|----------------|---------------|---------|--------------|----------------------------------|--------------------------------|-----------------------------------|-------------|---------------------------------------|------------------------|--|
| S | Sample Descrip | otion | | | Petrole | eum Hydrod | arbons | | | | |
| | | | Vola | atile | | | Extractable | : | | Inorganic | |
| Sample ID | Depth (ft) | Sample Date | Benzene | BTEX (Total) | Gasoline Range Organics (GRO) | Diesel Range Organics (DRO) | Motor Oil Range Organics (MRO) | (ORO + DRO) | Total Petroleum Hydrocarbons (TPH) | Chloride Concentration | |
| | | | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | |
| | | | | | Depth | to Ground | water > 100 |) feet bgs | | | |
| BS25-01 | 0.25 | June 13, 2025 | ND | ND | ND | 35 | ND | 35 | 35 | 1550 | |
| BS25-02 | 0.25 | June 13, 2025 | ND | ND | ND | 281 | 60 | 281 | 341 | 384 | |
| BS25-03 | 0.25 | June 13, 2025 | ND | ND | ND | 73 | 16 | 73 | 89 | 1920 | |
| BS25-04 | 0.25 | June 13, 2025 | ND | ND | ND | 20 | ND | ND | ND | 288 | |
| BS25-05 | 0.25 | June 13, 2025 | ND | ND | ND | ND | ND | ND | ND | 5040 | |
| BS25-06 | 0.25 | June 13, 2025 | ND | ND | ND | 16 | ND | 16 | 16 | 1790 | |
| BS25-07 | 0.25 | June 13, 2025 | ND | ND | ND | ND | ND | ND | ND | 10700 | |
| BS25-08 | 0.25 | June 13, 2025 | ND | ND | ND | ND | ND | ND | ND | 8640 | |
| BS25-09 | 0.25 | June 13, 2025 | ND | ND | ND | ND | ND | ND | ND | 11200 | |
| WS25-01 | 0-0.25 | June 13, 2025 | ND | ND | ND | ND | ND | ND | ND | 144 | |

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria (on-pad)



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APPENDIX C: Closure Criteria Research Documentation

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| Closure Cr | iteria Determination | | |
|-------------|---|--------------|-----------------------------------|
| Site Name | : PLU 23 DTD CVB | X. CO70C4 82 | V. 2564260.99 |
| Spill Coord | inates: 32.210654, -103.854381 | X: 607964.83 | 1: 3564360.88 |
| Site Specif | | value | Unit |
| | Depth to Groundwater (nearest reference) | >105 | feet |
| 1 | Distance between release and nearest DTGW reference | 1,508 | niloc |
| | Date of pagrect DTGW reference measurement | U.20 | 1 2022 |
| <u> </u> | Within 200 fast of any continuously flowing watercourse | January 2. | I, 2022 |
| 2 | or any other significant watercourse | 2,721 | feet |
| 3 | Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark) | 47,949 | feet |
| 4 | Within 300 feet from an occupied residence, school, hospital, institution or church | 67,395 | 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 | 4,633 | feet |
| | ii) Within 1000 feet of any fresh water well or spring | 4,633 | 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 | feet |
| 7 | Within 300 feet of a wetland | 1,194 | feet |
| | Within the area overlying a subsurface mine | No | feet |
| 8 | Distance between release and nearest registered mine | 52,869 | feet |
| 9 | Within an unstable area (Karst Map) | Low | Critical High Medium Low |
| | Distance between release and nearest unstable area | 25,344 | feet |
| | Within a 100-year Floodplain | 100-500 | year |
| 10 | Distance between release and nearest FEMA Zone A (100- year Floodplain) | 2,504 | feet |
| 11 | Soil Type | Bernio Co | omplex |
| 12 | Ecological Classification | Loamy | Sand |
| 13 | Geology | Qep |) |
| | NMAC 19.15.29.12 E (Table 1) Closure Criteria | >100' | <50' 51-100' >100' |



01. PLU 23 DTD CVB 0.28mi from the DTGW Well

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MOI

WELL TAG ID NO.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

05E 011 JAN 24 2022 M3:00

www.ose.state.nm.us

| WEL | D Energy (H | ME(S) Kyle Lit | ttrell) | | | | | PHONE (OPTIO | ONAL) | | |
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| LICE | INSE NO. 1249 | | NAME OF LICENSED | DRILLER | kie D. Atkins | 5 | | | NAME OF WELL DR Atkins Eng | ILLING COMPANY ineering Associates, 1 | inc. |
| DRIL | LING START 1-4-2022 | ED | DRILLING ENDED 1-4-2022 | DEPTH OF COM temporar | PLETED WELL (F y well materi | T) BO al | RE HO | le depth (FT) 105 | DEPTH WATER FIR: | ST ENCOUNTERED (FT) n/a | 1 |
| сом | IPLETED WEI | LL IS: | ARTESIAN | I DRY HOLE | SHALLO | OW (UNCONFIN | NED) | | STATIC WATER LEV | /EL IN COMPLETED WI n/a | ELL (FT |
| DRIL DRIL | LING FLUID: | DD: | AIR ROTARY | MUD HAMMER | | VES - SPECIFY | OTHE | R – SPECIFY: | Hollo | w Stem Auger | |
| D | DEPTH (feet bgl) BORE HOLD FROM TO DIAM | | BORE HOLE DIAM (inches) | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | | | C/ CONI | ASING NECTION TYPE | CASING INSIDE DIAM. | CASING WALL THICKNESS (inches) | SL SI (inc |
| (| 0 | 105 | ±8.5 | note sec Bo | tions of screen pring- HSA |) (ad | ld coup | ling diameter) | - | | |
| | | | | | | | | | | | |
| | EPTH (feet | hgl) | | 1107 | ANNUI AD C | | | | AMOUNT | | |
| FR | OM | TO | DIAM. (inches) | GRAVI | EL PACK SIZE | E-RANGE BY | INTE | ERVAL | (cubic feet) | PLACE | MENT |
| | | | | | | | | | | | _ |

LOCATION

1

245-30E-22

| | DEPTH (feet bgl) | 1 | COLOR AND TYPE OF MATERIAL ENCOUNTERED - | WATER | ESTIMATED |
|---|--|---|--|--|---|
| | FROM TO | THICKNESS (feet) | INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units) | WATER BEARING? (YES / NO) | YIELD FOR WATER- BEARING ZONES (gpm) |
| | 0 1 | 1 | Caliche, White, Dry | Y √N | |
| | 1 20 | 19 | Sand, very fine grained, well graded, with caliche, Reddish Brown-Light Brow | m Y N | |
| | 20 30 | 20 | Caliche, consolidated with silt and some gravel, Off-White, Dry | Y √N | |
| | 30 50 | 20 | Sand, very fine grained, well graded, with gravel, Light Brown | Y √N | |
| | 50 75 | 25 | Sand, very fine grained, well graded, with gravel, Reddish Brown, slight mois | t Y √N | |
| | 75 105 | 30 | Sand, very fine grained, poorly graded, Reddish Brown, slight moist | Y √N | |
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| | METHOD USED TO | ESTIMATE VIEL | OF WATER-BEARING STRATA | TAL ESTIMATED | |
| | | AIR LIFT | BAILER OTHER - SPECIFY: | ELL YIELD (gpm): | 0.00 |
| | WELL TEST TES | T RESULTS - AT RT TIME, END T | TACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLU IME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER | DING DISCHARGE N THE TESTING PERIO | IETHOD, D. |
| 5 | MISCELLANEOUS I | NFORMATION: T fi L | emporary well materials removed and the soil boring backfilled using of the bet below ground surface, then hydrated bentonite chips from ten feet bo ogs adapted from WSP on-site geologist. | rill cuttings from tot low ground surface | al depth to ten to surface. |
| | | | | | |
| | PRINT NAME(S) OF Shane Eldridge, Carr | DRILL RIG SUPE | RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTI nelo Trevino | UCTION OTHER TH | AN LICENSEF |
| | PRINT NAME(S) OF Shane Eldridge, Cam THE UNDERSIGNEL CORRECT RECORD AND THE PERMIT H | DRILL RIG SUPE eron Pruitt, Carr HEREBY CERTI OF THE ABOVE IOLDER WITHIN | RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTI- nelo Trevino FIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL REC 30 DAYS AFTER COMPLETION OF WELL DRILLING: | UCTION OTHER TH , THE FOREGOING IS ORD WITH THE STA | AN LICENSEE S A TRUE ANI TE ENGINEEI |
| | PRINT NAME(S) OF Shane Eldridge, Cam THE UNDERSIGNEE CORRECT RECORD AND THE PERMIT H Qack Atken | DRILL RIG SUPE eron Pruitt, Carr HEREBY CERTI OF THE ABOVE OLDER WITHIN | RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTI- nelo Trevino FIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL REC 30 DAYS AFTER COMPLETION OF WELL DRILLING: Jackie D. Atkins | UCTION OTHER TH THE FOREGOING IS ORD WITH THE STA 1/21/2022 | AN LICENSEE S A TRUE ANI TE ENGINEEI |
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OSE_Well Record and Log_-forsign

Final Audit Report

| Created: | 2022-01-21 |
|-----------------|--|
| By: | Lucas Middleton (lucas@atkinseng.com) |
| Status: | Signed |
| Transaction ID: | CBJCHBCAABAAHFW29aZiQH1D931B0LxyAz3o1wYi88ri |
| | |

"OSE_Well Record and Log_-forsign" History

- Document created by Lucas Middleton (lucas@atkinseng.com) 2022-01-21 - 10:47:34 PM GMT- IP address: 69.21.248.123
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2022-01-21 - 10:48:19 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2022-01-21 - 10:49:13 PM GMT- IP address: 64.90.153.232
- Document e-signed by Jack Atkins (jack@atkinseng.com) Signature Date: 2022-01-22 - 0:16:23 AM GMT - Time Source: server- IP address: 64.90.153.232
- Agreement completed. 2022-01-22 - 0:16:23 AM GMT

OSE 011 JAN 24 2022 PM3:00

2022-01-22



| | | | quarters quar | are 1=NW 2=N ers are smallest | E 3=SW 4=SI to largest | | | | NAD83 UTM | in meters | | |
|---------------|------------|--------------|------------------|----------------------------------|---------------------------|----------|--------|--------|------------|-------------|-------|------------|
| Well Tag | POD | Nbr | Q64 | Q16 | Q4 | Sec | Tws | Rng | х | Y | Мар |) |
| NA | C 045 | 75 POD1 | NW | NW | NE | 23 | 24S | 30E | 608411.9 | 3564355.7 | • | |
| * UTM locatio | on was de | rived from I | PLSS - see | Help | | | | | | | | |
| Driller Lice | ense: | 1249 | Dr | iller Compaı | יאי: אי | ATKINS E | NGINEE | RING A | SSOC. INC. | | | |
| Driller Na | me: | ATKINS, | JACKIE D | UELENER | | | | | | | | |
| Drill Start | Date: | 2022-01 | -04 D r | ill Finish Dat | t e: 2 | 2022-01- | 04 | | | Plug Date: | | 2022-01-21 |
| Log File D | ate: | 2022-01 | -24 PC | W Rcv Date | • | | | | | Source: | | |
| Pump Typ | e: | | Pi | pe Discharge | e Size: | | | | | Estimated Y | ield: | 0 |
| Cocing Siz | o . | 0.00 | D | nth Mall | | 0E | | | | Dawth Wet | | |

Casing Perforations:

| Тор | Bottom |
|-----|--------|
|-----|--------|

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Point of Diversion Summary

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<u>get imag</u> <u>list</u>

Water Right Summary

| WR File Number: | C 04575 | Subbasin: | CUB | Cross Reference: |
|------------------|---------------------|--------------|-------|------------------|
| Primary Purpose: | MON MONITORING WELL | | | |
| Primary Status: | PMT Permit | | | |
| Total Acres: | | Subfile: | | Header: |
| Total Diversion: | 0.000 | Cause/Case: | | |
| Owner: | XTO ENERGY INC | Owner Class: | Agent | |
| Contact: | ADRIAN BAKER | | | |
| Owner: | WSP USA | Owner Class: | User | |
| Contact: | KALEI JENNINGS | | | |
| | | | | |

Documents on File

(acre-fee

| Transaction Images | Trn # | Doc | File/Act | Status 1 | Status 2 | Transaction Desc. | From/To | Acres | Diversion |
|-----------------------|---------------|------|------------|-------------|-------------|-------------------|---------|-------|-----------|
| 🛞 <u>get images</u> | <u>709414</u> | EXPL | 2021-10-06 | PMT | LOG | C 04575 POD1 | Т | 0.000 | 0.000 |
| • | | | | | | | | | • |

Current Points of Diversion

| ag Source | Q64 | Q16 | Q4 | Sec | Tws | Rng | x | Y | Мар | Other Location Desc |
|-----------|----------------|-----------------------|------------------------------|------------|--------------------------------|------------------------------------|--|---|---|---|
| ٨A | NW | NW | NE | 23 | 24S | 30E | 608411.9 | 3564355.7 | • | BH01 |
| V | ag Source A | ag Source Q64 A NW | ag Source Q64 Q16 A NW NW | A NW NW NE | agSourceQ64Q16Q4SecANWNWNWNE23 | agSourceQ64Q16Q4SecTwsANWNWNE2324S | ag Source Q64 Q16 Q4 Sec Tws Rng A NW NW NE 23 24S 30E | ag Source Q64 Q16 Q4 Sec Tws Rng X A NW NW NE 23 24S 30E 608411.9 | ag Source Q64 Q16 Q4 Sec Tws Rng X Y A NW NW NE 23 24S 30E 608411.9 3564355.7 | ag Source Q64 Q16 Q4 Sec Tws Rng X Y Map A NW NW NE 23 24S 30E 608411.9 3564355.7 O |

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Water Rights Summary

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U.S. Fish and Wildlife Service

National Wetlands Inventory

PLU 23 DTD CVB Watercourse 2,721ft

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

National Wetlands Inventory

PLU 23 DTD CVB Lake 47,949ft



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Page 29 of 158

Received by OCD: 6/27/2025 12:14:42 PM PLU 23 DID CVB Distance to Nearest Residence: 67,395ft

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Legender 30 of 158

Line Measure

Resident

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PLU 23 DTD CVB

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Active & Inactive Points of Diversion

(with Ownership Information)

| | | | (acre ft per annum) | | | | | (R=PO and no C=the | D has been replaced longer serves this file, file is closed) | | (quart (quart | ers are 1 ers are s | I=NW 2 mallest | =NE 3=: to large | SW 4=SE st) |) | (NAD83 UTN | (in meters) | | (meters) |
|----------------|-----------|-----|---------------------|--------------------------------|--------|---------------------|----------|--------------------------|--|---------|------------------|------------------------|-------------------|---------------------|----------------|-------|------------|--------------|-----|----------|
| WR File Nbr | Sub basin | Use | Diversion | Owner | County | POD Number | Well Tag | Code | Grant | Source | q64 | q16 | q4 | Sec | Tws | Range | x | Y | Мар | Distance |
| <u>C 04575</u> | CUB | MON | 0.000 | XTO ENERGY INC | ED | <u>C 04575 POD1</u> | NA | | | | NW | NW | NE | 23 | 24S | 30E | 608411.9 | 3564355.7 | • | 447.1 |
| <u>C 02780</u> | CUB | MON | 0.000 | U.S. DEPT. OF ENERGY - WIPP | ED | <u>C 02780</u> | | | | | NE | SW | NE | 23 | 24S | 30E | 608535.0 | 3563857.0 * | • | 760.9 |
| <u>C 02781</u> | CUB | MON | 0.000 | U.S. DEPT. OF ENERGY - WIPP | ED | <u>C 02781</u> | | | | | SE | SW | NE | 23 | 24S | 30E | 608535.0 | 3563657.0 * | • | 905.8 |
| <u>C 02782</u> | CUB | MON | 0.000 | U.S. BUREAU OF LAND MANAGEMENT | ED | <u>C 02782</u> | | | | | SE | SW | NE | 23 | 245 | 30E | 608535.0 | 3563657.0 * | • | 905.8 |
| <u>C 04911</u> | CUB | MON | 0.000 | XTO ENERGY, INC | ED | <u>C 04911 POD1</u> | NA | | | | NE | NW | NE | 22 | 245 | 30E | 606954.0 | 3564161.5 | • | 1,030.3 |
| <u>C 02110</u> | CUB | STK | 3.000 | CLARENCE W. MCDONALD | ED | <u>C 02110</u> | | | | | | SE | SW | 23 | 245 | 30E | 608036.0 | 3562950.0 * | • | 1,412.7 |
| <u>C 04761</u> | CUB | MON | 0.000 | XTO ENERGY INC. | ED | <u>C 04761 POD1</u> | NA | | | | NE | NW | NE | 27 | 245 | 30E | 606924.0 | 3562659.3 | • | 1,994.7 |
| <u>C 03702</u> | CUB | MON | 0.000 | BOPCO, LP | ED | <u>C 03702 POD1</u> | | | | | SE | NW | SE | 24 | 245 | 30E | 610092.2 | 3563204.1 | • | 2,421.5 |
| <u>C 01934</u> | с | PRO | 0.000 | PERRY R BASS | ED | <u>C 01934</u> | | | | | NE | NE | NE | 16 | 24S | 30E | 605664.0 | 3565821.0 * | • | 2,725.0 |
| <u>C 03893</u> | CUB | CPS | 0.000 | DARRELL CRASS DRILLING COMPANY | ED | <u>C 03893 POD1</u> | | | | | NW | NW | NE | 21 | 245 | 30E | 605162.5 | 3564162.8 | • | 2,809.3 |
| <u>C 02107</u> | с | DOL | 0.000 | M & M CATTLE CO. | ED | <u>C 02107</u> | | | | | | SW | NE | 21 | 245 | 30E | 605174.0 | 3563706.0 * | • | 2,866.6 |
| <u>C 03960</u> | с | STK | 3.000 | BUREAU OF LAND MANAGEMENT | ED | <u>C 03960 POD1</u> | | | | Shallow | NW | SW | NE | 21 | 245 | 30E | 605061.9 | 3563712.7 | • | 2,974.4 |
| <u>C 03558</u> | CUB | EXP | 0.000 | BOPCO, LP | ED | <u>C 03558 POD1</u> | | | | | NW | NE | NE | 25 | 245 | 30E | 610412.5 | 3562651.7 | • | 2,985.4 |
| | | | | | ED | <u>C 03558 POD2</u> | | | | | NW | NE | NE | 25 | 245 | 30E | 610412.5 | 3562651.7 | • | 2,985.4 |
| | | | | | ED | C 03558 POD3 | | | | | NW | NE | NE | 25 | 24S | 30E | 610412.5 | 3562651.7 | • | 2,985.4 |
| | | | | | ED | C 03558 POD4 | | | | | NW | NE | NE | 25 | 24S | 30E | 610412.5 | 3562651.7 | • | 2,985.4 |
| | | | | | ED | <u>C 03558 POD5</u> | | | | | NW | NE | NE | 25 | 24S | 30E | 610412.5 | 3562651.7 | • | 2,985.4 |
| <u>C 04478</u> | CUB | MON | 0.000 | XTO ENERGY INC | ED | <u>C 04478 POD1</u> | NA | | | | SW | SW | NE | 25 | 245 | 30E | 610077.4 | 3562041.1 | • | 3,137.6 |
| <u>C 04759</u> | CUB | MON | 0.000 | XTO ENERGY, INC | ED | <u>C 04759 POD1</u> | NA | | | | SE | NE | NW | 19 | 24S | 31E | 611452.0 | 3564087.8 | • | 3,497.8 |
| <u>C 04474</u> | CUB | MON | 0.000 | XTO ENERGY INC | ED | <u>C 04474 POD1</u> | NA | | | | NW | NW | NW | 34 | 245 | 30E | 605829.5 | 3561045.8 | • | 3,943.3 |
| C 04520 | с | SAN | 1.000 | DOUBLE E PIPELINE LLC | ED | C 04520 POD1 | 20E1C | | | Shallow | SW | SW | SE | 35 | 245 | 30E | 608454.0 | 3559687.6 | • | 4,698.8 |

Record Count: 21

Filters Applied:

UTM Filters (in meters): Easting: 607964.83 Northing: 3564360.88 Radius: 5000.0

Sorted By: Distance

* UTM location was derived from PLSS - see Help

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Active & Inactive Points of Diversion

Water Right Summary

| Z | WR File Number: | C 02110 | Subbasin: | CUB | Cross Reference: |
|------------------|------------------|--------------------------------|--------------|-------|------------------|
| <u>get image</u> | Primary Purpose: | STK 72-12-1 LIVESTOCK WATERING | | | |
| <u>IISL</u> | Primary Status: | DCL Declaration | | | |
| | Total Acres: | 0.000 | Subfile: | | Header: |
| | Total Diversion: | 3.000 | Cause/Case: | | |
| | Owner: | CLARENCE W. MCDONALD | Owner Class: | Owner | |
| | Contact: | | | | |
| | | | | | |

Documents on File

(acre-feet per

| Transaction Images | Trn # | Doc | File/Act | Status 1 | Status 2 | Transaction Desc. | From/To | Acres | Diversion | C |
|-----------------------|---------------|-----|------------|-------------|-------------|-------------------|---------|-------|-----------|---|
| | <u>199332</u> | DCL | 1984-03-01 | DCL | PRC | C 02110 | Т | 0.000 | 3.000 | |
| • | | | | | | | | | | ▶ |

Current Points of Diversion

| POD Number | Well Tag | Source | Q64 | Q16 | Q4 | Sec | Tws | Rng | x | Y | Мар | Other Location Desc | |
|----------------|-------------|-------------|-----------|--------|----|-----|-----|-----|----------|-------------|-----|---------------------|--|
| <u>C 02110</u> | | | | SE | SW | 23 | 24S | 30E | 608036.0 | 3562950.0 * | • | | |
| * UTM locat | ion was d | erived from | PLSS - se | e Help | | | | | | | | | |

Place of Use

| 0.000 3.000 STK DCL NO PLACE OF USE GIVEN. | Q256 | Q64 | Q16 | Q 4 | Sec | Tws | Rng | Acres | Diversion | CU | Use | Priority | Status | Other Location Desc |
|--|------|-----|-----|------------|-----|-----|-----|-------|-----------|----|-----|----------|--------|------------------------|
| | | | | | | | | 0.000 | 3.000 | | STK | | DCL | NO PLACE OF USE GIVEN. |

Source

| Acres | Diversion | CU | Use | Priority | Source | Description |
|-------|-----------|----|-----|----------|--------|-------------|
| 0.000 | 3.000 | | STK | | GW | |

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U.S. Fish and Wildlife Service

National Wetlands Inventory

PLU 23 DTD CVB Watercourse 2,721ft

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May 16, 2025

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake Other Riverine

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

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PLU 23 DTD CVB Mine 52,869ft







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

Potash

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

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6 km

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Received by OCD: 6/27/2025 12:14:42 PM National Flood Hazard Layer FIRMette



Legend

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Release 40 Imaging: 7/8/2025 1.9.20:46 AM 1,500 2,000

Basemap Imagery Source: USGS National Map 2023

regulatory purposes.

PLU 23 DTD CVB Geology



- 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, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road data;



Ecological site R070BD003NM Loamy Sand

Accessed: 06/18/2025

General information

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

Figure 1. Mapped extent

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

Associated sites

| R070BD004NM | Sandy Sandy |
|-------------|-------------------------------|
| R070BD005NM | Deep Sand Deep Sand |

Table 1. Dominant plant species

| Tree | Not specified |
|------------|---------------|
| Shrub | Not specified |
| Herbaceous | Not specified |

Physiographic features

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

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

Table 2. Representative physiographic features

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

Climatic features

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

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

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

Table 3. Representative climatic features

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

Influencing water features

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

Soil features

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

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

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

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

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

Characteristic soils are: Maljamar Berino Parjarito Palomas Wink Pyote

| 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 |

Table 4. Representative soil features

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| 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





1a. Drought, over grazing, fire suppression.

1b. Brush control, prescribed grazing

Severe loss of grass cover, fire suppression, erosion.
 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

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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 .

| J | an | Feb | Mar | Apr | Мау | 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





 Black grame/Mesquite community, with some dropseeds, threesoms, and scattered sund shimony oak
 Ones cover low to moderate

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

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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 | • | I | | |
| 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 | 37–61 | _ |

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

Animal community

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

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

Hydrological functions

The runoff curve numbers are determined by field investigations using hydraulic cover conditions and hydrologic soil groups. Hydrologic Interpretations Soil Series Hydrologic Group Berino B Kinco A Maljamar B Pajarito B Palomas B Wink B Pyote A

Recreational uses

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

Wood products

This site has no potential for wood products.

Other products

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

Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month Similarity Index Ac/AUM 100 - 762.3 - 3.5 75 - 513.0 - 4.5

50 – 26 4.6 – 9.0 25 – 0 9.1 +

Inventory data references

Data collection for this site was done in conjunction with the progressive soil surveys within the Southern Desertic Basins, Plains and Mountains, Major Land Resource Areas of New Mexico. This site has been mapped and correlated with soils in the following soil surveys. Eddy County, Lea County, and Chaves County.

Other references

Literature Cited:

Ansley, R. J.; Jacoby, P. W. 1998. Manipulation of fire intensity to achieve mesquite management goals in north Texas. In: Pruden, Teresa L.; Brennan, Leonard A., eds. Fire in ecosystem management: shifting the paradigm from suppression to prescription: Proceedings, Tall Timbers fire ecology conference; 1996 May 7-10; Boise, ID. No. 20. Tallahassee, FL: Tall Timbers Research Station: 195-204.

Ansley, R. J.; Jones, D. L.; Tunnell, T. R.; [and others]. 1998. Honey mesquite canopy responses to single winter fires: relation to herbaceous fuel, weather and fire temperature. International Journal of Wildland Fire 8(4):241-252.

Britton, Carlton M.; Wright, Henry A. 1971. Correlation of weather and fuel variables to mesquite damage by fire. Journal of Range Management 24:136-141.

Davis, Joseph H., III and Bonham, Charles D. 1979. Interference of sand sagebrush canopy with needleandthread. Journal of Range Management 32(5):384-386.

Herbel, C. H, Steger, R, Gould, W. L. 1974. Managing semidesert ranges of the Southwest Circular 456. Las Cruces, NM: New Mexico State University, Cooperative Extension Service. 48 p.

McDaniel, Kirk C.; Pieper, Rex D.; Loomis, Lyn E.; Osman, Abdelgader A. 1984. Taxonomy and ecology of perennial snakeweeds in New Mexico. Bulletin 711. Las Cruces, NM: New Mexico State University, Agricultural Experiment Station. 34 p.

McPherson, Guy R. 1995. The role of fire in the desert grasslands. In: McClaran, Mitchel P.; Van Devender, Thomas R., eds. The desert grassland. Tucson, AZ: The University of Arizona Press: 130-151.

Pettit, Russell D. 1986. Sand shinnery oak: control and management. Management Note 8. Lubbock, TX: Texas Tech University, College of Agricultural Sciences, Department of Range and Wildlife Management. 5 p.

Contributors

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Rangeland health reference sheet

Interpreting Indicators of Rangeland Health is a qualitative assessment protocol used to determine ecosystem condition based on benchmark characteristics described in the Reference Sheet. A suite of 17 (or more) indicators are typically considered in an assessment. The ecological site(s) representative of an assessment location must be known prior to applying the protocol and must be verified based on soils and climate. Current plant community cannot be used to identify the ecological site.

| Author(s)/participant(s) | |
|---|-------------------|
| Contact for lead author | |
| Date | |
| Approved by | |
| Approval date | |
| Composition (Indicators 10 and 12) based on | Annual Production |

Indicators

- 1. Number and extent of rills:
- 2. Presence of water flow patterns:
- 3. Number and height of erosional pedestals or terracettes:
- 4. Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):
- 5. Number of gullies and erosion associated with gullies:

- 6. Extent of wind scoured, blowouts and/or depositional areas:
- 7. Amount of litter movement (describe size and distance expected to travel):
- 8. Soil surface (top few mm) resistance to erosion (stability values are averages most sites will show a range of values):
- 9. Soil surface structure and SOM content (include type of structure and A-horizon color and thickness):
- 10. Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff:
- 11. Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site):
- 12. Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or live foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):

Dominant:

Sub-dominant:

Other:

Additional:

13. Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence):

- 14. Average percent litter cover (%) and depth (in):
- 15. Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production):
- 16. Potential invasive (including noxious) species (native and non-native). List species which BOTH characterize degraded states and have the potential to become a dominant or co-dominant species on the ecological site if their future establishment and growth is not actively controlled by management interventions. Species that become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not invasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state for the ecological site:
- 17. Perennial plant reproductive capability:



Department of Agriculture

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



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/? cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

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Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



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Custom Soil Resource Report

| MAP L | EGEND | MAP INFORMATION |
|---|--|---|
| Area of Interest (AOI) Area of Interest (AOI) | Spoil AreaStony Spot | The soil surveys that comprise your AOI were mapped at 1:20,000. |
| Soils Soil Map Unit Polygons Soil Map Unit Lines Soil Map Unit Points Special Point Features Blowout | Very Stony Spot Wet Spot Other Special Line Features Water Features | 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. |
| Borrow Pit Clay Spot Closed Depression Gravel Pit Gravelly Spot Landfill | Transportation +++ Rails ~ Interstate Highways ~ US Routes ~ Major Roads ~ Local Roads | 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 |
| Lava Flow Marsh or swamp Mine or Quarry Miscellaneous Water | Background Aerial Photography | 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 |
| Perennial Water Rock Outcrop Saline Spot Sandy Spot Severely Eroded Spot | | Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 20, Sep 3, 2024 Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. |
| Sinkhole Slide or Slip Sodic Spot | | Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020 The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident |

Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|-----------------------------|---|--------------|----------------|
| BB | Berino complex, 0 to 3 percent slopes, eroded | 6.0 | 100.0% |
| Totals for Area of Interest | | 6.0 | 100.0% |

Map Unit Descriptions

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

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

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

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

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

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

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

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

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

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

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

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

Eddy Area, New Mexico

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

Map Unit Setting

National map unit symbol: 1w43 Elevation: 2,000 to 5,700 feet Mean annual precipitation: 5 to 15 inches Mean annual air temperature: 57 to 70 degrees F Frost-free period: 180 to 260 days Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 60 percent Pajarito and similar soils: 25 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino

Setting

Landform: Plains, fan piedmonts Landform position (three-dimensional): Riser Down-slope shape: Convex Across-slope shape: Linear Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand H2 - 17 to 58 inches: sandy clay loam H3 - 58 to 60 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e Hydrologic Soil Group: B Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

Description of Pajarito

Setting

Landform: Dunes, plains, interdunes Landform position (three-dimensional): Side slope Down-slope shape: Convex, linear Across-slope shape: Convex, linear Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 9 inches: loamy fine sand *H2 - 9 to 72 inches:* fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 7e Hydrologic Soil Group: A Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

Minor Components

Pajarito

Percent of map unit: 4 percent Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

Wink

Percent of map unit: 4 percent Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

Cacique

Percent of map unit: 4 percent Ecological site: R070BD004NM - Sandy Hydric soil rating: No

Kermit

Percent of map unit: 3 percent Ecological site: R070BD005NM - Deep Sand Hydric soil rating: No

•

References

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

National Research Council. 1995. Wetlands: Characteristics and boundaries.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. http://www.nrcs.usda.gov/wps/portal/ nrcs/detail/national/soils/?cid=nrcs142p2_054262

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053577

Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 053580

Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.

United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.

United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/ home/?cid=nrcs142p2 053374

United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. http://www.nrcs.usda.gov/wps/portal/nrcs/ detail/national/landuse/rangepasture/?cid=stelprdb1043084

Custom Soil Resource Report

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/ nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/? cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf

APPENDIX D: Daily Field and Sampling Report(s)


| Client: Site Location Name: | XTO Energy Inc. (US) PLU 23 DTD CVB | API #: | |
|--------------------------------|--|------------------|--|
| Inspection Date: | 5/12/2025 | | |
| | | Summary of Times | |
| Arrived at Site | 5/12/2025 11:00 AM | | |
| Departed Site | 5/12/2025 3:45 PM | | |



VERTEX

Field Notes

- 15:21 Arrived on site and completed saftey paperwork
- 15:21 Received authorization before beginning on site
- **15:22** Completed background research in the location to properly identify the current release
- 15:22 Identified the current release on the correct location and characterized the extent
- 15:23 Kicked up the materiel and identified a hard layer about 3 inches deep coinciding with less saturated soil
- 15:24 Release began near V-80303 and spread southwest
- 15:24 4 stakes were set for an 811

Next Steps & Recommendations





Site Photos Viewing Direction: South Viewing Direction: South Release flowed in between V-80303 and V-Release at the origin 710301 Viewing Direction: Southwest Viewing Direction: Northeast Looking over the equipment at the southwest Looking at the release area from the southwest area of the release most corner

Run on 5/13/2025 2:16 PM UTC



Page 76 of 158





Daily Site Visit Signature

| Inspector: Katrina Taylor | A/q |
|---------------------------|-----------|
| Signature: | Signature |



| Client: | XTO Energy Inc. (US) | Incident ID #: | |
|---------------------|----------------------|------------------|--|
| Site Location Name: | PLU 23 DTD CVB | API #: | |
| Inspection Date: | 5/19/2025 | | |
| | | Summary of Times | |
| Arrived at Site | 5/19/2025 9:15 AM | | |
| Departed Site | 5/19/2025 2:58 PM | | |



VERTEX

Page 79 of 158

Field Notes

10:01 Completed saftey paperwork upon arrival and received work authorization

10:01 Laid out points on field maps

10:01 Began with 4 cardinal directions

10:06 A secondary sweep was completed in the location of each borehole before bore-holing

Next Steps & Recommendations

1



Site Photos Viewing Direction: South Viewing Direction: West was hit at 1ft. BH25-01 to 2' as the northern cardinal BH25-02 down to 1ft. Refusal was hit at 1ft. At the eastern extent of the visible release borehole Viewing Direction: North BH25-03 to 1'. Refusal was hit at 1'. This borehole is the southern extent

Run on 5/19/2025 10:01 PM UTC



Daily Site Visit Signature

Inspector: Katrina Taylor Signature:



| Client: | XTO Energy Inc. (US) | Incident ID #: | | |
|---------------------|----------------------|----------------|------|--|
| Site Location Name: | PLU 23 DTD CVB | API #: | | |
| Inspection Date: | 5/20/2025 | _ | | |
| | | Summary of T | imes | |
| Arrived at Site | 5/20/2025 9:29 AM | | | |
| Departed Site | 5/20/2025 2:55 PM | | | |
| | | Field Note | S | |

10:30 Completed saftey paperwork and received work authorization upon arrival

10:30 Continued with horizontal boreholes

14:02 Each borehole had a secondary sweep done on it before beginning

Next Steps & Recommendations

1





Site Photos Viewing Direction: East Viewing Direction: South SS25-01, a surface sample just inside the BH25-04 to two feet. Western most borehole. Hit refusal at 2ft release area from BH25-01 Viewing Direction: West Viewing Direction: North SS25-02, a surface sample just inside the SS25-03, a surface sample just inside the release area from BH25-02 release area from BH25-03

Run on 5/20/2025 10:46 PM UTC





SS25-04, a surface sample just inside the release area from BH25-04



BH25-05 to 1'. Hit refusal at 1'. A horizontal delineation borehole to the north of the southern section of the release



SS25-05 just inside the release area from of BH25-05



Daily Site Visit Signature

Inspector: Katrina Taylor

Signature:



| | incluent ID #: | | |
|-------------|--|--|--|
| DTD CVB | API #: | | |
|)25 | | | |
| | Summary of Ti | mes | |
| 025 9:28 AM | | | |
| 025 1:45 PM | | | |
| | DTD CVB 025 025 9:28 AM 025 1:45 PM | DTD CVB API #: 025 Summary of Ti 025 9:28 AM 025 1:45 PM | DTD CVB API #: 025 Summary of Times 025 9:28 AM 25 1:45 PM |

Field Notes

9:38 Completed safety paperwork and received work authorization before beginning

13:39 Collected one horizontal and two verticals

13:42 All boreholes were covered before leaving site. A secondary sweep was conducted at each borehole

Next Steps & Recommendations

1



Site Photos Viewing Direction: West Viewing Direction: North 1, Åö. Hit refusal at 1, Åö. Hortz 5 10:26:49 AM ing:-103,854511 BH25-06 to 1'. Hit refusal at 1'. Horizontal BH25-07 to .5'. This sample is a vertical in the southwest area of the release Viewing Direction: South Viewing Direction: East BH25-08 to .5'. This sample is a vertical in the SS25-06 step into the release area from BS25northeastern area of the release 06

Run on 5/22/2025 2:01 PM UTC



Daily Site Visit Signature

Inspector: Katrina Taylor

Signature:





| Client: | XTO Energy Inc. (US) | Incident ID #: | |
|---------------------|-----------------------|------------------|--|
| Site Location Name: | Hat Mesa 31 State 002 | API #: | |
| Inspection Date: | 6/5/2025 | | |
| | | Summary of Times | |
| Arrived at Site | 6/5/2025 9:00 AM | | |
| Departed Site | 6/5/2025 4:00 PM | | |



VERTEX

Field Notes

10:19 811 flags were staked and gps coordinates collected

10:24 NW: 32.535225, -103.696513 NE: 32.535255, - 103.695766 SW:32.534825, -103. 696528

SE: 32.534832, -103.695714

10:24 Drilling rig was repaired and drilling continued

15:12 105' depth was reached/ measurements were taken to prove well depth

Next Steps & Recommendations

1 Detect for ground water after 72hr wait period

2 Plug well





Site Photos





| Viewing Direction: North | Viewing Direction: North |
|--|--|
| With the second se | |
| Bore depth 109 and 6/10 with casing above | Length of casing above surface |
| ground | 3' and 8/10th |
| Viewing Direction: West | Viewing Direction: North |
| | Descriptive Proto - 1 Service Control of Proto - 1 Service Contr |
| Total well depth 105.8' | Lithology |





Borehole secured



Daily Site Visit Signature

Inspector: Riley Arnold

Signature:

Run on 6/5/2025 10:25 PM UTC



| Client: | XTO Energy Inc. (US) | Incident ID #: | | |
|---------------------|----------------------|----------------|-----|--|
| Site Location Name: | PLU 23 DTD CVB | API #: | | |
| Inspection Date: | 6/10/2025 | _ | | |
| | | Summary of Ti | mes | |
| Arrived at Site | 6/10/2025 9:35 AM | | | |
| Departed Site | 6/10/2025 10:42 AM | | | |
| | | Field Notes | | |

9:36 Completed safety paperwork and received work authorization upon arrival

9:36 Marked the site out in white and with flagging for the areas that need to be excavated

10:42 Checked that that stakes for the 811 are still in place and that the coordinates are correct

Next Steps & Recommendations

1



Site Photos



Run on 6/10/2025 6:27 PM UTC





Area in north of release area flagged with white flags



Daily Site Visit Signature

Inspector: Katrina Taylor Signature: |V|Signature



| Client: | XTO Energy Inc. (US) | Incident ID #: | | |
|---------------------|----------------------|----------------|------|--|
| Site Location Name: | PLU 23 DTD CVB | API #: | | |
| Inspection Date: | 6/10/2025 | _ | | |
| | | Summary of T | imes | |
| Arrived at Site | 6/10/2025 9:35 AM | | | |
| Departed Site | 6/10/2025 10:42 AM | | | |
| | | Field Note | c | |

9:36 Completed safety paperwork and received work authorization upon arrival

9:36 Marked the site out in white and with flagging for the areas that need to be excavated

10:42 Checked that that stakes for the 811 are still in place and that the coordinates are correct

Next Steps & Recommendations

1



Site Photos Viewing Direction: North Viewing Direction: East Area flagged with whit flags Area flagged with white flags Viewing Direction: Southeast Viewing Direction: Southwest Area flagged with white flags Area in north of release area flagged with white flags





Area in north of release area flagged with white flags



Daily Site Visit Signature

Inspector: Katrina Taylor Signature: Signature



| Client: | XTO Energy Inc. (US) | Incident ID #: | |
|---------------------|----------------------|----------------|------|
| Site Location Name: | PLU 23 DTD CVB | API #: | |
| Inspection Date: | 6/12/2025 | _ | |
| | | Summary of T | imes |
| Arrived at Site | 6/12/2025 9:00 AM | | |
| Departed Site | 6/12/2025 3:57 PM | | |

Field Notes

10:18 Completed safety paperwork, had a safety meeting, and received work authorization before arrival

10:18 Crew continued hand digging the release area

10:19 Field screened the area hand dug the day prior to determine if adequate remediation has commenced

15:38 Samples were field screened in the same locations that confirmation samples intend to be taken to confirm the grids are clean

15:38 Area was fully excavated and all sections were field screened

15:42 Areas under equipment were able to be effectively scraped due to the equipment being raised and the release being shallow. Therefore deferral will not be needed

Next Steps & Recommendations

1



Site Photos Viewing Direction: Southwest Viewing Direction: Southwest BS25-07 at .25'. BS25-08 at .25'. Viewing Direction: South Viewing Direction: South BS25-09 at .25'. WS25-03 0-2.5. Around base samples 7-9

Run on 6/13/2025 1:48 PM UTC



Page 105 of 158













Daily Site Visit Signature

Inspector: Katrina Taylor Signature: 7



| Client: | XTO Energy Inc. (US) | Incident ID #: | |
|---------------------|----------------------|----------------|------|
| Site Location Name: | PLU 23 DTD CVB | API #: | |
| Inspection Date: | 6/13/2025 | | |
| | | Summary of T | imes |
| Arrived at Site | 6/13/2025 11:30 AM | | |
| Departed Site | 6/13/2025 2:03 PM | | |

Field Notes

- 13:41 Completed saftey paperwork and received work authorization upon arrival
- 13:41 Collected base samples 1-13 and wall sample 1
- 13:42 Due to the shallow excavation, the square-footage of wall is <200sq ft, therefore only one wall sample is needed
- 13:43 BS25-06 was taken underneath the scraped equipment, demonstrating the scrape was effective and no deferral is needed
- **13:44** Full photographs of the final remediation excavation are included
- **15:34** Dropped samples off directly at cardinal

Next Steps & Recommendations

1
Daily Site Visit Report



Site Photos Viewing Direction: East Viewing Direction: East BS25-06 taken underneath the equipment Base Samples 1-5 Viewing Direction: Southwest Viewing Direction: South th and west of the release point a BS25-07 taken west of the release separator BS25-08 taken north and west of the release point separator

Daily Site Visit Report





Southern excavation scrape

Run on 6/13/2025 11:20 PM UTC

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Katrina Taylor Signature: Signature

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APPENDIX E: Laboratory Data Report(s) and Chain of Custody Form(s)



May 29, 2025

CHAD HENSLEY VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: PLU 23 DTD CVB

Enclosed are the results of analyses for samples received by the laboratory on 05/22/25 14:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



| | | VERTEX RES CHAD HENS | SOURCE SLEY | | |
|-------------------|----------------|-------------------------|----------------|---------------------|------------------|
| | | CARLSBAD | NM, 88220 | | |
| | | Fax To: | NA | | |
| Received: | 05/22/2025 | | | Sampling Date: | 05/19/2025 |
| Reported: | 05/29/2025 | | | Sampling Type: | Soil |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | Cool & Intact |
| Project Number: | 25A - 02616 | | | Sample Received By: | Shalyn Rodriguez |
| Project Location: | EXXON MOBIL | | | | |

Sample ID: BH25 - 01 @ 0' (H253081-01)

| BTEX 8021B | mg/ | ′kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.03 | 101 | 2.00 | 1.89 | |
| Toluene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.14 | 107 | 2.00 | 2.49 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.11 | 106 | 2.00 | 2.11 | |
| Total Xylenes* | <0.150 | 0.150 | 05/23/2025 | ND | 6.47 | 108 | 6.00 | 2.22 | |
| Total BTEX | <0.300 | 0.300 | 05/23/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 114 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 05/27/2025 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg/ | ′kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/23/2025 | ND | 213 | 107 | 200 | 1.79 | |
| DRO >C10-C28* | 74.4 | 10.0 | 05/23/2025 | ND | 198 | 99.2 | 200 | 0.0192 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/23/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 104 9 | % 44.4-14 | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 106 9 | 40.6-15 | 3 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | VERTEX R CHAD HEN | ESOURCE NSLEY | | | | | | |
|-------------------|----------------|----------------------|-------------------|---------------------|------------------|--|--|--|--|
| | | CARLSBAD | CARLSBAD NM 88220 | | | | | | |
| | | Fax To: | NA | | | | | | |
| Received: | 05/22/2025 | | | Sampling Date: | 05/19/2025 | | | | |
| Reported: | 05/29/2025 | | | Sampling Type: | Soil | | | | |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | Cool & Intact | | | | |
| Project Number: | 25A - 02616 | | | Sample Received By: | Shalyn Rodriguez | | | | |
| Project Location: | EXXON MOBIL | | | | | | | | |

Sample ID: BH25 - 01 @ 2' (H253081-02)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.03 | 101 | 2.00 | 1.89 | |
| Toluene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.14 | 107 | 2.00 | 2.49 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.11 | 106 | 2.00 | 2.11 | |
| Total Xylenes* | <0.150 | 0.150 | 05/23/2025 | ND | 6.47 | 108 | 6.00 | 2.22 | |
| Total BTEX | <0.300 | 0.300 | 05/23/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 113 % | 6 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 05/27/2025 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/23/2025 | ND | 213 | 107 | 200 | 1.79 | |
| DRO >C10-C28* | 46.5 | 10.0 | 05/23/2025 | ND | 198 | 99.2 | 200 | 0.0192 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/23/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 105 % | 6 44.4-14 | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 107 % | 6 40.6-15 | 3 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | VERTEX R CHAD HEN 3101 BOY | esource NSLEY D DRIVE | | | | | | |
|-------------------|----------------|----------------------------------|-----------------------------|---------------------|------------------|--|--|--|--|
| | | CARLSBAD | CARLSBAD NM, 88220 | | | | | | |
| | | Fax To: | NA | | | | | | |
| Received: | 05/22/2025 | | | Sampling Date: | 05/19/2025 | | | | |
| Reported: | 05/29/2025 | | | Sampling Type: | Soil | | | | |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | Cool & Intact | | | | |
| Project Number: | 25A - 02616 | | | Sample Received By: | Shalyn Rodriguez | | | | |
| Project Location: | EXXON MOBIL | | | | | | | | |

Sample ID: BH25 - 02 @ 0' (H253081-03)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.03 | 101 | 2.00 | 1.89 | |
| Toluene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.14 | 107 | 2.00 | 2.49 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.11 | 106 | 2.00 | 2.11 | |
| Total Xylenes* | <0.150 | 0.150 | 05/23/2025 | ND | 6.47 | 108 | 6.00 | 2.22 | |
| Total BTEX | <0.300 | 0.300 | 05/23/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 112 % | 6 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 05/27/2025 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/23/2025 | ND | 213 | 107 | 200 | 1.79 | |
| DRO >C10-C28* | 31.0 | 10.0 | 05/23/2025 | ND | 198 | 99.2 | 200 | 0.0192 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/23/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 102 % | 6 44.4-14 | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 102 % | 6 40.6-15 | 3 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | VERTEX R CHAD HEN | ESOURCE NSLEY | | | | | | |
|-------------------|----------------|----------------------|--------------------|---------------------|------------------|--|--|--|--|
| | | 3101 BOY | D DRIVE | | | | | | |
| | | CARLSBAD | CARLSBAD NM, 88220 | | | | | | |
| | | Fax To: | NA | | | | | | |
| Received: | 05/22/2025 | | | Sampling Date: | 05/19/2025 | | | | |
| Reported: | 05/29/2025 | | | Sampling Type: | Soil | | | | |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | Cool & Intact | | | | |
| Project Number: | 25A - 02616 | | | Sample Received By: | Shalyn Rodriguez | | | | |
| Project Location: | EXXON MOBIL | | | | | | | | |

Sample ID: BH25 - 02 @ 1' (H253081-04)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.03 | 101 | 2.00 | 1.89 | |
| Toluene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.14 | 107 | 2.00 | 2.49 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.11 | 106 | 2.00 | 2.11 | |
| Total Xylenes* | <0.150 | 0.150 | 05/23/2025 | ND | 6.47 | 108 | 6.00 | 2.22 | |
| Total BTEX | <0.300 | 0.300 | 05/23/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 111 % | 6 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 05/27/2025 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/23/2025 | ND | 213 | 107 | 200 | 1.79 | |
| DRO >C10-C28* | 19.4 | 10.0 | 05/23/2025 | ND | 198 | 99.2 | 200 | 0.0192 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/23/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 85.0 % | % 44.4-14 | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 85.9 % | 40.6-15 | 3 | | | | | | |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | VERTEX R CHAD HEN 3101 BOY | esource NSLEY D DRIVE | | | | | | |
|-------------------|----------------|----------------------------------|-----------------------------|---------------------|------------------|--|--|--|--|
| | | CARLSBAD | CARLSBAD NM, 88220 | | | | | | |
| | | Fax To: | NA | | | | | | |
| Received: | 05/22/2025 | | | Sampling Date: | 05/19/2025 | | | | |
| Reported: | 05/29/2025 | | | Sampling Type: | Soil | | | | |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | Cool & Intact | | | | |
| Project Number: | 25A - 02616 | | | Sample Received By: | Shalyn Rodriguez | | | | |
| Project Location: | EXXON MOBIL | | | | | | | | |

Sample ID: BH25 - 03 @ 0' (H253081-05)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.03 | 101 | 2.00 | 1.89 | |
| Toluene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.14 | 107 | 2.00 | 2.49 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.11 | 106 | 2.00 | 2.11 | |
| Total Xylenes* | <0.150 | 0.150 | 05/23/2025 | ND | 6.47 | 108 | 6.00 | 2.22 | |
| Total BTEX | <0.300 | 0.300 | 05/23/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 113 % | 6 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 05/27/2025 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/23/2025 | ND | 213 | 107 | 200 | 1.79 | |
| DRO >C10-C28* | 12.7 | 10.0 | 05/23/2025 | ND | 198 | 99.2 | 200 | 0.0192 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/23/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 97.3 % | % 44.4-14 | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 97.8 % | 40.6-15 | 3 | | | | | | |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | VERTEX R CHAD HEN | ESOURCE NSLEY | | | | | | |
|-------------------|----------------|----------------------|-------------------|---------------------|------------------|--|--|--|--|
| | | CARLSBAD | CARLSBAD NM 88220 | | | | | | |
| | | Fax To: | NA | | | | | | |
| Received: | 05/22/2025 | | | Sampling Date: | 05/19/2025 | | | | |
| Reported: | 05/29/2025 | | | Sampling Type: | Soil | | | | |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | Cool & Intact | | | | |
| Project Number: | 25A - 02616 | | | Sample Received By: | Shalyn Rodriguez | | | | |
| Project Location: | EXXON MOBIL | | | | | | | | |

Sample ID: BH25 - 03 @ 1' (H253081-06)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|--------------------|-----------------|--------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 105 | 2.00 | 4.42 | |
| Toluene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 104 | 2.00 | 3.82 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.11 | 106 | 2.00 | 4.86 | |
| Total Xylenes* | <0.150 | 0.150 | 05/23/2025 | ND | 6.60 | 110 | 6.00 | 4.38 | |
| Total BTEX | <0.300 | 0.300 | 05/23/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 105 % | 6 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | mg/kg Analyzed By: | | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 512 | 16.0 | 05/27/2025 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg/ | kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/23/2025 | ND | 213 | 107 | 200 | 1.79 | |
| DRO >C10-C28* | 38.0 | 10.0 | 05/23/2025 | ND | 198 | 99.2 | 200 | 0.0192 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/23/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 91.9 9 | % 44.4-14 | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 93.1 9 | 40.6-15 | 3 | | | | | | |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | VERTEX R CHAD HEN 3101 BOY | esource NSLEY D DRIVE | | |
|-------------------|----------------|----------------------------------|-----------------------------|---------------------|------------------|
| | | CARLSBAD | D NM, 88220 | | |
| | | Fax To: | NA | | |
| Received: | 05/22/2025 | | | Sampling Date: | 05/20/2025 |
| Reported: | 05/29/2025 | | | Sampling Type: | Soil |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | Cool & Intact |
| Project Number: | 25A - 02616 | | | Sample Received By: | Shalyn Rodriguez |
| Project Location: | EXXON MOBIL | | | | _ |

Sample ID: BH25 - 04 @ 0' (H253081-07)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------------|------------|--------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 105 | 2.00 | 4.42 | |
| Toluene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 104 | 2.00 | 3.82 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.11 | 106 | 2.00 | 4.86 | |
| Total Xylenes* | <0.150 | 0.150 | 05/23/2025 | ND | 6.60 | 110 | 6.00 | 4.38 | |
| Total BTEX | <0.300 | 0.300 | 05/23/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 114 % | 6 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | mg/kg Analyzed By: AC | | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 05/27/2025 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/23/2025 | ND | 213 | 107 | 200 | 1.79 | |
| DRO >C10-C28* | 11.7 | 10.0 | 05/23/2025 | ND | 198 | 99.2 | 200 | 0.0192 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/23/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 102 % | 6 44.4-14 | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 103 % | 6 40.6-15 | 3 | | | | | | |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | VERTEX R | ESOURCE | | |
|-------------------|----------------|----------|-------------|---------------------|------------------|
| | | CHAD HEN | NSLEY | | |
| | | 3101 BOY | D DRIVE | | |
| | | CARLSBAD | D NM, 88220 | | |
| | | Fax To: | NA | | |
| Received: | 05/22/2025 | | | Sampling Date: | 05/20/2025 |
| Reported: | 05/29/2025 | | | Sampling Type: | Soil |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | Cool & Intact |
| Project Number: | 25A - 02616 | | | Sample Received By: | Shalyn Rodriguez |
| Project Location: | EXXON MOBIL | | | | |

Sample ID: BH25 - 04 @ 2' (H253081-08)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|----------------------|------------|--------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 105 | 2.00 | 4.42 | |
| Toluene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 104 | 2.00 | 3.82 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.11 | 106 | 2.00 | 4.86 | |
| Total Xylenes* | <0.150 | 0.150 | 05/23/2025 | ND | 6.60 | 110 | 6.00 | 4.38 | |
| Total BTEX | <0.300 | 0.300 | 05/23/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 119 % | 6 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | mg/kg Analyzed By: A | | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 05/27/2025 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/23/2025 | ND | 213 | 107 | 200 | 1.79 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/23/2025 | ND | 198 | 99.2 | 200 | 0.0192 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/23/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 113 % | 6 44.4-14 | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 115 % | 6 40.6-15 | 3 | | | | | | |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | VERTEX R CHAD HEN 3101 BOY | esource NSLEY D DRIVE | | |
|-------------------|----------------|----------------------------------|-----------------------------|---------------------|------------------|
| | | CARLSBAD | D NM, 88220 | | |
| | | Fax To: | NA | | |
| Received: | 05/22/2025 | | | Sampling Date: | 05/20/2025 |
| Reported: | 05/29/2025 | | | Sampling Type: | Soil |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | Cool & Intact |
| Project Number: | 25A - 02616 | | | Sample Received By: | Shalyn Rodriguez |
| Project Location: | EXXON MOBIL | | | | _ |

Sample ID: BH25 - 05 @ 0' (H253081-09)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------------|------------|--------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 105 | 2.00 | 4.42 | |
| Toluene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 104 | 2.00 | 3.82 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.11 | 106 | 2.00 | 4.86 | |
| Total Xylenes* | <0.150 | 0.150 | 05/23/2025 | ND | 6.60 | 110 | 6.00 | 4.38 | |
| Total BTEX | <0.300 | 0.300 | 05/23/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 117 % | 6 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | mg/kg Analyzed By: AC | | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 05/27/2025 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/23/2025 | ND | 213 | 107 | 200 | 1.79 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/23/2025 | ND | 198 | 99.2 | 200 | 0.0192 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/23/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 112 % | 6 44.4-14 | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 113 % | 6 40.6-15 | 3 | | | | | | |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | VERTEX R CHAD HEN 3101 BOY CARLSBAL | esource NSLEY D DRIVE D NM, 88220 | | |
|-------------------|----------------|--|--|---------------------|------------------|
| | | Fax To: | NA | | |
| Received: | 05/22/2025 | | | Sampling Date: | 05/20/2025 |
| Reported: | 05/29/2025 | | | Sampling Type: | Soil |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | Cool & Intact |
| Project Number: | 25A - 02616 | | | Sample Received By: | Shalyn Rodriguez |
| Project Location: | EXXON MOBIL | | | | . – |

Sample ID: BH25 - 05 @ 1' (H253081-10)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|----------------------|------------|--------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 105 | 2.00 | 4.42 | |
| Toluene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 104 | 2.00 | 3.82 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.11 | 106 | 2.00 | 4.86 | |
| Total Xylenes* | <0.150 | 0.150 | 05/23/2025 | ND | 6.60 | 110 | 6.00 | 4.38 | |
| Total BTEX | <0.300 | 0.300 | 05/23/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 115 % | 6 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | mg/kg Analyzed By: A | | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 05/27/2025 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/23/2025 | ND | 213 | 107 | 200 | 1.79 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/23/2025 | ND | 198 | 99.2 | 200 | 0.0192 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/23/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 114 % | 6 44.4-14 | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 116 % | 6 40.6-15 | 3 | | | | | | |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | VERTEX R CHAD HEN 3101 BOY CARLSBAL | esource NSLEY D Drive D NM, 88220 | | |
|-------------------|----------------|--|--|---------------------|------------------|
| | | Fax To: | NA | | |
| Received: | 05/22/2025 | | | Sampling Date: | 05/20/2025 |
| Reported: | 05/29/2025 | | | Sampling Type: | Soil |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | Cool & Intact |
| Project Number: | 25A - 02616 | | | Sample Received By: | Shalyn Rodriguez |
| Project Location: | EXXON MOBIL | | | | |

Sample ID: SS 25 - 01 (H253081-11)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------------|-----------------|--------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 105 | 2.00 | 4.42 | |
| Toluene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 104 | 2.00 | 3.82 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.11 | 106 | 2.00 | 4.86 | |
| Total Xylenes* | <0.150 | 0.150 | 05/23/2025 | ND | 6.60 | 110 | 6.00 | 4.38 | |
| Total BTEX | <0.300 | 0.300 | 05/23/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 % | 6 71.5-13- | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | mg/kg Analyzed By: AC | | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 21600 | 16.0 | 05/27/2025 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg/ | kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/23/2025 | ND | 213 | 107 | 200 | 1.79 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/23/2025 | ND | 198 | 99.2 | 200 | 0.0192 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/23/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 111 % | 6 44.4-14. | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 113 % | 6 40.6-15. | 3 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | VERTEX R CHAD HEN 3101 BOY | esource NSLEY D DRIVE | | |
|-------------------|----------------|----------------------------------|-----------------------------|---------------------|------------------|
| | | CARLSBAD | D NM, 88220 | | |
| | | Fax To: | NA | | |
| Received: | 05/22/2025 | | | Sampling Date: | 05/20/2025 |
| Reported: | 05/29/2025 | | | Sampling Type: | Soil |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | Cool & Intact |
| Project Number: | 25A - 02616 | | | Sample Received By: | Shalyn Rodriguez |
| Project Location: | EXXON MOBIL | | | | _ |

Sample ID: SS 25 - 02 (H253081-12)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------------|-----------------|--------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 105 | 2.00 | 4.42 | |
| Toluene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 104 | 2.00 | 3.82 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.11 | 106 | 2.00 | 4.86 | |
| Total Xylenes* | <0.150 | 0.150 | 05/23/2025 | ND | 6.60 | 110 | 6.00 | 4.38 | |
| Total BTEX | <0.300 | 0.300 | 05/23/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 107 9 | 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | mg/kg Analyzed By: AC | | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 23600 | 16.0 | 05/27/2025 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg/ | kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/23/2025 | ND | 213 | 107 | 200 | 1.79 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/23/2025 | ND | 198 | 99.2 | 200 | 0.0192 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/23/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 105 9 | % 44.4-14. | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 104 9 | 40.6-15. | 3 | | | | | | |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | VERTEX R CHAD HEN 3101 BOY | ESOURCE NSLEY D DRIVE | | |
|-------------------|----------------|----------------------------------|-----------------------------|---------------------|------------------|
| | | CARLSBAD | D NM, 88220 | | |
| | | Fax To: | NA | | |
| Received: | 05/22/2025 | | | Sampling Date: | 05/20/2025 |
| Reported: | 05/29/2025 | | | Sampling Type: | Soil |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | Cool & Intact |
| Project Number: | 25A - 02616 | | | Sample Received By: | Shalyn Rodriguez |
| Project Location: | EXXON MOBIL | | | | |

Sample ID: SS 25 - 03 (H253081-13)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 105 | 2.00 | 4.42 | |
| Toluene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 104 | 2.00 | 3.82 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.11 | 106 | 2.00 | 4.86 | |
| Total Xylenes* | <0.150 | 0.150 | 05/23/2025 | ND | 6.60 | 110 | 6.00 | 4.38 | |
| Total BTEX | <0.300 | 0.300 | 05/23/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 % | 6 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | mg/kg Analyzed | | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 15800 | 16.0 | 05/27/2025 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg/ | kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/23/2025 | ND | 213 | 107 | 200 | 1.79 | |
| DRO >C10-C28* | 70.7 | 10.0 | 05/23/2025 | ND | 198 | 99.2 | 200 | 0.0192 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/23/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 106 % | 6 44.4-14 | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 109 % | 6 40.6-15 | 3 | | | | | | |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | VERTEX R CHAD HEN 3101 BOY | esource NSLEY D DRIVE | | |
|-------------------|----------------|----------------------------------|-----------------------------|---------------------|------------------|
| | | CARLSBAD | D NM, 88220 | | |
| | | Fax To: | NA | | |
| Received: | 05/22/2025 | | | Sampling Date: | 05/20/2025 |
| Reported: | 05/29/2025 | | | Sampling Type: | Soil |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | Cool & Intact |
| Project Number: | 25A - 02616 | | | Sample Received By: | Shalyn Rodriguez |
| Project Location: | EXXON MOBIL | | | | _ |

Sample ID: SS 25 - 04 (H253081-14)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|----------------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 105 | 2.00 | 4.42 | |
| Toluene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 104 | 2.00 | 3.82 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.11 | 106 | 2.00 | 4.86 | |
| Total Xylenes* | <0.150 | 0.150 | 05/23/2025 | ND | 6.60 | 110 | 6.00 | 4.38 | |
| Total BTEX | <0.300 | 0.300 | 05/23/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 108 9 | 108 % 71.5-134 | | | | | | | |
| Chloride, SM4500Cl-B | mg/ | mg/kg Analyzed By: A | | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 22800 | 16.0 | 05/27/2025 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg/ | kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/23/2025 | ND | 182 | 90.8 | 200 | 1.65 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/23/2025 | ND | 175 | 87.5 | 200 | 2.85 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/23/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 101 9 | % 44.4-14. | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 108 9 | 40.6-15. | 3 | | | | | | |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | VERTEX R | ESOURCE | | |
|-------------------|----------------|----------|-------------|---------------------|------------------|
| | | CHAD HEN | NSLEY | | |
| | | 3101 BOY | D DRIVE | | |
| | | CARLSBAD | D NM, 88220 | | |
| | | Fax To: | NA | | |
| Received: | 05/22/2025 | | | Sampling Date: | 05/20/2025 |
| Reported: | 05/29/2025 | | | Sampling Type: | Soil |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | Cool & Intact |
| Project Number: | 25A - 02616 | | | Sample Received By: | Shalyn Rodriguez |
| Project Location: | EXXON MOBIL | | | | |

Sample ID: SS 25 - 05 (H253081-15)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 105 | 2.00 | 4.42 | |
| Toluene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 104 | 2.00 | 3.82 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.11 | 106 | 2.00 | 4.86 | |
| Total Xylenes* | <0.150 | 0.150 | 05/23/2025 | ND | 6.60 | 110 | 6.00 | 4.38 | |
| Total BTEX | <0.300 | 0.300 | 05/23/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 107 9 | 107 % 71.5-134 | | | | | | | |
| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 56800 | 16.0 | 05/27/2025 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/23/2025 | ND | 182 | 90.8 | 200 | 1.65 | |
| DRO >C10-C28* | 10.3 | 10.0 | 05/23/2025 | ND | 175 | 87.5 | 200 | 2.85 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/23/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 95.3 9 | % 44.4-14 | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 101 % | 40.6-15 | 3 | | | | | | |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | VERTEX R | ESOURCE | | |
|-------------------|----------------|----------|-------------|---------------------|------------------|
| | | CHAD HEN | ISLEY | | |
| | | 3101 BOY | D DRIVE | | |
| | | CARLSBAD | D NM, 88220 | | |
| | | Fax To: | NA | | |
| Received: | 05/22/2025 | | | Sampling Date: | 05/21/2025 |
| Reported: | 05/29/2025 | | | Sampling Type: | Soil |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | Cool & Intact |
| Project Number: | 25A - 02616 | | | Sample Received By: | Shalyn Rodriguez |
| Project Location: | EXXON MOBIL | | | | |

Sample ID: BH25 - 06 @ 0' (H253081-16)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 105 | 2.00 | 4.42 | |
| Toluene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 104 | 2.00 | 3.82 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.11 | 106 | 2.00 | 4.86 | |
| Total Xylenes* | <0.150 | 0.150 | 05/23/2025 | ND | 6.60 | 110 | 6.00 | 4.38 | |
| Total BTEX | <0.300 | 0.300 | 05/23/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 111 % | 6 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 05/27/2025 | ND | 432 | 108 | 400 | 3.64 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/23/2025 | ND | 182 | 90.8 | 200 | 1.65 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/23/2025 | ND | 175 | 87.5 | 200 | 2.85 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/23/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 97.4 9 | % 44.4-14 | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 101 % | 6 40.6-15 | 3 | | | | | | |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | VERTEX R CHAD HEN 3101 BOY CARLSBAL | esource NSLEY D Drive D NM, 88220 | | |
|-------------------|----------------|--|--|---------------------|------------------|
| | | Fax To: | NA | | |
| Received: | 05/22/2025 | | | Sampling Date: | 05/21/2025 |
| Reported: | 05/29/2025 | | | Sampling Type: | Soil |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | Cool & Intact |
| Project Number: | 25A - 02616 | | | Sample Received By: | Shalyn Rodriguez |
| Project Location: | EXXON MOBIL | | | | |

Sample ID: BH25 - 06 @ 1' (H253081-17)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 105 | 2.00 | 4.42 | |
| Toluene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 104 | 2.00 | 3.82 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.11 | 106 | 2.00 | 4.86 | |
| Total Xylenes* | <0.150 | 0.150 | 05/23/2025 | ND | 6.60 | 110 | 6.00 | 4.38 | |
| Total BTEX | <0.300 | 0.300 | 05/23/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 115 % | 6 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 05/27/2025 | ND | 432 | 108 | 400 | 3.64 | |
| TPH 8015M | mg/ | kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/23/2025 | ND | 182 | 90.8 | 200 | 1.65 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/23/2025 | ND | 175 | 87.5 | 200 | 2.85 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/23/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 106 % | 6 44.4-14 | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 110 % | 6 40.6-15 | 3 | | | | | | |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | VERTEX R CHAD HEN 3101 BOY | esource NSLEY D DRIVE | | |
|-------------------|----------------|----------------------------------|-----------------------------|---------------------|------------------|
| | | CARLSBAD | D NM, 88220 | | |
| | | Fax To: | NA | | |
| Received: | 05/22/2025 | | | Sampling Date: | 05/21/2025 |
| Reported: | 05/29/2025 | | | Sampling Type: | Soil |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | Cool & Intact |
| Project Number: | 25A - 02616 | | | Sample Received By: | Shalyn Rodriguez |
| Project Location: | EXXON MOBIL | | | | |

Sample ID: BH25 - 07 @ 0.25' (H253081-18)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 105 | 2.00 | 4.42 | |
| Toluene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 104 | 2.00 | 3.82 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.11 | 106 | 2.00 | 4.86 | |
| Total Xylenes* | <0.150 | 0.150 | 05/23/2025 | ND | 6.60 | 110 | 6.00 | 4.38 | |
| Total BTEX | <0.300 | 0.300 | 05/23/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 112 % | 6 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 12000 | 16.0 | 05/27/2025 | ND | 432 | 108 | 400 | 3.64 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/23/2025 | ND | 182 | 90.8 | 200 | 1.65 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/23/2025 | ND | 175 | 87.5 | 200 | 2.85 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/23/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 97.3 9 | % 44.4-14 | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 100 % | 40.6-15 | 3 | | | | | | |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | VERTEX R | ESOURCE | | |
|-------------------|----------------|----------|-------------|---------------------|------------------|
| | | CHAD HEN | ISLEY | | |
| | | 3101 BOY | D DRIVE | | |
| | | CARLSBAD | D NM, 88220 | | |
| | | Fax To: | NA | | |
| Received: | 05/22/2025 | | | Sampling Date: | 05/21/2025 |
| Reported: | 05/29/2025 | | | Sampling Type: | Soil |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | Cool & Intact |
| Project Number: | 25A - 02616 | | | Sample Received By: | Shalyn Rodriguez |
| Project Location: | EXXON MOBIL | | | | |

Sample ID: BH25 - 08 @ 0.25' (H253081-19)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 105 | 2.00 | 4.42 | |
| Toluene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 104 | 2.00 | 3.82 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.11 | 106 | 2.00 | 4.86 | |
| Total Xylenes* | <0.150 | 0.150 | 05/23/2025 | ND | 6.60 | 110 | 6.00 | 4.38 | |
| Total BTEX | <0.300 | 0.300 | 05/23/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 105 % | 6 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 10400 | 16.0 | 05/27/2025 | ND | 432 | 108 | 400 | 3.64 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/23/2025 | ND | 182 | 90.8 | 200 | 1.65 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/23/2025 | ND | 175 | 87.5 | 200 | 2.85 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/23/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 90.9 9 | % 44.4-14 | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 93.69 | 40.6-15 | 3 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | Vertex R Chad Hen | ESOURCE NSLEY | | |
|-------------------|----------------|----------------------|------------------|---------------------|------------------|
| | | 3101 BOY | D DRIVE | | |
| | | CARLSBAD | D NM, 88220 | | |
| | | Fax To: | NA | | |
| Received: | 05/22/2025 | | | Sampling Date: | 05/21/2025 |
| Reported: | 05/29/2025 | | | Sampling Type: | Soil |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | Cool & Intact |
| Project Number: | 25A - 02616 | | | Sample Received By: | Shalyn Rodriguez |
| Project Location: | EXXON MOBIL | | | | |

Sample ID: SS 25 - 06 0' (H253081-20)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 105 | 2.00 | 4.42 | |
| Toluene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.09 | 104 | 2.00 | 3.82 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/23/2025 | ND | 2.11 | 106 | 2.00 | 4.86 | |
| Total Xylenes* | <0.150 | 0.150 | 05/23/2025 | ND | 6.60 | 110 | 6.00 | 4.38 | |
| Total BTEX | <0.300 | 0.300 | 05/23/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 % | % 71.5-134 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 24800 | 16.0 | 05/27/2025 | ND | 432 | 108 | 400 | 3.64 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/23/2025 | ND | 182 | 90.8 | 200 | 1.65 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/23/2025 | ND | 175 | 87.5 | 200 | 2.85 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/23/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 106 % | % 44.4-14 | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 110 % | 40.6-153 | 3 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 23 of 25

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| QZ |
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| Froject Manager: Chad Hen slev Address: 3/01 Boyd d_r City: Cardsbad MM state: N/M.Zij Phone #: on Alk Fax #: Foroject Owner: Project Name: PLU 2.3 DTD CVR Project Location: Sampler Name: Making Info Info Sampler Name: Making Info Total Info Info For UAB USE ONLY Sample I.D. Sample I.D. Sample I.D. Lab I.D. SH2.5 - OH OI G BH2.5 - OH 2.1 Info Info S.2.5 - OS 1' Info Info Sold Syles - ol Info Info Info Sy | # CONTAINERS P: %200 3ROUNDWATER MATRIX P: VASTEWATER MATRIX Phone 3OIL DIL State: DIL PRESERV. State: City: Prone #: Pip: VGID/BASE: PRESERV. Site: CE / COOL State: Zip: DTHER : Sampling Date | GRO, DRO, MEO Chlorides BTEX |
|---|--|--|
| Project Manager Ver Hox Mounce Unr | ONP BILL TO | ANALYSIS REQUE |
| Project Manager: Chad Hen sley | P.O. #: | |
| Address: 3101 Bound dr | Company: MAN form | Ltd sta |
| city: Carlsbad KM state: N/MZin | p: RR200 Attn: Att | |
| Phone #: On CK Fax #: | Address: A Pit | |
| Project #: 25A-02616 Project Owner: | City: | 0 |
| Project Name: PLU 23 DTD CUR | State: Zip: | 1 E |
| Project Location: | Phone #: | N |
| Sampler Name: Kalman Gila | , note it. | |
| Sampler Name: Makina (14/01 | Fax #: | 20,00 |
| FOR LAB USE ONLY | MATRIX PRESERV SAMPLING | de |
| Lab I.D. Sample I.D. | NERS WATER ATER E: L | Eo, 1 nlorid Ex |
| (G)RAB C | # CONTA 3ROUNE WASTEW 301L 3LUDGE 3LUDGE THER : ACID/BAS CE / COC 3THER : | ₽ |
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| N 10-575641 | 1 1 1 <td></td> | |
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| PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim analyses. All clients including those for negligence and any other cause whatsoever shall be demond service. In no event shall Cardinal be liable for inclodential or consequential damages, including without affiliates or successors anising out of or related to the performance of services here under the Cardinal. | 1 | 00 X X X 10 X X X 10 X X X 10 X X X 10 X X |
| PLEASE NOTE: Labelity and Damages. Cardina's liability and client's exclusive tennedy for any claim analyzes. Al claims including those for negligence and any other cause whatboover shall be deemed service. In no event shall Cardinal the tegifigence and any other cause whatboover shall be deemed affiliates or successor anise out of or related to the partomance of services hereunder by Cardinal affiliates or successor anise out of or related to the partomance of services hereunder by Cardinal. Relinpartished By: S122 Ref | Solution business interruptions, loss of uses of politic investigations of the based upon any of the above stated reasons or other. | 00 X X 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 11 Yes No Add'I Phone #: |
| PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim analyses. All clients including those for negligence and any other cause whatsoever shall be downed service. In no event shall Cardinal be liable for incidential or consequential damages, including without affiliates or successors anising out of or related to the performance of services here under by Cardinal. Relingatished By: Without of an related to the performance of services here under by Cardinal. Time: State | 1 | 00 X X 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 11 1 1 12 1 1 13 1 1 14 1 1 15 1 1 10 1 1 10 1 1 14 1 1 15 1 1 16 1 1 17 1 1 18 1 1 19 1 1 10 1 1 10 |
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| PLEASE NOTE: Liability and Damages. Cardina's liability and clients acclusive remedy for any claim analyzes. Al claims including those for negligence and any other cause whatboever shall be doemed service. In no event shall Cardinal be liable for including without atflittee or successor arring out of or reliated to the performance of services, including without atflittee or successor arring out of or reliated to the performance of services, including without atflittee or successor arring out of or reliated to the performance of services, including without atflittee or successor arring out of or reliated to the performance of services, including without atflittee or successor arring out of or reliated to the performance of services. Including without atflittee or successor arring out of or reliated to the performance of services. Including without atflittee or successor arring out of or reliated to the performance of services. Including without Relinquished By: Relinquished By: Date: Time: | Stand Wetter Buside in writing and norwhed by Calent is sub- regardless of writefore such claim is based upon any of the above stated or test, shall be limited to the annount paid by the claim waved of writefore such claim is based upon any of the above stated or test. Stand Without Claim is based upon any of the above stated regardless regardless of Wetter Bay: Stand Without Claim is based upon any of the above stated regardless Stand Without Claim is based upon any of the above stated regardless Stand Without Claim is based upon any of the above stated regardless Stand Without Claim is based upon any of the above stated regardless Stand Without Claim is based upon any of the above stated regardless Stand Without Claim is based upon any of the above stated regardless Stand Without Claim is based upon any of the above stated regardless Stand Without Claim is based upon any of the above stated regardless Stand Without Claim is based upon any of the above stated regardless Stand Without Claim is based upon any of the above stated regardless Stand Without Claim is based upon any of the above stated regardless Stand Without Claim is based upon any of the above stated regardless | 00 X X 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 11 1 1 11 10 1 11 10 1 11 10 1 11 10 1 12 10 1 13 10 1 14 1 1 15 10 16 10 17 10 18 10 19 10 10 10 10 10 < |

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| Receive | ed by (| OCD: | 6/27/20 | <u>25 12:1</u> | 4:42 PM | | | | | | | |
|-----------------|-------------------|--------------------|-----------------|--|---|---------|----------|--------------------|---------|----------|------------------|--------------|
| | Sampler - UPS - B | Delivered By: (Cir | Relinquished By | afiliates or successors ansin Relinquished By | PLEASE NOTE: Liability an analyses. All claims includin | 20 | 19 | 11 | H233681 | Lab I.D. | FOR LAB USE ONLY | Sampler Name |
| 5 3 1 1010112 1 | Bus - Other: C. | rcle One) 0 | laylor | rdinal be liable for incidental or com g out of or related to the performan | d Damages. Cardinal's liability and a g those for negligence and any other | 3525-06 | BH 25-07 | 8H25-06 BH25-06 | | Sample | NO+PHD | Valama 7 |

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Project Location: Project Name:

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DATE

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City:

Address:

3101

boyd

dr

Chad Hensley

Project Manager:

Company Name:

Vertex resource Greeve (bill to Exam

(575) 393-2326 FAX (575) 393-2476

Project #:

25A-02616

Project Owner:

Fax #:

State: NM

Zip:

02288

Attn:

Colton Brown

Company: 2XXXX Madai

Address

P.O. #:

BILL TO

ANALYSIS

REQUES

PLU 23 OTD CVB

State: City:

Zip:

onfile

(TPH)

Phone #: Fax #:

Phone #:

Carlsbad on file

| Time: Time: Time: ATTN: 6/fon.S. brown & Some Condition ampler - UPS - Bus - Other: Observed Temp.*C/r/L Sample Condition CHECKED BY: Turnaround Time: Standard Bacteria (only) Sample Condition ampler - UPS - Bus - Other: Corrected Temp.*C/r/L Ool Intact Intact Intact Turnaround Time: Standard Bacteria (only) Sample Condition TORM UND RESERVED Corrected Temp.*C/r/L Intact Intact Intact UN No No </th <th>Relinquished By: Date: 5 / 22 Received By: Verbal Result Result</th> | Relinquished By: Date: 5 / 22 Received By: Verbal Result Result |
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June 19, 2025

CHAD HENSLEY VERTEX RESOURCE

VENTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: PLU 23 DTD CVB

Enclosed are the results of analyses for samples received by the laboratory on 06/13/25 15:27.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



| | | VERTEX R | ESOURCE | | | | | |
|-------------------|------------------|-----------------|-------------|---------------------|----------------|--|--|--|
| | | CHAD HEN | NSLEY | | | | | |
| | | 3101 BOYD DRIVE | | | | | | |
| | | CARLSBAD | D NM, 88220 | | | | | |
| | | Fax To: | NA | | | | | |
| Received: | 06/13/2025 | | | Sampling Date: | 06/13/2025 | | | |
| Reported: | 06/19/2025 | | | Sampling Type: | Soil | | | |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | ** (See Notes) | | | |
| Project Number: | 25A - 02616 | | | Sample Received By: | Alyssa Parras | | | |
| Project Location: | EXXON MOBIL - ED | DY CO. | | | | | | |

Sample ID: BS25 - 01 0.25' (H253545-01)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/16/2025 | ND | 2.10 | 105 | 2.00 | 3.83 | |
| Toluene* | <0.050 | 0.050 | 06/16/2025 | ND | 2.10 | 105 | 2.00 | 3.61 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/16/2025 | ND | 2.08 | 104 | 2.00 | 3.41 | |
| Total Xylenes* | <0.150 | 0.150 | 06/16/2025 | ND | 6.40 | 107 | 6.00 | 3.54 | |
| Total BTEX | <0.300 | 0.300 | 06/16/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 103 9 | % 71.5-13- | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1550 | 16.0 | 06/16/2025 | ND | 448 | 112 | 400 | 3.64 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/16/2025 | ND | 187 | 93.7 | 200 | 3.61 | |
| DRO >C10-C28* | 35.2 | 10.0 | 06/16/2025 | ND | 185 | 92.3 | 200 | 2.46 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/16/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 102 9 | % 44.4-14 | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 102 9 | 40.6-15. | 3 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | VERTEX RE | SOURCE | | | | | |
|-------------------|-------------------|--------------------|--------|---------------------|----------------|--|--|--|
| | CHAD HENSLEY | | | | | | | |
| | 3101 BOYD DRIVE | | | | | | | |
| | | CARLSBAD NM, 88220 | | | | | | |
| | | Fax To: | NA | | | | | |
| Received: | 06/13/2025 | | | Sampling Date: | 06/13/2025 | | | |
| Reported: | 06/19/2025 | | | Sampling Type: | Soil | | | |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | ** (See Notes) | | | |
| Project Number: | 25A - 02616 | | | Sample Received By: | Alyssa Parras | | | |
| Project Location: | EXXON MOBIL - EDD | Y CO. | | | | | | |

Sample ID: BS25 - 02 0.25' (H253545-02)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/16/2025 | ND | 2.10 | 105 | 2.00 | 3.83 | |
| Toluene* | <0.050 | 0.050 | 06/16/2025 | ND | 2.10 | 105 | 2.00 | 3.61 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/16/2025 | ND | 2.08 | 104 | 2.00 | 3.41 | |
| Total Xylenes* | <0.150 | 0.150 | 06/16/2025 | ND | 6.40 | 107 | 6.00 | 3.54 | |
| Total BTEX | <0.300 | 0.300 | 06/16/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 100 % | 6 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 384 | 16.0 | 06/16/2025 | ND | 448 | 112 | 400 | 3.64 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/16/2025 | ND | 187 | 93.7 | 200 | 3.61 | |
| DRO >C10-C28* | 281 | 10.0 | 06/16/2025 | ND | 185 | 92.3 | 200 | 2.46 | |
| EXT DRO >C28-C36 | 60.4 | 10.0 | 06/16/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 96.1 9 | % 44.4-14 | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 103 % | 6 40.6-15 | 3 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | VERTEX RE | SOURCE | | | | | |
|-------------------|-------------------|--------------------|--------|---------------------|----------------|--|--|--|
| | CHAD HENSLEY | | | | | | | |
| | 3101 BOYD DRIVE | | | | | | | |
| | | CARLSBAD NM, 88220 | | | | | | |
| | | Fax To: | NA | | | | | |
| Received: | 06/13/2025 | | | Sampling Date: | 06/13/2025 | | | |
| Reported: | 06/19/2025 | | | Sampling Type: | Soil | | | |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | ** (See Notes) | | | |
| Project Number: | 25A - 02616 | | | Sample Received By: | Alyssa Parras | | | |
| Project Location: | EXXON MOBIL - EDD | Y CO. | | | | | | |

Sample ID: BS25 - 03 0.25' (H253545-03)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/16/2025 | ND | 2.10 | 105 | 2.00 | 3.83 | |
| Toluene* | <0.050 | 0.050 | 06/16/2025 | ND | 2.10 | 105 | 2.00 | 3.61 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/16/2025 | ND | 2.08 | 104 | 2.00 | 3.41 | |
| Total Xylenes* | <0.150 | 0.150 | 06/16/2025 | ND | 6.40 | 107 | 6.00 | 3.54 | |
| Total BTEX | <0.300 | 0.300 | 06/16/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 103 % | 6 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1920 | 16.0 | 06/16/2025 | ND | 448 | 112 | 400 | 3.64 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/16/2025 | ND | 187 | 93.7 | 200 | 3.61 | |
| DRO >C10-C28* | 72.6 | 10.0 | 06/16/2025 | ND | 185 | 92.3 | 200 | 2.46 | |
| EXT DRO >C28-C36 | 16.3 | 10.0 | 06/16/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 92.5 9 | % 44.4-14 | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 93.9 9 | 40.6-15 | 3 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | VERTEX RE | SOURCE | | | | | |
|-------------------|-------------------|--------------------|--------|---------------------|----------------|--|--|--|
| | CHAD HENSLEY | | | | | | | |
| | 3101 BOYD DRIVE | | | | | | | |
| | | CARLSBAD NM, 88220 | | | | | | |
| | | Fax To: | NA | | | | | |
| Received: | 06/13/2025 | | | Sampling Date: | 06/13/2025 | | | |
| Reported: | 06/19/2025 | | | Sampling Type: | Soil | | | |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | ** (See Notes) | | | |
| Project Number: | 25A - 02616 | | | Sample Received By: | Alyssa Parras | | | |
| Project Location: | EXXON MOBIL - EDD | Y CO. | | | | | | |

Sample ID: BS25 - 04 0.25' (H253545-04)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/16/2025 | ND | 1.88 | 94.1 | 2.00 | 1.14 | |
| Toluene* | <0.050 | 0.050 | 06/16/2025 | ND | 1.91 | 95.3 | 2.00 | 0.999 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/16/2025 | ND | 1.85 | 92.5 | 2.00 | 0.923 | |
| Total Xylenes* | <0.150 | 0.150 | 06/16/2025 | ND | 5.76 | 96.0 | 6.00 | 0.221 | |
| Total BTEX | <0.300 | 0.300 | 06/16/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 104 % | 6 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 288 | 16.0 | 06/16/2025 | ND | 448 | 112 | 400 | 3.64 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/16/2025 | ND | 187 | 93.7 | 200 | 3.61 | |
| DRO >C10-C28* | 20.4 | 10.0 | 06/16/2025 | ND | 185 | 92.3 | 200 | 2.46 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/16/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 92.4 % | % 44.4-14 | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 93.6% | 40.6-15 | 3 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | VERTEX RE | SOURCE | | | | | |
|-------------------|-------------------|--------------------|--------|---------------------|----------------|--|--|--|
| | CHAD HENSLEY | | | | | | | |
| | 3101 BOYD DRIVE | | | | | | | |
| | | CARLSBAD NM, 88220 | | | | | | |
| | | Fax To: | NA | | | | | |
| Received: | 06/13/2025 | | | Sampling Date: | 06/13/2025 | | | |
| Reported: | 06/19/2025 | | | Sampling Type: | Soil | | | |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | ** (See Notes) | | | |
| Project Number: | 25A - 02616 | | | Sample Received By: | Alyssa Parras | | | |
| Project Location: | EXXON MOBIL - EDD | Y CO. | | | | | | |

Sample ID: BS25 - 05 0.25' (H253545-05)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/16/2025 | ND | 1.88 | 94.1 | 2.00 | 1.14 | |
| Toluene* | <0.050 | 0.050 | 06/16/2025 | ND | 1.91 | 95.3 | 2.00 | 0.999 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/16/2025 | ND | 1.85 | 92.5 | 2.00 | 0.923 | |
| Total Xylenes* | <0.150 | 0.150 | 06/16/2025 | ND | 5.76 | 96.0 | 6.00 | 0.221 | |
| Total BTEX | <0.300 | 0.300 | 06/16/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 98.1 9 | 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 5040 | 16.0 | 06/16/2025 | ND | 448 | 112 | 400 | 3.64 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/16/2025 | ND | 187 | 93.7 | 200 | 3.61 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/16/2025 | ND | 185 | 92.3 | 200 | 2.46 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/16/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 99.5 % | % 44.4-14 | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 99.2 9 | 40.6-15 | 3 | | | | | | |

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | VERTEX RE | SOURCE | | | | | |
|-------------------|-------------------|--------------------|--------|---------------------|----------------|--|--|--|
| | CHAD HENSLEY | | | | | | | |
| | 3101 BOYD DRIVE | | | | | | | |
| | | CARLSBAD NM, 88220 | | | | | | |
| | | Fax To: | NA | | | | | |
| Received: | 06/13/2025 | | | Sampling Date: | 06/13/2025 | | | |
| Reported: | 06/19/2025 | | | Sampling Type: | Soil | | | |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | ** (See Notes) | | | |
| Project Number: | 25A - 02616 | | | Sample Received By: | Alyssa Parras | | | |
| Project Location: | EXXON MOBIL - EDD | Y CO. | | | | | | |

Sample ID: BS25 - 06 0.25' (H253545-06)

| BTEX 8021B | mg/kg | | Analyzed By: JH | | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/16/2025 | ND | 1.88 | 94.1 | 2.00 | 1.14 | |
| Toluene* | <0.050 | 0.050 | 06/16/2025 | ND | 1.91 | 95.3 | 2.00 | 0.999 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/16/2025 | ND | 1.85 | 92.5 | 2.00 | 0.923 | |
| Total Xylenes* | <0.150 | 0.150 | 06/16/2025 | ND | 5.76 | 96.0 | 6.00 | 0.221 | |
| Total BTEX | <0.300 | 0.300 | 06/16/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 % | 6 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1790 | 16.0 | 06/16/2025 | ND | 448 | 112 | 400 | 3.64 | |
| TPH 8015M | mg/kg | | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/16/2025 | ND | 187 | 93.7 | 200 | 3.61 | |
| DRO >C10-C28* | 15.9 | 10.0 | 06/16/2025 | ND | 185 | 92.3 | 200 | 2.46 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/16/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 90.8 9 | % 44.4-14 | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 91.2 9 | 40.6-15 | 3 | | | | | | |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager


| | | VERTEX RE | SOURCE | | |
|-------------------|-------------------|-----------|-----------|---------------------|----------------|
| | | CHAD HENS | SLEY | | |
| | | 3101 BOYD | DRIVE | | |
| | | CARLSBAD | NM, 88220 | | |
| | | Fax To: | NA | | |
| Received: | 06/13/2025 | | | Sampling Date: | 06/13/2025 |
| Reported: | 06/19/2025 | | | Sampling Type: | Soil |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | ** (See Notes) |
| Project Number: | 25A - 02616 | | | Sample Received By: | Alyssa Parras |
| Project Location: | EXXON MOBIL - EDD | Y CO. | | | |

Sample ID: BS25 - 07 0.25' (H253545-07)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|---------------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/16/2025 | ND | 1.88 | 94.1 | 2.00 | 1.14 | |
| Toluene* | <0.050 | 0.050 | 06/16/2025 | ND | 1.91 | 95.3 | 2.00 | 0.999 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/16/2025 | ND | 1.85 | 92.5 | 2.00 | 0.923 | |
| Total Xylenes* | <0.150 | 0.150 | 06/16/2025 | ND | 5.76 | 96.0 | 6.00 | 0.221 | |
| Total BTEX | <0.300 | 0.300 | 06/16/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 % | 6 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 10700 | 16.0 | 06/16/2025 | ND | 448 | 112 | 400 | 3.64 | |
| TPH 8015M | H 8015M mg/kg | | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/16/2025 | ND | 187 | 93.7 | 200 | 3.61 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/16/2025 | ND | 185 | 92.3 | 200 | 2.46 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/16/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 85.4 % | 6 44.4-14 | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 85.4 % | 40.6-15 | 3 | | | | | | |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | VERTEX RE | SOURCE | | |
|-------------------|-------------------|-----------|-----------|---------------------|----------------|
| | | CHAD HEN | SLEY | | |
| | | 3101 BOYD | DRIVE | | |
| | | CARLSBAD | NM, 88220 | | |
| | | Fax To: | NA | | |
| Received: | 06/13/2025 | | | Sampling Date: | 06/13/2025 |
| Reported: | 06/19/2025 | | | Sampling Type: | Soil |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | ** (See Notes) |
| Project Number: | 25A - 02616 | | | Sample Received By: | Alyssa Parras |
| Project Location: | EXXON MOBIL - EDD | DY CO. | | | |

Sample ID: BS25 - 08 0.25' (H253545-08)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/16/2025 | ND | 1.88 | 94.1 | 2.00 | 1.14 | |
| Toluene* | <0.050 | 0.050 | 06/16/2025 | ND | 1.91 | 95.3 | 2.00 | 0.999 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/16/2025 | ND | 1.85 | 92.5 | 2.00 | 0.923 | |
| Total Xylenes* | <0.150 | 0.150 | 06/16/2025 | ND | 5.76 | 96.0 | 6.00 | 0.221 | |
| Total BTEX | <0.300 | 0.300 | 06/16/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 99.8 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 8640 | 16.0 | 06/16/2025 | ND | 448 | 112 | 400 | 3.64 | |
| TPH 8015M mg/kg | | kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/16/2025 | ND | 187 | 93.7 | 200 | 3.61 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/16/2025 | ND | 185 | 92.3 | 200 | 2.46 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/16/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 90.9 9 | % 44.4-14 | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 94.5 % | 40.6-15 | 3 | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager



| | | VERTEX RE | SOURCE | | |
|-------------------|-------------------|-----------|-----------|---------------------|----------------|
| | | CHAD HENS | SLEY | | |
| | | 3101 BOYD | DRIVE | | |
| | | CARLSBAD | NM, 88220 | | |
| | | Fax To: | NA | | |
| Received: | 06/13/2025 | | | Sampling Date: | 06/13/2025 |
| Reported: | 06/19/2025 | | | Sampling Type: | Soil |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | ** (See Notes) |
| Project Number: | 25A - 02616 | | | Sample Received By: | Alyssa Parras |
| Project Location: | EXXON MOBIL - EDD | Y CO. | | | |

Sample ID: BS25 - 09 0.25' (H253545-09)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|-----------------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/16/2025 | ND | 1.88 | 94.1 | 2.00 | 1.14 | |
| Toluene* | <0.050 | 0.050 | 06/16/2025 | ND | 1.91 | 95.3 | 2.00 | 0.999 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/16/2025 | ND | 1.85 | 92.5 | 2.00 | 0.923 | |
| Total Xylenes* | <0.150 | 0.150 | 06/16/2025 | ND | 5.76 | 96.0 | 6.00 | 0.221 | |
| Total BTEX | <0.300 | 0.300 | 06/16/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 112 % | 6 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 11200 | 16.0 | 06/16/2025 | ND | 448 | 112 | 400 | 3.64 | |
| TPH 8015M | FPH 8015M mg/kg | | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/16/2025 | ND | 187 | 93.7 | 200 | 3.61 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/16/2025 | ND | 185 | 92.3 | 200 | 2.46 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/16/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 95.5 % | % 44.4-14 | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 98.6% | 40.6-15 | 3 | | | | | | |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | VERTEX R CHAD HEN | ESOURCE ISLEY | | |
|-------------------|-------------------|----------------------|------------------|---------------------|----------------|
| | | | | | |
| | | | J NM, 00220 | | |
| | | Fax To: | NA | | |
| Received: | 06/13/2025 | | | Sampling Date: | 06/13/2025 |
| Reported: | 06/19/2025 | | | Sampling Type: | Soil |
| Project Name: | PLU 23 DTD CVB | | | Sampling Condition: | ** (See Notes) |
| Project Number: | 25A - 02616 | | | Sample Received By: | Alyssa Parras |
| Project Location: | EXXON MOBIL - EDI | DY CO. | | | |

Sample ID: WS25 - 01 0-0.25' (H253545-10)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/16/2025 | ND | 1.88 | 94.1 | 2.00 | 1.14 | |
| Toluene* | <0.050 | 0.050 | 06/16/2025 | ND | 1.91 | 95.3 | 2.00 | 0.999 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/16/2025 | ND | 1.85 | 92.5 | 2.00 | 0.923 | |
| Total Xylenes* | <0.150 | 0.150 | 06/16/2025 | ND | 5.76 | 96.0 | 6.00 | 0.221 | |
| Total BTEX | <0.300 | 0.300 | 06/16/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 106 % | 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 144 | 16.0 | 06/16/2025 | ND | 448 | 112 | 400 | 3.64 | |
| TPH 8015M | mg/kg | | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/16/2025 | ND | 187 | 93.7 | 200 | 3.61 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/16/2025 | ND | 185 | 92.3 | 200 | 2.46 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/16/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 92.3 9 | % 44.4-14 | 5 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 92.69 | 40.6-15 | 3 | | | | | | |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

- Released to Imaging: 7/8/2025 11:20:46 AM

General Information Phone: (505) 629-6116

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

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

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QUESTIONS

Action 479806

| QUESTIONS | | | | | |
|------------------------|---|--|--|--|--|
| Operator: | OGRID: | | | | |
| XTO ENERGY, INC | 5380 | | | | |
| 6401 Holiday Hill Road | Action Number: | | | | |
| Midland, TX 79707 | 479806 | | | | |
| | Action Type: | | | | |
| | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) | | | | |

QUESTIONS

| Prerequisites | |
|------------------|-------------------------------------|
| Incident ID (n#) | nAPP2513334879 |
| Incident Name | NAPP2513334879 PLU 23 DTD CVB @ 0 |
| Incident Type | Produced Water Release |
| Incident Status | Remediation Closure Report Received |
| | |

Location of Release Source

| Please answer all the questions in this group. | | |
|--|----------------|--|
| Site Name | PLU 23 DTD CVB | |
| Date Release Discovered | 05/12/2025 | |
| 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: Corrosion Other (Specify) Produced Water Released: 9 BBL Recovered: 0 BBL Lost: 9 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) | Leak on a waterline of the test separator |

General Information Phone: (505) 629-6116

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

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

| Page | <i>152</i> | of 158 |
|------|------------|--------|
| | | |

QUESTIONS, Page 2

Action 479806

| QUESTIONS (continued) | | |
|------------------------|---|--|
| Operator: | OGRID: | |
| XTO ENERGY, INC | 5380 | |
| 6401 Holiday Hill Road | Action Number: | |
| Midland, TX 79707 | 479806 | |
| | Action Type: | |
| | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) | |

QUESTIONS

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| | 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. | Is this a gas only submission (i.e. only significant Mcf values reported) | No, according to supplied volumes this does not appear to be a "gas only" report. | |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC No | Was this a major release as defined by Subsection A of 19.15.29.7 NMAC | No | |
| Reasons why this would be considered a submission for a notification of a major release Unavailable. | Reasons why this would be considered a submission for a notification of a major release | Unavailable. | |
| With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. 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 19.15.29.1 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: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com | |

Date: 06/27/2025

General Information Phone: (505) 629-6116

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

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

QUESTIONS (continued)

| Operator: | OGRID: |
|------------------------|---|
| XTO ENERGY, INC | 5380 |
| 6401 Holiday Hill Road | Action Number: |
| Midland, TX 79707 | 479806 |
| | 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 ½ and 1 (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 1 and 5 (mi.) | |
| Any other fresh water well or spring | Between 1 and 5 (mi.) | |
| Incorporated municipal boundaries or a defined municipal fresh water well field | Greater than 5 (mi.) | |
| A wetland | Between 1000 (ft.) and ½ (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 | Between 1000 (ft.) and ½ (mi.) | |
| Did the release impact areas not on an exploration, development, production, or storage site | No | |

Remediation Plan

| Please answer all the questions th | nat apply or are indicated. This information must be provided to | the appropriate district office no later than 90 days after the release discovery date. |
|---|---|--|
| Requesting a remediation | plan approval with this submission | Yes |
| Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC. | | associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC. |
| Have the lateral and vertica | I extents of contamination been fully delineated | Yes |
| Was this release entirely c | ontained within a lined containment area | No |
| Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.) | | |
| Chloride | (EPA 300.0 or SM4500 CI B) | 56800 |
| TPH (GRO+DRO+MRO) | (EPA SW-846 Method 8015M) | 74 |
| GRO+DRO | (EPA SW-846 Method 8015M) | 74 |
| 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 I which includes the anticipated tim | IMAC unless the site characterization report includes completed elines for beginning and completing the remediation. | efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, |
| On what estimated date wi | II the remediation commence | 06/11/2025 |
| On what date will (or did) the | ne final sampling or liner inspection occur | 06/13/2025 |
| On what date will (or was) | the remediation complete(d) | 06/13/2025 |
| What is the estimated surfa | ace area (in square feet) that will be reclaimed | 0 |
| What is the estimated volume (in cubic yards) that will be reclaimed | | 0 |
| What is the estimated surfa | ace area (in square feet) that will be remediated | 1740 |
| What is the estimated volume (in cubic yards) that will be remediated | | 16.1 |
| 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.

Released to Imaging: 7/8/2025 11:20:46 AM

Action 479806

General Information Phone: (505) 629-6116

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

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

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Action 479806

| QUESTIONS (continued) | | |
|------------------------|---|--|
| Operator: | OGRID: | |
| XTO ENERGY, INC | 5380 | |
| 6401 Holiday Hill Road | Action Number: | |
| Midland, TX 79707 | 479806 | |
| | 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 | HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510] |
| 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. |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) | Not answered. |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) | Not answered. |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) | Not answered. |
| Ground Water Abatement pursuant to 19.15.30 NMAC | 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 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: Colton Brown Title: Environmental Advisor |

Date: 06/27/2025 The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Email: colton.s.brown@exxonmobil.com

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

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Action 479806

| QUESTIONS (continued) | |
|---|---|
| Operator: XTO ENERGY, INC | OGRID: 5380 |
| 6401 Holiday Hill Road Midland, TX 79707 | Action Number: 479806 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

| QUESTIONS | , |
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|-----------|---|

| Deferral Requests Only | |
|--|---|
| Only answer the questions in this group if seeking a deferral upon approval this submission. Each of | the following items must be confirmed as part of any request for deferral of remediation. |
| Requesting a deferral of the remediation closure due date with the approval of this submission | Νο |

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

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Action 479806

| QUESTIONS (continued) | |
|-----------------------|--------|
| | OGRID: |
| | |

| Operator: | OGRID: |
|------------------------|---|
| XTO ENERGY, INC | 5380 |
| 6401 Holiday Hill Road | Action Number: |
| Midland, TX 79707 | 479806 |
| | Action Type: |
| | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| Sampling Event Information | |
|---|------------|
| Last sampling notification (C-141N) recorded | 473128 |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 06/16/2025 |
| What was the (estimated) number of samples that were to be gathered | 13 |
| What was the sampling surface area in square feet | 1750 |

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 | 1740 | |
| What was the total volume (cubic yards) remediated | 16.1 | |
| 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) | n/a | |
| 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. | | |

| | Name: Colton Brown |
|--|--------------------------------------|
| I hereby agree and sign off to the above statement | Title: Environmental Advisor |
| Thereby agree and sign on to the above statement | Email: colton.s.brown@exxonmobil.com |
| | Date: 06/27/2025 |

General Information Phone: (505) 629-6116

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

QUESTIONS, Page 7

Action 479806

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| QUESTIONS (continued) | |
|---|---|
| Operator: XTO ENERGY, INC | OGRID: 5380 |
| 6401 Holiday Hill Road Midland, TX 79707 | Action Number: 479806 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
| | |

QUESTIONS

| Reclamation Report | |
|---|----|
| Only answer the questions in this group if all reclamation steps have been completed. | |
| Requesting a reclamation approval with this submission | No |

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CONDITIONS

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CONDITIONS

| Operator: | OGRID: |
|------------------------|---|
| XTO ENERGY, INC | 5380 |
| 6401 Holiday Hill Road | Action Number: |
| Midland, TX 79707 | 479806 |
| | Action Type: |
| | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------------|--|-------------------|
| michael.buchanan | The remediation closure report is approved. | 7/8/2025 |
| michael.buchanan | The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan. | 7/8/2025 |
| michael.buchanan | A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable. | 7/8/2025 |
| michael.buchanan | A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable. | 7/8/2025 |
| michael.buchanan | All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved. | 7/8/2025 |
| michael.buchanan | Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website. | 7/8/2025 |