

General Information

| NMOCD District: | District 2 | Incident ID: | nAPP2431846528 |
|-----------------|-------------------|----------------|-------------------------------|
| Landowner: | Federal | Facility: | fAPP2207332396 |
| Client: | XTO Energy, Inc. | Site Location: | Brushy Draw 30-31 Fed Battery |
| Date: | December 14, 2024 | Project #: | 24E-04918 |
| Client Contact: | Colton Brown | Phone #: | 575.988.7329 |
| Vertex PM: | Chad Hensley | Phone #: | 575.200.6167 |

Objective

The objective of the environmental remediation work plan is to identify exceedances found during the site assessment/characterization activity and propose an appropriate remediation technique to address the produced water release at Brushy Draw 30-31 Fed Battery. The release occurred due to corrosion of the bulk line and resulted in 27 barrels (bbl) of crude oil and 108 bbl produced water being released on the facility pad and into the pasture north of the pad as shown on Figure 1 (Attachment 1). Areas of environmental concern identified and delineated include the pad north of the treating equipment and the pasture north of the facility pad. Closure criteria have been selected as per New Mexico Administrative Code 19.15.29. The closure criteria for the site are presented below in Table 1.

| Table 1. Closure Criteria for Soils Impacted by a Release DTGW <50 feet bgs | | | | | | | | |
|--|-------------------|-----------|--|--|--|--|--|--|
| Minimum depth below any point within the horizontal boundary of the release to groundwater less than | | | | | | | | |
| 10,000 mg/l TDS | Constituent | Limit | | | | | | |
| | Chloride | 600 mg/kg | | | | | | |
| < 50 feet | TPH (GRO+DRO+MRO) | 100 mg/kg | | | | | | |
| < 50 feet | ВТЕХ | 50 mg/kg | | | | | | |
| | Benzene | 10 mg/kg | | | | | | |

TDS - Total dissolved solids

Site Assessment/Characterization

Vertex performed site characterization activities on November 21 and 22, 2024. A total of 17 sample points were established, and 51 samples were collected for field screening. Samples were obtained at three discrete depths to facilitate horizontal and vertical delineation. Boreholes were advanced and samples were collected with hand tools. Borehole depths did not exceed 4 feet below ground surface due to refusal at a caliche layer. In total, 51 samples were submitted to Eurofins Environmental Testing, Albuquerque, New Mexico, for analysis. The sample locations are presented on Figure 1 (Attachment 1). Laboratory analysis results have been compared to the above noted closure criteria and the results from the characterization activity are presented in Table 2 (Attachment 2). Exceedances to reclamation and remediation criteria are identified in the table as bold with grey background. Daily field reports and laboratory data reports are included in Attachments 3 and 4, respectively. All applicable research as it pertains to closure criteria selection is presented in Attachment 5.

Proposed Remedial Activities

General

The release area will be remediated to closure criteria. Areas identified with contaminant concentrations above closure criteria will be remediated through excavation. Laboratory results from the site assessment/characterization have been referenced to estimate both the

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TPH - Total petroleum hydrocarbons = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO),

BTEX - Benzene, toluene, ethylbenzene, and xylenes

Environmental Site Remediation Work Plan



vertical and horizontal limits of the impacts and the volume of soil to be removed. Soil will be excavated to the extent of the known impacts or in 2 foot increments, whichever is less. Field screening will be utilized to confirm removal of impacted soil below the applicable closure criteria. Excavated soils will be stored on a 30mil liner prior to disposal at an approved facility. Once excavation is complete, confirmatory samples will be collected and laboratory analysis completed to confirm closure criteria guidelines are met. Excavations will be backfilled with clean soil sourced locally.

nAPP2431846528 (November 10, 2024) - Crude Oil and Produced Water Released onto Pad and into Pasture

Field screening and laboratory analysis were utilized to find the approximate horizontal and vertical extents of the spill area. A total of 51 samples were collected for analysis. Exceedances to closure criteria identified north of and adjacent to the treating equipment and extending to the pasture off the north edge of the pad will be excavated to closure criteria. Heavy equipment will be used to excavate open areas on the pad to remove contaminated soil. A hydrovac truck will be utilized to identify utility and buried pipelines in multiple areas, and hand tools will be utilized to remove contaminated soil in close proximity to equipment, buried utilities, and pipelines. Confirmation samples will be collected as per New Mexico Oil Conservation Division (NMOCD) guidance and submitted for laboratory analysis of all applicable parameters. Surfaces of the final extents of the excavation will meet the most stringent NMOCD closure criteria. The estimated remediation area is approximately 10,838 square feet as presented on Figure 1 (Attachment 1). Excavation is planned to be completed within 90 days of approval of this Environmental Site Remediation Work Plan.

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

| Lakin Pullman | December 14, 2024 |
|---------------------------------------|-------------------|
| Lakin Pullman, B.Sc. | Date |
| ENVIRONMENTAL SPECIALIST, REPORTING | |
| | |
| C4 3 | December 15, 2024 |
| Chad Hensley, B.Sc., GCNR | Date |
| SENIOR PROJECT MANAGER, REPORT REVIEW | |

Attachments

Attachment 1. Characterization Sampling Schematic

Attachment 2. Initial Characterization Laboratory Results

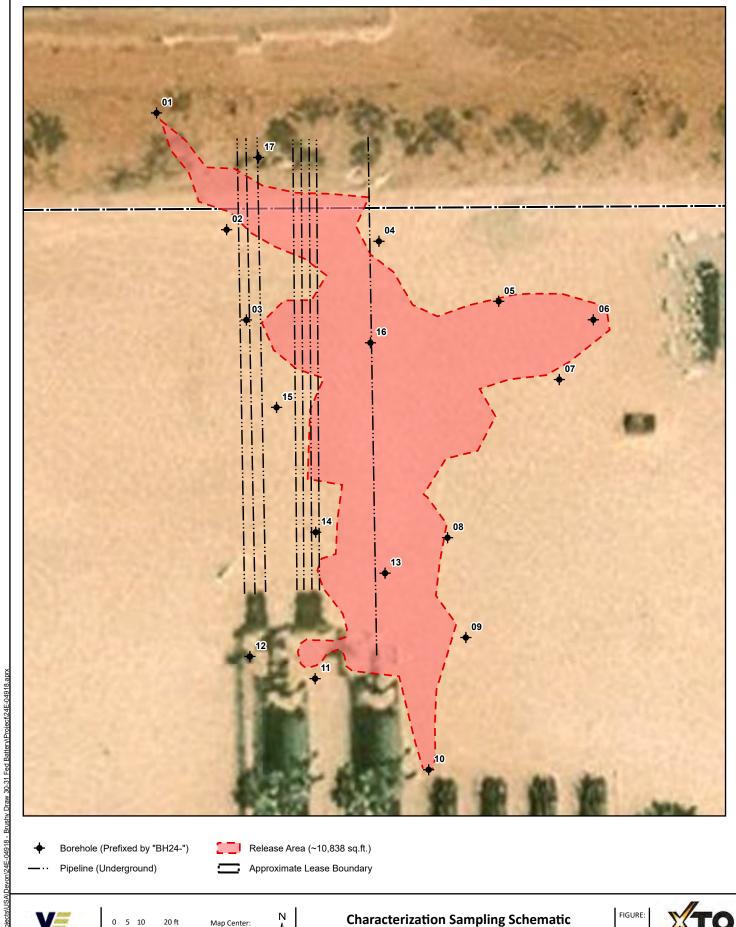
Attachment 3. Daily Field Reports with Photographs

Attachment 4. Laboratory Data Reports with Chain of Custody Forms

Attachment 5. Closure Criteria Research

VERSATILITY. EXPERTISE.

ATTACHMENT 1







Map Center: Lat: 32.092135°N, Long:103.918843°W

Brushy Draw 30-31 Fed Battery

1



ATTACHMENT 2

Client Name: XTO Energy, Inc.

Site Name: Brushy Draw 30-31 Federal Battery

NMOCD Tracking #:nAPP2431846528

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

| | | Table 2. Initia | l Characte | rization Sa | | | | | | |
|----------------------|--|--|--------------|-------------|-----------------------|---|-------------|---------------------------------------|---------------------------------|------------|
| | Sample Desc | cription | | | Petrole | um Hydrod | carbons | | | |
| | | | Vol | atile | | | Extractable |) | | Inorganic |
| Sample ID Depth (ft) | Sample Date | Benzene | BTEX (Total) | (GRO) | Diesel Range Organics | স্ত্র Motor Oil Range Organics স্থি(MRO) | (GRO + DRO) | Total Petroleum Hydrocarbons (TPH) | 33/ Chloride Concentration | |
| | | | (IIIg/ Kg/ | (1118/18) | | | oundwater | | (IIIg/ Kg) | (IIIg/ Ng) |
| | 0 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 96 |
| BH24-01 | 2 | November 22, 2024 | ND ND | ND ND | ND | ND | ND | ND | ND ND | 32 |
| 51121 01 | 4 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 32 |
| | 0 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 192 |
| BH24-02 | BH24-02 2 4 | November 22, 2024 | ND ND | ND ND | ND | ND | ND | ND | ND ND | 32 |
| | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 32 | |
| | | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 32 |
| BH24-03 | 2 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 32 |
| | 4 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 16 |
| | 0 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 144 |
| BH24-04 2 4 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 64 | |
| | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 112 | |
| | 0 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 4640 |
| BH24-05 | 2 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 304 |
| | 4 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 128 |
| | 0 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 112 |
| BH24-06 | 2 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 80 |
| | BH24-04 2 4 BH24-05 2 4 BH24-06 2 4R 0 | November 22, 2024 | ND | ND | ND | 140 | 36.8 | 140 | 176.8 | 64 |
| | 0 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 80 |
| BH24-07 | 2 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 32 |
| | 4 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 16 |
| | 0 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 32 |
| BH24-08 | 2 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 32 |
| | 4 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 32 |
| | 0 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 192 |
| BH24-09 | 2 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 32 |
| | 4 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 16 |
| | 0 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 48 |
| BH24-10 | 2 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 48 |
| | 4 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 32 |
| DU24-44 | 0 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 96 |
| BH24-11 | <u>2</u> 4 | November 22, 2024 November 22, 2024 | ND ND | ND | ND ND | ND ND | ND ND | ND ND | ND ND | 16 32 |
| | 0 | November 22, 2024 November 22, 2024 | | ND | | | | | | |
| BH24-12 | 2 | November 22, 2024 November 22, 2024 | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | 80 32 |
| D112 T 12 | 4 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 16 |



Client Name: XTO Energy, Inc.

Site Name: Brushy Draw 30-31 Federal Battery

NMOCD Tracking #:nAPP2431846528

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

| | | Table 2. Initia | l Characte | rization Sa | ample Lab | oratory Re | esults | | | |
|----------------------|-------------|-------------------|--------------|----------------------------------|--------------------------------|-----------------------------------|-------------|---------------------------------------|------------------------|-----------|
| | Sample Des | cription | | | Petrole | eum Hydrod | arbons | | | |
| | | | Vol | atile | | | Extractable | | | Inorganic |
| Sample ID Depth (ft) | Sample Date | Benzene | BTEX (Total) | Gasoline Range Organics (GRO) | Diesel Range Organics (DRO) | Motor Oil Range Organics (MRO) | (GRO + DRO) | Total Petroleum Hydrocarbons (TPH) | Chloride Concentration | |
| | | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | |
| | | | | | D | epth to Gro | oundwater | <50 | | |
| | 0 | November 22, 2024 | ND | ND | ND | 1670 | 411 | 1670 | 2081 | 1230 |
| BH24-13 | 2 | November 22, 2024 | ND | ND | 12.6 | 784 | 140 | 796.6 | 936.6 | 2280 |
| | 4R | November 22, 2024 | ND | ND | 26.6 | 500 | 73.8 | 526.6 | 600.4 | 1920 |
| | 0 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 208 |
| BH24-14 | 2 | November 22, 2024 | ND | ND | ND | 17.5 | ND | 17.5 | 17.5 | 144 |
| | 4 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 16 |
| | 0 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 80 |
| BH24-15 | 2 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 48 |
| | 4 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 16 |
| | 0 | November 22, 2024 | ND | ND | 221 | 3880 | 497 | 4101 | 4598 | 2520 |
| BH24-16 2 | | November 22, 2024 | ND | ND | ND | 123 | 11.1 | 123 | 134.1 | 6800 |
| | 4 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 32 |
| | 0 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 96 |
| BH24-17 | 2 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 32 |
| | 4 | November 22, 2024 | ND | ND | ND | ND | ND | ND | ND | 16 |

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

R indicates Refusal

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



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

ATTACHMENT 3



| Client: | XTO Energy Inc. (US) | Inspection Date: | 11/21/2024 |
|-------------------------|----------------------------------|------------------|-------------------|
| Site Location Name: | Brushy Draw 30-31 Fed Battery | Report Run Date: | 12/2/2024 2:33 PM |
| Client Contact Name: | Amy Ruth | API #: | |
| Client Contact Phone #: | 432-661-0571 | | |
| Unique Project ID | | Project Owner: | |
| Project Reference # | | Project Manager: | |
| | | Summary of | Times |
| Arrived at Site | 11/21/2024 10:11 AM | | |
| Departed Site | 11/21/2024 3:07 PM | _ | |



Site Sketch

Site Sketch



Field Notes

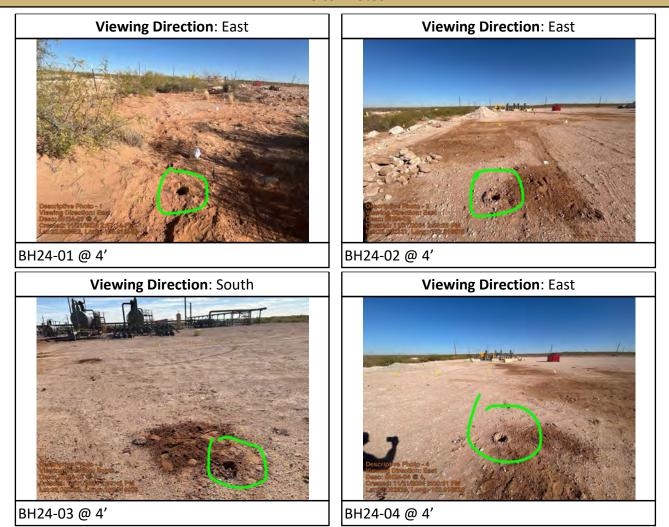
14:55 Delineate spill area

Next Steps & Recommendations

1 Send samples to lab for analysis



Site Photos







Viewing Direction: West

BH24-06 @ 4'

BH24-05 @ 4'

Viewing Direction: North

Disputation Printy - P



Daily Site Visit Signature

Inspector: Riley Plogger

Signature:



| Client: | XTO Energy Inc. (US) | Inspection Date: | 11/22/2024 | |
|-------------------------|----------------------------------|------------------|-------------------|--|
| Site Location Name: | Brushy Draw 30-31 Fed Battery | Report Run Date: | 12/2/2024 2:33 PM | |
| Client Contact Name: | Amy Ruth | API #: | | |
| Client Contact Phone #: | 432-661-0571 | | | |
| Unique Project ID | | Project Owner: | | |
| Project Reference # | | Project Manager: | | |
| | | Summary of | Times | |
| Arrived at Site | 11/22/2024 9:55 AM | | | |
| Departed Site | 11/22/2024 2:45 PM | | | |



Site Sketch

Site Sketch



Field Notes

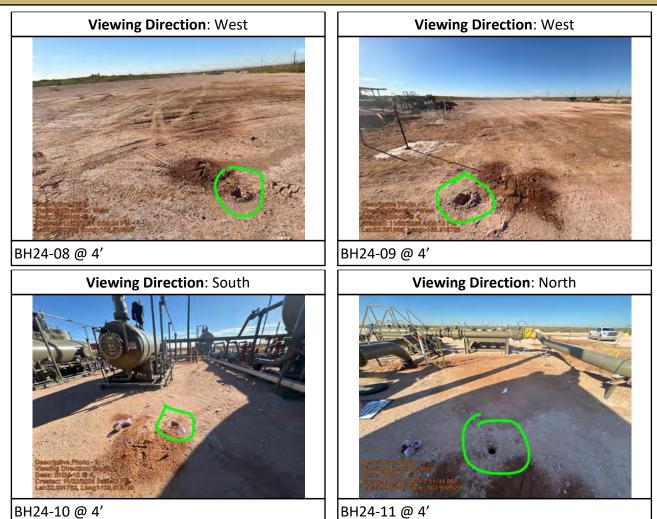
14:07 Finish delineating spill area

Next Steps & Recommendations

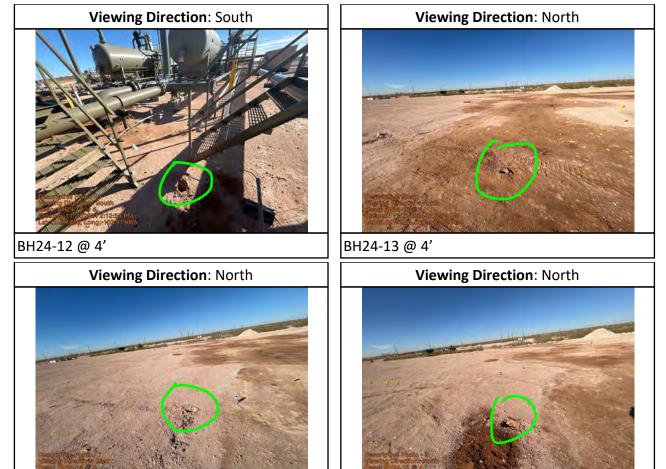
1 Send samples off to lab for analysis



Site Photos



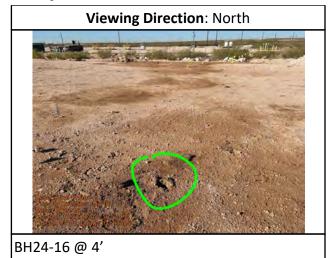




BH24-15 @ 4'

BH24-14 @ 4'









Daily Site Visit Signature

Inspector: Riley Plogger

Signature:

ATTACHMENT 4



December 03, 2024

CHAD HENSLEY
VERTEX RESOURCE

3101 BOYD DRIVE CARLSBAD, NM 88220

RE: BRUSHY DRAW 30-31

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

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

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

Project Name: BRUSHY DRAW 30-31

mg/kg

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

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

BTEX 8021B

| BIEX GOEED | 9/ | 119 | Anaryzo | a 2 y : 3 : 1 | | | | | |
|--------------------------------------|--------|-----------------|-----------------|---------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.27 | 113 | 2.00 | 6.17 | |
| Toluene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.18 | 109 | 2.00 | 9.55 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.29 | 114 | 2.00 | 12.8 | |
| Total Xylenes* | <0.150 | 0.150 | 11/28/2024 | ND | 6.80 | 113 | 6.00 | 13.4 | |
| Total BTEX | <0.300 | 0.300 | 11/28/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 111 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyzed By: CT | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 96.0 | 16.0 | 11/27/2024 | ND | 416 | 104 | 400 | 3.92 | |
| TPH 8015M | mg, | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 206 | 103 | 200 | 1.25 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 217 | 108 | 200 | 2.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 105 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 112 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

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

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

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

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

RTFY 8021R

| BIEX 8021B | mg | / kg | Anaiyze | a By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.27 | 113 | 2.00 | 6.17 | |
| Toluene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.18 | 109 | 2.00 | 9.55 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.29 | 114 | 2.00 | 12.8 | |
| Total Xylenes* | <0.150 | 0.150 | 11/28/2024 | ND | 6.80 | 113 | 6.00 | 13.4 | |
| Total BTEX | <0.300 | 0.300 | 11/28/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 115 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: CT | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 11/27/2024 | ND | 416 | 104 | 400 | 3.92 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 206 | 103 | 200 | 1.25 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 217 | 108 | 200 | 2.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 108 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 113 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

Applyzod By: 14

Cardinal Laboratories *=Accredited Analyte

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Celey D. Kune



Analytical Results For:

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

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

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

Project Number: 24E-04918

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

Sampling Type: Soil

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

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

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|---------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.27 | 113 | 2.00 | 6.17 | |
| Toluene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.18 | 109 | 2.00 | 9.55 | |
| Ethylbenzene* | < 0.050 | 0.050 | 11/28/2024 | ND | 2.29 | 114 | 2.00 | 12.8 | |
| Total Xylenes* | <0.150 | 0.150 | 11/28/2024 | ND | 6.80 | 113 | 6.00 | 13.4 | |
| Total BTEX | <0.300 | 0.300 | 11/28/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 110 % | 6 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyzed By: CT | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 11/27/2024 | ND | 416 | 104 | 400 | 3.92 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 206 | 103 | 200 | 1.25 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 217 | 108 | 200 | 2.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 111 % | 6 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 118 % | 6 49.1-14 | 8 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

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

mg/kg

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

Project Number: 24E-04918

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

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

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

BTEX 8021B

| | 9/ | 9 | 7 | 7: : | | | | | |
|--------------------------------------|--------|-----------------|-----------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.27 | 113 | 2.00 | 6.17 | |
| Toluene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.18 | 109 | 2.00 | 9.55 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.29 | 114 | 2.00 | 12.8 | |
| Total Xylenes* | <0.150 | 0.150 | 11/28/2024 | ND | 6.80 | 113 | 6.00 | 13.4 | |
| Total BTEX | <0.300 | 0.300 | 11/28/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 120 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyzed By: CT | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 192 | 16.0 | 11/27/2024 | ND | 416 | 104 | 400 | 3.92 | |
| TPH 8015M | mg, | /kg | Analyze | Analyzed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 206 | 103 | 200 | 1.25 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 217 | 108 | 200 | 2.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 112 9 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 120 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

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

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

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Alyssa Parras

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

BTEX 8021B

| | 9, | 9 | 7 | 7: : | | | | | |
|--------------------------------------|--------|-----------------|-----------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.27 | 113 | 2.00 | 6.17 | |
| Toluene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.18 | 109 | 2.00 | 9.55 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.29 | 114 | 2.00 | 12.8 | |
| Total Xylenes* | <0.150 | 0.150 | 11/28/2024 | ND | 6.80 | 113 | 6.00 | 13.4 | |
| Total BTEX | <0.300 | 0.300 | 11/28/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 124 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyzed By: CT | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 11/27/2024 | ND | 416 | 104 | 400 | 3.92 | |
| TPH 8015M | mg | /kg | Analyze | Analyzed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 206 | 103 | 200 | 1.25 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 217 | 108 | 200 | 2.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 109 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 115 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

Analyzed By: JH

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Analytical Results For:

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

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

Project Name: BRUSHY DRAW 30-31

mg/kg

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

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

BTEX 8021B

| | 9/ | 9 | 7 | , | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.27 | 113 | 2.00 | 6.17 | |
| Toluene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.18 | 109 | 2.00 | 9.55 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.29 | 114 | 2.00 | 12.8 | |
| Total Xylenes* | <0.150 | 0.150 | 11/28/2024 | ND | 6.80 | 113 | 6.00 | 13.4 | |
| Total BTEX | <0.300 | 0.300 | 11/28/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 116 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | ed By: CT | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 11/27/2024 | ND | 416 | 104 | 400 | 3.92 | |
| TPH 8015M | mg, | /kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 206 | 103 | 200 | 1.25 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 217 | 108 | 200 | 2.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 115 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 121 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

Analyzed By: JH

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Analytical Results For:

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

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

Reported: 12/03/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: XTO

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

BTEX 8021B

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Benzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.27 | 113 | 2.00 | 6.17 | |
| Toluene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.18 | 109 | 2.00 | 9.55 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.29 | 114 | 2.00 | 12.8 | |
| Total Xylenes* | <0.150 | 0.150 | 11/28/2024 | ND | 6.80 | 113 | 6.00 | 13.4 | |
| Total BTEX | <0.300 | 0.300 | 11/28/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 119 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: CT | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 11/27/2024 | ND | 416 | 104 | 400 | 3.92 | |
| TPH 8015M | mg, | /kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 206 | 103 | 200 | 1.25 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 217 | 108 | 200 | 2.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 111 9 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 119 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

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Analytical Results For:

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

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

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

Project Number: 24E-04918

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

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

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

| BTEX 8021B | mg/kg | | Analyzed By: JH | | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.98 | 99.1 | 2.00 | 5.12 | |
| Toluene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.94 | 96.8 | 2.00 | 8.20 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.09 | 104 | 2.00 | 8.72 | |
| Total Xylenes* | <0.150 | 0.150 | 11/28/2024 | ND | 6.41 | 107 | 6.00 | 9.40 | |
| Total BTEX | <0.300 | 0.300 | 11/28/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 114 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | 'kg | Analyzed By: KV | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 12/02/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 206 | 103 | 200 | 1.25 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 217 | 108 | 200 | 2.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 110 9 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 116 9 | % 49.1-14 | 8 | | | | | | |

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Analytical Results For:

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

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

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

BTEX 8021B

Sampling Date: 11/22/2024

Sampling Type: Soil

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

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

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---------------------------------------|-------------------|---|-----------------------------|--|-----------|-------------------|----------------------|-------------|------------------------|
| Benzene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.98 | 99.1 | 2.00 | 5.12 | |
| Toluene* | < 0.050 | 0.050 | 11/28/2024 | ND | 1.94 | 96.8 | 2.00 | 8.20 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.09 | 104 | 2.00 | 8.72 | |
| Total Xylenes* | <0.150 | 0.150 | 11/28/2024 | ND | 6.41 | 107 | 6.00 | 9.40 | |
| Total BTEX | <0.300 | 0.300 | 11/28/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 113 % | 6 71.5-13 | 4 | | | | | | |
| 011 11 014450001 B | mg/kg | | Analyzed By: KV | | | | | | |
| Chloride, SM4500Cl-B | mg/ | кд | Anaiyze | а ву: ку | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| | | | - | | BS 432 | % Recovery | True Value QC 400 | RPD 0.00 | Qualifier |
| Analyte | Result | Reporting Limit | Analyzed 12/02/2024 | Method Blank | | , | · | | Qualifier |
| Analyte Chloride | Result | Reporting Limit | Analyzed 12/02/2024 | Method Blank | | , | · | | Qualifier Qualifier |
| Analyte Chloride TPH 8015M | Result 16.0 mg/ | Reporting Limit 16.0 | Analyzed 12/02/2024 Analyze | Method Blank ND d By: MS | 432 | 108 | 400 | 0.00 | |
| Analyte Chloride TPH 8015M Analyte | Result 16.0 mg/ | Reporting Limit 16.0 kg Reporting Limit | Analyzed 12/02/2024 Analyze | Method Blank ND d By: MS Method Blank | 432 BS | 108 % Recovery | 400 True Value QC | 0.00 RPD | |

Analyzed By: JH

Surrogate: 1-Chlorooctane 109 % 48.2-134 Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

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

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

BRUSHY DRAW 30-31

Project Name: Project Number: 24E-04918

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

Sampling Type: Soil

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

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

| BTEX 8021B | mg/kg | | Analyzed By: JH | | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.98 | 99.1 | 2.00 | 5.12 | |
| Toluene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.94 | 96.8 | 2.00 | 8.20 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.09 | 104 | 2.00 | 8.72 | |
| Total Xylenes* | <0.150 | 0.150 | 11/28/2024 | ND | 6.41 | 107 | 6.00 | 9.40 | |
| Total BTEX | <0.300 | 0.300 | 11/28/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 113 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | 'kg | Analyzed By: KV | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 144 | 16.0 | 12/02/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | 'kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 206 | 103 | 200 | 1.25 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 217 | 108 | 200 | 2.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 102 9 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 108 9 | % 49.1-14 | 8 | | | | | | |

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Analytical Results For:

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

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

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

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

RTFY 8021R

| BIEX 8021B | mg | / kg | Anaiyze | a By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.98 | 99.1 | 2.00 | 5.12 | |
| Toluene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.94 | 96.8 | 2.00 | 8.20 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.09 | 104 | 2.00 | 8.72 | |
| Total Xylenes* | <0.150 | 0.150 | 11/28/2024 | ND | 6.41 | 107 | 6.00 | 9.40 | |
| Total BTEX | <0.300 | 0.300 | 11/28/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 107 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: KV | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 12/02/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 206 | 103 | 200 | 1.25 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 217 | 108 | 200 | 2.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 98.9 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 104 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

Applyzod By: 14

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11/22/2024

Analytical Results For:

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

Received: 11/25/2024 Sampling Date:

Reported: 12/03/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: XTO

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

BTEX 8021B

| DILX GOZID | ıııg, | , kg | Andryzo | u by. 511 | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.98 | 99.1 | 2.00 | 5.12 | |
| Toluene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.94 | 96.8 | 2.00 | 8.20 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.09 | 104 | 2.00 | 8.72 | |
| Total Xylenes* | <0.150 | 0.150 | 11/28/2024 | ND | 6.41 | 107 | 6.00 | 9.40 | |
| Total BTEX | <0.300 | 0.300 | 11/28/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 109 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: KV | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 112 | 16.0 | 12/02/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 206 | 103 | 200 | 1.25 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 217 | 108 | 200 | 2.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 109 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 114 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

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Analytical Results For:

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

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

Project Name: BRUSHY DRAW 30-31

mg/kg

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

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

BTEX 8021B

| | 9/ | 9 | 7 | 7: 5:: | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.98 | 99.1 | 2.00 | 5.12 | |
| Toluene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.94 | 96.8 | 2.00 | 8.20 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.09 | 104 | 2.00 | 8.72 | |
| Total Xylenes* | <0.150 | 0.150 | 11/28/2024 | ND | 6.41 | 107 | 6.00 | 9.40 | |
| Total BTEX | <0.300 | 0.300 | 11/28/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 115 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | ed By: KV | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4640 | 16.0 | 12/02/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 206 | 103 | 200 | 1.25 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 217 | 108 | 200 | 2.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 109 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 116 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

Analyzed By: JH

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Analytical Results For:

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

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

Project Name: BRUSHY DRAW 30-31

mg/kg

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

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

BTEX 8021B

| | 9/ | 9 | 7 | | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.98 | 99.1 | 2.00 | 5.12 | |
| Toluene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.94 | 96.8 | 2.00 | 8.20 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.09 | 104 | 2.00 | 8.72 | |
| Total Xylenes* | <0.150 | 0.150 | 11/28/2024 | ND | 6.41 | 107 | 6.00 | 9.40 | |
| Total BTEX | <0.300 | 0.300 | 11/28/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 114 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | ed By: KV | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 304 | 16.0 | 12/02/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 206 | 103 | 200 | 1.25 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 217 | 108 | 200 | 2.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 109 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 114 9 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

Analyzed By: JH

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11/22/2024

Analytical Results For:

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

Received: 11/25/2024 Sampling Date:

mg/kg

Reported: 12/03/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: XTO

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

BTEX 8021B

| | 9, | 9 | 7 | 7: : | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.98 | 99.1 | 2.00 | 5.12 | |
| Toluene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.94 | 96.8 | 2.00 | 8.20 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.09 | 104 | 2.00 | 8.72 | |
| Total Xylenes* | <0.150 | 0.150 | 11/28/2024 | ND | 6.41 | 107 | 6.00 | 9.40 | |
| Total BTEX | <0.300 | 0.300 | 11/28/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 107 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: KV | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 128 | 16.0 | 12/02/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 206 | 103 | 200 | 1.25 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 217 | 108 | 200 | 2.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 110 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 116 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

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11/22/2024

Analytical Results For:

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

Received: 11/25/2024 Sampling Date:

mg/kg

Reported: 12/03/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: XTO

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

BTEX 8021B

| DIEX GOZID | iiig/ | , kg | Allulyzeu by. 311 | | | | | | |
|--------------------------------------|--------|-----------------|-------------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.98 | 99.1 | 2.00 | 5.12 | |
| Toluene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.94 | 96.8 | 2.00 | 8.20 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.09 | 104 | 2.00 | 8.72 | |
| Total Xylenes* | <0.150 | 0.150 | 11/28/2024 | ND | 6.41 | 107 | 6.00 | 9.40 | |
| Total BTEX | <0.300 | 0.300 | 11/28/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 113 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: KV | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 112 | 16.0 | 12/02/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg | /kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 223 | 112 | 200 | 4.21 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 202 | 101 | 200 | 6.18 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 98.1 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 103 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

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Analytical Results For:

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

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

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

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

BTEX 8021B

| | 9/ | 9 | 7 | 7: 5:: | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.98 | 99.1 | 2.00 | 5.12 | |
| Toluene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.94 | 96.8 | 2.00 | 8.20 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.09 | 104 | 2.00 | 8.72 | |
| Total Xylenes* | <0.150 | 0.150 | 11/28/2024 | ND | 6.41 | 107 | 6.00 | 9.40 | |
| Total BTEX | <0.300 | 0.300 | 11/28/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 111 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | ed By: KV | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 12/02/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | ed By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 223 | 112 | 200 | 4.21 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 202 | 101 | 200 | 6.18 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 99.2 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 104 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

Analyzed By: JH

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Analytical Results For:

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

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

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

Project Number: 24E-04918

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

Sampling Type: Soil

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

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

| BTEX 8021B | mg/kg | | Analyzed By: JH | | | | | | |
|--------------------------------------|--------|-----------------|-----------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.98 | 99.1 | 2.00 | 5.12 | |
| Toluene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.94 | 96.8 | 2.00 | 8.20 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.09 | 104 | 2.00 | 8.72 | |
| Total Xylenes* | <0.150 | 0.150 | 11/28/2024 | ND | 6.41 | 107 | 6.00 | 9.40 | |
| Total BTEX | <0.300 | 0.300 | 11/28/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 110 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | Analyzed By: KV | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 12/02/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 223 | 112 | 200 | 4.21 | |
| DRO >C10-C28* | 140 | 10.0 | 11/27/2024 | ND | 202 | 101 | 200 | 6.18 | |
| EXT DRO >C28-C36 | 36.8 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 97.3 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 112 | % 49.1-14 | 8 | | | | | | |

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Analytical Results For:

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

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

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

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

| Recovery True Value QC RPD Qualifier 99.1 2.00 5.12 96.8 2.00 8.20 104 2.00 8.72 107 6.00 9.40 |
|--|
| 96.8 2.00 8.20 104 2.00 8.72 |
| 104 2.00 8.72 |
| |
| 107 6.00 9.40 |
| |
| |
| |
| |
| tecovery True Value QC RPD Qualifier |
| 108 400 0.00 |
| |
| tecovery True Value QC RPD Qualifier |
| 112 200 4.21 |
| 101 200 6.18 |
| |
| |
| |
| 1 Re |

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Analytical Results For:

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

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

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

RTFY 8021R

Sampling Date: 11/22/2024

Sampling Type: Soil

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

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

| B1EX 8021B | тд/кд | | Analyze | Analyzed By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.98 | 99.1 | 2.00 | 5.12 | |
| Toluene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.94 | 96.8 | 2.00 | 8.20 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.09 | 104 | 2.00 | 8.72 | |
| Total Xylenes* | <0.150 | 0.150 | 11/28/2024 | ND | 6.41 | 107 | 6.00 | 9.40 | |
| Total BTEX | <0.300 | 0.300 | 11/28/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 118 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | Analyzed By: KV | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 12/02/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 223 | 112 | 200 | 4.21 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 202 | 101 | 200 | 6.18 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 98.2 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 102 | % 49.1-14 | 8 | | | | | | |

Applyzod By: 14

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Analytical Results For:

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

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

mg/kg

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

Project Number: 24E-04918

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

Sampling Type: Soil

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

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

BTEX 8021B

| | 91 | 9 | | | | | | | |
|--------------------------------------|---------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.98 | 99.1 | 2.00 | 5.12 | |
| Toluene* | < 0.050 | 0.050 | 11/28/2024 | ND | 1.94 | 96.8 | 2.00 | 8.20 | |
| Ethylbenzene* | < 0.050 | 0.050 | 11/28/2024 | ND | 2.09 | 104 | 2.00 | 8.72 | |
| Total Xylenes* | < 0.150 | 0.150 | 11/28/2024 | ND | 6.41 | 107 | 6.00 | 9.40 | |
| Total BTEX | <0.300 | 0.300 | 11/28/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 121 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | Analyzed By: KV | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 12/02/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg | /kg | Analyze | ed By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 223 | 112 | 200 | 4.21 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 202 | 101 | 200 | 6.18 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 99.5 | % 48.2-13 | 4 | | | | | | |
| | | | | | | | | | |

Analyzed By: JH

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

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

Project Name: BRUSHY DRAW 30-31

mg/kg

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

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

BTEX 8021B

| | 9/ | 9 | 7 | , | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.98 | 99.1 | 2.00 | 5.12 | |
| Toluene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.94 | 96.8 | 2.00 | 8.20 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.09 | 104 | 2.00 | 8.72 | |
| Total Xylenes* | <0.150 | 0.150 | 11/28/2024 | ND | 6.41 | 107 | 6.00 | 9.40 | |
| Total BTEX | <0.300 | 0.300 | 11/28/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 111 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | ed By: KV | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 12/02/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | ed By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 223 | 112 | 200 | 4.21 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 202 | 101 | 200 | 6.18 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 74.9 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 75.0 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

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

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

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

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

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

BTEX 8021B

| | 9/ | 9 | 7 | 7: 5:: | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.98 | 99.1 | 2.00 | 5.12 | |
| Toluene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.94 | 96.8 | 2.00 | 8.20 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.09 | 104 | 2.00 | 8.72 | |
| Total Xylenes* | <0.150 | 0.150 | 11/28/2024 | ND | 6.41 | 107 | 6.00 | 9.40 | |
| Total BTEX | <0.300 | 0.300 | 11/28/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 113 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | ed By: KV | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 12/02/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyzed By: ms | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 223 | 112 | 200 | 4.21 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 202 | 101 | 200 | 6.18 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 82.6 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 82.2 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

Analyzed By: JH

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11/22/2024

Analytical Results For:

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

Received: 11/25/2024 Sampling Date:

mg/kg

Reported: 12/03/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: XTO

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

BTEX 8021B

| | 9/ | 9 | 7 | 7 5 | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.98 | 99.1 | 2.00 | 5.12 | |
| Toluene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.94 | 96.8 | 2.00 | 8.20 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.09 | 104 | 2.00 | 8.72 | |
| Total Xylenes* | <0.150 | 0.150 | 11/28/2024 | ND | 6.41 | 107 | 6.00 | 9.40 | |
| Total BTEX | <0.300 | 0.300 | 11/28/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 115 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: KV | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 12/02/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyzed By: ms | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 223 | 112 | 200 | 4.21 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 202 | 101 | 200 | 6.18 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 76.2 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 75.4 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

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Analytical Results For:

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

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

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

Project Number: 24E-04918

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

Sampling Type: Soil

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

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

| BTEX 8021B | mg/kg | | Analyze | Analyzed By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.98 | 99.1 | 2.00 | 5.12 | |
| Toluene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.94 | 96.8 | 2.00 | 8.20 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.09 | 104 | 2.00 | 8.72 | |
| Total Xylenes* | <0.150 | 0.150 | 11/28/2024 | ND | 6.41 | 107 | 6.00 | 9.40 | |
| Total BTEX | <0.300 | 0.300 | 11/28/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 120 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | /kg | Analyze | d By: KV | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 192 | 16.0 | 12/02/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | /kg | Analyzed By: ms | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 223 | 112 | 200 | 4.21 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 202 | 101 | 200 | 6.18 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 75.8 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 76.0 | % 49.1-14 | 8 | | | | | | |

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Analytical Results For:

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

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

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

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

RTFY 8021R

| B1EX 8021B | mg, | кg | Апануге | a By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.98 | 99.1 | 2.00 | 5.12 | |
| Toluene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.94 | 96.8 | 2.00 | 8.20 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.09 | 104 | 2.00 | 8.72 | |
| Total Xylenes* | <0.150 | 0.150 | 11/28/2024 | ND | 6.41 | 107 | 6.00 | 9.40 | |
| Total BTEX | <0.300 | 0.300 | 11/28/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 121 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg, | mg/kg | | Analyzed By: KV | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 12/02/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 223 | 112 | 200 | 4.21 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 202 | 101 | 200 | 6.18 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 80.6 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 80.7 | % 49.1-14 | 8 | | | | | | |

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Analytical Results For:

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

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

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

Project Number: 24E-04918

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

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

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

RTFY 8021R

| BIEX 8021B | mg | /кд | Anaiyze | а ву: ЈН | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.98 | 99.1 | 2.00 | 5.12 | |
| Toluene* | <0.050 | 0.050 | 11/28/2024 | ND | 1.94 | 96.8 | 2.00 | 8.20 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/28/2024 | ND | 2.09 | 104 | 2.00 | 8.72 | |
| Total Xylenes* | <0.150 | 0.150 | 11/28/2024 | ND | 6.41 | 107 | 6.00 | 9.40 | |
| Total BTEX | <0.300 | 0.300 | 11/28/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 115 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyzed By: KV | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 12/02/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg | /kg | Analyzed By: ms | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 223 | 112 | 200 | 4.21 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 202 | 101 | 200 | 6.18 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 78.3 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 78.4 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

Applyzod By: 14

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Analytical Results For:

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

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

Project Name: BRUSHY DRAW 30-31

mg/kg

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Alyssa Parras

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

BTEX 8021B

| | <u> </u> | | | | | | | | |
|--------------------------------------|----------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.09 | 105 | 2.00 | 5.49 | |
| Toluene* | <0.050 | 0.050 | 11/29/2024 | ND | 1.99 | 99.3 | 2.00 | 5.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.00 | 99.8 | 2.00 | 4.34 | |
| Total Xylenes* | <0.150 | 0.150 | 11/29/2024 | ND | 5.96 | 99.3 | 6.00 | 4.12 | |
| Total BTEX | <0.300 | 0.300 | 11/29/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 96.9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 12/03/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 223 | 112 | 200 | 4.21 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 202 | 101 | 200 | 6.18 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 62.9 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 62.6 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

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

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

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

Project Number: 24E-04918

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

Sampling Type: Soil

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

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

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.09 | 105 | 2.00 | 5.49 | |
| Toluene* | <0.050 | 0.050 | 11/29/2024 | ND | 1.99 | 99.3 | 2.00 | 5.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.00 | 99.8 | 2.00 | 4.34 | |
| Total Xylenes* | <0.150 | 0.150 | 11/29/2024 | ND | 5.96 | 99.3 | 6.00 | 4.12 | |
| Total BTEX | <0.300 | 0.300 | 11/29/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 96.8 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 12/03/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 223 | 112 | 200 | 4.21 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 202 | 101 | 200 | 6.18 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 78.3 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 77.6 | % 49.1-14 | 8 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

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

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

Project Name: BRUSHY DRAW 30-31

mg/kg

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

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

BTEX 8021B

| | <u> </u> | | | . , | | | | | |
|--------------------------------------|----------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.09 | 105 | 2.00 | 5.49 | |
| Toluene* | <0.050 | 0.050 | 11/29/2024 | ND | 1.99 | 99.3 | 2.00 | 5.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.00 | 99.8 | 2.00 | 4.34 | |
| Total Xylenes* | <0.150 | 0.150 | 11/29/2024 | ND | 5.96 | 99.3 | 6.00 | 4.12 | |
| Total BTEX | <0.300 | 0.300 | 11/29/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 97.3 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 12/03/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 223 | 112 | 200 | 4.21 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 202 | 101 | 200 | 6.18 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 78.5 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 78.4 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

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

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

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

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

BTEX 8021B

| DILX OUZID | 11197 | ng . | Allulyzo | u by. 511 | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.09 | 105 | 2.00 | 5.49 | |
| Toluene* | <0.050 | 0.050 | 11/29/2024 | ND | 1.99 | 99.3 | 2.00 | 5.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.00 | 99.8 | 2.00 | 4.34 | |
| Total Xylenes* | <0.150 | 0.150 | 11/29/2024 | ND | 5.96 | 99.3 | 6.00 | 4.12 | |
| Total BTEX | <0.300 | 0.300 | 11/29/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 97.4 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 96.0 | 16.0 | 12/03/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 223 | 112 | 200 | 4.21 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 202 | 101 | 200 | 6.18 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 73.1 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 71.3 | % 49.1-14 | 8 | | | | | | |

Analyzed By: JH

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Analytical Results For:

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

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

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

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

BTEX 8021B

| | 9/ | 9 | 7 | | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.09 | 105 | 2.00 | 5.49 | |
| Toluene* | <0.050 | 0.050 | 11/29/2024 | ND | 1.99 | 99.3 | 2.00 | 5.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.00 | 99.8 | 2.00 | 4.34 | |
| Total Xylenes* | <0.150 | 0.150 | 11/29/2024 | ND | 5.96 | 99.3 | 6.00 | 4.12 | |
| Total BTEX | <0.300 | 0.300 | 11/29/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 98.2 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | ed By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 12/03/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | ed By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 223 | 112 | 200 | 4.21 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 202 | 101 | 200 | 6.18 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 76.7 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 74.8 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

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

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

Reported: 12/03/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: XTO

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

BTEX 8021B

| | 9/ | 9 | 7 | 7 5 | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.09 | 105 | 2.00 | 5.49 | |
| Toluene* | <0.050 | 0.050 | 11/29/2024 | ND | 1.99 | 99.3 | 2.00 | 5.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.00 | 99.8 | 2.00 | 4.34 | |
| Total Xylenes* | <0.150 | 0.150 | 11/29/2024 | ND | 5.96 | 99.3 | 6.00 | 4.12 | |
| Total BTEX | <0.300 | 0.300 | 11/29/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 98.4 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 12/03/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyzed By: ms | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 223 | 112 | 200 | 4.21 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 202 | 101 | 200 | 6.18 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 75.2 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 73.9 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

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Analytical Results For:

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

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

Project Name: BRUSHY DRAW 30-31

mg/kg

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

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

BTEX 8021B

| | <u> </u> | | | . , | | | | | |
|--------------------------------------|----------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.09 | 105 | 2.00 | 5.49 | |
| Toluene* | <0.050 | 0.050 | 11/29/2024 | ND | 1.99 | 99.3 | 2.00 | 5.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.00 | 99.8 | 2.00 | 4.34 | |
| Total Xylenes* | <0.150 | 0.150 | 11/29/2024 | ND | 5.96 | 99.3 | 6.00 | 4.12 | |
| Total BTEX | <0.300 | 0.300 | 11/29/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 97.6 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 12/03/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg | /kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 223 | 112 | 200 | 4.21 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 202 | 101 | 200 | 6.18 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 72.8 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 71.4 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Alyssa Parras

Sample Received By:

Analytical Results For:

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

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

Reported: 12/03/2024 Sampling Type: Soil
Project Name: BRUSHY DRAW 30-31 Sampling Condition: Cool & Intact

Project Number: 24E-04918
Project Location: XTO

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

mg/kg

BTEX 8021B

| | 9/ | 9 | 7 | , | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.09 | 105 | 2.00 | 5.49 | |
| Toluene* | <0.050 | 0.050 | 11/29/2024 | ND | 1.99 | 99.3 | 2.00 | 5.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.00 | 99.8 | 2.00 | 4.34 | |
| Total Xylenes* | <0.150 | 0.150 | 11/29/2024 | ND | 5.96 | 99.3 | 6.00 | 4.12 | |
| Total BTEX | <0.300 | 0.300 | 11/29/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 99.7 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | ed By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 12/03/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | ed By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 223 | 112 | 200 | 4.21 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 202 | 101 | 200 | 6.18 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 75.4 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 74.5 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

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

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

Project Name: BRUSHY DRAW 30-31

mg/kg

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

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

BTEX 8021B

| | 91 | 9 | 7 | 7: - 5:: | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.09 | 105 | 2.00 | 5.49 | |
| Toluene* | <0.050 | 0.050 | 11/29/2024 | ND | 1.99 | 99.3 | 2.00 | 5.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.00 | 99.8 | 2.00 | 4.34 | |
| Total Xylenes* | <0.150 | 0.150 | 11/29/2024 | ND | 5.96 | 99.3 | 6.00 | 4.12 | |
| Total BTEX | <0.300 | 0.300 | 11/29/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 98.6 | % 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 | 16.0 | 16.0 | 12/03/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 209 | 104 | 200 | 5.52 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 214 | 107 | 200 | 6.15 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 81.5 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 88.1 | % 49.1-14 | 8 | | | | | | |

Analyzed By: JH

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Analytical Results For:

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

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

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

| Sample 1D: BH24 -13 | @ U (H24/231-3/) |
|---------------------|------------------|
| BTEX 8021B | mg/kg |

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Benzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.09 | 105 | 2.00 | 5.49 | |
| Toluene* | <0.050 | 0.050 | 11/29/2024 | ND | 1.99 | 99.3 | 2.00 | 5.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.00 | 99.8 | 2.00 | 4.34 | |
| Total Xylenes* | <0.150 | 0.150 | 11/29/2024 | ND | 5.96 | 99.3 | 6.00 | 4.12 | |
| Total BTEX | <0.300 | 0.300 | 11/29/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 96.0 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1230 | 16.0 | 12/03/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 209 | 104 | 200 | 5.52 | |
| DRO >C10-C28* | 1670 | 10.0 | 11/27/2024 | ND | 214 | 107 | 200 | 6.15 | |
| EXT DRO >C28-C36 | 411 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 66.1 9 | % 48.2-13 | 4 | | | | | | |

Analyzed By: JH

 Surrogate: 1-Chlorooctane
 00.1 %
 48.2-134

 Surrogate: 1-Chlorooctadecane
 85.9 %
 49.1-148

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Analytical Results For:

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

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

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

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

| BTEX 8021B | mg, | 'kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.09 | 105 | 2.00 | 5.49 | |
| Toluene* | <0.050 | 0.050 | 11/29/2024 | ND | 1.99 | 99.3 | 2.00 | 5.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.00 | 99.8 | 2.00 | 4.34 | |
| Total Xylenes* | <0.150 | 0.150 | 11/29/2024 | ND | 5.96 | 99.3 | 6.00 | 4.12 | |
| Total BTEX | <0.300 | 0.300 | 11/29/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2280 | 16.0 | 12/03/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | 12.6 | 10.0 | 11/27/2024 | ND | 209 | 104 | 200 | 5.52 | |
| DRO >C10-C28* | 784 | 10.0 | 11/27/2024 | ND | 214 | 107 | 200 | 6.15 | |
| EXT DRO >C28-C36 | 140 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 82.4 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 95.7 | % 49.1-14 | 8 | | | | | | |

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Analytical Results For:

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

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

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

Project Number: 24E-04918

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

Sampling Type: Soil

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

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

| 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 | 12/03/2024 | ND | 2.09 | 105 | 2.00 | 5.49 | |
| Toluene* | <0.050 | 0.050 | 12/03/2024 | ND | 1.99 | 99.3 | 2.00 | 5.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/03/2024 | ND | 2.00 | 99.8 | 2.00 | 4.34 | GC-NC |
| Total Xylenes* | <0.150 | 0.150 | 12/03/2024 | ND | 5.96 | 99.3 | 6.00 | 4.12 | GC-NC |
| Total BTEX | <0.300 | 0.300 | 12/03/2024 | ND | | | | | GC-NC |
| Surrogate: 4-Bromofluorobenzene (PID | 122 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1920 | 16.0 | 12/03/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | 26.6 | 10.0 | 11/27/2024 | ND | 209 | 104 | 200 | 5.52 | |
| DRO >C10-C28* | 500 | 10.0 | 11/27/2024 | ND | 214 | 107 | 200 | 6.15 | |
| EXT DRO >C28-C36 | 73.8 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 92.0 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 105 | % 49.1-14 | 8 | | | | | | |

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Analytical Results For:

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

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

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

BTEX 8021B

Sampling Date: 11/22/2024

Sampling Type: Soil

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

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

| | <u> </u> | | | . , | | | | | |
|--------------------------------------|----------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.09 | 105 | 2.00 | 5.49 | |
| Toluene* | <0.050 | 0.050 | 11/29/2024 | ND | 1.99 | 99.3 | 2.00 | 5.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.00 | 99.8 | 2.00 | 4.34 | |
| Total Xylenes* | <0.150 | 0.150 | 11/29/2024 | ND | 5.96 | 99.3 | 6.00 | 4.12 | |
| Total BTEX | <0.300 | 0.300 | 11/29/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 97.8 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg, | 'kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 208 | 16.0 | 12/03/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | 'kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 209 | 104 | 200 | 5.52 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 214 | 107 | 200 | 6.15 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 76.7 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 84.2 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

Analyzed By: JH

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Analytical Results For:

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

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

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

Project Number: 24E-04918

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

Sampling Type: Soil

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

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

| BTEX 8021B | mg/ | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.09 | 105 | 2.00 | 5.49 | |
| Toluene* | <0.050 | 0.050 | 11/29/2024 | ND | 1.99 | 99.3 | 2.00 | 5.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.00 | 99.8 | 2.00 | 4.34 | |
| Total Xylenes* | <0.150 | 0.150 | 11/29/2024 | ND | 5.96 | 99.3 | 6.00 | 4.12 | |
| Total BTEX | <0.300 | 0.300 | 11/29/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 97.7 | % 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 | 144 | 16.0 | 12/03/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 209 | 104 | 200 | 5.52 | |
| DRO >C10-C28* | 17.5 | 10.0 | 11/27/2024 | ND | 214 | 107 | 200 | 6.15 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 75.8 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 82.5 | % 49.1-14 | 8 | | | | | | |

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Analytical Results For:

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

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

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

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

BTEX 8021B

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Benzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.09 | 105 | 2.00 | 5.49 | |
| Toluene* | <0.050 | 0.050 | 11/29/2024 | ND | 1.99 | 99.3 | 2.00 | 5.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.00 | 99.8 | 2.00 | 4.34 | |
| Total Xylenes* | <0.150 | 0.150 | 11/29/2024 | ND | 5.96 | 99.3 | 6.00 | 4.12 | |
| Total BTEX | <0.300 | 0.300 | 11/29/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 97.8 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 12/03/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 209 | 104 | 200 | 5.52 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 214 | 107 | 200 | 6.15 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 78.0 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 85.3 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

Analyzed By: JH

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Analytical Results For:

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

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

Reported: 12/03/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: XTO

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

BTEX 8021B

| | 9/ | 9 | 7 | 7 5 | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.09 | 105 | 2.00 | 5.49 | |
| Toluene* | <0.050 | 0.050 | 11/29/2024 | ND | 1.99 | 99.3 | 2.00 | 5.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.00 | 99.8 | 2.00 | 4.34 | |
| Total Xylenes* | <0.150 | 0.150 | 11/29/2024 | ND | 5.96 | 99.3 | 6.00 | 4.12 | |
| Total BTEX | <0.300 | 0.300 | 11/29/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 98.8 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 12/03/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 209 | 104 | 200 | 5.52 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 214 | 107 | 200 | 6.15 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 71.8 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 76.7 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

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Celey D. Keene



Analytical Results For:

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

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

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

Project Number: 24E-04918

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

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Alyssa Parras

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

BTEX 8021B

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Benzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.09 | 105 | 2.00 | 5.49 | |
| Toluene* | <0.050 | 0.050 | 11/29/2024 | ND | 1.99 | 99.3 | 2.00 | 5.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.00 | 99.8 | 2.00 | 4.34 | |
| Total Xylenes* | <0.150 | 0.150 | 11/29/2024 | ND | 5.96 | 99.3 | 6.00 | 4.12 | |
| Total BTEX | <0.300 | 0.300 | 11/29/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 97.2 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | ed By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 12/03/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 209 | 104 | 200 | 5.52 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 214 | 107 | 200 | 6.15 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 78.2 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 83.0 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

Analyzed By: JH

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Analytical Results For:

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

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

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

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

BTEX 8021B

| | 91 | 9 | 7 | | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.09 | 105 | 2.00 | 5.49 | |
| Toluene* | <0.050 | 0.050 | 11/29/2024 | ND | 1.99 | 99.3 | 2.00 | 5.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.00 | 99.8 | 2.00 | 4.34 | |
| Total Xylenes* | <0.150 | 0.150 | 11/29/2024 | ND | 5.96 | 99.3 | 6.00 | 4.12 | |
| Total BTEX | <0.300 | 0.300 | 11/29/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 97.5 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg/ | /kg | Analyze | ed By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 12/03/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 209 | 104 | 200 | 5.52 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 214 | 107 | 200 | 6.15 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 75.4 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 81.5 | % 49.1-14 | 8 | | | | | | |

Analyzed By: JH

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Celey D. Keene



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Analytical Results For:

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

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

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

Project Number: 24E-04918

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

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Alyssa Parras

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

| BTEX 8021B | mg/kg | | Analyzed By: JH | | | | | | S-04 |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.09 | 105 | 2.00 | 5.49 | |
| Toluene* | <0.050 | 0.050 | 11/29/2024 | ND | 1.99 | 99.3 | 2.00 | 5.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.00 | 99.8 | 2.00 | 4.34 | GC-NC |
| Total Xylenes* | <0.150 | 0.150 | 11/29/2024 | ND | 5.96 | 99.3 | 6.00 | 4.12 | GC-NC |
| Total BTEX | <0.300 | 0.300 | 11/29/2024 | ND | | | | | GC-NC |
| Surrogate: 4-Bromofluorobenzene (PID | 144 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 | 2520 | 16.0 | 12/03/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | 'kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | 221 | 10.0 | 11/27/2024 | ND | 209 | 104 | 200 | 5.52 | |
| DRO >C10-C28* | 3880 | 10.0 | 11/27/2024 | ND | 214 | 107 | 200 | 6.15 | |
| EXT DRO >C28-C36 | 497 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 123 9 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 106 | % 49 1-14 | 8 | | | | | | |

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

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

Project Name: BRUSHY DRAW 30-31

Project Number: 24E-04918

Project Location: XTO

Sampling Date: 11/22/2024

Sampling Type: Soil

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

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

| BTEX 8021B | mg | /kg | Analyze | ed By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.09 | 105 | 2.00 | 5.49 | |
| Toluene* | <0.050 | 0.050 | 11/29/2024 | ND | 1.99 | 99.3 | 2.00 | 5.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.00 | 99.8 | 2.00 | 4.34 | |
| Total Xylenes* | <0.150 | 0.150 | 11/29/2024 | ND | 5.96 | 99.3 | 6.00 | 4.12 | |
| Total BTEX | <0.300 | 0.300 | 11/29/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 99.8 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | ed By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 6800 | 16.0 | 12/03/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 209 | 104 | 200 | 5.52 | |
| DRO >C10-C28* | 123 | 10.0 | 11/27/2024 | ND | 214 | 107 | 200 | 6.15 | |
| EXT DRO >C28-C36 | 11.1 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 77.6 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 83.8 | % 49.1-14 | 8 | | | | | | |
| | | | | | | | | | |

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Analytical Results For:

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

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

Reported: 12/03/2024 Sampling Type: Soil

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

Project Location: XTO

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

| BTEX 8021B | mg, | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.11 | 105 | 2.00 | 5.57 | |
| Toluene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.15 | 108 | 2.00 | 6.58 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.08 | 104 | 2.00 | 7.07 | |
| Total Xylenes* | <0.150 | 0.150 | 11/29/2024 | ND | 6.53 | 109 | 6.00 | 6.96 | |
| Total BTEX | <0.300 | 0.300 | 11/29/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 106 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: KV | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 12/02/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 209 | 104 | 200 | 5.52 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 214 | 107 | 200 | 6.15 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 85.3 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 93.4 | % 49.1-14 | 8 | | | | | | |

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Analytical Results For:

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

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

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

Project Number: 24E-04918

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

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

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

| BTEX 8021B | mg/kg | | Analyzed By: JH | | | | | | |
|--------------------------------------|----------------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.11 | 105 | 2.00 | 5.57 | |
| Toluene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.15 | 108 | 2.00 | 6.58 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.08 | 104 | 2.00 | 7.07 | |
| Total Xylenes* | <0.150 | 0.150 | 11/29/2024 | ND | 6.53 | 109 | 6.00 | 6.96 | |
| Total BTEX | <0.300 | 0.300 | 11/29/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 108 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg/kg | | Analyzed By: KV | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 96.0 | 16.0 | 12/02/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/kg | | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 209 | 104 | 200 | 5.52 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 214 | 107 | 200 | 6.15 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 81.4 % 48.2-1. | | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 89.2 | % 49.1-14 | 8 | | | | | | |

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Celey D. Keine



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Analytical Results For:

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

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

Reported: 12/03/2024 Sampling Type: Soil

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

Project Location: XTO

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

| BTEX 8021B | mg/ | 'kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.11 | 105 | 2.00 | 5.57 | |
| Toluene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.15 | 108 | 2.00 | 6.58 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.08 | 104 | 2.00 | 7.07 | |
| Total Xylenes* | <0.150 | 0.150 | 11/29/2024 | ND | 6.53 | 109 | 6.00 | 6.96 | |
| Total BTEX | <0.300 | 0.300 | 11/29/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 108 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg/ | 'kg | Analyze | d By: KV | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 12/02/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 209 | 104 | 200 | 5.52 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 214 | 107 | 200 | 6.15 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 83.7 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 92.0 | % 49.1-14 | 8 | | | | | | |

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

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

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

Project Number: 24E-04918

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

Sampling Type: Soil

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

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

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.11 | 105 | 2.00 | 5.57 | |
| Toluene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.15 | 108 | 2.00 | 6.58 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.08 | 104 | 2.00 | 7.07 | |
| Total Xylenes* | <0.150 | 0.150 | 11/29/2024 | ND | 6.53 | 109 | 6.00 | 6.96 | |
| Total BTEX | <0.300 | 0.300 | 11/29/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 105 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: KV | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 12/02/2024 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | 'kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/27/2024 | ND | 209 | 104 | 200 | 5.52 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/27/2024 | ND | 214 | 107 | 200 | 6.15 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/27/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 82.0 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 89.3 | % 49.1-14 | 8 | | | | | | |

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

| S-06 | The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's. |
|-------|--|
| S-05 | The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected. |
| S-04 | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. |
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. |
| GC-NC | 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND. |
| BS-3 | Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

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Celeg D. Kreene

Celey D. Keene, Lab Director/Quality Manager



| Sempler UPS - Bus - Other | | Relinquished By: | year. A casts modely these for tagginera as the material during to stage for hoose the consistent artists out the material to be | <u> </u> | | 03 | | | 200 | | >0 | 10 -62Hg | Lab I.D. Sar | -1 | Sampler Name RIV | Name DI | Project # 246-04918 | Phone # | consbud | Address: 3101 Boyd | Project Manager (hold |
|--|---|--|--|-------------|----|-------|-------|-------|-------|-------|-------|-------------|------------------------------|-------------------|-------------------------|----------------------|---------------------|--------------------------|-----------|--------------------|------------------------|
| 15 15 | Date: 7. CC | Date 1. 27 | Section and sections in the control of the control | L 0' | 4. | + | 0,- | 4.0 | 10 | + | | 80' | Sample I.D. | 11000 | PINNAL SU SI | 30- | | Fax | State: NM | SA | Hensley |
| Sample Condition Cool Intact C | Received By: | Received By: | emek sales mass mass t ethiq en ethic mission cumas manupions o that reprises of matherate out out o | 44 4 | | | | | | | | - × | WASHWATES OIL SETIOGE | MATRIX | | | Amy Ruth | | 02788 =12 | | |
| P The | 78.0 | Ve Al | Seed of the or other through the output of the court of the other output of the other output of the other or other other output of the other other output of the other | ÷ = | | | | | | | | 11.22.24 | OTHER ACIDIBASI OTHER | PRESERV. SAMPLING | Phone E S / J Day / Jan | State: NWI ZIP 88CCO | CITY CONTSHAD | Address 3104 E Greene ST | Attri | Company: X70 | P.O. #. |
| 1# | Traiser # NAT | | osfor of the appropriate in subsidiaries of contracts. | 11:16 A A A | | 11:07 | 11:03 | 10:56 | 25:01 | Ch.0/ | 10.40 | 10:35 X X X | Chloride TPH (Gro BTex | 1 | | 1 | | | | | |
| 1115 | # WATTO TE 137 12 COde # 2007 120 137 | Elease provide Email address RP1099-4 QUETTEX TESOWITCE, LOW | | | | | | | | | | | | | | | | | | | |

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

01 East Mariand, Hobbs, NM 88240 575 383-2326 FAX 575 383-2476

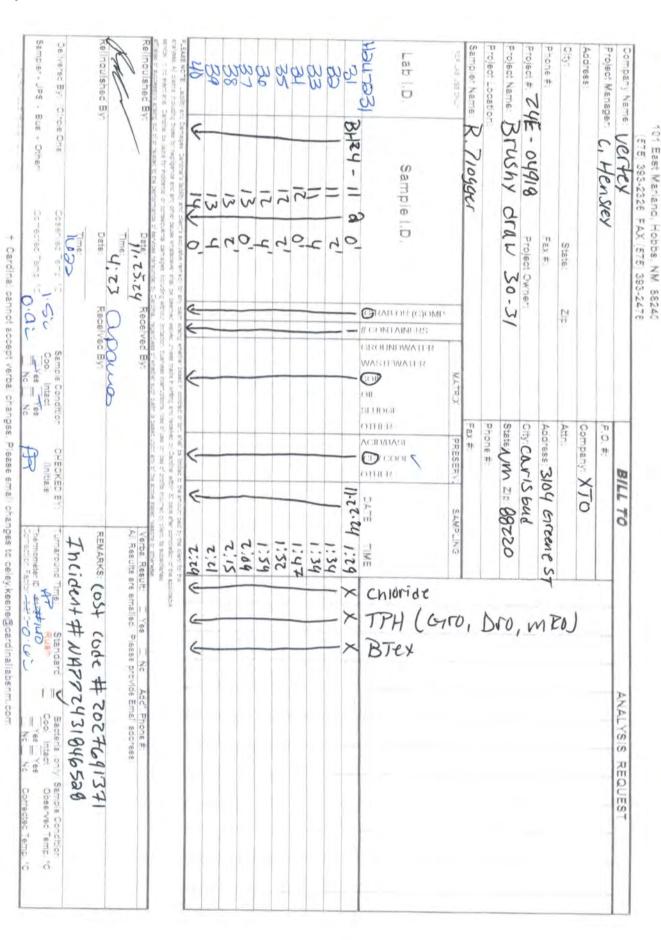
Relinquished By Sample - UPS - Bus - Other De lyered By Set her Project # 246-04918 Project Manager C. Project Name: Brushy draw rolect Location Address: 3101 Boyd dr 00 ampier Name. ompany Name: 50 を小きな nquished By: 19 carisbad ö Circle One - H2H8 vertex R. 71099-61 Hensley Sample I.D 060 2228 Comedies Temp h2: h9 Project Owner. FEX # 75. 25. 24 Received By 8-3 ren 20.05 3.0 Received By: ORVB OB (C)OWD Amy Danes No. Ruth 11() sa Oroca OTHER F2X = on agrished Phone # 92288 dz w/V: stats ADDITIONS 3104 & GREENE Att 0 AGID/BASI 39 CHECKED BY OTHER BILL TO X70 02:11 hz-22-/1 SAMPLING Verba Result: Yes No Add Phone # REMARKS: (05+ code # 202769137) Incident # NA777431846528 hs:11 11:43 01.21 11:59 11:49 12:15 15.11 11:33 82:11 chioride TPH (Gro, Dro, Mro) BTex ANALYSIS Bacteria only Sample Cond
Cool Intact Observed To
Yes Yes Observed To REQUES Claserved Temp. ô

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

Page 55 of 59

101 East Mariano, Hobbs, NM 88240

| | 000-4040 100 010 000-4010 | 0.147-00 | | | |
|---|---------------------------------------|--------------------|---|----------------------------|--|
| | to | | | | ANALYSIS REQUEST |
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| Selinguished By: | 12.52 W | 24 Received By: | | Verbal Result: Yes | No Add' Phone#: |
| Na | £2:h:23 | | | | |
| Relinquished By: | Date | Received By: | | REMARKS: COS+ COOC | 12 Siboy 202 # 200 |
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| Sampler UPS - Bus - Other | ent commented ent | 000 | | precise Factor SET -0 -0 C | |
| A STANDARD STANDARD | t Carrie | | and Birana amai aban | | |



01 East Mariand, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

S OKG

Sampler . UPS . Bus . Other Delivered By Sampler Name. Project Manager: Address 00 roject Location TO | 601 # roject Name 27 AN CJ 46 Bh 8M ished By D 816ho-362 Circle One Brushy Drav vertex C. Hensley 710945 Sample I.D TOE E WWW I 2 CC 1) Conscient Ferry ST FAX (575) 393-2476 2000 Project Owner 23.7 State 75.29 30-3 200 Keceived By ORAH DR (C)OMP N # CONTAINERS SECTION WATER Cool Intact Sample Condition WASHIWATER COX CALYN (III) SLUFFICE SERIEO Fax # State: Nm ZID 86220 CAMS bad Atte P.O. # ADDRESS 3104 Greene Company ACID/BASI PRESER (D) (COO) 5 HECKED B STRILL OTHER B BILL TO h2.22.11 1451694202 # 500 450 1501 3117 BESONBIE harden # tupious 3:1) Results are emailed. Please provide Email address 3:05 11:5 2:53 2:47 J. 49 7 55.72 RESULT Chloride × TPH (Gro, Dro, MRO) BTex 38 ANALYS Badder's only
Cool intact
Ves Yes
No O REQUEST Observed Temp. ó



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

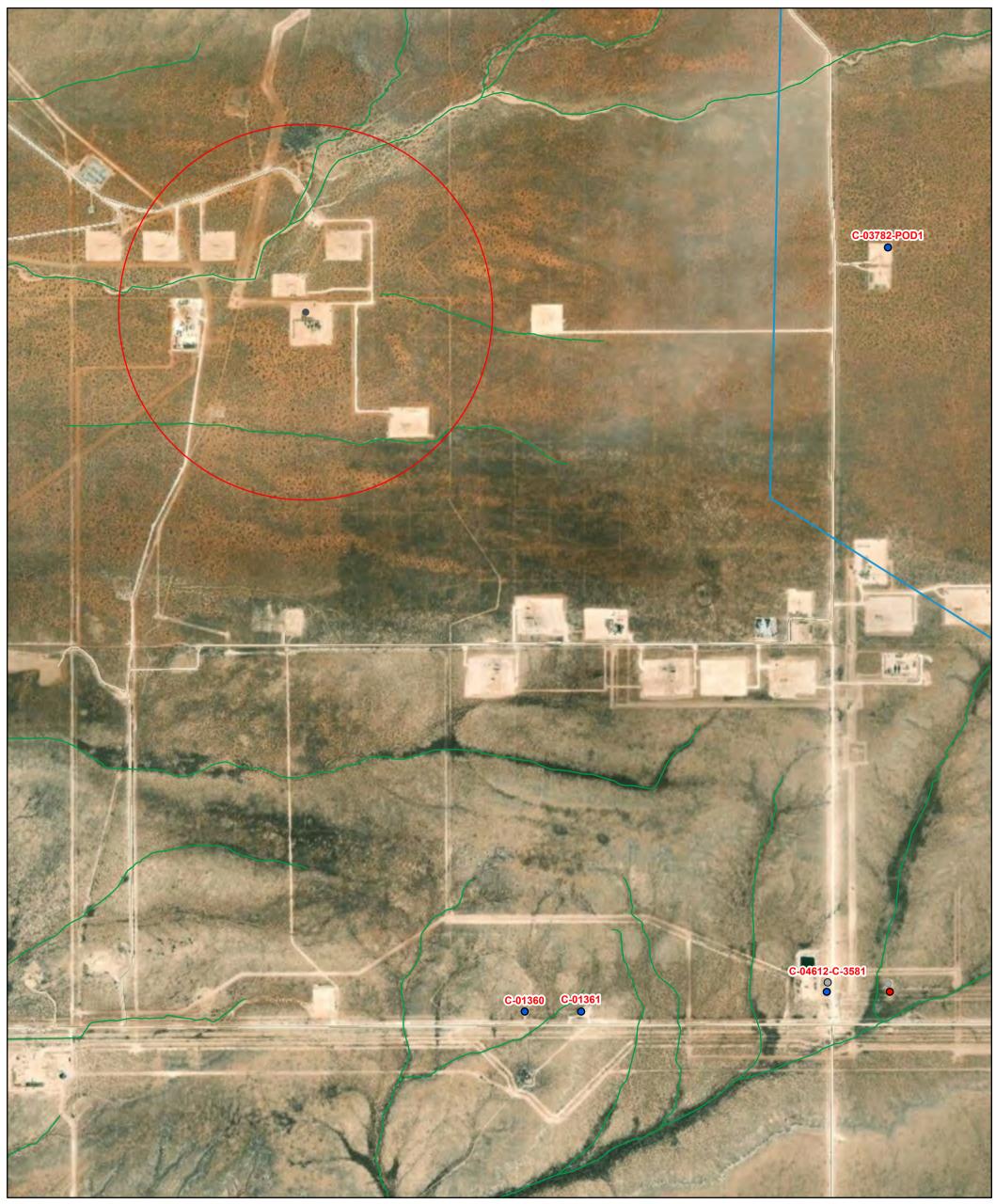
Page 59 of 59

| Delivered By: (Circle One) Sampler - UPS - Bus - Other: | | Relinquished By: | Relinquished By: | analyses. All claims including service in no event shall Ca affiliates or successors arising | PLEASE NOTE: Lability and Darmages | | | N | Lab I.D. | FOR LAB USE ONLY | Sampler Name: | Project Location: | Project Name: | Project #: 746-04918 | Phone #: | City: | Address: | Project Manager: | Company Name: |
|--|-----------------|--------------------|-----------------------------------|---|--|---|--|--------------|---|------------------|---------------|-------------------|---------------------------------|------------------------|-----------------------|--------|--------------|------------------|------------------|
| Observed Temp Corrected Temp | Time: | Date: | | those for negligence and any other cal final be liable for incidental or consequipul, of or related to the performance of | Cardina's lability and client's early | | | BHZ4-17 8 4. | Sample I.D. | | | n: | Project Name: BRUSHY DRUV 30-31 | E-04918 Project Owner: | Fax#: | State: | | er: | 8. |
| Sample Condition Cool Intact Cool Ves No No | | Received By: | A Received By: | equipo, e seeso e estado de como seeso e el cuente seeso e estador e escolar e estador e estador e estador e e La como estador e estador e en el como estador e en el como estador e estador e en el como estador e en el como estador e en el como estador e el como estador e en el como estador e el como el como estador e | and a state of the | | | _ | # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE | MATRIX | | | 3) | /ner; | | Zip: | | | |
| checked by: | | | | or tori, areas on entrand in the amount part of received by Cardinal within 30 days after loss of use, or loss of profits incurred by a is based upon any of the above stated to | sale to the second | | | h2.23-11 × | OTHER: ACID/BASE: ICE / GOOL \ OTHER | PRESERV. SAN | | Phone #: | State: //mZip: 88220 | city: Carls bad | Address: 3/04 Greenes | Attn: | Company: XTO | P.O. #: | BILL TO |
| Turnaround Time: Standard Thermometer D + 13/2 / 1/2 / Correction Factor +65°C-D - (4°C) | Toridont | REMARKS: | Verbal Result: All Results are | on, the amount pass by the cleans to the within 30 days after completion of the applicable profits incurred by client, its subadianes the atome stated reasons or otherwise. | A Particular of the Control of the C | | | 20.4 4 | TIME | SAMPLING | | | 022 | | Treenest | | | | |
| 5 29 | | 120 | It: | ppicable | | - | | × | Chloride TPH (G | 200 | | 10 | Λ. | | 70 | 1 | | _ | |
| Stan | # | | Yes [| | | | | × | BTex | 1.0 | 1 | ,,, | , | 44/ | , , |) | | | |
| Standard | 477 | # | □ No ase provid | | | | | | D | | | | | | | | | | |
| Bacteria (only) Cool Intact Yes Yes | BESSHAICHZECON# | 10dr # 707 7601371 | Verbal Result: | | | | | | | | | | | | | | | | ANALYSIS REQUEST |
| Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Ves Yes No Corrected Temp. °C | ٠, | 14 | | | | | | | | | | | | | | | | | UEST |

ATTACHMENT 5

| Closure C | Criteria Determination | | | |
|-----------|---|----------------|-----------------------------------|-----------|
| | e: Brushy Draw 30-31 Fed Battery | | | |
| | Coordinates: 32.091960,-103.918838 | X: 602022 | Y: 3551140 | |
| Site Spec | ific Conditions | Value | Unit | Reference |
| | Depth to Groundwater (nearest reference) | 100- | 500 ft | |
| 1 | Distance between release and nearest DTGW reference | 1- | 5 mi | 1 |
| | Date of nearest DTGW reference measurement | January | 17, 2015 | 1 |
| 2 | Within 300 feet of any continuously flowing watercourse or any other significant watercourse | 500 - | 2 | |
| 3 | Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark) | 1- | 3 | |
| 4 | Within 300 feet from an occupied residence, school, hospital, institution or church | 5m | 4 | |
| 5 | i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or | 1- | 5 | |
| | ii) Within 1000 feet of any fresh water well or spring | 1 - | 5 mi | 5 |
| 6 | Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves | No | (Y/N) | 6 |
| 7 | Within 300 feet of a wetland | 1 - | 5 mi | 7 |
| | Within the area overlying a subsurface mine | No | (Y/N) | |
| 8 | Distance between release and nearest registered mine | 5n | ni < | 8 |
| 9 | Within an unstable area (Karst Map) | Low | Critical High Medium Low | 9 |
| | Distance between release and nearest unstable area | 1- | 5 mi | |
| | Within a 100-year Floodplain | >500 | year | |
| 10 | Distance between release and nearest FEMA Zone A (100 year Floodplain) | 500 - | 1000 ft | 10 |
| 11 | Soil Type | Fine sand, sa | ndy clay loam | 11 |
| 12 | Ecological Classification | Loam | y sand | 12 |
| 13 | Geology | Eolian and pei | dmont deposits | 13 |
| | NMAC 19.15.29.12 E (Table 1) Closure Criteria | <50' | <50' 51-100' >100' | |

OSE POD 0.5 Miles



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

Active

Plugged

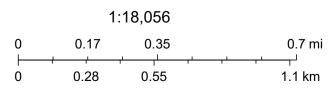
Water Right Regulations

Artesian Planning Area

NHD Flowlines

Stream River

OSE District Boundary



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

Water Column/Average Depth to Water

| (A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) | (R=POD has been replaced, O=orphaned, C=the file is closed) | | | | ers are | raost) | | | | (NAD83 UTI | M in motors) | | | (In feet) | (In feet) | (In feet |
|---|--|--------------|--------|-----|---------|--------|-----|-----|-------|------------|--------------|-----|----------|---------------|-------------------|---------------------|
| POD Number | Code | Sub basin | County | Q64 | Q16 | Q4 | Sec | Tws | Range | | Y | Мар | Distance | Well Depth | Depth Water | Water Column |
| <u>C 03782 POD1</u> | | CUB | ED | SE | SW | SW | 28 | 255 | 30E | 604525.7 | 3551444.2 | | 2522 | 805 | 277 | 528 |
| <u>C 01360</u> | | CUB | ED | SE | SW | SW | 05 | 26S | 30E | 602996.6 | 3548152.0 | • | 3142 | 770 | 173 | 597 |
| <u>C 04705 POD1</u> | | CUB | ED | NE | NW | NE | 35 | 25S | 29E | 598866.5 | 3551191.8 | • | 3155 | | | |
| <u>C 01361</u> | | CUB | ED | SW | SE | SW | 05 | 265 | 30E | 603240.4 | 3548157.5 | • | 3221 | 775 | 184 | 591 |
| <u>C 03581 POD1</u> | | CUB | ED | SE | SE | SE | 05 | 265 | 30E | 604298.2 | 3548291.8 | • | 3646 | 800 | 320 | 480 |
| <u>C 03483</u> | | С | ED | SE | SE | SE | 05 | 26S | 30E | 604296.3 | 3548251.4 | • | 3676 | 700 | 200 | 500 |
| <u>C 04558 POD1</u> | | CUB | ED | SW | SE | SW | 23 | 25S | 29E | 598353.7 | 3553039.4 | • | 4130 | | | |
| <u>C 04529 POD1</u> | | CUB | ED | NW | SW | NW | 18 | 25S | 30E | 601076.9 | 3555733.7 | • | 4689 | | | |
| <u>C 04755 POD2</u> | | CUB | ED | SE | NW | SW | 12 | 265 | 29E | 599857.0 | 3546955.1 | • | 4711 | 25 | | |
| <u>C 04720 POD1</u> | | CUB | ED | SE | NW | SW | 12 | 265 | 29E | 599807.3 | 3546968.8 | • | 4722 | | | |
| C 04755 POD1 | | CUB | ED | SE | NW | SW | 12 | 265 | 29E | 599787.4 | 3546971.4 | • | 4729 | 40 | | |
| C 04720 POD4 | | CUB | ED | SE | NW | SW | 12 | 265 | 29E | 599812.4 | 3546955.0 | • | 4732 | | | |
| <u>C 04720 POD2</u> | | CUB | ED | SE | NW | SW | 12 | 26S | 29E | 599835.7 | 3546932.1 | • | 4741 | | | |
| C 04720 POD3 | | CUB | ED | SE | NW | SW | 12 | 265 | 29E | 599835.7 | 3546932.1 | • | 4741 | | | |
| <u>C 04720 POD5</u> | | CUB | ED | SE | NW | SW | 12 | 265 | 29E | 599840.0 | 3546920.4 | • | 4750 | 20 | | |
| <u>C 04720 POD6</u> | | CUB | ED | SE | NW | SW | 12 | 26S | 29E | 599857.7 | 3546880.9 | • | 4777 | 31 | | |
| <u>C 04755 POD3</u> | | CUB | ED | SE | NW | SW | 12 | 26S | 29E | 599747.8 | 3546862.3 | • | 4844 | 103 | | |
| | | | | | | | | | | | | | | Average [| Depth to Wa | ter: 230 f є |
| | | | | | | | | | | | | | | Minimum | Depth: 173 | feet |
| | | | | | | | | | | | | | | Maximum | Depth: 320 |) feet |
| 4 | | | | | | | | | | | | | | | | > |

Record Count: 17

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

Easting: 602022 Northing: 3551140 Radius: 005000

* UTM location was derived from PLSS - see Help

Received by OCD: 12/17/2024 12:23:48 PM
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12/11/24 6:21 AM MST Water Column/Average Depth to Water

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Point of Diversion Summary

| | | | are smallest to | 3=SW 4=SE largest | | | | NAD83 UTM | | | |
|----------------------|----------------------|---------------|-----------------|----------------------|--------|-------|--------|-------------|-----------|---------------------|----------|
| Well Tag | POD Nbr | Q64 | Q16 | Q4 | Sec | Tws | Rng | х | Υ | Мар | |
| | C 03782 POD1 | SE | SW | SW | 28 | 25S | 30E | 604525.7 | 3551444.2 | • | |
| ' UTM location | n was derived from P | LSS - see Hel | р | | | | | | | | |
| Driller License: | 331 | Driller (| Company: | SBQ2, L | LC DBA | STEWA | RT BRO | THERS DRILL | ING CO. | | |
| Driller Name: | STEWART, JO | OEL H. | | | | | | | | | |
| Drill Start Date: | 2015-01-16 | Drill Fir | nish Date: | 2015-01 | 1-17 | | | | ı | Plug Date: | |
| Log File Date: | 2015-02-19 | PCW Ro | v Date: | | | | | | 9 | Source: | Artesian |
| Pump Type | :: | Pipe Di | scharge | | | | | | | Estimated /ield: | |
| Casing Size | e: 8.63 | Depth \ | Well: | 805 | | | | | I | Depth Water: | 277 |

Water Bearing Stratifications:

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

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

Casing Perforations:

| Тор | Bottom |
|-----|--------|
| 270 | 805 |

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

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

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

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

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| NOI | POD-1 | Ren | LL NUMBER) | C-3832-POD2 | | OSE FILE NU | ex Ploratory | Penumbere) (-383 | d 2 | | |
|----------------------------------|-----------------------|--------------------------|----------------------------------|---|------------------|--------------------------|-------------------------------------|--------------------------------------|--------------------------|--|--|
| OCAT | BOPCO, | ` ' | 1 | | | PHONE (OPTI (817) 390 | , | | | | |
| WELL I | 1 | er mailing ain St Sui | | | | Fort Wort | h | TX 7610 | ZIP 02 | | |
| GENERAL AND WELL LOCATION | WELL | | DEGREES TITUDE 32 | MINUTES SE 05 40.1 | CONDS N | | REQUIRED: ONE TENTH OF A SECOND | | | | |
| NER | (FROM G | LO | NGITUDE 103 | 53 32.2 | | | QUIRED: WGS 84 | trong was a second of the second of | | | |
| 1. E | 1 | | | raddress and common Landmark n 28, Township 25 South, | | | | oad. | | | |
| | LICENSE N | UMBER | NAME OF LICENSED Joel H. Stewart | DRILLER | W | | NAME OF WELL DR SBQ Drilling, LI | | | | |
| | DRILLING S 01-16-1 | | l l | DEPTH OF COMPLETED WELL (FT) | BORE HO! ±805 | LE DEPTH (FT) | DEPTH WATER FIR | ST ENCOUNTERED (FT | | | |
| z | COMPLETE | D WELL IS: | ARTESIAN | C DRYHOLE C SHALLOW | (UNCONFINED) | | STATIC WATER LEV | VEL IN COMPLETED WI | ILL (FT) | | |
| MATIO | DRILLING I | | | MUD ADDITIVE C HAMMER C CABLE TO | S - SPECIFY: | R - SPECIFY: | | | | | |
| OR | DRILLING | | ROTARY | | | R - SPECIFY: | | 1 | | | |
| 2. DRILLING & CASING INFORMATION | FROM | (feet bgl) | BORE HOLE DIAM (inches) | CASING MATERIAL AND/ GRADE (include each casing string, a note sections of screen) | CASING | | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) | SLOT SIZE (inches) | | |
| C | O | 270 | 14.75 | AS1M A53B | Welded | i | 8.625 | 0.322 | 35 | | |
| ğ | 270 | 805 | 14.75 | 304 Stainless Steel | Welded | Welded 8.625 | | 0.25 | [IZ16 | | |
| LL | U . | 15 | 19 | ASIM A53B | 4-4 | | 16 | 0.25 | | | |
| DRI | | | | | | | | · 4000 | <u> </u> | | |
| .5. | | | | | | | | | | | |
| | | | | | | | | -0.00 | | | |
| | | | | | | | · | i in | 19 | | |
| | | | | | | | | | And property | | |
| | DEPTH | (feet bgl) | BORE HOLE | LIST ANNULAR SEA | AL MATERIAL A | AND | AMOUNT | метно | D OF | | |
| A.L. | FROM | ТО | DIAM. (inches) | GRAVEL PACK SIZE-F | ANGE BY INTE | RVAL | (cubic feet) | PLACE | | | |
| ERL | 0 | 120 | 14.75 | Sand Mix Ready Mix | | | 90.36 | grav. trem | ie meas. | | |
| [V] | 120 | 170 | 14.75 | Hydrated Bentonite Chi | ps | | 35.90 | grav. trem | e meas. | | |
| ANNULAR MATERIAL | 170 | 805 | 14,75 | 6/9 Silica Sand | | | 455.95 | Tremie Pip | Tremie Pipe | | |
| 3. ANNU | | | | | | * * | | | | | |
| | | | | | | | | | | | |
| FOR | OSE INTER | NAL USE | Renumbere | d from C-3782. | P001 | | | & LOG (Version 06/0 | 8/2012) | | |
| Fill | NUMBER | L-38. | 32 | POD NUM | IBER POD | 2. TRN] | NUMBER 5 55 | 125 | 1075 | | |
| LOC | CATION | フノッノ | 278 724 | 7 | | | | PAGE | 1 OF 2 | | |

| | DEPTH (feet bgl) THICKNESS FROM TO (feet) | | 1 | COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONE (attach supplemental sheets to fully describe all units) | WATER BEARING? (YES/NO) | ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm) | | | | |
|--|--|-------------|----------------------------------|---|--|--|--|--|--|--|
| | n | 30 | OYON | ZOIVES (gpm) | | | | | | |
| | 0 30 30 | | | Cemented Sand, light tan, sub-angular Sandy Silt, light brown, sub-angular | $\begin{array}{c c} & O & A & O & M \\ \hline & O & I & O & M \\ \hline \end{array}$ | | | | | |
| | 30 40 10 40 60 20 | | 20 | Sandy Silt, light Brown, sub-arigular Sandy Clay, reddish brown | $\begin{array}{c c} \hline \\ \hline $ | | | | | |
| | | | | Silty Sand, light brown, sub-angular | OYON | | | | | |
| | 80 250 170 | | | Fine to Medium Sand, light tan, sub-angular to rounded | $\begin{array}{c c} & & & \\ \hline & & & \\ \hline & & & \\ \hline \end{array}$ | | | | | |
| | 250 | 260 | 10 | Clayey Sand, brown, sub-angular | O Y O N | | | | | |
| ELI | 260 | 320 | 60 | Fine Sand, light tan, sub-angular | © Y O N | | | | | |
| 4. HYDROGEOLOGIC LOG OF WELL | 320 | 380 | 60 | Silty Sand, brownish gray, sub-angular | © Y O N | | | | | |
| 000 | 380 | 410 | 30 | Fine Sand, dark gray, sub-angular | ● Y O N | · · · · · · · · · · · · · · · · · · · | | | | |
| CIC | 410 | 530 | 120 | Clayey Fine Sand, dark gray, sub-angular | ● Y C N | | | | | |
| ÖC | 530 | 590 | 60 | Sandy Clay, dark gray, sub-angular | © Y O N | | | | | |
| JO: | 590 | 600 | 10 | Clayey Fine Sand, dark gray, sub-angular | © Y O N | | | | | |
| 503 | 600 | 630 | 30 | Sandy Clay, dark gray, sub-angular | © Y O N | | | | | |
| YDE | 630 | 650 | 20 | Clayey Sand, dark gray, sub-angular | ● Y O N | | | | | |
| 4. H | 650 | 700 | 50 | Sandy Clay, dark gray, sub-angular | © Y O N | | | | | |
| | 700 | 710 | © Y O N | · · · · · | | | | | | |
| | 710 760 50 | | 10 50 | Clayey Sand, brown and gray, sub-angular Sandy Clay, dark gray, sub-angular | © Y O N | · | | | | |
| | 760 770 10 | | | Clay, 75% gray, 25% red | © Y O N | | | | | |
| | 770 | © Y O N | | | | | | | | |
| | 780 | 780 790 | 10 | Clay, 50% gray, 50% red Clay, 25% gray, 75% red | © Y C N | | | | | |
| | 790 | 805 | 15 | Sandy Clay, Grayish red, 10% white sand. | © Y C N | | | | | |
| | | | | OF WATER-BEARING STRATA: PUMP | TOTAL ESTIMATED | | | | | |
| | (AIR LIF | т Оі | BAILER 💽 | OTHER – SPECIFY: TBD by pump test | WELL YIELD (gpm): | TBD | | | | |
| | | | DEGLET TO A TOTAL | ACTUAL CONV. OT DATA COLVECTED DUMB TO WHILL TESTING BY | TITADIC DICOTABOLE | ETHOD. | | | | |
| z | WELL TES | T STAR | KESULIS - AII I TIME, END TII | ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INC ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OV | ER THE TESTING PERIO | AST SE | | | | |
| ISIC | MISCELLA | NEOUS INF | ORMATION: | | Title (green medical paraticle medical construction) | | | | | |
| ER | MISCELLANEOUS INFORMATION: Pump test will be performed at a later time. | | | | | | | | | |
| Sur | Hydrated Bentonite Chips and Sand Mix Ready Mix were placed by gravity and tagged with tremie pipe. | | | | | | | | | |
| TEST; RIG SUPERVISIO | | | | | | | | | | |
| ST; | DD INIT NIA N | AE(S) OE DE | OILL DIG SLIDER | VASODAS THAT DROWNED ONSITE STIDERVISION OF WHILL CON | STRIICTION OTHER TH | AN LICENSEE | | | | |
| | | | | | | | | | | |
| | Silverio Galindo, Gabriel Armijo, Pedro Pizano | | | | | | | | | |
| | THE UNDE | RSIGNED H | EREBY CERTIF | TIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELL | EF, THE FOREGOING IS | A TRUE AND | | | | |
| CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: | | | | | | IL ENGINEER | | | | |
| NAT | | _ | | | | · | | | | |
| CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE E AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE | | | | | | | | | | |
| | | | | | | | | | | |
| | 1. I was a second of the secon | | | | | | | | | |

| FOR OSE INTERNAL USE | | WR-20 WELL RECORD & LOG (Ver | sion 06/08/2012) |
|----------------------------|------------------|------------------------------|------------------|
| FILE NUMBER <i>C-383</i> 2 | POD NUMBER POD 2 | TRN NUMBER 555 125 | |
| LOCATION 25.30.28.3343 | | | PAGE 2 OF 2 |

Locator Tool Report

General Information:

Application ID:27

Date: 05-28-2015

Time: 12:01:24

WR File Number: C-03782-POD1

Purpose: POINT OF DIVERSION

Applicant First Name: BOPCO EXPLORATORY WELL DRILLERS RECORD

Applicant Last Name: RENUMBERED C-3832-POD2

GW Basin: CARLSBAD County: EDDY

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

Land Grant Name: NON GRANT

PLSS Description (New Mexico Principal Meridian):

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

Coordinate System Details:

Geographic Coordinates:

Latitude:

32 Degrees 5 Minutes 40.1 Seconds N

Longitude:

103 Degrees 53 Minutes 32.2 Seconds W

Universal Transverse Mercator Zone: 13N

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

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

N: 3,551,243 E: 604,573

NAD 1927 (Survey Feet)

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

State Plane Coordinate System Zone: New Mexico East

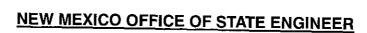
NAD 1983(92) (Meters) NAD 1983(92) (Survey Feet) NAD 1927 (Meters)

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

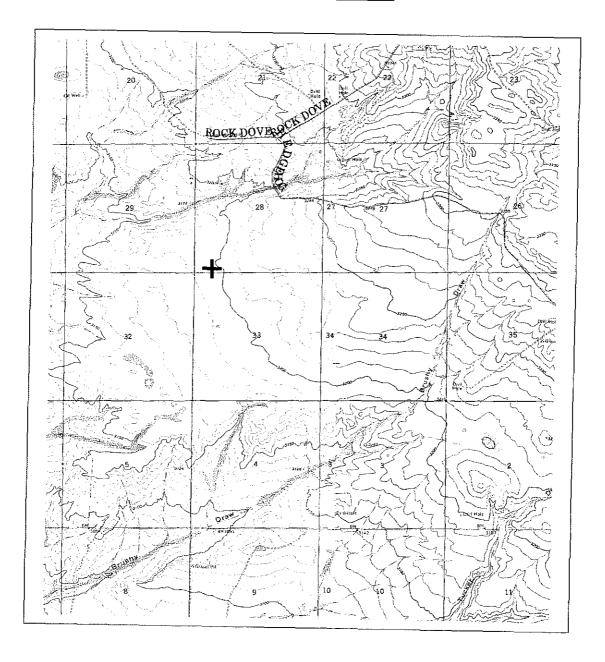
NAD 1927 (Survey Feet)

N: 398,327

E: 194,077 E: 636,734



Locator Tool Report





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

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

Northing/Easting: SPCS83(92) (Feet): N: 398,385 E: 677,920

GW Basin: Carlsbad

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

E: 604,526



Intermittent 720 feet



December 11, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

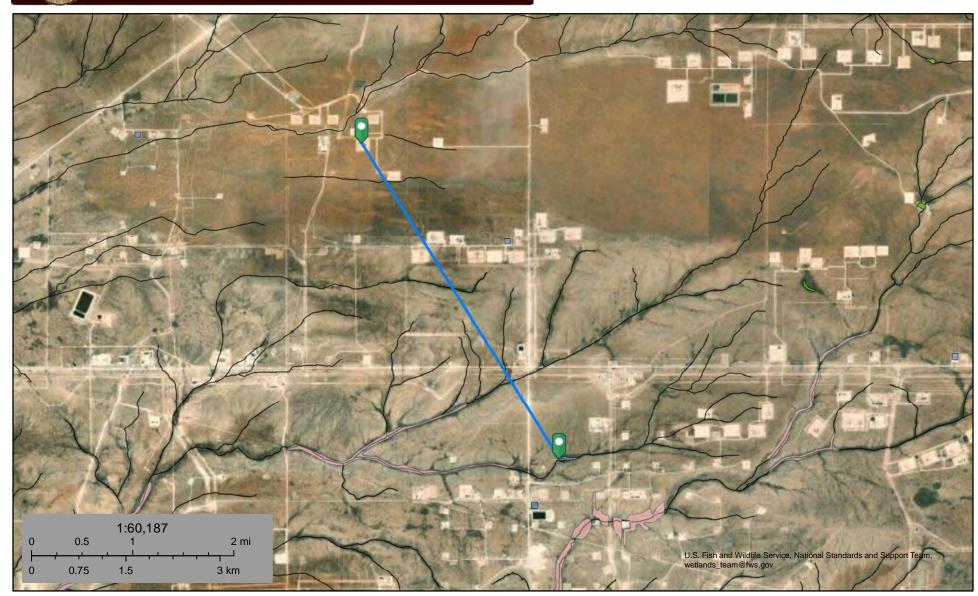
Other

Riverine

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



Pond 16,426 feet



December 11, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

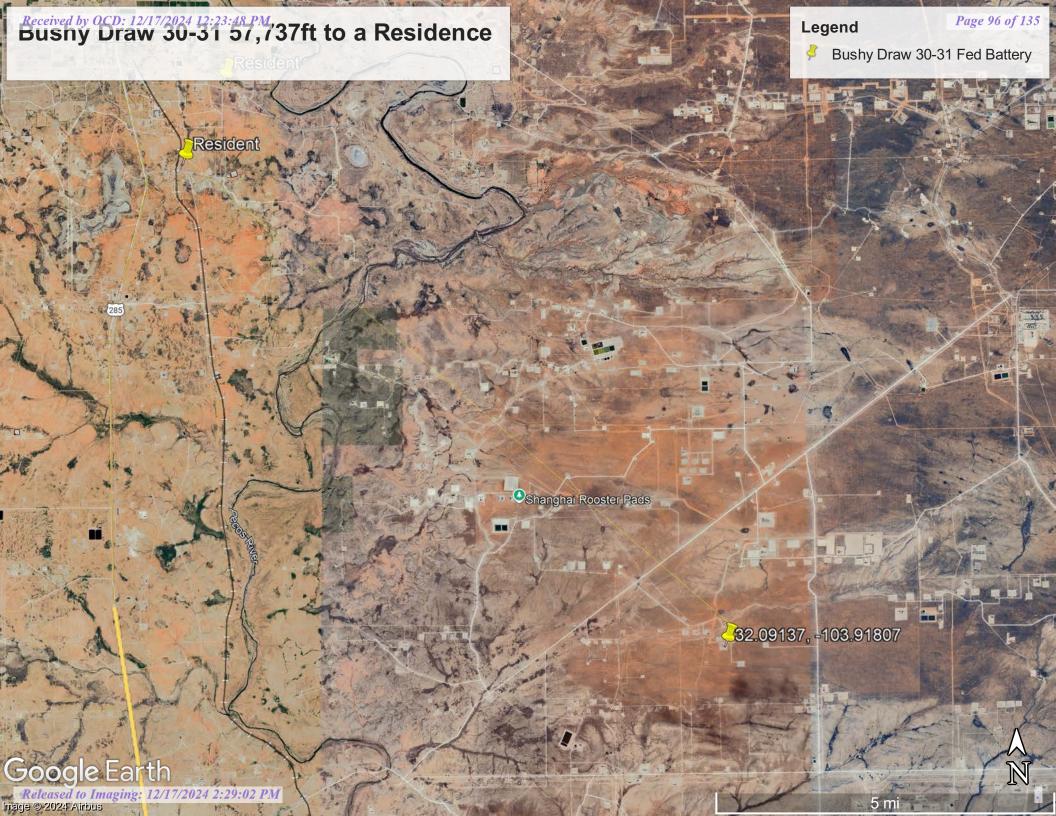


Other



Riverine

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



Active & Inactive Points of Diversion

(with Ownership Information)

| | | | (acre ft per annum) | | | | | and n | D has been replaced b longer serves this file, file is closed) | | | | =NW 2= mallest t | | W 4=SE |) | (NAD83 UTM | I 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 04394</u> | CUB | MON | 0.000 | XTO ENERGY INC | ED | C 04394 POD1 | NA | | | | SW | NE | SE | 19 | 25S | 30E | 602315.9 | 3553464.1 | • | 2,342.6 |
| <u>C 03782</u> | CUB | EXP | 0.000 | BOPCO, L.P. | ED | C 03782 POD1 | | | | Artesian | SE | SW | SW | 28 | 255 | 30E | 604525.7 | 3551444.2 | • | 2,522.1 |
| C 01360 | CUB | IND | 0.000 | EL PASO NATURAL GAS | ED | <u>C 01360</u> | | | | Shallow | SE | SW | SW | 05 | 265 | 30E | 602996.6 | 3548152.0 | • | 3,142.9 |
| <u>C 03448</u> | С | PRO | 0.000 | DEVON ENERGY CORP. | ED | <u>C 01360</u> | | | | Shallow | SE | SW | SW | 05 | 265 | 30E | 602996.6 | 3548152.0 | • | 3,142.9 |
| <u>C 03449</u> | С | PRO | 0.000 | OGX RESOURCES | ED | <u>C 01360</u> | | | | Shallow | SE | SW | SW | 05 | 265 | 30E | 602996.6 | 3548152.0 | • | 3,142.9 |
| <u>C 04705</u> | CUB | MON | 0.000 | DEVON ENERGY | ED | C 04705 POD1 | NA | | | | NE | NW | NE | 35 | 25\$ | 29E | 598866.5 | 3551191.8 | • | 3,155.9 |
| <u>C 01361</u> | CUB | IND | 0.000 | EL PASO NATURAL GAS | ED | <u>C 01361</u> | | | | Shallow | SW | SE | SW | 05 | 265 | 30E | 603240.4 | 3548157.5 | • | 3,221.8 |
| <u>C 03581</u> | CUB | EXP | 0.000 | JANEY LOREE PASCHAL | ED | C 03581 POD1 | | | | Shallow | SE | SE | SE | 05 | 265 | 30E | 604298.2 | 3548291.8 | • | 3,646.0 |
| <u>C 03608</u> | С | PRO | 0.000 | DEVON ENERGY CORP. | ED | C 03581 POD1 | | | | Shallow | SE | SE | SE | 05 | 26S | 30E | 604298.2 | 3548291.8 | • | 3,646.0 |
| <u>C 04612</u> | С | STK | 3.000 | JANEY LOREE PASCHALL DBA PASCHAL RANCH LLC | ED | C 04612 C-3581 | NA | | | | SE | SE | SE | 05 | 26S | 30E | 604298.2 | 3548291.8 | • | 3,646.0 |
| <u>C 03483</u> | С | STK | 3.000 | PASCHAL RANCH LLC | ED | <u>C 03483</u> | | | | Shallow | SE | SE | SE | 05 | 26S | 30E | 604296.3 | 3548251.4 | • | 3,676.5 |
| <u>C 03501</u> | С | PRO | 0.000 | DEVON ENERGY CO. | ED | <u>C 03483</u> | | | | Shallow | SE | SE | SE | 05 | 26S | 30E | 604296.3 | 3548251.4 | • | 3,676.5 |
| C 03502 | С | PRO | 0.000 | DEVON ENERGY CO | ED | <u>C 03483</u> | | | | Shallow | SE | SE | SE | 05 | 26S | 30E | 604296.3 | 3548251.4 | • | 3,676.5 |
| <u>C 03503</u> | С | PRO | 0.000 | DEVON ENERGY CO. | ED | <u>C 03483</u> | | | | Shallow | SE | SE | SE | 05 | 26S | 30E | 604296.3 | 3548251.4 | • | 3,676.5 |
| <u>C 03483</u> | С | STK | 3.000 | PASCHAL RANCH LLC | ED | C 03483 POD3 | | | | | SE | SW | SW | 04 | 265 | 30E | 604557.8 | 3548291.0 | • | 3,814.1 |
| | | | | | ED | C 03483 POD2 | | | | | | SW | SW | 04 | 265 | 30E | 604565.8 | 3548253.6 | • | 3,847.4 |
| <u>C 04851</u> | CUB | MON | 0.000 | COG OPERATING LLC | ED | C 04851 POD1 | NA | | | | NW | NE | NW | 24 | 25S | 29E | 599946.3 | 3554519.9 | • | 3,966.4 |
| <u>C 02441</u> | С | STK | 0.000 | BYRON W PASCHAL | ED | <u>C 02441</u> | | | | | | | | 21 | 25S | 30E | 605077.0 | 3553783.0 * | • | 4,039.6 |
| <u>C 04758</u> | CUB | MON | 0.000 | XTO ENERGY, INC. | ED | C 04758 POD1 | NA | | | | SE | SE | SE | 17 | 25S | 30E | 604096.5 | 3554651.8 | • | 4,078.8 |
| <u>C 04558</u> | CUB | MON | 0.000 | XTO ENERGY INC | ED | C 04558 POD1 | NA | | | | SW | SE | SW | 23 | 255 | 29E | 598353.7 | 3553039.4 | • | 4,130.9 |
| <u>C 04730</u> | CUB | MON | 0.000 | XTO ENERGY, INC | ED | C 04730 POD1 | NA | | | | SW | SW | NW | 27 | 255 | 30E | 606032.8 | 3552256.2 | • | 4,163.2 |
| <u>C 04529</u> | CUB | MON | 0.000 | XTO ENERGY INC | ED | C 04529 POD1 | NA | | | | NW | SW | NW | 18 | 25S | 30E | 601076.9 | 3555733.7 | • | 4,689.9 |
| <u>C 04755</u> | CUB | MON | 0.000 | DEVON ENERGY | ED | C 04755 POD2 | NA | | | | SE | NW | SW | 12 | 265 | 29E | 599857.0 | 3546955.1 | • | 4,711.8 |
| <u>C 04720</u> | CUB | EXP | 0.000 | DEVON ENERGY | ED | C 04720 POD1 | NA | | | | SE | NW | SW | 12 | 26S | 29E | 599807.3 | 3546968.8 | • | 4,722.7 |
| <u>C 04755</u> | CUB | MON | 0.000 | DEVON ENERGY | ED | C 04755 POD1 | NA | | | | SE | NW | SW | 12 | 265 | 29E | 599787.4 | 3546971.4 | • | 4,729.8 |
| <u>C 04720</u> | CUB | EXP | 0.000 | DEVON ENERGY | ED | <u>C 04720 POD4</u> | NA | | | | SE | NW | SW | 12 | 26S | 29E | 599812.4 | 3546955.0 | • | 4,732.5 |
| | | | | | ED | C 04720 POD2 | NA | | | | SE | NW | SW | 12 | 26S | 29E | 599835.7 | 3546932.1 | • | 4,742.0 |
| | | | | | ED | C 04720 POD3 | NA | | | | SE | NW | SW | 12 | 265 | 29E | 599835.7 | 3546932.1 | • | 4,742.0 |
| | | | | | ED | C 04720 POD5 | NA | | | | SE | | | | 265 | | | 3546920.4 | • | 4,750.4 |
| C 04755 | CUB | MON | 0.000 | DEVON ENERGY | ED ED | C 04720 POD6 C 04755 POD3 | NA NA | | | | SE SE | | | | 26S 26S | | | 3546880.9 3546862.3 | • | 4,777.5 |
| <u>C 04/55</u> | COB | IVIOIN | 0.000 | DETON ENERGY | LU | C 04/ 33 POD3 | INA | | | | JE | 1444 | 200 | 14 | 203 | 290 | 333141.0 | 5540002.5 | | 4,044.7 |

Record Count: 31

Filters Applied:

Point of Diversion Summary

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

* UTM location was derived from PLSS - see Help

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

Water Bearing Stratifications:

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

Casing Perforations:

| Тор | Bottom |
|-----|--------|
| 180 | 289 |
| 538 | 770 |

Meter Information

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

Meter Readings (in Acre-Feet)

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

YTD Meter Amounts:

| Year | Amount |
|------|---------|
| 2014 | 49.306 |
| 2015 | 135.716 |
| 2016 | 107.120 |

| Year | Amount |
|------|-----------|
| 2019 | 226.274 |
| 2020 | 289.500 |
| 2021 | 10776.013 |

Meter Information

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

Meter Readings (in Acre-Feet)

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

YTD Meter Amounts:

| Year | Amount |
|------|---------|
| 2014 | 30.921 |
| 2015 | 108.678 |

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

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

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Water Right Summary



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

Documents on File

(acre-feet per annum)

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

Current Points of Diversion

| C 01360 Shallow SE SW SW 05 | | |
|-----------------------------|-----------------------|----------|
| | 26S 30E 602996.6 3548 | 548152.0 |

* UTM location was derived from PLSS - see Help

Place of Use

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

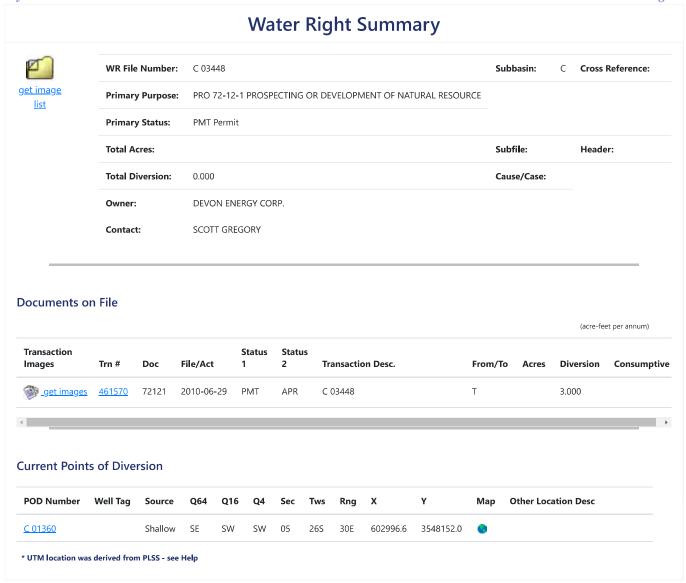
Source

| Acres | Diversion | CU | Use | Priority | Source | Description |
|-------|-----------|----|-----|----------|--------|-------------|
| 0.000 | 0.000 | | IND | | GW | |

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

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

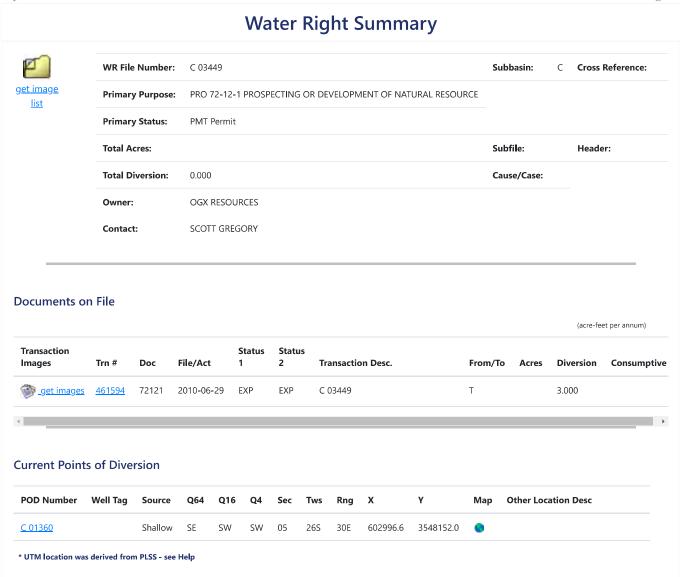
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12/11/24 8:07 AM MST Water Rights Summary

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

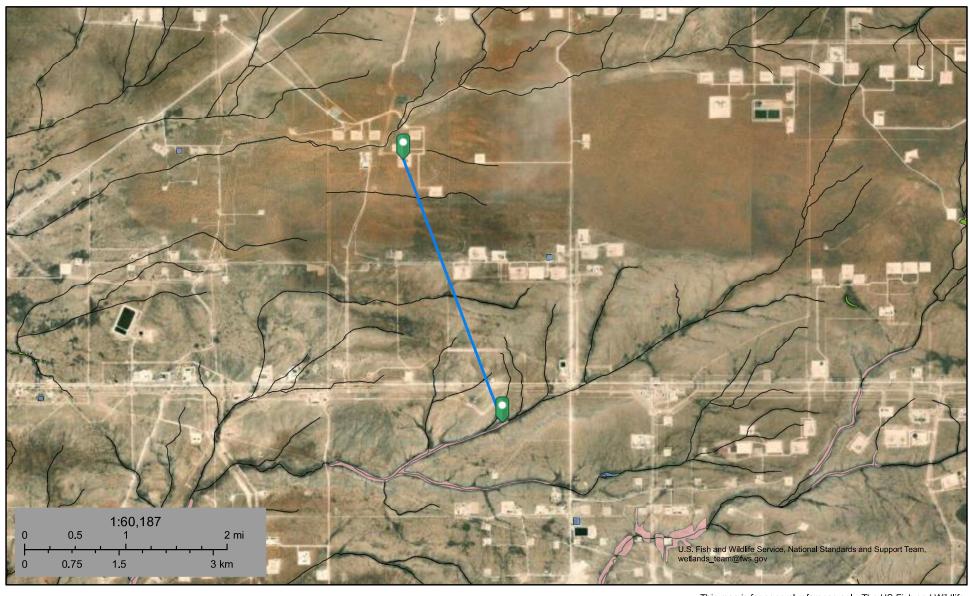
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U.S. Fish and Wildlife Service

National Wetlands Inventory

Wetland 12,393 feet



December 11, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Pond

Freshwater Forested/Shrub Wetland

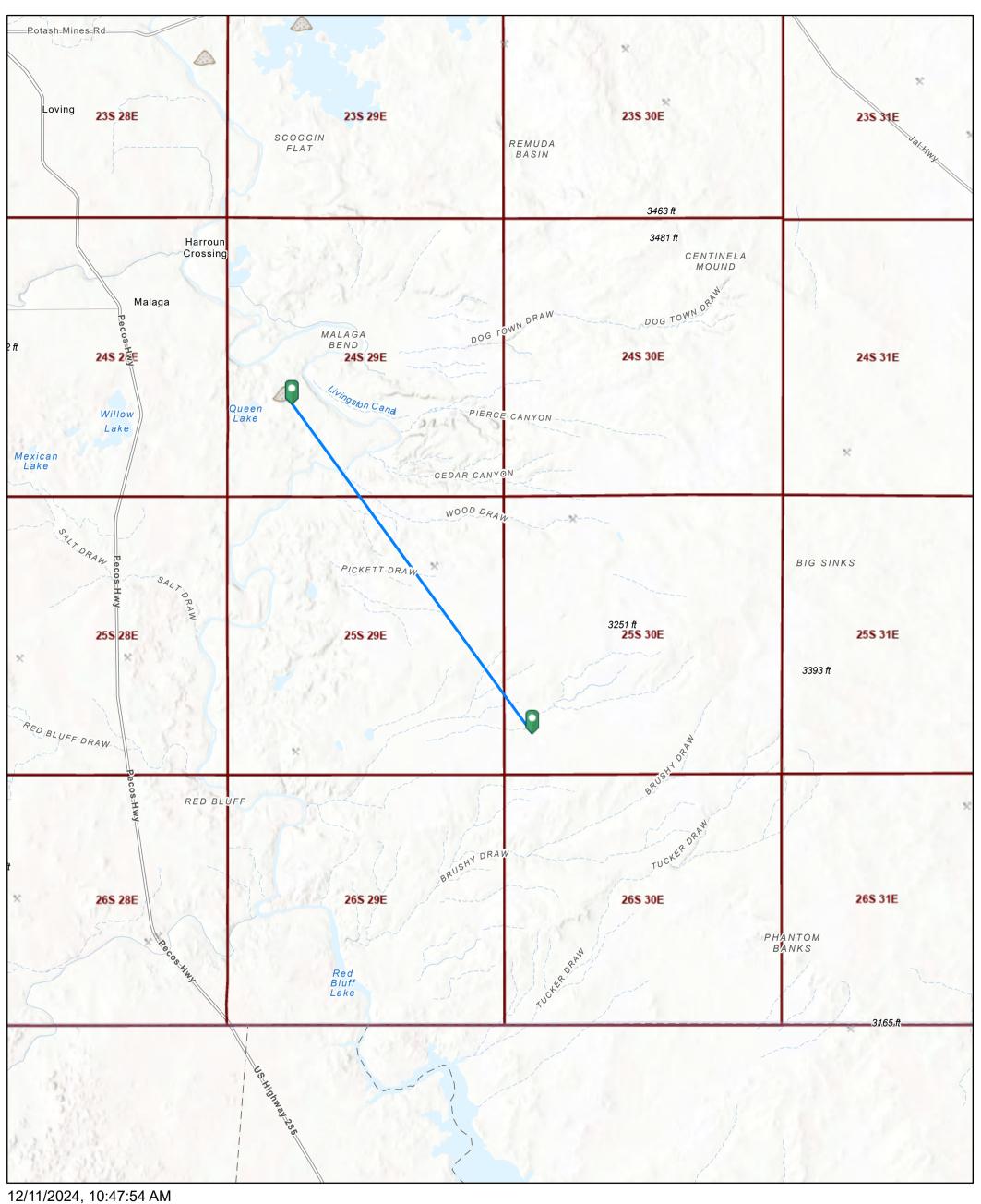
Riverine

Lake

Other

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

Salt Mine 46,820 feet



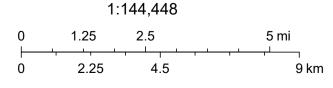
Registered Mines

Aggregate, Stone etc.

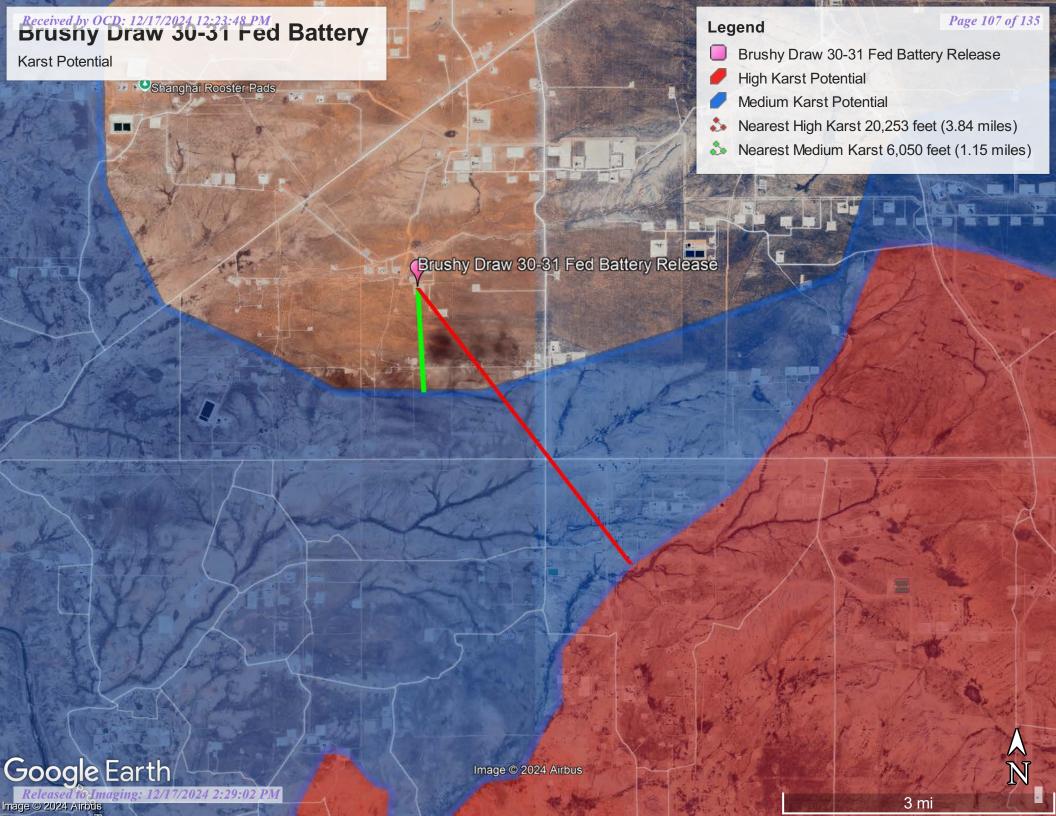
Aggregate, Stone etc.

Salt

PLSS Townships



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



Received by OCD: 12/17/2024 12:23:48 PM National Flood Hazard Layer FIRMette





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

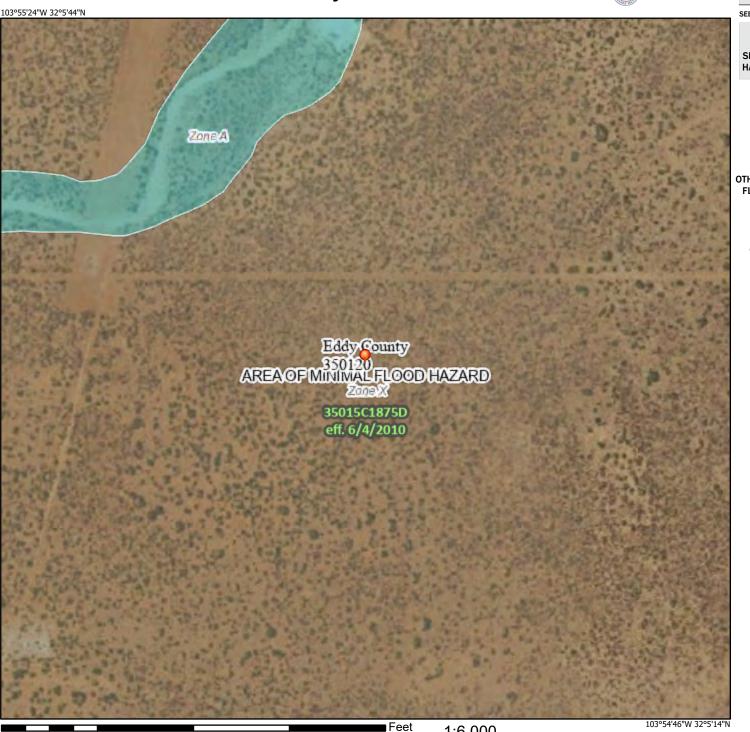
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

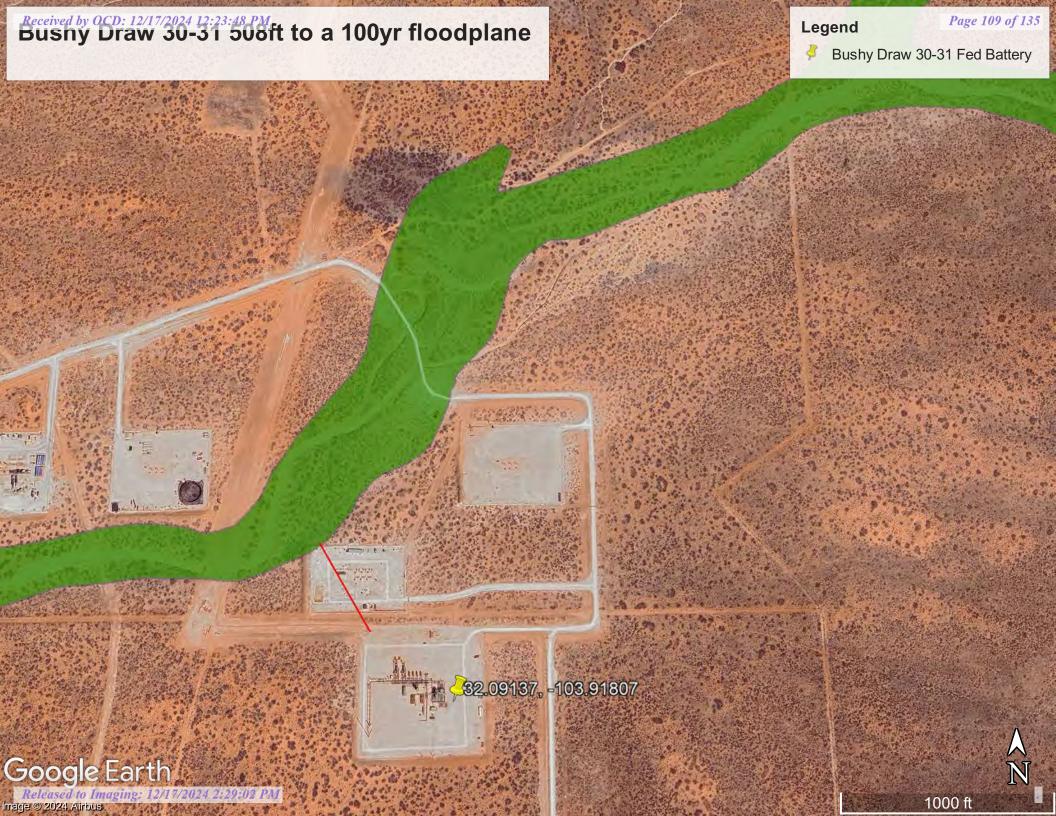
The pin displayed on the map is an approximate point selected by the user and does not represent

an authoritative property location.

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

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







NRCS

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

Custom Soil Resource Report for Eddy Area, New Mexico





MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

ဖ

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Sodic Spot

Slide or Slip

Spoil Area Stony Spot

å

Very Stony Spot

Ŷ

Wet Spot Other

Δ

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

00

Local Roads

Background

Aerial Photography

MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

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

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

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

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

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

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

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

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

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

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

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The

delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

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

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

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

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

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

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

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

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

Eddy Area, New Mexico

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

Map Unit Setting

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

Mean annual precipitation: 5 to 15 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 260 days

Farmland classification: Not prime farmland

Map Unit Composition

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

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

Description of Berino

Setting

Landform: Plains, fan piedmonts

Landform position (three-dimensional): Riser

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

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand

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

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

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

(0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

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

Sodium adsorption ratio, maximum: 1.0

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

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Description of Pajarito

Setting

Landform: Dunes, plains, interdunes

Landform position (three-dimensional): Side slope

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

Parent material: Mixed alluvium and/or eolian sands

Typical profile

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

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Very low

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

in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

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

Interpretive groups

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

Hydrologic Soil Group: A

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Minor Components

Pajarito

Percent of map unit: 4 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Wink

Percent of map unit: 4 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Cacique

Percent of map unit: 4 percent

Ecological site: R070BD004NM - Sandy

Hydric soil rating: No

Kermit

Percent of map unit: 3 percent

Ecological site: R070BD005NM - Deep Sand

Hydric soil rating: No

Soil Information for All Uses

Ecological Sites

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

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

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

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

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



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

R070BD003NM

Not rated or not available

Soil Rating Lines

R070BD003NM

Not rated or not available

Soil Rating Points

■ R070BD003NM

Not rated or not available

Water Features

Streams and Canals

Transportation

+++ Rails

Interstate Highways

 \sim

US Routes



Major Roads

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Local Roads

Background

1

Aerial Photography

MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

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

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

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

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

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



Ecological site R070BD003NM Loamy Sand

Accessed: 09/02/2024

General information

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

Figure 1. Mapped extent

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

Associated sites

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

Table 1. Dominant plant species

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

Physiographic features

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

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

Table 2. Representative physiographic features

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

Climatic features

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

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes.

The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.

The average frost-free season is 207 to 220 days. The last killing frost being late March or early April and the first killing frost being in later October or early November.

Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of this site. Strong winds blow from the southwest from January through June, which accelerates soil drying during a critical period for cool season plant growth.

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

Table 3. Representative climatic features

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

Influencing water features

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

Soil features

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

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

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

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

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

Characteristic soils are:

Maljamar

Berino

Parjarito

Palomas

Wink

Pyote

Table 4. Representative soil features

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

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

Ecological dynamics

Overview

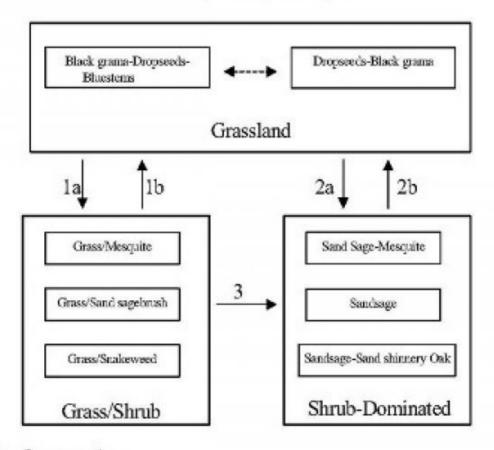
The Loamy Sand site intergrades with the Deep Sand and Sandy sites (SD-3). These sites can be differentiated by surface soil texture and depth to a textural change. Loamy Sand and Deep Sand sites have coarse textured (sands and loamy sand) surface soils while Sandy sites have moderately coarse textured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

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

State and transition model

Plant Communities and Transitional Pathways (diagram):

MLRA-42, SD-3, Loamy Sand



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

State 1 Historic Climax Plant Community

Community 1.1 Historic Climax Plant Community

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

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

Table 5. Annual production by plant type

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

Table 6. Ground cover

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

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

| J | an | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| C |) | 0 | 3 | 5 | 10 | 10 | 25 | 30 | 12 | 5 | 0 | 0 |

State 2 Grass/Shrub

Community 2.1 Grass/Shrub





*Black grams/Mesquite community, with some dropseeds, threeours, and scattered sand shimory oak *Oracs cover low to moderate

Grass/Shrub State: The grass/shrub state is dominated by communities of grasses/mesquite, grasses/snakeweed, or grasses/sand sage. Decreases in black grama and bluestem species lead to an increase in bare patches and mesquite which further competes with grass species. An increase of dropseeds and threeawns occurs. Grass distribution becomes more patchy with an absence or severe decrease in black grama and bluestems. Mesquite provides nitrogen and soil organic matter to co-dominant grasses (Ansley and Jacoby 1998, Ansley et al. 1998). Mesquite mortality when exposed to fire is low due to aggressive resprouting abilities. Herbicide application combined with subsequent prescribed fire may be more effective in mesquite reduction (Britton and Wright 1971). Diagnosis: This state is dominated by an increased abundance of communities including grass/mesquite, grass/snakeweed, or grass/sand sage. Dropseeds and threeawns have a patchy distribution. Transition to Grass/Shrub State (1a): The historic plant community begins to shift toward the grass/shrub state as drivers such as drought, fire suppression, interspecific competition, and excessive grazing contribute to alterations in soil properties and herbaceous cover. Cover loss and surface soil erosion are initial indicators of transition followed by a decrease in black grama with a subsequent increase of dropseeds, threeawns, mesquite, and snakeweed. Snakeweed has been documented to outcompete black grama especially under conditions of fire suppression and drought (McDaniel et al. 1984). Key indicators of approach to transition: • Loss of black grama cover • Surface soil erosion • Bare patch expansion • Increased dropseed/threeawn and mesquite, snakeweed, or sand sage abundances Transition to Historic Plant Community (1b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community.

State 3 Shrub Dominated

Community 3.1 Shrub Dominated

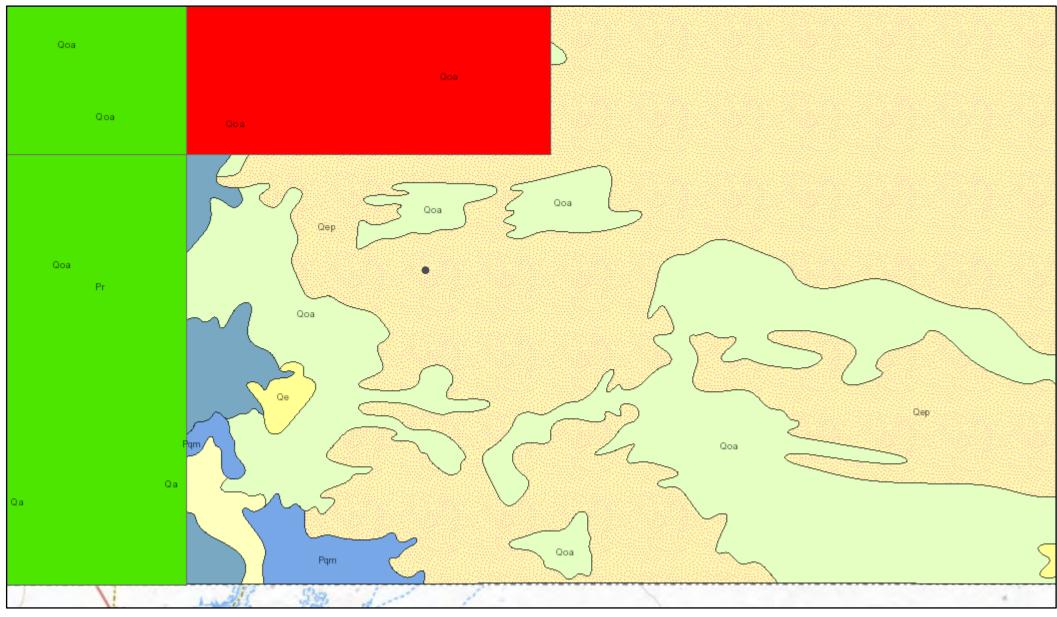
Shrub-Dominated State: The shrub-dominated state results from a severe loss of grass cover. This state's primary species is sand sage. Shinnery oak and mesquite also occur; however, grass cover is limited to intershrub distribution. Sand sage stabilizes light sandy soils from wind erosion, which enhances protected grass/forb cover (Davis and Bonham 1979). However, shinnery oak also responds to the sandy soils with dense stands due to an

aggressive rhizome system. Shinnery oak's extensive root system promotes competitive exclusion of grasses and forbs. Sand sage, shinnery oak, and mesquite can be controlled with herbicide (Herbel et al. 1979, Pettit 1986). Transition to Shrub-Dominated (2a): Severe loss of grass species with increased erosion and fire suppression will result in a transition to a shrub-dominated state with sand sage, Shin oak, and honey mesquite directly from the grassland-dominated state. Key indicators of approach to transition: • Severe loss of grass species cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite abundance Transition to Historic Plant Community (2b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community. In addition, seeding with native grass species will augment the transition to a grassland-dominated state. Transition to Shrub-Dominated (3): If the grass/shrub site continues to lose grass cover with soil erosion, the site will transition to a shrub-dominated state with sand sage, shinnery oak, and honey mesquite. Key indicators of approach to transition: • Continual loss of dropseeds/threeawns cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite/dropseed/threeawn and mesquite/snakeweed abundance

Additional community tables

| Group | Common Name | Symbol | Scientific Name | Annual Production (Lb/Acre) | Foliar Cover (%) |
|-------|---|----------|---------------------------|--|---------------------|
| Grass | /Grasslike | | | | |
| 1 | Warm Season | | | 61–123 | |
| | little bluestem | scsc | Schizachyrium scoparium | 61–123 | _ |
| 2 | Warm Season | <u> </u> | | 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 | • | • | 37–61 37–61 37–61 37–61 37–61 123–184 123–184 123–184 123–184 123–184 123–184 123–184 123–184 123–184 123–184 123–184 123–184 123–184 | |
| | black grama | BOER4 | Bouteloua eriopoda | 123–184 | _ |
| | bush muhly | MUPO2 | Muhlenbergia porteri | 123–184 | _ |
| 5 | Warm Season | <u>.</u> | • | 123–184 | |
| | thin paspalum | PASE5 | Paspalum setaceum | 123–184 | _ |
| | plains bristlegrass SEVU2 Setaria vulpiseta | | 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 | | | 123–184 123–184 123–184 123–184 123–184 123–184 123–184 | |
| | hooded windmill grass | CHCU2 | Chloris cucullata | 61–123 | _ |
| | Arizona cottontop | DICA8 | Digitaria californica | 61–123 | _ |
| 9 | Other Perennial Grasses | | | 37–61 | |
| | Grass, perennial | 2GP | Grass, perennial | 37–61 | _ |
| Shrub | /Vine | • | • | | |
| 8 | Warm Season | | | 37–61 | |
| | New Mexico feathergrass | HENE5 | Hesperostipa neomexicana | 37–61 | _ |
| | giant dropseed | SPGI | Sporobolus giganteus | 37–61 | _ |
| 10 | Shrub | • | • | 61–123 | |

13. Bushy Draw 30-31 Geology



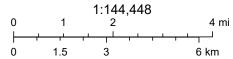
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Lithologic Units

Playa——Alluvium and evaporite deposits (Holocene)

Water—Perenial standing water

Qa—Alluvium (Holocene to upper Pleistocene)



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

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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

Action 412943

QUESTIONS

| Operator: | OGRID: |
|------------------------|--|
| XTO ENERGY, INC | 5380 |
| 6401 Holiday Hill Road | Action Number: |
| Midland, TX 79707 | 412943 |
| | Action Type: |
| | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

QUESTIONS

| Prerequisites | |
|------------------|--|
| Incident ID (n#) | nAPP2431846528 |
| Incident Name | NAPP2431846528 BRUSHY DRAW 30-31 FED BATTERY @ 0 |
| Incident Type | Release Other |
| Incident Status | Remediation Plan Received |

| Location of Release Source | |
|--|-------------------------------|
| Please answer all the questions in this group. | |
| Site Name | Brushy Draw 30-31 FED Battery |
| Date Release Discovered | 11/10/2024 |
| Surface Owner | Federal |

| ncident Details | |
|--|---------------|
| Please answer all the questions in this group. | |
| Incident Type | Release Other |
| Did this release result in a fire or is the result of a fire | No |
| Did this release result in any injuries | No |
| Has this release reached or does it have a reasonable probability of reaching a watercourse | No |
| Has this release endangered or does it have a reasonable probability of endangering public health | No |
| Has this release substantially damaged or will it substantially damage property or the environment | No |
| Is this release of a volume that is or may with reasonable probability be detrimental to fresh water | No |

| Nature and Volume of Release | |
|--|---|
| Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission. | |
| Crude Oil Released (bbls) Details | Cause: Corrosion Other (Specify) Crude Oil Released: 27 BBL Recovered: 2 BBL Lost: 25 BBL. |
| Produced Water Released (bbls) Details | Cause: Corrosion Other (Specify) Produced Water Released: 108 BBL Recovered: 2 BBL Lost: 106 BBL. |
| Is the concentration of chloride in the produced water >10,000 mg/l | Yes |
| Condensate Released (bbls) Details | Not answered. |
| Natural Gas Vented (Mcf) Details | Not answered. |
| Natural Gas Flared (Mcf) Details | Not answered. |
| Other Released Details | Not answered. |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | Release was from the bulk line |

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

QUESTIONS, Page 2

Action 412943

| QUESTI | ONS (continued) |
|---|--|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 Action Number: 412943 Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |
| QUESTIONS | |
| Nature and Volume of Release (continued) | |
| Is this a gas only submission (i.e. only significant Mcf values reported) | No, according to supplied volumes this does not appear to be a "gas only" report. |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC | Yes |
| Reasons why this would be considered a submission for a notification of a major release | From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more. |
| With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. | e. gas only) are to be submitted on the C-129 form. |
| Initial Response | |
| The responsible party must undertake the following actions immediately unless they could create a s | T · |
| The source of the release has been stopped | True |
| The impacted area has been secured to protect human health and the environment | True |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices | True |
| All free liquids and recoverable materials have been removed and managed appropriately | True |
| If all the actions described above have not been undertaken, explain why | Not answered. |
| | ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission. |
| to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a | knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface to does not relieve the operator of responsibility for compliance with any other federal, state, or |
| I hereby agree and sign off to the above statement | Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 12/17/2024 |

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

QUESTIONS, Page 3

Action 412943

QUESTIONS (continued)

OGRID: Operator XTO ENERGY, INC 5380 6401 Holiday Hill Road Action Number Midland, TX 79707 412943 Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

| Site Characterization | |
|---|---|
| Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date. | l and beyond). This information must be provided to the appropriate district office no later than 90 days after the |
| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs) | Less than or equal 25 (ft.) |
| What method was used to determine the depth to ground water | NM OSE iWaters Database Search |
| Did this release impact groundwater or surface water | No |
| What is the minimum distance, between the closest lateral extents of the release and the following surface areas: | |
| A continuously flowing watercourse or any other significant watercourse | Between 500 and 1000 (ft.) |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) | Between 1 and 5 (mi.) |
| An occupied permanent residence, school, hospital, institution, or church | Greater than 5 (mi.) |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes | Between 1 and 5 (mi.) |
| Any other fresh water well or spring | Between 1 and 5 (mi.) |
| Incorporated municipal boundaries or a defined municipal fresh water well field | Greater than 5 (mi.) |
| A wetland | Between 1 and 5 (mi.) |
| A subsurface mine | Greater than 5 (mi.) |
| An (non-karst) unstable area | Between 1 and 5 (mi.) |
| Categorize the risk of this well / site being in a karst geology | Low |
| A 100-year floodplain | Between 500 and 1000 (ft.) |
| Did the release impact areas not on an exploration, development, production, or storage site | Yes |

| Remediation Plan | | |
|---|--|--|
| Please answer all the questions that apply or are indicated. This information must be provided to 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 | n associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC. | |
| Have the lateral and vertical extents of contamination been fully delineated | Yes | |
| Was this release entirely contained within a lined containment area | No | |
| Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.) | | |
| Chloride (EPA 300.0 or SM4500 Cl B) | 6800 | |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) | 4598 | |
| GRO+DRO (EPA SW-846 Method 8015M) | 4101 | |
| BTEX (EPA SW-846 Method 8021B or 8260B) | 0 | |
| Benzene (EPA SW-846 Method 8021B or 8260B) | 0 | |
| Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation. | | |
| On what estimated date will the remediation commence | 01/15/2025 | |
| On what date will (or did) the final sampling or liner inspection occur | 01/15/2025 | |
| On what date will (or was) the remediation complete(d) | 04/15/2025 | |
| What is the estimated surface area (in square feet) that will be reclaimed | 570 | |
| What is the estimated volume (in cubic yards) that will be reclaimed | 85 | |
| What is the estimated surface area (in square feet) that will be remediated | 10268 | |
| What is the estimated volume (in cubic yards) that will be remediated | 1560 | |
| These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed. | | |

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

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

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QUESTIONS, Page 4

Action 412943

QUESTIONS (continued)

| Operator: | OGRID: |
|------------------------|--|
| XTO ENERGY, INC | 5380 |
| 6401 Holiday Hill Road | Action Number: |
| Midland, TX 79707 | 412943 |
| | Action Type: |
| | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

QUESTIONS

| Remediation Plan (continued) | |
|---|------------------------------------|
| Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date. | |
| This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants: | |
| (Select all answers below that apply.) | |
| (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.) | Yes |
| Which OCD approved facility will be used for off-site disposal | LEA LAND LANDFILL [fEEM0112342028] |
| OR which OCD approved well (API) will be used for off-site disposal | Not answered. |
| OR is the off-site disposal site, to be used, out-of-state | 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.

Name: Colton Brown
Title: Environmental Advisor
Email: colton.s.brown@exxonmobil.com

Date: 12/17/2024

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

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QUESTIONS, Page 5

Action 412943

QUESTIONS (continued)

| Operator: | OGRID: |
|------------------------|--|
| XTO ENERGY, INC | 5380 |
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| Midland, TX 79707 | 412943 |
| | Action Type: |
| | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

QUESTIONS

| Deferral Requests Only | |
|--|----|
| Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation. | |
| Requesting a deferral of the remediation closure due date with the approval of this submission | No |

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QUESTIONS, Page 6

Action 412943

QUESTIONS (continued)

| 40-20 Horto (00 Hartasta) | | | | |
|--|--|--|--|--|
| Operator: XTO ENERGY, INC | OGRID: 5380 | | | |
| 6401 Holiday Hill Road Midland, TX 79707 | Action Number: 412943 | | | |
| Middle, 1X70707 | Action Type: | | | |
| | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) | | | |
| QUESTIONS | | | | |
| Sampling Event Information | | | | |
| Last sampling notification (C-141N) recorded | {Unavailable.} | | | |
| | | | | |
| Remediation Closure Request | | | | |
| Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed. | | | | |
| Requesting a remediation closure approval with this submission | No | | | |
| | | | | |

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CONDITIONS

Action 412943

CONDITIONS

| Operator: | OGRID: |
|------------------------|--|
| XTO ENERGY, INC | 5380 |
| 6401 Holiday Hill Road | Action Number: |
| Midland, TX 79707 | 412943 |
| | Action Type: |
| | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

CONDITIONS

| Created By | Condition | Condition Date |
|---------------|--|----------------|
| bhall | Remediation plan conditionally approved. | 12/17/2024 |
| bhall | The entire 10,838 square footage of the release area as depicted on figure 1 must be remediated via excavation and confirmation/final samples must be collected pursuant to 19.15.29 NMAC. Soil samples must meet the most stringent closure criteria. Remediation may need to extended past the proposed extents. | 12/17/2024 |
| bhall | Submit a complete and accurate report through the OCD Permitting website by 3/21/2025. | 12/17/2024 |