

Environmental Site Remediation Work Plan



General Information

NMOCD District:	Hobbs	Incident ID:	nAPP2530748842
Landowner:	Federal	RP Reference:	n/a
Client:	Devon Energy Production Company, LP	Site Location:	Aleutian 10 CTB 2
Date:	December 10, 2025	Project #:	25A-05838
Client Contact:	Jim Raley	Phone #:	575.689.7597
Vertex PM:	Sally Carttar	Phone #:	575.361.3561

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 release assigned to Aleutian 10 CTB 2, Facility FAPP2300331384 (hereafter referred to as the "site"). The incident occurred on November 1, 2025, when corrosion on a dump line developed a pinhole leak releasing approximately 7 barrels of produced water onto the production area pad. The area of environmental concern was identified and delineated are around the separators and pad area to the immediate east. An aerial photograph of the site with characterization locations is presented on Figure 1 (Attachment 1).

The nearest depth to ground water reference is 0.35 miles (1,878 ft) to the southeast of the site. It is a United States Department of Energy monitoring well drilled to 865 ft below ground surface (bgs) with depth to water of 639 ft bgs. Closure criteria have been selected as per New Mexico Administrative Code 19.15.29. The closure criteria for the site are presented in Table 1.

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

TDS – total dissolved solids

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

BTEX – benzene, toluene, ethylbenzene and xylenes

Site Assessment/Characterization

Site characterization was completed on November 10, 2025. A total of six sample points were established and samples collected for field screening. Samples were obtained at multiple depths for horizontal and vertical delineation, and samples at the greatest lateral and vertical limits below criteria were submitted to the laboratory for analysis. In total, 10 samples were submitted to Hall Environmental Analysis Laboratory, 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); no exceedances to the closure criteria were identified. BH25-05 was not sent for laboratory analysis, however field screens indicated that the sample point met on pad criteria. Daily Field Reports are included in Attachment 3. Laboratory data reports are included in Attachment 4. All applicable research as it pertains to closure criteria selection is presented in Attachment 5.



Environmental Site Remediation Work Plan

Remedial Activities

General

Delineation results showed no contamination over closure criteria. As such, the release area will initially be remediated to address surface staining. Laboratory results from the site assessment/characterization have been referenced to estimate both the vertical and horizontal limits of the impacts and the volume of soil to be removed.

Once excavation is complete, confirmatory samples will be collected across the release area in 200 sq ft increments and laboratory analysis will be completed to confirm closure criteria guidelines are met. Field screening will be utilized to confirm removal of contaminated soil below the applicable closure criteria. Any areas identified with contaminant concentrations above closure criteria will be remediated through excavation and/or hand digging in 0.5 or 1ft increments. Soil will be excavated to the extent of the known while maintaining structural stability and safety. Contaminated soils will be stored on a 30mil liner prior to disposal at an approved facility. The excavation will be backfilled with clean soil sourced locally.

nAPP2530748842– Release from Separator

Staining is present around the point of release and between the separators directly north of point of release, as shown on Figure 1 (Attachment 1). Staining will be removed and impacted areas will be remediated to closure criteria via excavation, where access is possible, around separators and underground flowlines. Soil in open areas capable of excavation with heavy equipment will be initially excavated to 6 inches. Soil in immediate proximity to equipment will have the surface staining manually removed with hand tools to approximately 3 inches. The excavation in between the separators will undergo no excavation greater than 1 foot while the excavation underneath the separators and lines will undergo no excavation greater than 3 inches to maintain ground stability. The excavation will be as close as safely possible to the active separators.

The areas under and in immediate proximity to equipment may require deferral depending on the results of confirmation sampling. The need for deferral will be evaluated once excavation has been completed and laboratory results are available.

Heavy equipment will be used to complete excavation in areas free of infrastructure or equipment. As line locates show multiple underground flow lines as well as electrical conduit through the proposed excavation area, the majority of the excavation will be performed by hand crew. A hydrovac truck may be utilized to identify utility and buried pipelines where necessary, and hand tools will be utilized to remove contaminated soil in close proximity to equipment, buried utilities, and pipelines. 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 guidance and submitted for laboratory analysis of all applicable parameters.

The total remediation area is approximately 883 square feet as shown on Figure 2 (Attachment 1). The total estimated volume to be excavated is approximately 12 cubic yards. Excavation is planned to be completed within 90 days of approval of this Environmental Site Remediation Work Plan.

Sample Point	Excavation Depth	Remediation Method
BH25-05	3 inches	Hand Excavation
BH25-01	3 inches	Hand Excavation

Environmental Site Remediation Work Plan

Should you have any questions or concerns, please do not hesitate to contact Project Manager Sally Carttar at 575.361.3561 or Scarttar@vertexresource.com.

Austin Harris

Austin Harris, B.Sc.
ENVIRONMENTAL SPECIALIST, REPORTING

December 11, 2025

Date

Sally Carttar

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

December 11, 2025

Date

Attachments

- Attachment 1. Figure
- Attachment 2. Initial Characterization Sample Laboratory Results
- Attachment 3. Daily Field Reports with Photographs
- Attachment 4. Laboratory Data Reports and Chain of Custody Forms
- Attachment 5. Closure Criteria Research

ATTACHMENT 1



0 15 30 ft

NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Map Center:
Lat/Long: 32.315055°N, 103.762029°W

Date: Nov 24/25



Characterization Sampling Site Schematic Aleutian 10 CTB 2

FIGURE:

1



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

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

VERSATILITY. EXPERTISE.

ATTACHMENT 2

Client Name: Devon Energy Production Company, LP
 Site Name: Aleutian 10 CTB 2
 NMOCD Tracking #: nAPP2530748842
 Project #: 25A-05838
 Lab Report: 885-37631

Table 2. Initial Characterization Sample Laboratory Results													
Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable					
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Depth to Groundwater > 100 feet bgs													
BH25-01	0	November 10, 2025	—	28	12,563	ND	ND	ND	ND	ND	ND	ND	12,000
	4	November 10, 2025	—	8	373	ND	ND	ND	ND	ND	ND	ND	140
BH25-02	0	November 10, 2025	—	7	253	ND	ND	ND	ND	ND	ND	ND	ND
	2	November 10, 2025	—	6	188	ND	ND	ND	ND	ND	ND	ND	ND
BH25-03	0	November 10, 2025	—	14	260	ND	ND	ND	ND	ND	ND	ND	ND
	2	November 10, 2025	—	6	105	ND	ND	ND	ND	ND	ND	ND	ND
BH25-04	0	November 10, 2025	—	3	155	ND	ND	ND	ND	ND	ND	ND	ND
	2	November 10, 2025	—	0	145	ND	ND	ND	ND	ND	ND	ND	ND
BH25-05	0	November 10, 2025	—	—	11,445	—	—	—	—	—	—	—	—
	2	November 10, 2025	—	—	215	—	—	—	—	—	—	—	—
BH25-06	0	November 10, 2025	—	12	320	ND	ND	ND	ND	ND	ND	ND	ND
	2	November 10, 2025	—	6	202	ND	ND	ND	ND	ND	ND	ND	ND

"ND" Not Detected at the Reporting Limit

"—" indicates not analyzed/assessed

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

ATTACHMENT 3

Daily Site Visit Report



Client:	Devon Energy Corporation	Incident ID #:	
Site Location Name:	Aleutian 10 CTB 2	API #:	
Inspection Date:	11/10/2025		

Summary of Times

Arrived at Site	11/10/2025 9:00 AM
Departed Site	11/10/2025 2:30 PM

Daily Site Visit Report



Site Sketch

Site Sketch

Daily Site Visit Report



Field Notes

- 9:43** Completed safety paperwork and magnetic locate sweep of sample area
- 9:44** On site to delineate release between separators
- 16:36** Obtained BH25-01 to 06.
 - 05 exceeded delineation criteria and was stepped out to the north once more.
 - 05 not sent to lab.

Next Steps & Recommendations

- 1** Send samples to lab

Daily Site Visit Report



Site Photos

Viewing Direction: North



Descriptive Photo - 1
Viewing Direction: North
Desc: Magnetic sweep of release area and proposed
Created: 11/10/2025 10:37:59 AM
Lat:32.315046, Long:-103.761669

Magnetic sweep of release area and proposed sampling area done first thing

Viewing Direction: West



Descriptive Photo - 2
Viewing Direction: West
Desc: East toe looking west inward to release point
Created: 11/10/2025 10:39:21 AM
Lat:32.315043, Long:-103.761662

East toe looking west inward to release point between 106/614H separator to north and 108/703H separator to south



Daily Site Visit Report

Viewing Direction: West



Release area between 106/614H separator to south and 104/814H to north. May need to advance north delineation point north of 104/814H separator.

Viewing Direction: Southwest



Area below separator 614H

Viewing Direction: East



Area immediately west of 614H separator

Viewing Direction: East



Area immediately southwest of point of release. BH25-01 between 614H and 703H for vertical delineation.



Daily Site Visit Report

Viewing Direction: West



BH25-01 samples taken at 0, 2 and 4' depths.
Between separators 614H and 703H.

Viewing Direction: West



BH25-02 east of 01.
Samples taken at 0 and 2' depths for horizontal delineation purposes.

Viewing Direction: West



BH25-03 on South side of separator 703H for horizontal delineation purposes.
Samples obtained at 0 and 2'

Viewing Direction: East



BH25-04 directly west of point of release.
Samples taken at 0 and 2' bgs for horizontal delineation.



Daily Site Visit Report

Viewing Direction: West



BH25-05 on North side of separator 614H for horizontal delineation purposes.
Samples obtained at 0 and 2' bgs.

Viewing Direction: Southwest



BH25-06 on north side of separator 814H for horizontal delineation purposes.
Samples obtained at 0 and 2' bgs.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Austin Harris

Signature:

A handwritten signature in black ink, appearing to be 'AH' or similar initials, written over a horizontal line.

Signature

ATTACHMENT 4



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Sally Carttar
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 11/20/2025 2:43:24 PM

JOB DESCRIPTION

Aleutian 10 CTB 2

JOB NUMBER

885-37631-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

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

Authorization



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11/20/2025 2:43:24 PM

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

Client: Vertex
Project/Site: Aleutian 10 CTB 2

Laboratory Job ID: 885-37631-1



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Definitions/Glossary

Client: Vertex

Job ID: 885-37631-1

Project/Site: Aleutian 10 CTB 2

Glossary

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

Case Narrative

Client: Vertex
Project: Aleutian 10 CTB 2

Job ID: 885-37631-1

Job ID: 885-37631-1

Eurofins Albuquerque

Job Narrative 885-37631-1

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

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

Receipt

The samples were received on 11/13/2025 7:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

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

HPLC/IC

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

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Client Sample Results

Client: Vertex
Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

Client Sample ID: BH25-01 0'

Lab Sample ID: 885-37631-1

Date Collected: 11/10/25 10:00

Matrix: Solid

Date Received: 11/13/25 07:50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		11/17/25 11:53	11/18/25 13:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		15 - 150			11/17/25 11:53	11/18/25 13:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		11/17/25 11:53	11/18/25 13:50	1
Ethylbenzene	ND		0.050	mg/Kg		11/17/25 11:53	11/18/25 13:50	1
Toluene	ND		0.050	mg/Kg		11/17/25 11:53	11/18/25 13:50	1
Xylenes, Total	ND		0.099	mg/Kg		11/17/25 11:53	11/18/25 13:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 150			11/17/25 11:53	11/18/25 13:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		11/17/25 14:46	11/18/25 20:33	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		11/17/25 14:46	11/18/25 20:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	93		62 - 134			11/17/25 14:46	11/18/25 20:33	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12000		99	mg/Kg		11/18/25 10:26	11/20/25 10:15	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

Client Sample ID: BH25-01 4'

Lab Sample ID: 885-37631-2

Date Collected: 11/10/25 10:20

Matrix: Solid

Date Received: 11/13/25 07:50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		11/17/25 11:53	11/18/25 15:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		15 - 150			11/17/25 11:53	11/18/25 15:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		11/17/25 11:53	11/18/25 15:02	1
Ethylbenzene	ND		0.049	mg/Kg		11/17/25 11:53	11/18/25 15:02	1
Toluene	ND		0.049	mg/Kg		11/17/25 11:53	11/18/25 15:02	1
Xylenes, Total	ND		0.099	mg/Kg		11/17/25 11:53	11/18/25 15:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 150			11/17/25 11:53	11/18/25 15:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		11/17/25 14:46	11/18/25 20:45	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		11/17/25 14:46	11/18/25 20:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			11/17/25 14:46	11/18/25 20:45	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		50	mg/Kg		11/18/25 10:26	11/18/25 13:03	10

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Client Sample Results

Client: Vertex
Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

Client Sample ID: BH25-02 0'

Lab Sample ID: 885-37631-3

Date Collected: 11/10/25 10:30

Matrix: Solid

Date Received: 11/13/25 07:50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		11/17/25 11:53	11/18/25 16:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		15 - 150			11/17/25 11:53	11/18/25 16:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		11/17/25 11:53	11/18/25 16:13	1
Ethylbenzene	ND		0.049	mg/Kg		11/17/25 11:53	11/18/25 16:13	1
Toluene	ND		0.049	mg/Kg		11/17/25 11:53	11/18/25 16:13	1
Xylenes, Total	ND		0.098	mg/Kg		11/17/25 11:53	11/18/25 16:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 150			11/17/25 11:53	11/18/25 16:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		11/17/25 14:46	11/18/25 20:56	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		11/17/25 14:46	11/18/25 20:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	90		62 - 134			11/17/25 14:46	11/18/25 20:56	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		51	mg/Kg		11/18/25 10:26	11/18/25 13:57	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

Client Sample ID: BH25-02 2'

Lab Sample ID: 885-37631-4

Date Collected: 11/10/25 10:40

Matrix: Solid

Date Received: 11/13/25 07:50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		11/17/25 11:53	11/18/25 16:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		15 - 150			11/17/25 11:53	11/18/25 16:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		11/17/25 11:53	11/18/25 16:37	1
Ethylbenzene	ND		0.049	mg/Kg		11/17/25 11:53	11/18/25 16:37	1
Toluene	ND		0.049	mg/Kg		11/17/25 11:53	11/18/25 16:37	1
Xylenes, Total	ND		0.099	mg/Kg		11/17/25 11:53	11/18/25 16:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 150			11/17/25 11:53	11/18/25 16:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		11/17/25 14:46	11/18/25 21:08	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		11/17/25 14:46	11/18/25 21:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			11/17/25 14:46	11/18/25 21:08	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50	mg/Kg		11/18/25 10:26	11/18/25 14:08	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

Client Sample ID: BH25-03 0'

Lab Sample ID: 885-37631-5

Date Collected: 11/10/25 10:50

Matrix: Solid

Date Received: 11/13/25 07:50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		11/17/25 11:53	11/18/25 17:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		15 - 150			11/17/25 11:53	11/18/25 17:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		11/17/25 11:53	11/18/25 17:01	1
Ethylbenzene	ND		0.050	mg/Kg		11/17/25 11:53	11/18/25 17:01	1
Toluene	ND		0.050	mg/Kg		11/17/25 11:53	11/18/25 17:01	1
Xylenes, Total	ND		0.10	mg/Kg		11/17/25 11:53	11/18/25 17:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 150			11/17/25 11:53	11/18/25 17:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		11/17/25 14:46	11/18/25 21:20	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		11/17/25 14:46	11/18/25 21:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			11/17/25 14:46	11/18/25 21:20	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50	mg/Kg		11/18/25 10:26	11/18/25 14:19	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

Client Sample ID: BH25-03 2'

Lab Sample ID: 885-37631-6

Date Collected: 11/10/25 11:00

Matrix: Solid

Date Received: 11/13/25 07:50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		11/17/25 11:53	11/18/25 17:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		15 - 150			11/17/25 11:53	11/18/25 17:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		11/17/25 11:53	11/18/25 17:24	1
Ethylbenzene	ND		0.048	mg/Kg		11/17/25 11:53	11/18/25 17:24	1
Toluene	ND		0.048	mg/Kg		11/17/25 11:53	11/18/25 17:24	1
Xylenes, Total	ND		0.096	mg/Kg		11/17/25 11:53	11/18/25 17:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 150			11/17/25 11:53	11/18/25 17:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		11/17/25 14:46	11/18/25 21:31	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		11/17/25 14:46	11/18/25 21:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			11/17/25 14:46	11/18/25 21:31	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		51	mg/Kg		11/18/25 10:26	11/18/25 14:30	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

Client Sample ID: BH25-04 0'

Lab Sample ID: 885-37631-7

Date Collected: 11/10/25 11:10

Matrix: Solid

Date Received: 11/13/25 07:50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		11/17/25 11:53	11/18/25 17:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 150			11/17/25 11:53	11/18/25 17:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		11/17/25 11:53	11/18/25 17:48	1
Ethylbenzene	ND		0.049	mg/Kg		11/17/25 11:53	11/18/25 17:48	1
Toluene	ND		0.049	mg/Kg		11/17/25 11:53	11/18/25 17:48	1
Xylenes, Total	ND		0.099	mg/Kg		11/17/25 11:53	11/18/25 17:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 150			11/17/25 11:53	11/18/25 17:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		11/17/25 14:46	11/18/25 21:43	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		11/17/25 14:46	11/18/25 21:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			11/17/25 14:46	11/18/25 21:43	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		51	mg/Kg		11/18/25 10:26	11/18/25 14:41	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

Client Sample ID: BH25-04 2'

Lab Sample ID: 885-37631-8

Date Collected: 11/10/25 11:20

Matrix: Solid

Date Received: 11/13/25 07:50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		11/17/25 11:53	11/18/25 18:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		15 - 150			11/17/25 11:53	11/18/25 18:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		11/17/25 11:53	11/18/25 18:12	1
Ethylbenzene	ND		0.048	mg/Kg		11/17/25 11:53	11/18/25 18:12	1
Toluene	ND		0.048	mg/Kg		11/17/25 11:53	11/18/25 18:12	1
Xylenes, Total	ND		0.096	mg/Kg		11/17/25 11:53	11/18/25 18:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			11/17/25 11:53	11/18/25 18:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		11/17/25 14:46	11/18/25 21:55	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		11/17/25 14:46	11/18/25 21:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			11/17/25 14:46	11/18/25 21:55	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		49	mg/Kg		11/18/25 10:26	11/18/25 14:52	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

Client Sample ID: BH25-06 0'

Lab Sample ID: 885-37631-9

Date Collected: 11/10/25 11:40

Matrix: Solid

Date Received: 11/13/25 07:50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		11/17/25 11:53	11/18/25 18:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		15 - 150			11/17/25 11:53	11/18/25 18:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		11/17/25 11:53	11/18/25 18:36	1
Ethylbenzene	ND		0.049	mg/Kg		11/17/25 11:53	11/18/25 18:36	1
Toluene	ND		0.049	mg/Kg		11/17/25 11:53	11/18/25 18:36	1
Xylenes, Total	ND		0.097	mg/Kg		11/17/25 11:53	11/18/25 18:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 150			11/17/25 11:53	11/18/25 18:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		11/17/25 14:46	11/18/25 22:18	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		11/17/25 14:46	11/18/25 22:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	93		62 - 134			11/17/25 14:46	11/18/25 22:18	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		49	mg/Kg		11/18/25 10:26	11/18/25 15:02	10

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Client Sample Results

Client: Vertex
Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

Client Sample ID: BH25-06 2'

Lab Sample ID: 885-37631-10

Date Collected: 11/10/25 11:50

Matrix: Solid

Date Received: 11/13/25 07:50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		11/17/25 11:53	11/18/25 18:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 150			11/17/25 11:53	11/18/25 18:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		11/17/25 11:53	11/18/25 18:59	1
Ethylbenzene	ND		0.049	mg/Kg		11/17/25 11:53	11/18/25 18:59	1
Toluene	ND		0.049	mg/Kg		11/17/25 11:53	11/18/25 18:59	1
Xylenes, Total	ND		0.098	mg/Kg		11/17/25 11:53	11/18/25 18:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 150			11/17/25 11:53	11/18/25 18:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		11/17/25 14:46	11/18/25 22:30	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		11/17/25 14:46	11/18/25 22:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			11/17/25 14:46	11/18/25 22:30	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50	mg/Kg		11/18/25 10:26	11/18/25 15:13	10

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

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

Lab Sample ID: MB 885-38588/1-A

Matrix: Solid

Analysis Batch: 38642

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38588

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		11/17/25 11:53	11/18/25 13:27	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		15 - 150			11/17/25 11:53	11/18/25 13:27	1

Lab Sample ID: LCS 885-38588/2-A

Matrix: Solid

Analysis Batch: 38642

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 38588

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	24.9		mg/Kg		100	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	216		15 - 150				

Lab Sample ID: 885-37631-1 MS

Matrix: Solid

Analysis Batch: 38642

Client Sample ID: BH25-01 0'

Prep Type: Total/NA

Prep Batch: 38588

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	ND		24.4	16.9		mg/Kg		70	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	184		15 - 150						

Lab Sample ID: 885-37631-1 MSD

Matrix: Solid

Analysis Batch: 38642

Client Sample ID: BH25-01 0'

Prep Type: Total/NA

Prep Batch: 38588

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.3	18.6		mg/Kg		77	70 - 130	10	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	189		15 - 150								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-38588/1-A

Matrix: Solid

Analysis Batch: 38643

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38588

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		11/17/25 11:53	11/18/25 13:27	1
Ethylbenzene	ND		0.050	mg/Kg		11/17/25 11:53	11/18/25 13:27	1
Toluene	ND		0.050	mg/Kg		11/17/25 11:53	11/18/25 13:27	1

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

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

Lab Sample ID: MB 885-38588/1-A

Matrix: Solid

Analysis Batch: 38643

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38588

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10	mg/Kg		11/17/25 11:53	11/18/25 13:27	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		15 - 150			11/17/25 11:53	11/18/25 13:27	1

Lab Sample ID: LCS 885-38588/3-A

Matrix: Solid

Analysis Batch: 38643

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 38588

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.949		mg/Kg		95	70 - 130
Ethylbenzene	1.00	0.951		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	2.00	1.90		mg/Kg		95	70 - 130
o-Xylene	1.00	0.934		mg/Kg		93	70 - 130
Toluene	1.00	0.946		mg/Kg		95	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	108		15 - 150				

Lab Sample ID: 885-37631-2 MS

Matrix: Solid

Analysis Batch: 38643

Client Sample ID: BH25-01 4'

Prep Type: Total/NA

Prep Batch: 38588

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.990	0.902		mg/Kg		91	70 - 130
Ethylbenzene	ND		0.990	0.910		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	ND		1.98	1.83		mg/Kg		92	70 - 130
o-Xylene	ND		0.990	0.892		mg/Kg		90	70 - 130
Toluene	ND		0.990	0.920		mg/Kg		93	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	108		15 - 150						

Lab Sample ID: 885-37631-2 MSD

Matrix: Solid

Analysis Batch: 38643

Client Sample ID: BH25-01 4'

Prep Type: Total/NA

Prep Batch: 38588

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.990	0.889		mg/Kg		90	70 - 130	1	20
Ethylbenzene	ND		0.990	0.901		mg/Kg		91	70 - 130	1	20
m-Xylene & p-Xylene	ND		1.98	1.83		mg/Kg		93	70 - 130	0	20
o-Xylene	ND		0.990	0.904		mg/Kg		91	70 - 130	1	20
Toluene	ND		0.990	0.907		mg/Kg		92	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	106		15 - 150								

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

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

Lab Sample ID: MB 885-38606/1-A

Matrix: Solid

Analysis Batch: 38620

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38606

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		11/17/25 14:46	11/18/25 20:10	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		11/17/25 14:46	11/18/25 20:10	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	89		62 - 134			11/17/25 14:46	11/18/25 20:10	1

Lab Sample ID: LCS 885-38606/2-A

Matrix: Solid

Analysis Batch: 38620

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 38606

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	58.2		mg/Kg		116	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	107		62 - 134				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-38640/1-A

Matrix: Solid

Analysis Batch: 38648

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38640

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		4.9	mg/Kg		11/18/25 10:26	11/18/25 11:47	1

Lab Sample ID: LCS 885-38640/2-A

Matrix: Solid

Analysis Batch: 38648

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 38640

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	49.7	49.4		mg/Kg		99	90 - 110

Lab Sample ID: 885-37631-2 MS

Matrix: Solid

Analysis Batch: 38648

Client Sample ID: BH25-01 4'

Prep Type: Total/NA

Prep Batch: 38640

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	140		49.2	180		mg/Kg		87	50 - 150

Lab Sample ID: 885-37631-2 MSD

Matrix: Solid

Analysis Batch: 38648

Client Sample ID: BH25-01 4'

Prep Type: Total/NA

Prep Batch: 38640

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Chloride	140		49.5	180		mg/Kg		86	50 - 150	0 20

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

GC VOA

Prep Batch: 38588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-37631-1	BH25-01 0'	Total/NA	Solid	5030C	
885-37631-2	BH25-01 4'	Total/NA	Solid	5030C	
885-37631-3	BH25-02 0'	Total/NA	Solid	5030C	
885-37631-4	BH25-02 2'	Total/NA	Solid	5030C	
885-37631-5	BH25-03 0'	Total/NA	Solid	5030C	
885-37631-6	BH25-03 2'	Total/NA	Solid	5030C	
885-37631-7	BH25-04 0'	Total/NA	Solid	5030C	
885-37631-8	BH25-04 2'	Total/NA	Solid	5030C	
885-37631-9	BH25-06 0'	Total/NA	Solid	5030C	
885-37631-10	BH25-06 2'	Total/NA	Solid	5030C	
MB 885-38588/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-38588/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-38588/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-37631-1 MS	BH25-01 0'	Total/NA	Solid	5030C	
885-37631-1 MSD	BH25-01 0'	Total/NA	Solid	5030C	
885-37631-2 MS	BH25-01 4'	Total/NA	Solid	5030C	
885-37631-2 MSD	BH25-01 4'	Total/NA	Solid	5030C	

Analysis Batch: 38642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-37631-1	BH25-01 0'	Total/NA	Solid	8015M/D	38588
885-37631-2	BH25-01 4'	Total/NA	Solid	8015M/D	38588
885-37631-3	BH25-02 0'	Total/NA	Solid	8015M/D	38588
885-37631-4	BH25-02 2'	Total/NA	Solid	8015M/D	38588
885-37631-5	BH25-03 0'	Total/NA	Solid	8015M/D	38588
885-37631-6	BH25-03 2'	Total/NA	Solid	8015M/D	38588
885-37631-7	BH25-04 0'	Total/NA	Solid	8015M/D	38588
885-37631-8	BH25-04 2'	Total/NA	Solid	8015M/D	38588
885-37631-9	BH25-06 0'	Total/NA	Solid	8015M/D	38588
885-37631-10	BH25-06 2'	Total/NA	Solid	8015M/D	38588
MB 885-38588/1-A	Method Blank	Total/NA	Solid	8015M/D	38588
LCS 885-38588/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	38588
885-37631-1 MS	BH25-01 0'	Total/NA	Solid	8015M/D	38588
885-37631-1 MSD	BH25-01 0'	Total/NA	Solid	8015M/D	38588

Analysis Batch: 38643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-37631-1	BH25-01 0'	Total/NA	Solid	8021B	38588
885-37631-2	BH25-01 4'	Total/NA	Solid	8021B	38588
885-37631-3	BH25-02 0'	Total/NA	Solid	8021B	38588
885-37631-4	BH25-02 2'	Total/NA	Solid	8021B	38588
885-37631-5	BH25-03 0'	Total/NA	Solid	8021B	38588
885-37631-6	BH25-03 2'	Total/NA	Solid	8021B	38588
885-37631-7	BH25-04 0'	Total/NA	Solid	8021B	38588
885-37631-8	BH25-04 2'	Total/NA	Solid	8021B	38588
885-37631-9	BH25-06 0'	Total/NA	Solid	8021B	38588
885-37631-10	BH25-06 2'	Total/NA	Solid	8021B	38588
MB 885-38588/1-A	Method Blank	Total/NA	Solid	8021B	38588
LCS 885-38588/3-A	Lab Control Sample	Total/NA	Solid	8021B	38588
885-37631-2 MS	BH25-01 4'	Total/NA	Solid	8021B	38588
885-37631-2 MSD	BH25-01 4'	Total/NA	Solid	8021B	38588

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

GC Semi VOA

Prep Batch: 38606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-37631-1	BH25-01 0'	Total/NA	Solid	SHAKE	
885-37631-2	BH25-01 4'	Total/NA	Solid	SHAKE	
885-37631-3	BH25-02 0'	Total/NA	Solid	SHAKE	
885-37631-4	BH25-02 2'	Total/NA	Solid	SHAKE	
885-37631-5	BH25-03 0'	Total/NA	Solid	SHAKE	
885-37631-6	BH25-03 2'	Total/NA	Solid	SHAKE	
885-37631-7	BH25-04 0'	Total/NA	Solid	SHAKE	
885-37631-8	BH25-04 2'	Total/NA	Solid	SHAKE	
885-37631-9	BH25-06 0'	Total/NA	Solid	SHAKE	
885-37631-10	BH25-06 2'	Total/NA	Solid	SHAKE	
MB 885-38606/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-38606/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 38620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-37631-1	BH25-01 0'	Total/NA	Solid	8015M/D	38606
885-37631-2	BH25-01 4'	Total/NA	Solid	8015M/D	38606
885-37631-3	BH25-02 0'	Total/NA	Solid	8015M/D	38606
885-37631-4	BH25-02 2'	Total/NA	Solid	8015M/D	38606
885-37631-5	BH25-03 0'	Total/NA	Solid	8015M/D	38606
885-37631-6	BH25-03 2'	Total/NA	Solid	8015M/D	38606
885-37631-7	BH25-04 0'	Total/NA	Solid	8015M/D	38606
885-37631-8	BH25-04 2'	Total/NA	Solid	8015M/D	38606
885-37631-9	BH25-06 0'	Total/NA	Solid	8015M/D	38606
885-37631-10	BH25-06 2'	Total/NA	Solid	8015M/D	38606
MB 885-38606/1-A	Method Blank	Total/NA	Solid	8015M/D	38606
LCS 885-38606/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	38606

HPLC/IC

Prep Batch: 38640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-37631-1	BH25-01 0'	Total/NA	Solid	300_Prep	
885-37631-2	BH25-01 4'	Total/NA	Solid	300_Prep	
885-37631-3	BH25-02 0'	Total/NA	Solid	300_Prep	
885-37631-4	BH25-02 2'	Total/NA	Solid	300_Prep	
885-37631-5	BH25-03 0'	Total/NA	Solid	300_Prep	
885-37631-6	BH25-03 2'	Total/NA	Solid	300_Prep	
885-37631-7	BH25-04 0'	Total/NA	Solid	300_Prep	
885-37631-8	BH25-04 2'	Total/NA	Solid	300_Prep	
885-37631-9	BH25-06 0'	Total/NA	Solid	300_Prep	
885-37631-10	BH25-06 2'	Total/NA	Solid	300_Prep	
MB 885-38640/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-38640/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-37631-2 MS	BH25-01 4'	Total/NA	Solid	300_Prep	
885-37631-2 MSD	BH25-01 4'	Total/NA	Solid	300_Prep	

Analysis Batch: 38648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-37631-2	BH25-01 4'	Total/NA	Solid	300.0	38640
885-37631-3	BH25-02 0'	Total/NA	Solid	300.0	38640

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

HPLC/IC (Continued)

Analysis Batch: 38648 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-37631-4	BH25-02 2'	Total/NA	Solid	300.0	38640
885-37631-5	BH25-03 0'	Total/NA	Solid	300.0	38640
885-37631-6	BH25-03 2'	Total/NA	Solid	300.0	38640
885-37631-7	BH25-04 0'	Total/NA	Solid	300.0	38640
885-37631-8	BH25-04 2'	Total/NA	Solid	300.0	38640
885-37631-9	BH25-06 0'	Total/NA	Solid	300.0	38640
885-37631-10	BH25-06 2'	Total/NA	Solid	300.0	38640
MB 885-38640/1-A	Method Blank	Total/NA	Solid	300.0	38640
LCS 885-38640/2-A	Lab Control Sample	Total/NA	Solid	300.0	38640
885-37631-2 MS	BH25-01 4'	Total/NA	Solid	300.0	38640
885-37631-2 MSD	BH25-01 4'	Total/NA	Solid	300.0	38640

Analysis Batch: 38764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-37631-1	BH25-01 0'	Total/NA	Solid	300.0	38640

Lab Chronicle

Client: Vertex
Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

Client Sample ID: BH25-01 0'
Date Collected: 11/10/25 10:00
Date Received: 11/13/25 07:50

Lab Sample ID: 885-37631-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8015M/D		1	38642	VP	EET ALB	11/18/25 13:50
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8021B		1	38643	VP	EET ALB	11/18/25 13:50
Total/NA	Prep	SHAKE			38606	BV	EET ALB	11/17/25 14:46
Total/NA	Analysis	8015M/D		1	38620	BV	EET ALB	11/18/25 20:33
Total/NA	Prep	300_Prep			38640	JR	EET ALB	11/18/25 10:26
Total/NA	Analysis	300.0		20	38764	MA	EET ALB	11/20/25 10:15

Client Sample ID: BH25-01 4'
Date Collected: 11/10/25 10:20
Date Received: 11/13/25 07:50

Lab Sample ID: 885-37631-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8015M/D		1	38642	VP	EET ALB	11/18/25 15:02
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8021B		1	38643	VP	EET ALB	11/18/25 15:02
Total/NA	Prep	SHAKE			38606	BV	EET ALB	11/17/25 14:46
Total/NA	Analysis	8015M/D		1	38620	BV	EET ALB	11/18/25 20:45
Total/NA	Prep	300_Prep			38640	JR	EET ALB	11/18/25 10:26
Total/NA	Analysis	300.0		10	38648	EH	EET ALB	11/18/25 13:03

Client Sample ID: BH25-02 0'
Date Collected: 11/10/25 10:30
Date Received: 11/13/25 07:50

Lab Sample ID: 885-37631-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8015M/D		1	38642	VP	EET ALB	11/18/25 16:13
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8021B		1	38643	VP	EET ALB	11/18/25 16:13
Total/NA	Prep	SHAKE			38606	BV	EET ALB	11/17/25 14:46
Total/NA	Analysis	8015M/D		1	38620	BV	EET ALB	11/18/25 20:56
Total/NA	Prep	300_Prep			38640	JR	EET ALB	11/18/25 10:26
Total/NA	Analysis	300.0		10	38648	EH	EET ALB	11/18/25 13:57

Client Sample ID: BH25-02 2'
Date Collected: 11/10/25 10:40
Date Received: 11/13/25 07:50

Lab Sample ID: 885-37631-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8015M/D		1	38642	VP	EET ALB	11/18/25 16:37

Lab Chronicle

Client: Vertex
Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

Client Sample ID: BH25-02 2'
Date Collected: 11/10/25 10:40
Date Received: 11/13/25 07:50

Lab Sample ID: 885-37631-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8021B		1	38643	VP	EET ALB	11/18/25 16:37
Total/NA	Prep	SHAKE			38606	BV	EET ALB	11/17/25 14:46
Total/NA	Analysis	8015M/D		1	38620	BV	EET ALB	11/18/25 21:08
Total/NA	Prep	300_Prep			38640	JR	EET ALB	11/18/25 10:26
Total/NA	Analysis	300.0		10	38648	EH	EET ALB	11/18/25 14:08

Client Sample ID: BH25-03 0'
Date Collected: 11/10/25 10:50
Date Received: 11/13/25 07:50

Lab Sample ID: 885-37631-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8015M/D		1	38642	VP	EET ALB	11/18/25 17:01
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8021B		1	38643	VP	EET ALB	11/18/25 17:01
Total/NA	Prep	SHAKE			38606	BV	EET ALB	11/17/25 14:46
Total/NA	Analysis	8015M/D		1	38620	BV	EET ALB	11/18/25 21:20
Total/NA	Prep	300_Prep			38640	JR	EET ALB	11/18/25 10:26
Total/NA	Analysis	300.0		10	38648	EH	EET ALB	11/18/25 14:19

Client Sample ID: BH25-03 2'
Date Collected: 11/10/25 11:00
Date Received: 11/13/25 07:50

Lab Sample ID: 885-37631-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8015M/D		1	38642	VP	EET ALB	11/18/25 17:24
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8021B		1	38643	VP	EET ALB	11/18/25 17:24
Total/NA	Prep	SHAKE			38606	BV	EET ALB	11/17/25 14:46
Total/NA	Analysis	8015M/D		1	38620	BV	EET ALB	11/18/25 21:31
Total/NA	Prep	300_Prep			38640	JR	EET ALB	11/18/25 10:26
Total/NA	Analysis	300.0		10	38648	EH	EET ALB	11/18/25 14:30

Client Sample ID: BH25-04 0'
Date Collected: 11/10/25 11:10
Date Received: 11/13/25 07:50

Lab Sample ID: 885-37631-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8015M/D		1	38642	VP	EET ALB	11/18/25 17:48
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8021B		1	38643	VP	EET ALB	11/18/25 17:48

Lab Chronicle

Client: Vertex
Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

Client Sample ID: BH25-04 0'
Date Collected: 11/10/25 11:10
Date Received: 11/13/25 07:50

Lab Sample ID: 885-37631-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			38606	BV	EET ALB	11/17/25 14:46
Total/NA	Analysis	8015M/D		1	38620	BV	EET ALB	11/18/25 21:43
Total/NA	Prep	300_Prep			38640	JR	EET ALB	11/18/25 10:26
Total/NA	Analysis	300.0		10	38648	EH	EET ALB	11/18/25 14:41

Client Sample ID: BH25-04 2'
Date Collected: 11/10/25 11:20
Date Received: 11/13/25 07:50

Lab Sample ID: 885-37631-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8015M/D		1	38642	VP	EET ALB	11/18/25 18:12
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8021B		1	38643	VP	EET ALB	11/18/25 18:12
Total/NA	Prep	SHAKE			38606	BV	EET ALB	11/17/25 14:46
Total/NA	Analysis	8015M/D		1	38620	BV	EET ALB	11/18/25 21:55
Total/NA	Prep	300_Prep			38640	JR	EET ALB	11/18/25 10:26
Total/NA	Analysis	300.0		10	38648	EH	EET ALB	11/18/25 14:52

Client Sample ID: BH25-06 0'
Date Collected: 11/10/25 11:40
Date Received: 11/13/25 07:50

Lab Sample ID: 885-37631-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8015M/D		1	38642	VP	EET ALB	11/18/25 18:36
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8021B		1	38643	VP	EET ALB	11/18/25 18:36
Total/NA	Prep	SHAKE			38606	BV	EET ALB	11/17/25 14:46
Total/NA	Analysis	8015M/D		1	38620	BV	EET ALB	11/18/25 22:18
Total/NA	Prep	300_Prep			38640	JR	EET ALB	11/18/25 10:26
Total/NA	Analysis	300.0		10	38648	EH	EET ALB	11/18/25 15:02

Client Sample ID: BH25-06 2'
Date Collected: 11/10/25 11:50
Date Received: 11/13/25 07:50

Lab Sample ID: 885-37631-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8015M/D		1	38642	VP	EET ALB	11/18/25 18:59
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8021B		1	38643	VP	EET ALB	11/18/25 18:59
Total/NA	Prep	SHAKE			38606	BV	EET ALB	11/17/25 14:46
Total/NA	Analysis	8015M/D		1	38620	BV	EET ALB	11/18/25 22:30

Lab Chronicle

Client: Vertex
Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

Client Sample ID: BH25-06 2'
Date Collected: 11/10/25 11:50
Date Received: 11/13/25 07:50

Lab Sample ID: 885-37631-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			38640	JR	EET ALB	11/18/25 10:26
Total/NA	Analysis	300.0		10	38648	EH	EET ALB	11/18/25 15:13

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

- 1
- 2
- 3
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Accreditation/Certification Summary

Client: Vertex
Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics (GRO)-C6-C10
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

Released to Imaging: 12/24/2025 10:33:47 AM

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Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-37631-1

Login Number: 37631

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

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

ATTACHMENT 5

Closure Criteria Determination				
Site Name: Aleutian 10 CTB 2				
Spill Coordinates: 32.3150521,-103.7620247		X: 616536	Y: 3576031	
Site Specific Conditions		Value	Unit	Reference
1	Depth to Groundwater (nearest reference)	639	feet	1
	Distance between release and nearest DTGW reference	1,878	feet	
		0.35	miles	
	Date of nearest DTGW reference measurement	August 6, 2014		
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	4,640	feet	2
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	6,930	feet	3
4	Within 300 feet from an occupied residence, school, hospital, institution or church	15,366	feet	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	8,017	feet	5
	ii) Within 1000 feet of any fresh water well or spring	1,878	feet	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	7,440	feet	7
8	Within the area overlying a subsurface mine	No	(Y/N)	8
	Distance between release and nearest registered mine	40,000	feet	
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low	9
	Distance between release and nearest unstable area	15,130	feet	
10	Within a 100-year Floodplain	>500	year	10
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	47,072	feet	
11	Soil Type	Kermit-Berino fine sands		11
12	Ecological Classification	Deep Sand		12
13	Geology	Eolian and piedmont deposits		13
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	>100'	<50' 51-100' >100'	

OSE POD 0.5 miles



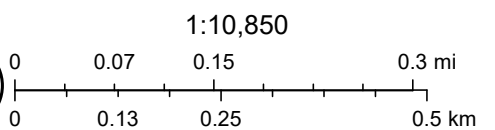
11/23/2025, 6:33:10 PM

GIS WATERS PODs

- Pending
- Active
- Inactive
- Changed Location of Well
- Capped
- Plugged

- Unknown
- Pending
- Active
- Inactive
- Changed Location of Well
- Capped
- Plugged

- Unknown
- World Imagery
- Low Resolution 15m Imagery
- High Resolution 60cm Imagery
- High Resolution 30cm Imagery
- Citations
- 2.4m Resolution Metadata



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

Water Column/Average Depth to Water

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

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







(quarters are
smallest to largest)

(NAD83 UTM in meters)

(In feet)

(In feet)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
C 02777		CUB	ED	SE	SE	SE	10	23S	31E	616973.8	3575662.1		572	890		
C 03749 POD1		CUB	ED		NE	NE	15	23S	31E	616973.8	3575662.1		572	865	639	226
C 04855 POD1		CUB	ED	NE	SW	SW	11	23S	31E	617417.6	3575936.7		886	105		
C 04709 POD1		CUB	ED	SW	NW	NW	15	23S	31E	615508.8	3575262.4		1282			
C 02773		CUB	ED	SE	NW	SW	03	23S	31E	615668.0	3577762.0 *		1936	880		
C 04712 POD4		CUB	ED	NW	SE	SW	14	23S	31E	617535.4	3574316.2		1984	55		

Average Depth to Water: **639 fe**

Minimum Depth: **639 feet**

Maximum Depth: **639 feet**



Record Count: 6

UTM Filters (in meters):

Easting: 616536
Northing: 3576031
Radius: 002000


* 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.

Point of Diversion Summary

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

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tw	Rng	X	Y	Map
	C 03749 POD1		NE	NE	15	23S	31E	616973.8	3575662.1	

* UTM location was derived from PLSS - see Help

Driller License:	331	Driller Company:	SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.			
Driller Name:	RANDY STEWART					
Drill Start Date:	2014-07-10	Drill Finish Date:	2014-08-06		Plug Date:	
Log File Date:	2014-09-11	PCW Rcv Date:			Source:	Shallow
Pump Type:		Pipe Discharge Size:			Estimated Yield:	5
Casing Size:	4.50	Depth Well:	865		Depth Water:	639

Water Bearing Stratifications:

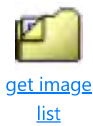
Top	Bottom	Description
820	846	Limestone/Dolomite/Chalk

Casing Perforations:

Top	Bottom
820	846

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Water Right Summary




WR File Number:	C 03749	Subbasin:	CUB	Cross Reference:
Primary Purpose:	MON MONITORING WELL			
Primary Status:	PMT Permit			
Total Acres:		Subfile:		Header:
Total Diversion:	0.000	Cause/Case:		
Owner:	US DEPARTMENT OF ENERGY	Owner Class:	Owner	
Contact:	GEORGE BASABILVAZO			

Documents on File

(acre-feet per annum)

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion	Consumptive
 _get images	548076	EXPL	2014-06-24	PMT	LOG	C 03749 POD1	T	0.000	0.000	

Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tw	Rng	X	Y	Map	Other Location Desc
C 03749 POD1		Shallow		NE	NE	15	23S	31E	616973.8	3575662.1		H-12

* 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.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

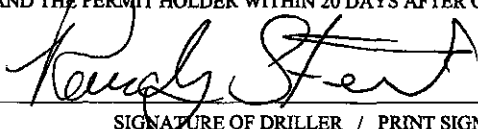
www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) C-3749 POD 1 (H12R)			OSE FILE NUMBER(S) C-3749 POD 1			
	WELL OWNER NAME(S) US Dept of Energy			PHONE (OPTIONAL) 575-234-7488			
	WELL OWNER MAILING ADDRESS POB 3090			CITY STATE ZIP Carlsbad NM 88221-3090			
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 18	SECONDS 42.0588 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
		LONGITUDE -103	45	26.7078 W			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE From Jal Hwy take Redd Rd 3 miles north, head west 1 mile on dirt road to H12 Well site							
2. DRILLING & CASING INFORMATION	LICENSE NUMBER NM 331		NAME OF LICENSED DRILLER Randy Stewart		NAME OF WELL DRILLING COMPANY Stewart Brothers		
	DRILLING STARTED 7/10/14	DRILLING ENDED 8/6/14	DEPTH OF COMPLETED WELL (FT) 865	BORE HOLE DEPTH (FT) 865	DEPTH WATER FIRST ENCOUNTERED (FT)		
	COMPLETED WELL IS: <input type="radio"/> ARTESIAN <input type="radio"/> DRY HOLE <input checked="" type="radio"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 639		
	DRILLING FLUID: <input type="radio"/> AIR <input type="radio"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY:						
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)
	FROM	TO					
	0	40	17 1/2	13 3/8	Weld	12 1/4	.375
	40	820	12 1/4	5" Fiberglass Blank	Threaded	4.5	
	820	846	12 1/4	5" Fiberglass Slotted	Threaded	4.5	.070
846	858	12 1/4	5" Fiberglass Blank	Threaded	4.5		
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT	
	FROM	TO					
	857	865	12 1/4	8/12 Sand	2	Tremie	
	851	857	12 1/4	Gelacryl Superflex Seal	1	Tremie	
	816	851	12 1/4	8/16 Sand Pack	6	Tremie	
	811	816	12 1/4	Fine Sand	1	Tremie	
	806	811	12 1/4	Gelacryl Super Flex	1	Tremie	

FOR OSE INTERNAL USE

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

FILE NUMBER C-3749	POD NUMBER 1	TRN NUMBER 548076
LOCATION 4-4-3	235.32E.07	
		PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	1	12	11	Dune sand and pad material	<input type="radio"/> Y <input checked="" type="radio"/> N	
	12	16	4	Mescalero Caliche	<input type="radio"/> Y <input checked="" type="radio"/> N	
	16	20	4	Gatuna (Sandstone)	<input type="radio"/> Y <input checked="" type="radio"/> N	
	20	70	50	Santa Rosa (Sandstone)	<input type="radio"/> Y <input checked="" type="radio"/> N	
	70	620	550	Dewy Lake Sandstone	<input type="radio"/> Y <input checked="" type="radio"/> N	
	620	648	28	Anhydrite	<input type="radio"/> Y <input checked="" type="radio"/> N	
	648	663	15	Mudstone	<input type="radio"/> Y <input checked="" type="radio"/> N	
	663	678	15	Anhydrite	<input type="radio"/> Y <input checked="" type="radio"/> N	
	678	702	4	Magenta Dolomite	<input type="radio"/> Y <input type="radio"/> N	
	702	756	54	Anhydrite	<input type="radio"/> Y <input type="radio"/> N	
	756	772	16	Halite	<input type="radio"/> Y <input type="radio"/> N	
	772	820	48	Anhydrite	<input type="radio"/> Y <input type="radio"/> N	
	820	846	26	Culebra Dolomite	<input checked="" type="radio"/> Y <input type="radio"/> N	
	846	856	10	Mudstone	<input type="radio"/> Y <input checked="" type="radio"/> N	
	856	865	9	Anhydrite	<input type="radio"/> Y <input checked="" type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="radio"/> PUMP					TOTAL ESTIMATED WELL YIELD (gpm): 5	
<input checked="" type="radio"/> AIR LIFT <input type="radio"/> BAILER <input type="radio"/> OTHER - SPECIFY:						
5. TEST; RIG SUPERVISION	WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.					
	MISCELLANEOUS INFORMATION:					
	Monitor Well					
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE						
Don Ward						
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:					
	 Randy Stewart 8/30/14 SIGNATURE OF DRILLER / PRINT SIGNED NAME DATE					

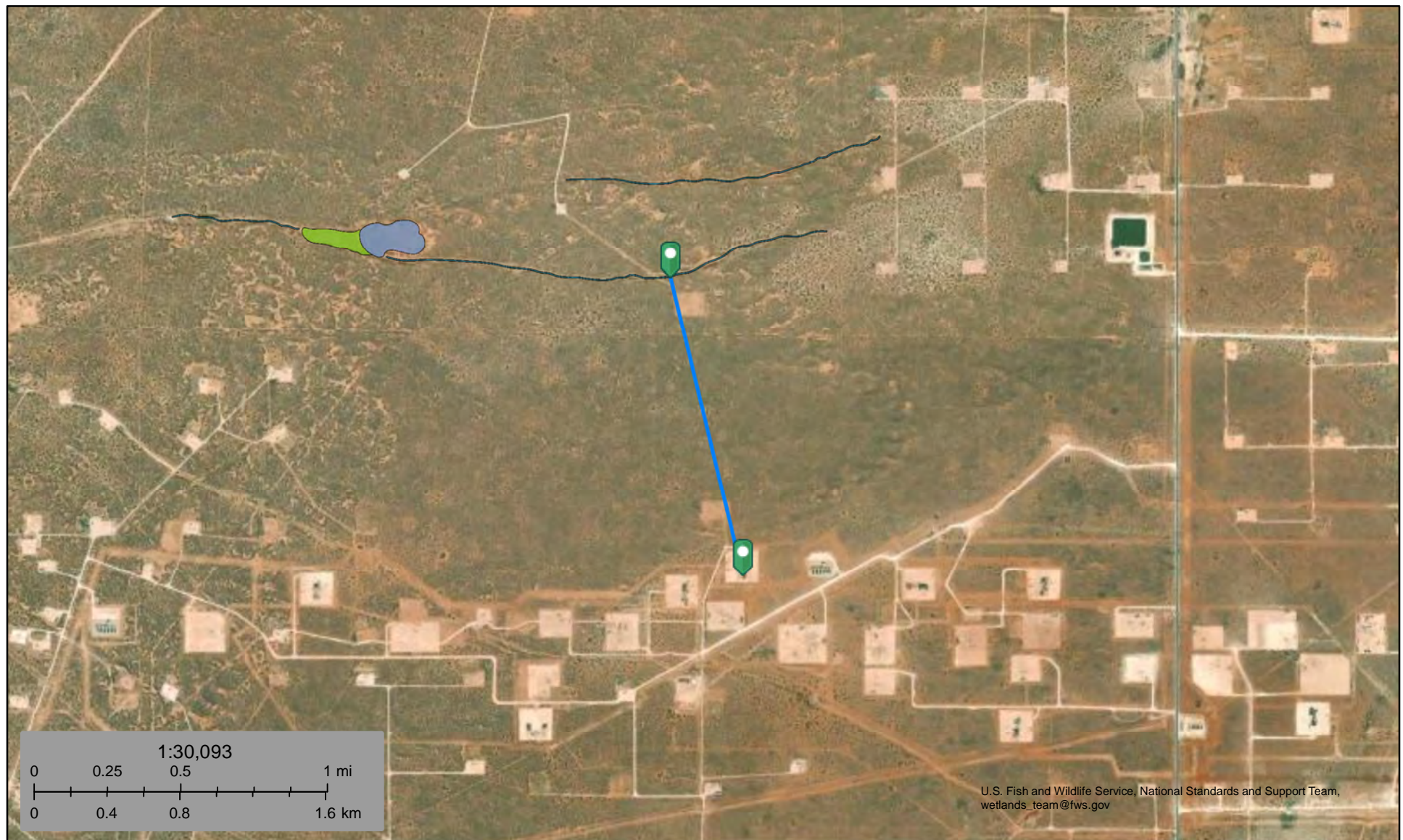
FOR OSE INTERNAL USE

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

FILE NUMBER	C-3749	POD NUMBER	1	TRN NUMBER	548076
LOCATION	4-4-3	23S.32E.07			PAGE 2 OF 2



Intermittent 4,640 Feet



November 24, 2025

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

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



Pond 6,930 feet



November 24, 2025

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond



- Lake
- Other
- Riverine

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

04_Aleutian 10 CTB2

15,366 feet to nearest residence

Legend

-  15,366 feet
-  Residence

Residence

32.3154437, -103.762132

Nortanita

128

Google Earth



1 mi

OSE POD

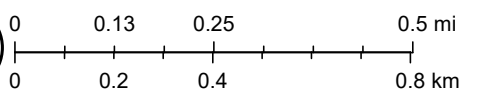


11/23/2025, 6:36:30 PM

GIS WATERS PODs

- | | |
|--------------------------|--------------------------|
| Pending | Unknown |
| Active | Pending |
| Inactive | Active |
| Changed Location of Well | Inactive |
| Capped | Changed Location of Well |
| Plugged | Capped |
| | Plugged |

- | |
|------------------------------|
| Unknown |
| World Imagery |
| Low Resolution 15m Imagery |
| High Resolution 60cm Imagery |
| High Resolution 30cm Imagery |
| Citations |
| 4.8m Resolution Metadata |



1:18,083

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

Active & Inactive Points of Diversion
(with Ownership Information)

WR File Nbr	(acre ft per annum)				Owner	County	POD Number	Well Tag	(R=POD has been replaced and no longer serves this file, C=the file is closed)			(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)							(NAD83 UTM in meters)		(meters)	
	Sub basin	Use	Diversion	Code					Grant	Source	q64	q16	q4	Sec	Tws	Range	X	Y	Map	Distance		
C 02777	CUB	MON	0.000		US DEPT OF ENERGY WIPP	ED	C 02777					SE	SE	SE	10	23S	31E	616973.8	3575662.1		572.5	
C 03749	CUB	MON	0.000		US DEPARTMENT OF ENERGY	ED	C 03749.POD1				Shallow		NE	NE	15	23S	31E	616973.8	3575662.1		572.5	
C 04724	CUB	MON	0.000		DEVON ENERGY	ED	C 04724.POD1	NA				SE	SW	SW	10	23S	31E	615709.7	3575738.3		876.6	
C 04855	CUB	MON	0.000		DEVON ENERGY PRODUCTION	ED	C 04855.POD1	NA				NE	SW	SW	11	23S	31E	617417.6	3575936.7		886.6	
C 04709	CUB	MON	0.000		DEVON ENERGY	ED	C 04709.POD1	NA				SW	NW	NW	15	23S	31E	615508.8	3575262.4		1,282.9	
C 02773	CUB	MON	0.000		U.S. DEPT. OF ENERGY - WIPP	ED	C 02773					SE	NW	SW	03	23S	31E	615668.0	3577762.0 *		1,936.4	
C 04712	CUB	MON	0.000		HARVARD PETROLEUM COMPANY LLC	ED	C 04712.POD4	NA				NW	SE	SW	14	23S	31E	617535.4	3574316.2		1,984.8	
C 03140	CUB	MON	0.000		US DEPT OF ENERGY	ED	C 03140				Shallow	SE	NE	SE	04	23S	31E	615266.0	3577758.0 *		2,143.7	
C 04712	CUB	MON	0.000		HARVARD PETROLEUM COMPANY LLC	ED	C 04712.POD5	NA				SE	SE	SW	09	23S	31E	614392.9	3575754.4		2,160.9	
C 03351	C	STK	3.000		BUREAU OF LAND MANAGEMENT	ED	C 03351				Shallow	SE	NW	SE	04	23S	31E	614916.6	3577861.1		2,443.7	
C 04776	CUB	MON	0.000		DEVON ENERGY RESOURCES	ED	C 04776.POD1	NA				SW	SW	SW	09	23S	31E	613953.1	3575651.8		2,610.6	
C 04774	CUB	MON	0.000		DEVON ENGERGY RESOURCES	ED	C 04774.POD1	NA				SE	NE	NE	23	23S	31E	618456.0	3573856.4		2,900.9	
C 02774	CUB	MON	0.000		U.S. DEPT. OF ENERGY - WIPP	ED	C 02774					SW	NW	SW	04	23S	31E	613857.0	3577745.0 *		3,180.4	
C 04704	CUB	MON	0.000		DEVON ENERGY	ED	C 04704.POD1	NA				SW	NE	NE	13	23S	31E	619854.4	3575363.5		3,384.9	
C 04712	CUB	MON	0.000		HARVARD PETROLEUM COMPANY LLC	ED	C 04712.POD6	NA				SW	SW	SE	08	23S	31E	613146.6	3575740.1		3,401.9	
C 02769	CUB	MON	0.000		U.S. DEPT. OF ENERGY - WIPP	ED	C 02769.POD2				Artesian	SE	NE	SE	33	22S	31E	615260.6	3579312.3		3,520.5	
C 02687	CUB	MON	0.000		SANDIA NATIONAL LABORATORIES	ED	C 02687					SE	NE	SE	33	22S	31E	615246.0	3579364.0 *		3,573.9	
C 04897	CUB	MON	0.000		OXY USA INC.	ED	C 04897.POD1	NA				NW	NE	SW	21	23S	31E	614374.0	3573036.6		3,693.3	
C 02767	CUB	MON	0.000		U.S. DEPT. OF ENERGY - WIPP	ED	C 02767					SE	NW	SE	33	22S	31E	614844.0	3579360.0 *		3,734.3	
C 02768	CUB	MON	0.000		U.S. DEPT. OF ENERGY - WIPP	ED	C 02768					SE	NW	SE	33	22S	31E	614844.0	3579360.0 *		3,734.3	
C 02769	CUB	MON	0.000		U.S. DEPT. OF ENERGY - WIPP	ED	C 02769					NE	NE	SE	33	22S	31E	615246.0	3579564.0 *		3,761.1	
C 04712	CUB	MON	0.000		HARVARD PETROLEUM COMPANY LLC	ED	C 04712.POD3	NA				SE	NW	NE	24	23S	31E	619650.7	3573877.9		3,786.4	
C 04772	CUB	MON	0.000		DEVON ENERGY RESOURCES	ED	C 04772.POD1	NA				NW	NW	NW	04	23S	31E	613895.0	3578780.5		3,812.4	
C 02664	CUB	MON	0.000		SANDIA NATIONAL LABORATORIES	ED	C 02664				Shallow	SW	SW	NE	05	23S	31E	613049.0	3578138.0 *		4,074.1	
C 04726	CUB	MON	0.000		DEVON ENERGY	ED	C 04726.POD1	NA				NW	NW	SE	01	23S	31E	619538.3	3578821.3		4,098.7	
C 03389	C	STK	3.000		JIMMY MILLS 2005 GST TRUST	ED	C 03389					NW	NW	SW	17	23S	31E	612316.0	3574683.0		4,430.1	
C 03394	C	PUB	0.000		JAMES HAMILTON CONSTRUCTION CO	ED	C 03389					NW	NW	SW	17	23S	31E	612316.0	3574683.0		4,430.1	
C 02258	C	PRO	0.000		DEVON ENERGY CORP. (NEVADA)	ED	C 02258					SW	NE	26	23S	31E	618055.0	3571853.0 *		4,445.6		
C 04200	CUB	EXP	0.000		JIMMY MILLS GST TRUST	ED	C 04200.POD3	NA				NE	NE	07	23S	31E	612130.3	3577147.3		4,544.9		
C 03138	CUB	MON	0.000		U.S. DEPT. OF ENERGY	ED	C 03138					SW	SW	SW	26	22S	31E	617043.0	3580591.0 *		4,588.1	
C 04200	CUB	EXP	0.000		JIMMY MILLS GST TRUST	ED	C 04200.POD5	NA				SE	SE	06	23S	31E	612138.8	3577393.1		4,603.3		

	(acre ft per annum)				(R=POD has been replaced and no longer serves this file, C=the file is closed)					(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)							(NAD83 UTM in meters)		(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	Map	Distance
C 02954	CUB	EXP	0.000	U.S. DEPARTMENT OF ENERGYCARLSBAD FIELD OFFICE, WIPP	ED	C 02954 EXPL				Shallow	SW	NW	SE	20	23S	31E	613114.0	3572906.0 *		4,634.2
C 02492	CUB	COM	105.000	THE JIMMY MILLS GST TRUST	ED	C 02492				Shallow	SE	SE	SE	06	23S	31E	612056.0	3577320.0 *		4,661.8
C 02865	CUB	EXP	0.000	STACY MILLS	ED	C 02865					SE	SE	SE	06	23S	31E	612056.0	3577320.0 *		4,661.8
C 02757	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C 02757					SE	SE	SE	28	22S	31E	615232.0	3580571.0 *		4,723.6
C 04200	CUB	EXP	0.000	JIMMY MILLS GST TRUST	ED	C 04200 POD2	NA					NE	NE	07	23S	31E	611893.1	3577123.1		4,769.6
					ED	C 04200 POD4	NA					SE	SE	06	23S	31E	611996.2	3577521.8		4,778.3
					ED	C 04200 POD1	NA					NE	NE	07	23S	31E	611802.8	3577058.6		4,843.5
C 03668	C	STK	3.000	J T MILLS 2005 GST TRUST	ED	C 02492 POD2				Shallow	SW	NE	NE	07	23S	31E	611767.4	3576996.6		4,865.4
C 04943	CUB	EXP	0.000	PILOT WATER SOLUTIONS	ED	C 04943 POD1	NA				NE	NE	NE	35	22S	31E	618500.0	3580485.1		4,867.9
C 02756	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C 02756					SW	SE	SE	26	22S	31E	618250.0	3580606.0 *		4,885.5
C 03152	CUB	MON	0.000	U.S. DEPT OF ENERGY	ED	C 03152				Shallow	SW	SE	SE	26	22S	31E	618250.0	3580606.0 *		4,885.5
C 02776	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C 02776					NE	NW	NW	05	23S	31E	612440.0	3578731.0 *		4,905.8

Record Count: 43

Filters Applied:

UTM Filters (in meters):

Easting: 616536

Northing: 3576031

Radius: 005000

Sorted By: Distance

* UTM location was derived from PLSS - see Help

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11/23/25 6:08 PM MST

Active & Inactive Points of Diversion

Point of Diversion Summary

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

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tw	Rng	X	Y	Map
C 02777	SE	SE	SE	10	23S	31E	616973.8	3575662.1		

* UTM location was derived from PLSS - see Help

Driller License:	331	Driller Company:	SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.
Driller Name:			
Drill Start Date:		Drill Finish Date:	Plug Date:
Log File Date:		PCW Rcv Date:	Source:
Pump Type:		Pipe Discharge Size:	Estimated Yield:
Casing Size:	5.50	Depth Well:	890
			Depth Water:

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Water Right Summary



[get image](#)
[list](#)

WR File Number:	C 02777	Subbasin:	CUB	Cross Reference:
Primary Purpose:	MON MONITORING WELL			
Primary Status:	PMT Permit			
Total Acres:	0.000	Subfile:	Header:	
Total Diversion:	0.000	Cause/Case:		
Owner:	US DEPT OF ENERGY WIPP	Owner Class:	Owner	
Contact:	GEORGE BASABILVAZO			

Documents on File

(acre-feet per annum)

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion	Consumptive
get images 478628		REPAR	2011-05-27	PMT	APR	C 02777	T	0.000	0.000	
get images 195802		DCL	2000-11-06	DCL	PRC	C 02777	T	0.000	0.000	

Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	TwS	Rng	X	Y	Map	Other Location Desc
C 02777			SE	SE	SE	10	23S	31E	616973.8	3575662.1		

* 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
	SE	SE	SE	10	23S	31E	0.000	0.000		MON		DCL	

Source


Acres	Diversion	CU	Use	Priority	Source	Description
0.000	0.000		MON		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.

Point of Diversion Summary

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

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	C 03351	SE	NW	SE	04	23S	31E	614916.6	3577861.1	

* UTM location was derived from PLSS - see [Help](#)

Driller License:	421	Driller Company:	GLENN'S WATER WELL SERVICE
Driller Name:	GLENN, CLARK A. "CORKY" (LD)		
Drill Start Date:	2007-11-20	Drill Finish Date:	2007-11-20
Log File Date:	2007-12-04	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:	25
Casing Size:	6.63	Depth Well:	320
		Depth Water:	168

Water Bearing Stratifications:

Top	Bottom	Description
240	265	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
152	304

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.

Water Right Summary



[get image list](#)

WR File Number:	C 03351	Subbasin:	C	Cross Reference:
Primary Purpose:	STK 72-12-1 LIVESTOCK WATERING			
Primary Status:	PMT Permit			
Total Acres:		Subfile:		Header:
Total Diversion:	3.000	Cause/Case:		
Owner:	BUREAU OF LAND MANAGEMENT	Owner Class:	Owner	
Contact:	STEVE DALY			

Documents on File

(acre-feet per annum)

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion	Consumptive
get images	469289	72121	2007-11-15	PMT	LOG	C 03351	T		3.000	

Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map	Other Location Desc
C 03351		Shallow	SE	NW	SE	04	23S	31E	614916.6	3577861.1		

* 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.



Wetland 7,440 feet



November 24, 2025

Wetlands

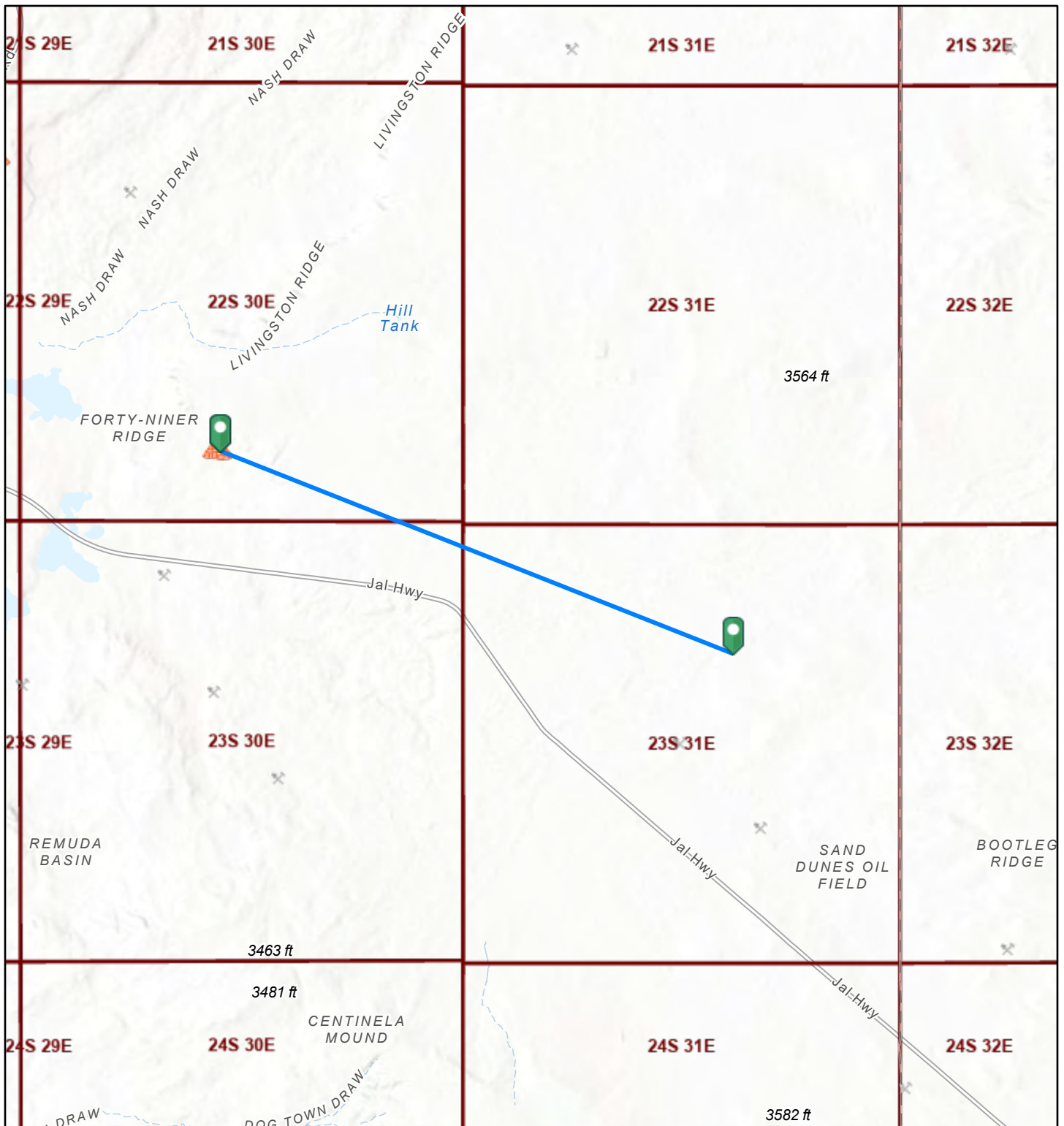
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

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

Potash, 40,000 feet



11/23/2025, 5:33:12 PM

1:144,448

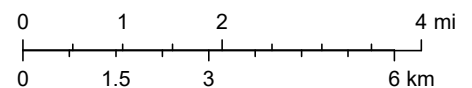
Registered Mines

Aggregate, Stone etc.

Aggregate, Stone etc.

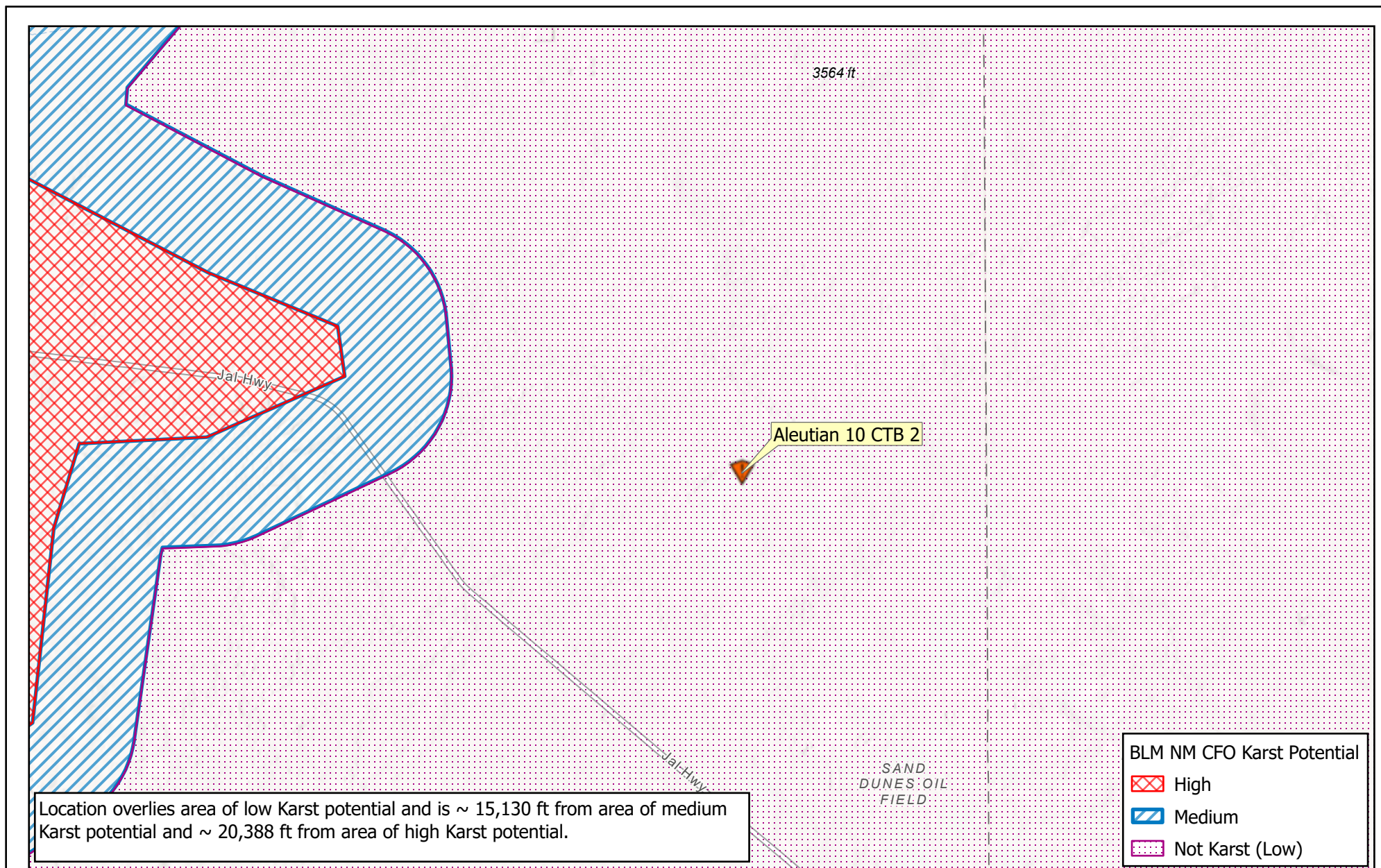
Potash

PLSS Townships



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

EMNRD MMD GIS Coordinator



0 3,000 6,000 US Feet

NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Map Center:
Lat/Long: 32.31841°N, 103.768484°W

Date: Nov 10/25



Karst Potential
Aleutian 10 CTB 2

PLATE:

8



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

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

VERSATILITY. EXPERTISE.

National Flood Hazard Layer FIRMette



103°46'2"W 32°19'11"N



1:6,000

103°45'25"W 32°18'40"N

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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

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




The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/9/2025 at 9:42 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.

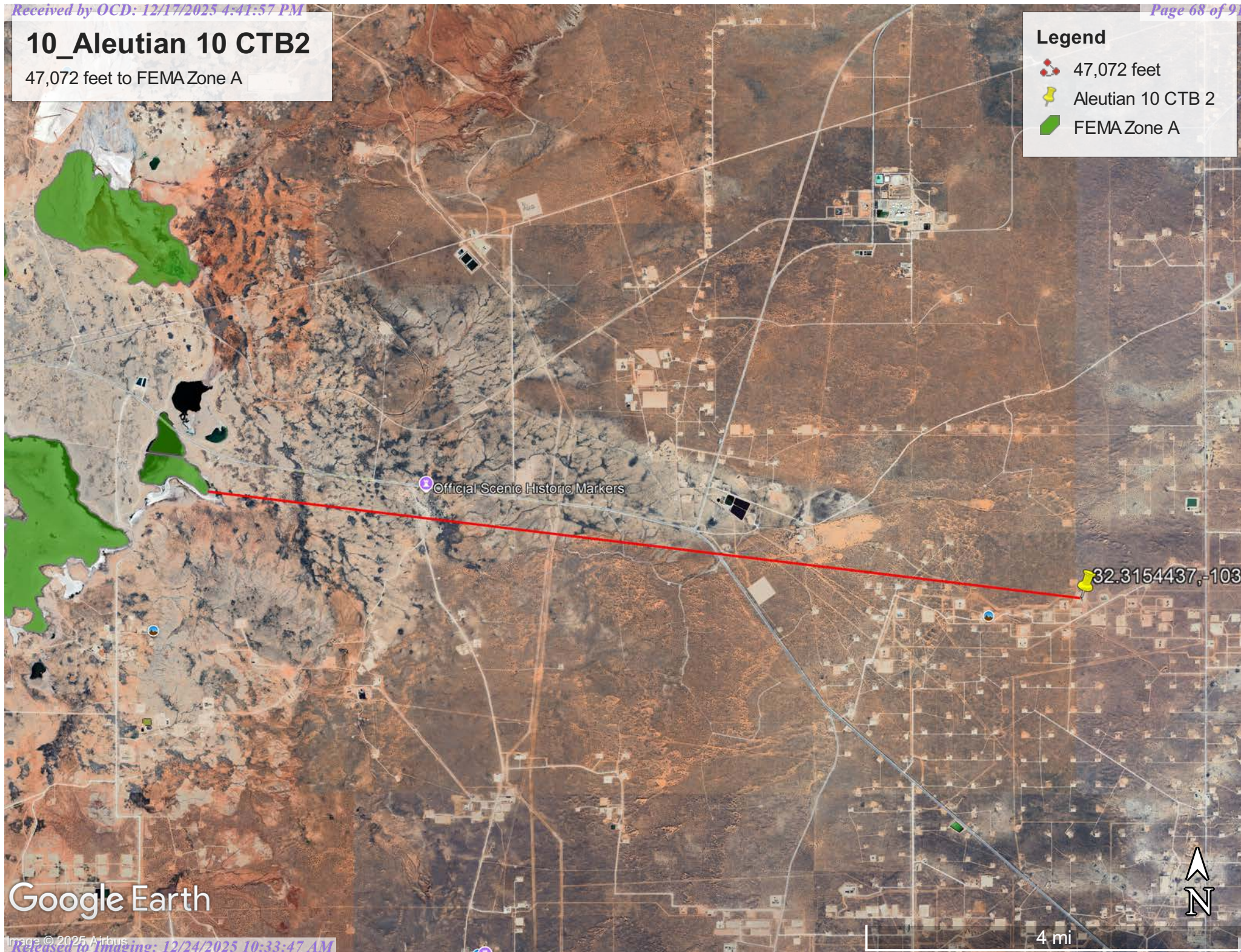
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory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

10_Aleutian 10 CTB2

47,072 feet to FEMA Zone A

Legend

-  47,072 feet
-  Aleutian 10 CTB 2
-  FEMA Zone A



Google Earth



United States
Department of
Agriculture

NRCS

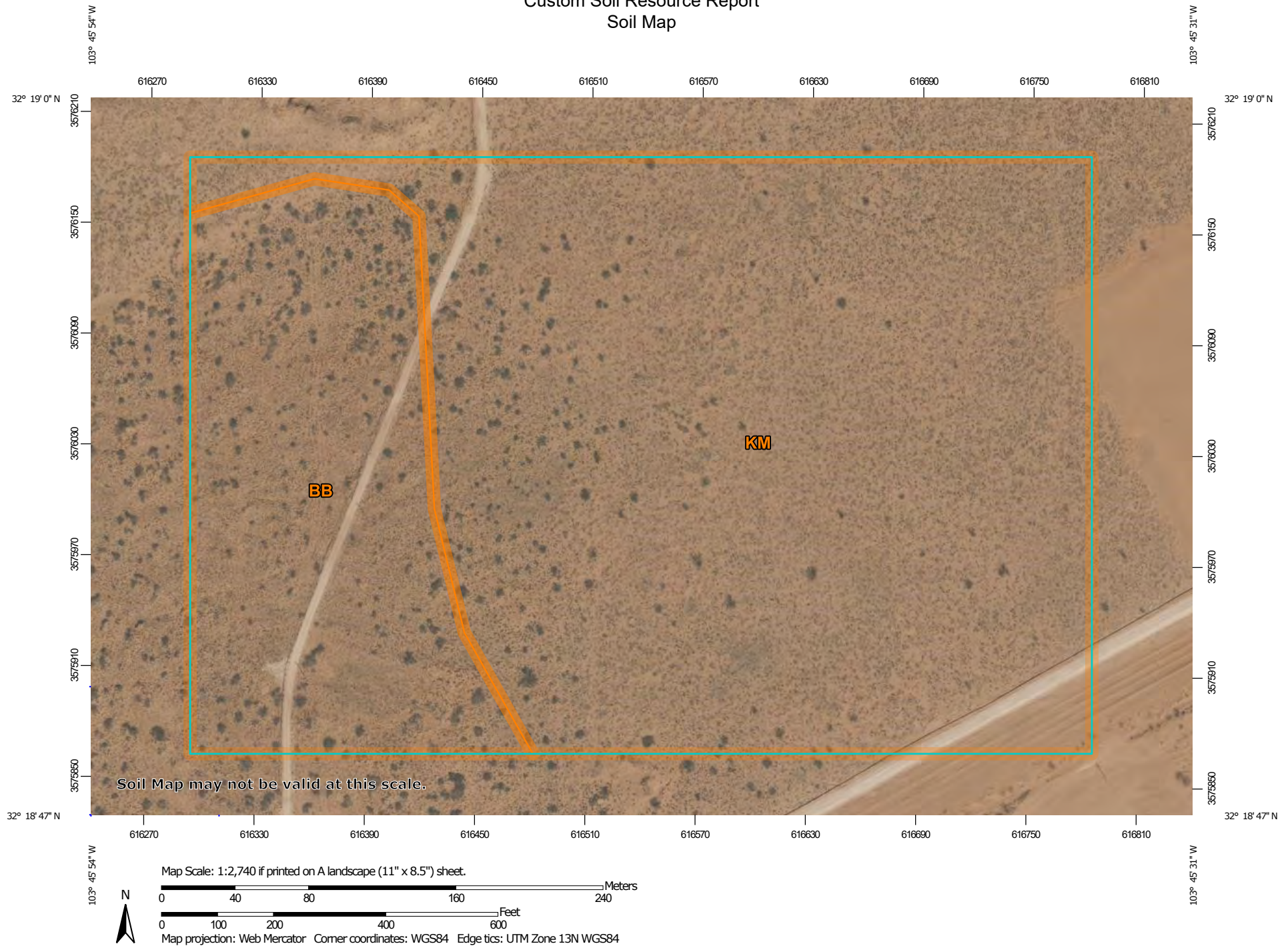
Natural
Resources
Conservation
Service

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

Custom Soil Resource Report for Eddy Area, New Mexico



November 9, 2025

Custom Soil Resource Report
Soil Map

Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)


Soils


 Soil Map Unit Polygons


 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features

 Blowout

 Borrow Pit

 Clay Spot


 Closed Depression

 Gravel Pit


 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water


 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot


 Sinkhole

 Slide or Slip


 Sodic Spot

 Spoil Area

 Stony Spot


 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

Water Features

 Streams and Canals


Transportation

 Rails

 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

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

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

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

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 21, Sep 9, 2025

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.

Custom Soil Resource Report

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:* Fan piedmonts, plains*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

Custom Soil Resource Report

Description of Pajarito**Setting**

Landform: Interdunes, plains, dunes
Landform position (three-dimensional): Side slope
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
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

Custom Soil Resource Report

KM—Kermit-Berino fine sands, 0 to 3 percent slopes**Map Unit Setting**

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

Map Unit Composition

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

Description of Kermit**Setting**

Landform: Alluvial fans, plains
Landform position (three-dimensional): Talf, rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

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

Properties and qualities

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

Interpretive groups

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

Custom Soil Resource Report

Description of Berino**Setting**

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

Typical profile

H1 - 0 to 17 inches: fine sand
H2 - 17 to 50 inches: fine sandy loam
H3 - 50 to 58 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 7.2 inches)

Interpretive groups

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

Minor Components**Active dune land**

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

Ecological site R070BD005NM

Deep Sand

Accessed: 11/09/2025

General information

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

Figure 1. Mapped extent

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

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site occurs on terraces, Piedmonts, dunes fields, or upland plains. Parent material consists of eolian deposits and alluvium derived from sandstone. Slopes range from 0 to 15 percent, usually less than 5 percent. Low, stabilized hummocks or dunes frequently occur. Elevations range from 2,842 to 4,500 feet.

Table 2. Representative physiographic features

Landforms	(1) Dune (2) Parna dune (3) Terrace
Flooding frequency	None
Ponding frequency	None
Elevation	2,842–4,500 ft

Slope	0–15%
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 is in late March or early April, and the first killing frost is in late October or early November.

Both temperature and moisture favor warm season perennial plant growth. During years of abundant winter and early spring moisture, cool season growth and annual forbs, make up an important component of this site. Strong winds blow from the west 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 deep or very deep. Surface textures are sand loam, fine sand or loamy fine sand, Underlying material textures are loamy fine sand, fine sand, sand or fine sandy loam. Because of the coarse textures and rapid drying of the surface, the soil, if unprotected by plant cover and organic residue, becomes windblown and low hummocks or dunes are formed around shrubs.

Characteristic soils are:

Anthony
Aguena
Kermit
Likes
Pintura
Bluepoint

Table 4. Representative soil features

Surface texture	(1) Sand (2) Fine sand (3) Loamy fine sand
Family particle size	(1) Sandy
Drainage class	Well drained to excessively drained
Permeability class	Moderate to very rapid
Soil depth	60–72 in
Surface fragment cover ≤3"	0–5%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	3–5 in
Calcium carbonate equivalent (0-40in)	5–15%
Electrical conductivity (0-40in)	0–4 mmhos/cm
Sodium adsorption ratio (0-40in)	0–2
Soil reaction (1:1 water) (0-40in)	6.6–7.8
Subsurface fragment volume ≤3" (Depth not specified)	5–10%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

Overview

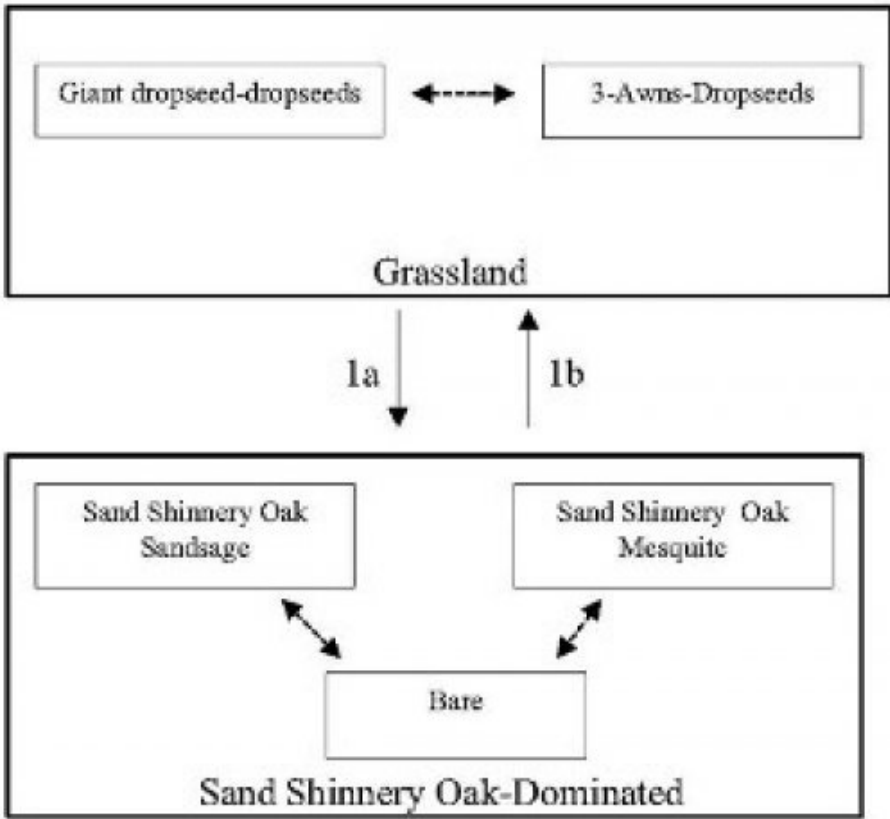
The Deep Sand site occurs adjacent to and/or intergraded with the Sandhills and Sandy sites (SD-3). The Deep Sand site can be distinguished by slopes less than eight percent

(approximately five percent) and textural changes at depths greater than 40 inches. The Deep Sand site has well drained soils with a surface texture of sand or loamy fine sand. The Sandhills site has slopes greater than eight percent and textural depths greater than 60 inches. Conversely, the Sandy site has slopes less than five percent and depths to textural change commonly around 20 inches. The historic plant community of the Deep Sand site is dominated primarily by giant dropseed (*Sporobolus giganteus*) and other dropseeds (*S. flexuosus*, *S. contractus*, *S. cryptandrus*), with scattered shinnery oak (*Quercus havardii*) and soapweed yucca (*Yucca glauca*). Other herbaceous species include threeawns (*Aristida* spp.), bluestems (*Schizachyrium scoparium* and *Andropogon hallii*), and annual and perennial forbs distributed relative to precipitation occurrences. Bare ground and litter compose a significant proportion of ground cover while grasses are the remainder. Shinnery oak will increase with an associated decrease in dropseed and bluestem abundance possibly due to climatic change, fire suppression, interspecific competition, and excessive grazing. Continued grass cover loss may result in a transition to a shinnery oak dominated state with increases in sand sage (*Artemisia filifolia*) and honey mesquite (*Prosopis glandulosa*). However, brush management may restore the grassland component and reverse the shinnery oak state back toward the historic plant community.

State and transition model

Plant Communities and Transitional Pathways (diagram)

MLRA-42, SD-3, Deep Sand



1.a Climate, fire suppression, competition,
over grazing

1.b Brush control, Prescribed grazing

State 1

Historic Climax Plant Community

Community 1.1

Historic Climax Plant Community

State Containing Historic Plant Community Grassland: The historic plant community is dominated by giant dropseed, other dropseeds, threeawns, and bluestems. Dominant woody plants include shinnery oak and soapweed yucca. Forb abundance and distribution varies and is dependent on annual rainfall. The Deep Sand site typically exists in sandy plains and dunes (Sosebee 1983). Grass dominance stabilizes the potentially erosive sandy soils. Historical fire suppression, however, may have contributed to increased woody plant abundance, which has reduced grass species. Further, drought conditions compounded with excessive grazing likely has driven most grass species out of competition with shrubs which has resulted in a shinnery oak dominated state with sand sage and mesquite (Young et al. 1948). Diagnosis: Grassland dominated by dropseeds, threeawns, and bluestems. Small shrubs, such as shinnery oak and soapweed yucca, and subshrubs are dispersed throughout the grassland. Other grasses that could appear on this site would include: flatsedge, almejita signalgrass, big bluestem, Indiangrass, fall witchgrass, hairy grama and red lovegrass Other shrubs include: fourwing saltbush, mesquite, ephedra and broom snakeweed. Other forbs include: wooly and scarlet gaura, wooly dalea, phlox heliotrope, scorpionweed, deerstongue, fleabane, nama, hoffmanseggia, lemon beebalm and stickleaf.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	396	858	1320
Shrub/Vine	108	234	360
Forb	96	208	320
Total	600	1300	2000

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	0%
Grass/grasslike foliar cover	15-20%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	35-40%
Surface fragments >0.25" and <=3"	0%

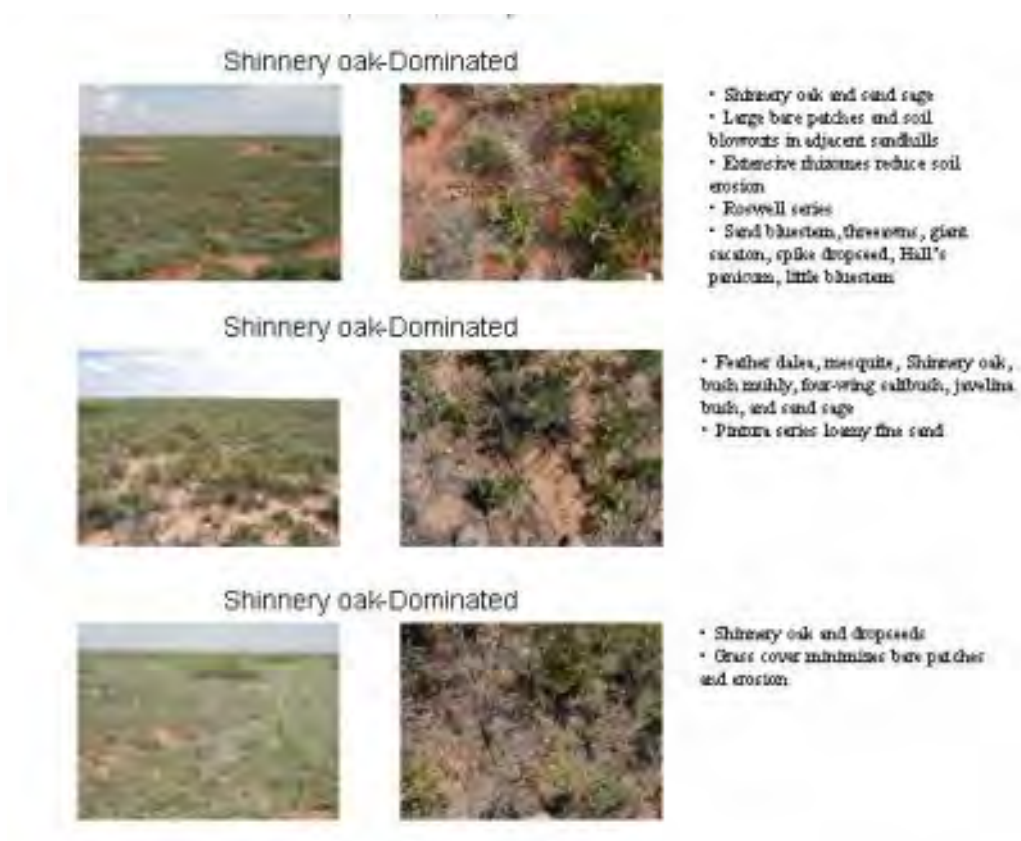
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	35-40%

Figure 5. Plant community growth curve (percent production by month). NM2805, HCPC. SD-3 Deep Sand - Warm season plant community .

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

State 2 Shinnery Oak Dominated

Community 2.1 Shinnery Oak Dominated

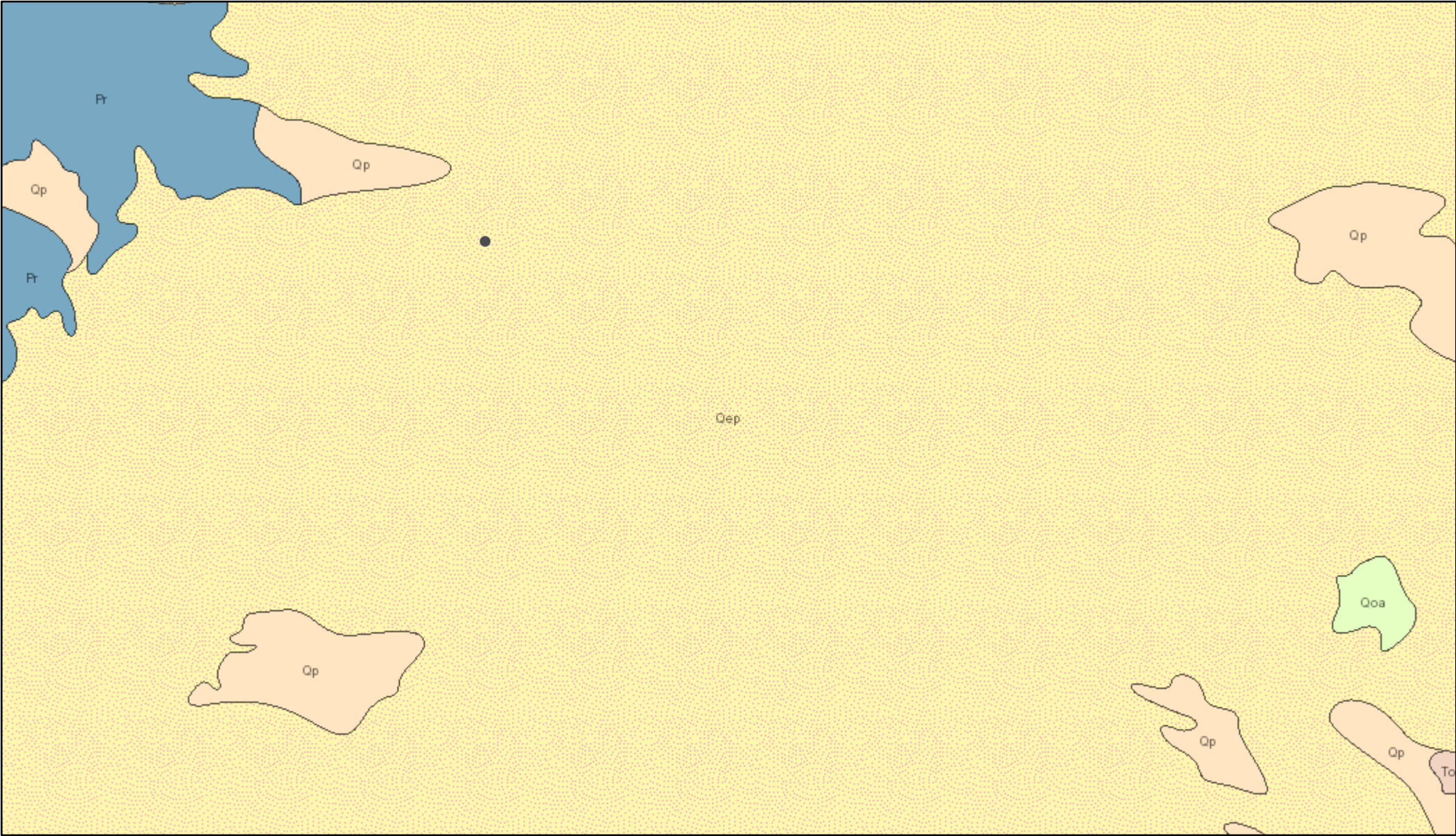


Shinnery Oak Dominated: This state is dominated by shinnery oak with subdominants of sand sage or mesquite. Bare ground is a significant component in this state as well. Shinnery oak is characterized by dense stands in sandy soils; however, as clay percentage increases, shinnery oak decreases. Shinnery oak abundance and distribution increase with disturbances, such as excessive grazing and fire, due to an aggressive rhizome system. As shinnery oak abundance increases, an associated increase of mesquite, sand sage, and soapweed yucca also occurs. Shinnery oak's extensive root system allows the oak to competitively exclude grasses and forbs. Sand sage, however, stabilizes light sandy soils from wind erosion and can co-exist with herbaceous species by protecting them in heavily grazed conditions (Davis and Bonham 1979). Shinnery oak has been found primarily in very deep, excessively drained, and rapidly permeable soils. Shinnery oak is associated with landforms which are gently undulating to rolling uplands, very gently sloping to moderately steep slopes, and upland plains, alluvial fans and valley sideslopes. Shinnery oak and sand sage can be controlled with herbicide if applied in the spring with a subsequent rest from grazing (Herbel et al. 1979, Pettit 1986). In addition, repetitive seasons of goat browsing can also reduce shinnery oak abundance. Patches should be maintained during brush control, however, to prevent erosion and to provide wildlife cover and forage. Further, as shinnery oak and other shrubs increase, bare patches and erosion will increase due to a lack of herbaceous ground cover. **Diagnosis:** Shinnery oak dominated with subdominant sand sage, honey mesquite, and soapweed yucca with increasing frequency and size of bare patches. **Transition to Shinnery oak dominated state (1a):** The historic plant community begins to shift toward the shinnery oak dominated state as drivers such as climate change, 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 an increase of shrub species abundance and bare patch expansion. **Key indicators of approach to transition:** • Loss of grass and forb cover • Surface soil erosion • Bare patch expansion • Increased shrub species abundance and composition **Transition to Historic Plant Community (1b):** The shinnery oak dominated state may transition back toward the historic plant community as new drivers are introduced such as prescribed grazing, brush control, and discontinued drought conditions.

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass/Grasslike					
1	Warm Season			450–585	
	spike dropseed	SPCO4	<i>Sporobolus contractus</i>	450–585	–
	sand dropseed	SPCR	<i>Sporobolus cryptandrus</i>	450–585	–
	mesa dropseed	SPFL2	<i>Sporobolus flexuosus</i>	450–585	–



7/27/2021, 2:44:08 PM

Lithologic Contacts

— Contact, Exposed

— Contact, Gradational

— Map Boundary

Faults

— Fault, Exposed

----- Fault, Concealed

~ ~ ~ Shere Zone

Dikes

— Fault, Intermittent

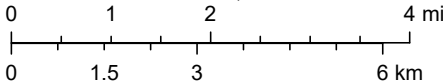
— <all other values>

— Dike

— Dike intruding fault

* Volcanic Vents

1:144,448



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 Ecosystems; U.S.

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

QUESTIONS

Action 534929

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 534929
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2530748842
Incident Name	NAPP2530748842 ALEUTIAN 10 CTB 2 @ FAPP2300331384
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Facility	[fAPP2300331384] ALEUTIAN 10 CTB 2

Location of Release Source*Please answer all the questions in this group.*

Site Name	ALEUTIAN 10 CTB 2
Date Release Discovered	11/01/2025
Surface Owner	Federal

Incident Details*Please answer all the questions in this group.*

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

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

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Dump Line Produced Water Released: 7 BBL Recovered: 0 BBL Lost: 7 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)	Dumpline pinhole leak allowed fluids to be released to pad surface.

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QUESTIONS, Page 2

Action 534929

QUESTIONS (continued)

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QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.

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

Initial Response

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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvsn.com Date: 12/17/2025
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QUESTIONS, Page 3

Action 534929

QUESTIONS (continued)

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	Action Number: 534929
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 500 and 1000 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 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 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>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.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
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)	12000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>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>	
On what estimated date will the remediation commence	12/20/2025
On what date will (or did) the final sampling or liner inspection occur	12/31/2025
On what date will (or was) the remediation complete(d)	12/20/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	883
What is the estimated volume (in cubic yards) that will be remediated	12
<i>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.</i>	
<i>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.</i>	

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QUESTIONS, Page 4

Action 534929

QUESTIONS (continued)

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	Action Number: 534929
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(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.
<i>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>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dv.com Date: 12/17/2025
<i>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.</i>	

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QUESTIONS, Page 5

Action 534929

QUESTIONS (continued)

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QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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Action 534929

QUESTIONS (continued)

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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 534929

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	Action Number: 534929
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved with the following conditions: The minimum distance to a wetland is required to be updated during C-141 application resubmission. To the question, "What is the minimum distance, between the closest lateral extents of the release and the following surface areas: A wetland," was answered, "Between 1 and 5 (mi.)." According to the National Wetlands Inventory Mapper, a wetland riverine is located 1/2-1 mile north of release. Submit report to the OCD by 3/24/26.	12/24/2025