EAST VACUUM (GSA) UNIT #001

nTO1434346107

PREPARED BY SAPEC-ECO, LLC.
PREPARED FOR MAVERICK PERMIAN, LLC.

Proposed Sampling and Remediation Work Plan

April 2, 2025

Sapec-Eco
5846 E 21st Place
Tulsa, OK 74114

Attn: NMOCD District 1
1625 N French Dr.
Hobbs, NM 88240

Re: Proposed Sampling and Remediation Work Plan
NMOCD Incident Number: ***nTO1434346107***
East Vacuum (GSA) Unit #001 API No. 30-025-32063
Unit E, Section 33, Township 17S, Range 35E 1560 FNL 1080 FWL Lea County, NM
GPS Coordinates: Latitude 32.7944145 Longitude -103.4677658 NAD83

Sapec-Eco (Sapec) has been contracted by Maverick Permian, LLC. (Maverick) to review and research this historic incident then prepare this proposed sampling and remediation work plan for a produced water release that occurred at the East Vacuum (GSA) Unit #001 (Site). This incident was assigned Incident ID nTO1434346107 by the New Mexico Oil Conservation Division (NMOCD).

Release Information – nTO1434346107

The initial Form C-141 was submitted on December 2, 2014 (Appendix A) and stated that "MSO responded to a stuffing box leak on the 3366-001 resulting in the release of 3 BO and 79 BPW. MSO notified supervisor and HSE. After further observation, it was decided to call in Projects to assist. Due to time of day, the decision was made to let well bleed C02 overnight. A reverse unit was moved in and hooked up and well was bled down to reverse pit. 50 bbls of mud and 30 BBLS Brine water was pumped and well was killed. Rams on stuffing box closed, packing changed and well isolated. Spill area was 600 Ft X 200 Ft X 1/8" and 100FT X 100 FT X 2" with 2BO and 48 BPW recovered and will be remediated according to NMOCD guidelines." This initial Form C-141 was approved by the NMOCD on December 9, 2014.

Site Characterization

This Site is in Lea County, NM, approximately seventeen and a half (17.5) miles northwest of Hobbs, NM. The wellhead is in Unit E, Section 33, Township 17S, Range 35E, 32.7944145 degrees latitude and -103.4677658 degrees longitude. The physical location of this release area covers portions of Units E, F, D, and C of section 33 T17S, R35E. A Location Map is included for reference in Figure 5.

The New Mexico Bureau of Geology and Mineral Resources shows the geology at this Site includes Ogallala Formation. Alluvial and eolian deposits, and petrocalcic soils of the southern High Plains. Locally includes Qoa. A Geologic Unit Map can be found in Appendix C.

The soil type present at the Site is Kimbrough-Lea complex, dry, 0 to 3 percent slopes. The drainage class for this soil type is well drained. Soil type information is according to the United States Department of Agriculture Natural Resources Conservation Service soil survey. The Soil Survey and a Soil Map can be referenced in Appendix C. Reference Figure 4 for a Topographic Map.

The Site resides in a low karst zone and is approximately 26.14 miles away from the nearest medium karst zone. Figure 3 refers to the Karst Map.

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 90 feet below grade surface (bgs). This information is recorded by L-04829 S5 which is situated approximately 607 feet southwest of the Site. The information, however, is older than 25 years. The United States Geological Survey (USGS) offers the site USGS 324720103280101 17S.35E.33.13321 which shows depth to the nearest groundwater is 61 feet bgs. The latest gauge of this site was conducted in 1981, and it is located approximately 660 feet southwest.

The nearest surface water feature is McAdams Park Pond, and it is located approximately 15.4 miles to the east. The U.S. Fish and Wildlife Service National Wetlands Inventory shows the nearest wetland to be a Freshwater Pond approximately 475 feet northeast which was slightly affected by overspray from this release. According to Fema's National Flood Hazard Layer search, the Site is situated in Zone D – Area of Undetermined Flood Hazard and is more than 5 miles away from the nearest flood hazard zone. See Appendix B for referenced Water Surveys and Water-Related Maps.

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Readily available data were reviewed to determine if the Site lies within biologically sensitive areas. The U.S. Fish and Wildlife Services (USFWS) Information for Planning and Consultation (IPaC) and the New Mexico Department of Game and Fish (NMDGF) Environmental Review Tool (ERT) were queried to determine if sensitive wildlife or plant areas are present at the Site. The Site is not identified to be within biologically sensitive areas where remediation/reclamation would impact sensitive wildlife or plant habitats. A Special Status Plant/Wildlife Map is included in Figure 2.

The remediation/reclamation area at the Site is in previously disturbed and previously undisturbed areas developed for oil and gas extraction; therefore, a cultural resource survey will be required at the Site for planned remediation/reclamation activities. The requirements of the Cultural Properties Protection (CCP) Rule will be followed.

Assessment and Delineation Activities

On December 2, 2014, Basin Environmental Service Technologies (Basin) personnel were on site to assess the release. The release was mapped and photographed. An 8 Point Composite was taken from the overspray area and sent to a commercial laboratory for analysis. Laboratory analysis of the 8 Point Overspray Composite returned a chloride value of 224 mg/kg, a Gasoline Range Organics (GRO) value of non-detect and a Diesel Range Organics (DRO) value of 16.8 mg/kg.

On December 4, 2014, the first application of Micro Blaze, a total of 30 gallons mixed with 1,500 gallons of fresh water, was applied evenly over the overspray area.

On December 8, 2014, the second application of Micro Blaze, a total of 45 gallons mixed with 2,250 gallons of fresh water was applied evenly over the overspray area.

On August 8, 2015, 6 sample points were taken from the release area at the surface and with depth and representative samples were sent to a commercial laboratory for analysis. At the surface, Point 1 returned a chloride value of 592 mg/kg, a Gasoline Range Organics (GRO) value of non-detect and a Diesel Range Organics (DRO) value of 192 mg/kg. At 1 ft, Point 1 returned a chloride value of 304 mg/kg and a GRO and DRO values of non-detect. At the surface, Point 2 returned a chloride value of 5,060 mg/kg, a GRO value of non-detect and a DRO value of 22.8 mg/kg. At 3.5 ft, Point 2 returned a chloride value of 848 mg/kg, a GRO value of non-detect and a DRO value of 12.3 mg/kg. At the surface, Point 3 returned a chloride value of 2,840 mg/kg, a GRO value of non-detect and a DRO value of 205 mg/kg. At 7 ft, Point 3 returned a chloride value of 512 mg/kg and GRO and DRO values of non-detect. At the surface, Point 4 returned a chloride value of 6,800 mg/kg, a GRO value of non-detect and a DRO value of 46.3 mg/kg. At 3 ft, Point 4 returned a chloride value of 288 mg/kg, a GRO value of non-detect and a DRO value of 18.3 mg/kg. At the surface, Point 5 returned a chloride value of 2,560 mg/kg, a GRO value of non-detect and a DRO value of 6,370 mg/kg. At 6 in, Point 5 returned a chloride value of 464 mg/kg and GRO and DRO values of non-detect. At the surface, Point 6 returned a chloride value of 192 mg/kg and GRO and DRO values of non-detect. At 6 in, Point 6 returned a chloride value of 224 mg/kg and GRO and DRO values of non-detect.

To determine if the residual chlorides in the lease pad's vadose zone pose a threat to groundwater quality, Basin ran the U.S. Environmental Protection Agency Exposure Assessment Multimedia Model (MULTIMED Version 1.5, 2005). Model outputs and the graph are included in Appendix C. With the impact area of 160 ft x 60 ft, the model output concludes that the peak concentration of chlorides in groundwater contributed by the vadose zone soils would be approximately 195 mg/L in 175 years. Since the estimated increase in chloride concentrations in groundwater from residual chloride migration is below the WQCC standard of 250 mg/L, no action is warranted for the groundwater at this site.

Basin completed a Corrective Action Plan that was submitted to the NMOCD on October 6, 2015. The plan was approved by the NMOCD on October 8, 2015, with three stipulations. This plan, along with the stipulations of approval, can be found in the Incident Files link on the OCD Permitting page for this incident. It is also included for reference as Appendix E.

Proposed Sampling & Remediation Activities

Due to the previously approved Corrective Action Plan being almost 10 years old, the site characterization information has been updated to reflect current standards. Because no further documented activity has taken place at this Site, Maverick would like to propose the following:

- The areas of concern measure as follows:
  - Primary Release Area – 28,354 square feet
  - Heavy Overspray Area – 170,949 square feet
  - Light Overspray Area – 244,366 square feet

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Tulsa, OK 74114

- Collect discrete samples from within and around the edges of the primary release area to evaluate the presence of contaminants. Seventy-five (75) samples will be collected from 15 different sample points within the release area from depths of surface, 1', 2', 3', and 4' bgs. Thirty (30) samples will be collected from 6 different sample points around the edges of the release area from depths of surface, 1', 2', 3', and 4' bgs.
- Collect discrete samples from within the heavy overspray area to evaluate the presence of contaminants. Twelve (12) samples will be collected from 6 different sample points within this area from depths of surface and 1' bgs.
- Collect discrete samples from within the light overspray area to evaluate the presence of contaminants. Six (6) samples will be collected from 6 different sample points within the area from a depth of surface-6" bgs.
- Collect discrete samples from within the rainwater areas to evaluate the presence of contaminants. If water is present, collect two (2) water samples from 2 different sample points within the rainwater pond areas to be analyzed. If water is not present collect four (4) samples from 2 different sample points within the rainwater pond areas from depths of surface and 1' bgs.
- All samples will be put on ice, prepared for delivery, then delivered to Envirotech Analytical Laboratories where they will be analyzed for all the constituents listed in Table 1 19.15.29.12 NMAC.
- A 48-hour sampling notification will be issued to the NMOCD for these sampling events. A variance request is included below for permission to use the delineation samples as confirmations samples depending on the sample results of the soil. A Proposed Sample Map can be found in Figure 1.
- If any samples do not verify delineation, then the "step-out" method will be used for horizontal delineation samples until sample results can confirm delineation. Also, for vertical delineation samples, any samples not verifying delineation will be advanced deeper until sample results can confirm delineation.
- Sample results that are over the regulatory limits of the less than 50-foot to groundwater section of Table 1 will be measured for total area and affected volume then removed via mechanical excavation means. The contaminated soil will be hauled to an NMOCD-approved disposal facility and clean, like material will be brought to the Site for backfilling the excavated area. Ensuring the top two (2) feet of soil, at a minimum, will be clean topsoil that will be prepared as a seed bed and reseeded with the approved seed mixture for the soil type and area.
- Once all sample results confirm delineation is complete, and contamination isn't present or has been removed, a remediation closure report will be drafted and submitted to the NMOCD Pay Portal for review/approval.

Variance Request

Maverick would like to respectfully request to use the delineation samples as confirmation samples in the event the laboratory samples results confirm that no contamination is present at any or all of the sample points. Maverick will diligently remediate all contaminants found that have reported results being over the regulatory limits of the less than 50-foot depth to groundwater section of Table 1 19.15.29.12 NMAC. Since the majority of this area of concern is in the pasture, and has affected a wetland, the reclamation standard outlined in 19.15.29.13 NMAC will be followed. Chlorides should be no more than 600 mg/kg. TPH (GRO+DRO+ORO) should be no more than 100 mg/kg. BTEX should be no more than 50 mg/kg. Benzene should be no more than 10 mg/kg.

Once official verification is received that contaminants are not present, or have been successfully removed from all areas within and around the Site, a remediation closure report will be drafted and submitted for approval. During this time, reclamation and revegetation activities will commence. After all activities have been performed and documented, a final reclamation and revegetation report will be drafted and submitted for approval.

Request for Proposed Sampling & Remediation Work Plan Approval

Maverick requests that this proposed sampling & remediation work plan for incident ID nTO1434346107 be approved. All rules and regulations set forth in 19.15.29.12 NMAC have been complied with.

For questions or additional information, please reach out to:
Maverick Permian – Bryce Wagoner – Bryce.Wagoner@mavresources.com – (928) 241-1862
Sapec-Eco, LLC – Tom Bynum – tombynum@sapec-eco.com – (580) 748-1613

Sapec-Eco
5846 E 21st Place
Tulsa, OK 74114

Attachments

Figures:

1- Proposed Sample Map
2- Special Status Plant/Wildlife Map
3- Karst Map
4- Topographic Map
5- Location Map

Appendices:

Appendix A – Initial Form C-141
Appendix B – Water Surveys & Water-Related Maps
Appendix C – Soil Surveys, Soil Map, & Geologic Unit Map
Appendix D – Photographic Documentation
Appendix E – NMOCD-Approved Corrective Action Plan (2015)

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Figures:

Proposed Sample Map

Special Status Plant/Wildlife Map

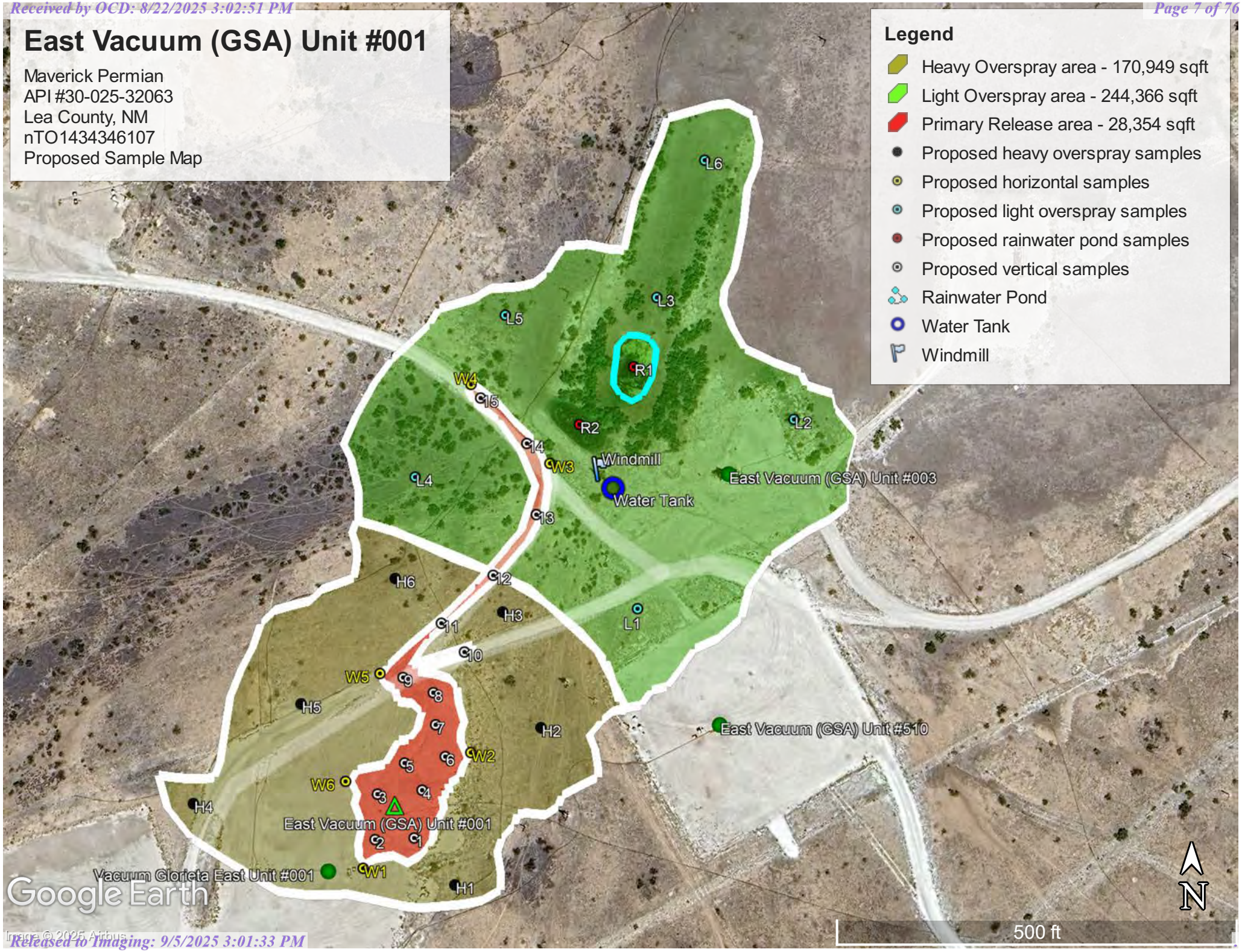
Karst Map

Topographic Map

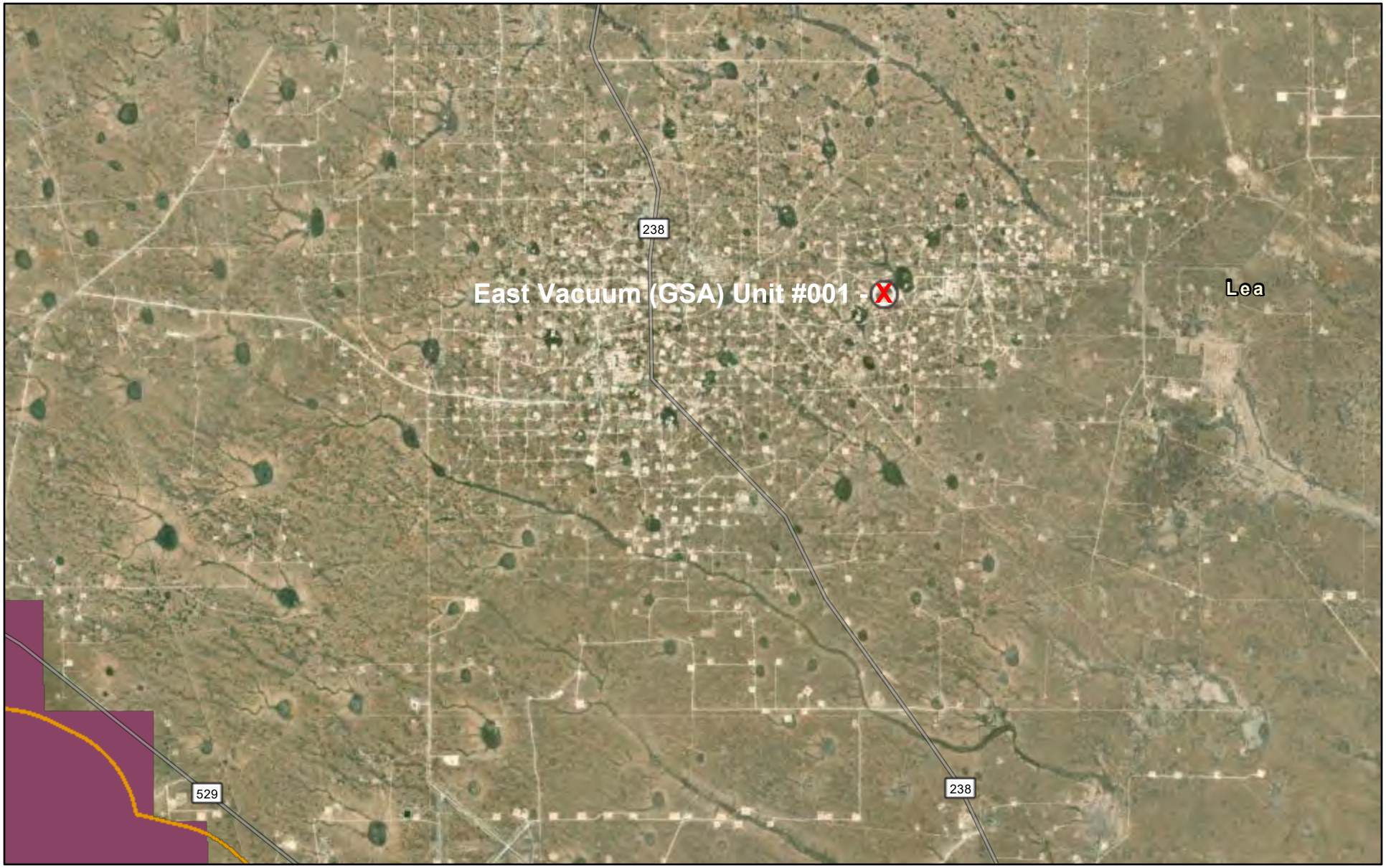
Location Map

East Vacuum (GSA) Unit #001

Maverick Permian
API #30-025-32063
Lea County, NM
nTO1434346107
Proposed Sample Map



Special Status Plant/Wildlife Map



3/28/2025

1:94,144

0 0.5 1 2 mi

0 1 2 4 km

Dunes Sage Brush Lizard Habitat

Lesser Prairie Chicken Habitat

Isolated Population Area

World Imagery

Low Resolution 15m Imagery

High Resolution 60cm Imagery

High Resolution 30cm Imagery

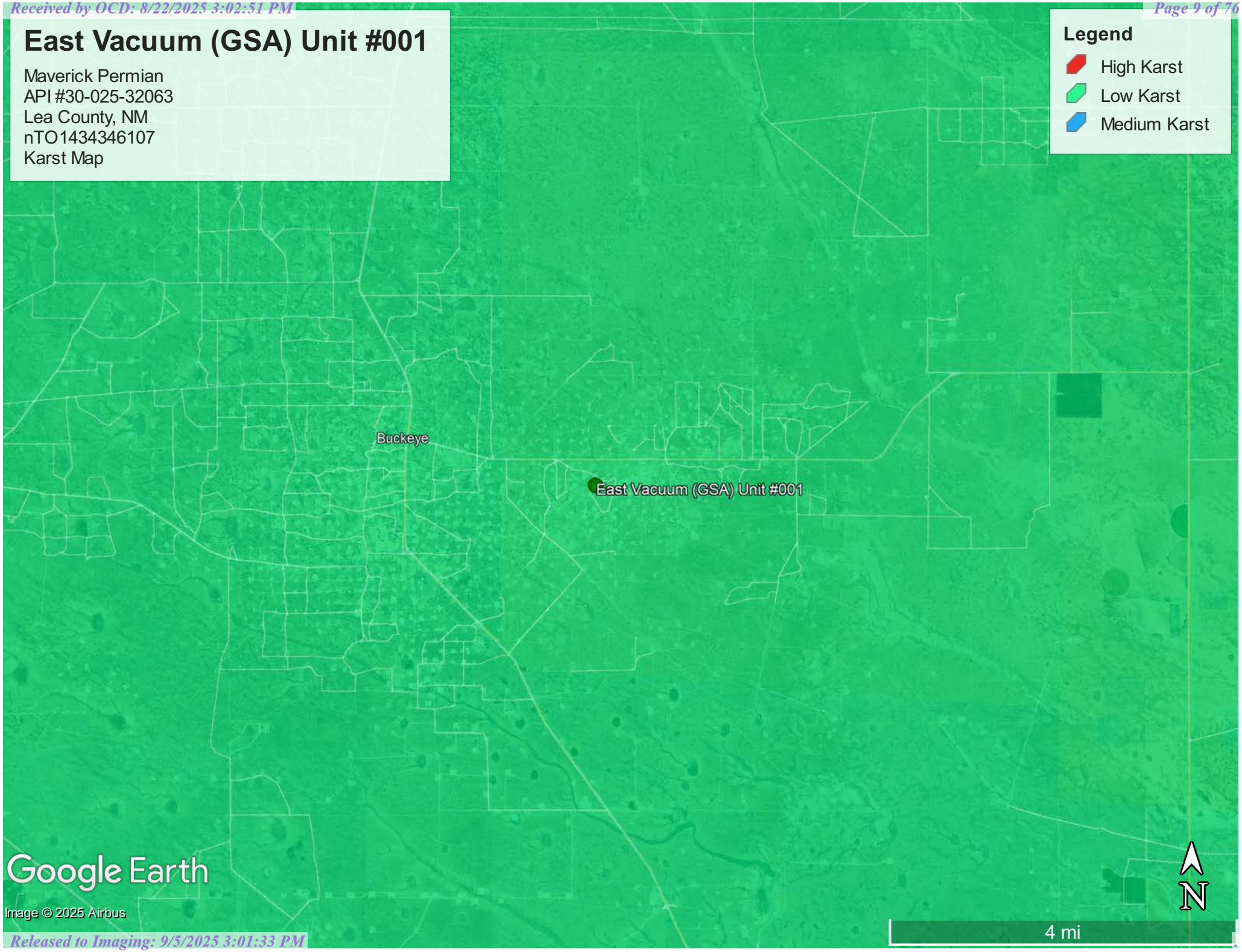
Citations

19m Resolution Metadata

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

East Vacuum (GSA) Unit #001

Maverick Permian
API #30-025-32063
Lea County, NM
nTO1434346107
Karst Map

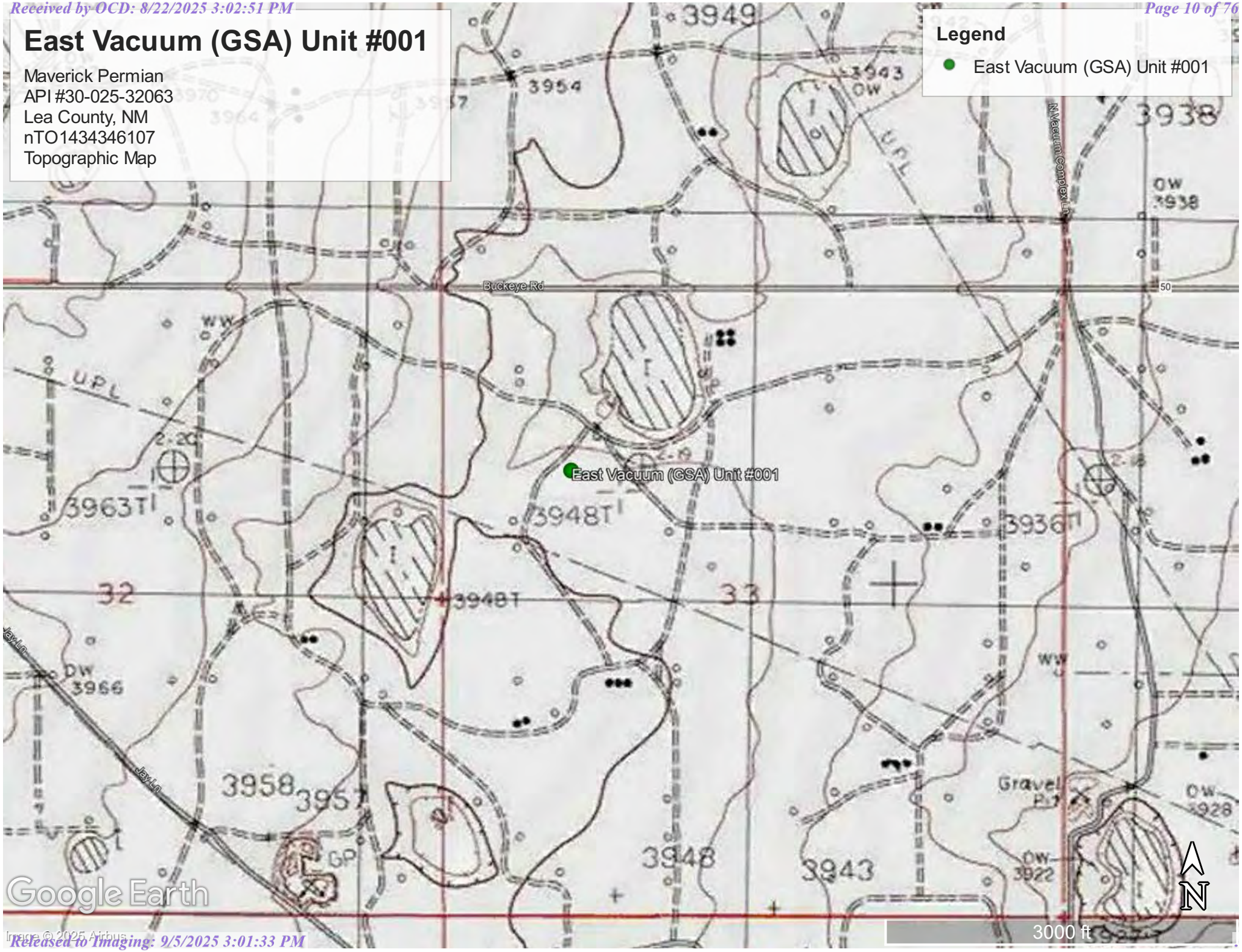


East Vacuum (GSA) Unit #001

Maverick Permian
API #30-025-32063
Lea County, NM
nTO1434346107
Topographic Map

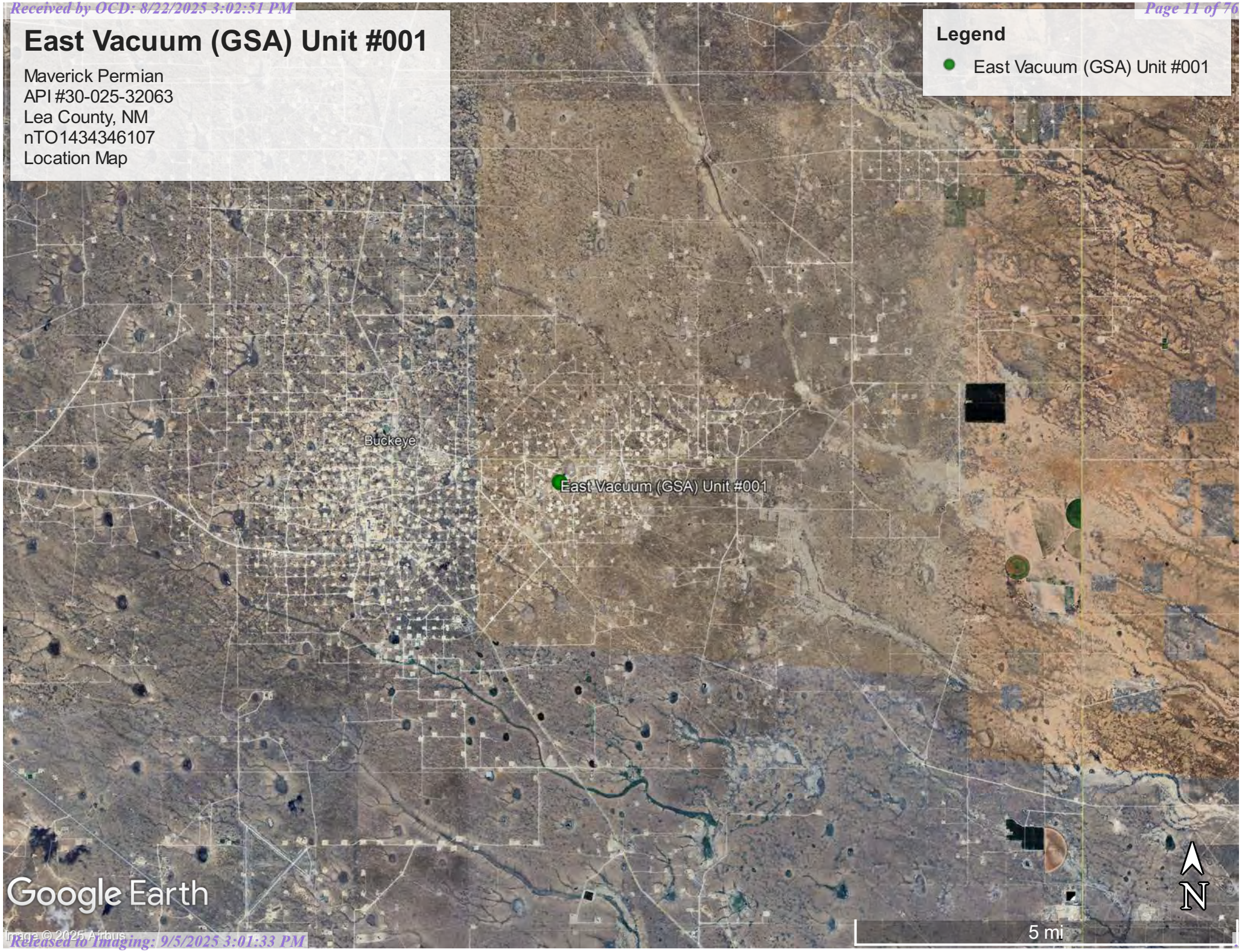
Legend

- East Vacuum (GSA) Unit #001



East Vacuum (GSA) Unit #001

Maverick Permian
API #30-025-32063
Lea County, NM
nTO1434346107
Location Map



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Appendix A

Initial Form C-141

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

HOBBS OCD
DEC 09 2014
RECEIVED

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: **ConocoPhillips**	Contact: **Jay Garcia**
Address: **29 Vacuum Lane**	Telephone No. **575-391-3180**
Facility Name: **EVGSAU 3366-001**	Facility Type: **Oil Well**

Surface Owner: State	Mineral Owner: State	API No3002532063

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	33	17S	35E	1560	North	1080	West	**LEA**

Latitude 32.7944120519521 **Longitude** 103.467737546431

NATURE OF RELEASE

Type of Release: **Spill**	Volume of Release: 82 BBLS	Volume Recovered: 50 BBLS
Source of Release: Pressure switch	Date and Hour of Occurrence **12/1/2014 1:00 pm**	Date and Hour of Discovery **SAME**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **Tomas Oberding**	
By Whom? **Jay Garcia**	Date and Hour: **12/2/2014 3:00 pm**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.* MSO responded to a stuffing box leak on the 3366-001resulting in the release of 3 BO and 79 BPW. MSO notified supervisor and HSE. After further observation, it was decided to call in Projects to assist. Due to time of day, the decision was made to let well bleed C02 overnight. A reverse unit was moved in and hooked up and well was bled down to reverse pit. 50 bbls of mud and 30 BBLS Brine water was pumped and well was killed. Rams on stuffing box closed, packing changed and well isolated. Spill area was 600 Ft X 200 Ft X 1/8" and 100FT X 100 FT X 2" with 2BO and 48 BPW recovered and will be remediated according to NMOCD guidelines.

Describe Area Affected and Cleanup Action Taken.*
. Spill area was 600 Ft X 200 Ft X 1/8" and 100FT X 100 FT X 2" with 2BO and 48 BPW recovered and will be remediated according to NMOCD guidelines.

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

Signature: *Jay Garcia*	OIL CONSERVATION DIVISION	
Printed Name: Jay Garcia	Approved by Environmental Specialist:	
Title: LEAD HSE	Approval Date: 12-9-15	Expiration Date: 2-9-15
E-mail Address: ***jay.c.garcia@conocophillips.com***	Conditions of Approval: Site Sample report. Submit Remediation proposal per NMOCD guidelines. Submit final C-141 by 2-9-15	Attached ☐ IRP-3440
Date: 1/2/2014 Phone:575-391-3180		

* Attach Additional Sheets If Necessary

21781 2
n7014 34 346107
p7014 34 346671

DEC 11 2014

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5846 E 21st Place
Tulsa, OK 74114

Appendix B

Water Surveys

Water-Related Maps

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is closed) (quarters are smallest to largest) (meters) (In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
L 04829 S5		L	LE		SW	NW	33	17S	35E	643347.0	3629400.0 *		185	220	90	130
L 04578		L	LE				33	17S	35E	643962.0	3629198.0 *		592	126	60	66
L 04880		L	LE		NE	SW	33	17S	35E	643757.0	3629002.0 *		603	145	90	55
L 05362		L	LE	SW	SE	SE	28	17S	35E	644444.0	3630117.0 *		1131	140	80	60
L 04586		L	LE	SW	SW	SE	33	17S	35E	644065.0	3628502.0 *		1189	125	50	75
L 04633		L	LE		NE	SE	33	17S	35E	644564.0	3629010.0 *		1209	130	65	65
L 04631		L	LE	NE	NW	NW	04	18S	35E	643465.0	3628292.0 *		1242	140	60	80
L 05834	R	L	LE	NE	NE	SE	33	17S	35E	644663.0	3629109.0 *		1262	160	70	90
L 04829 S		L	LE		SW	SE	32	17S	35E	642554.0	3628586.0 *		1321	198	85	113
L 05834 POD5		L	LE	NE	NE	SE	33	17S	35E	644751.9	3629029.3		1374	234	65	169

Average Depth to Water: **71 feet**

Minimum Depth: **50 feet**

Maximum Depth: **90 feet**

Record Count: 10

Basin/County Search:
County: LE

UTM Filters (in meters):
Easting: 643473.95
Northing: 3629534.71
Radius: 01500

*** 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.

OSE POD Location Map

3/28/2025, 12:53:43 PM

GIS WATERS PODs
- Active
- Pending
- Inactive
- Plugged

OSE District Boundary

Water Right Regulations
- Artesian Planning Area

New Mexico State Trust Lands
- Both Estates

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

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

Online web user

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

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

site_no list =

- 324720103280101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

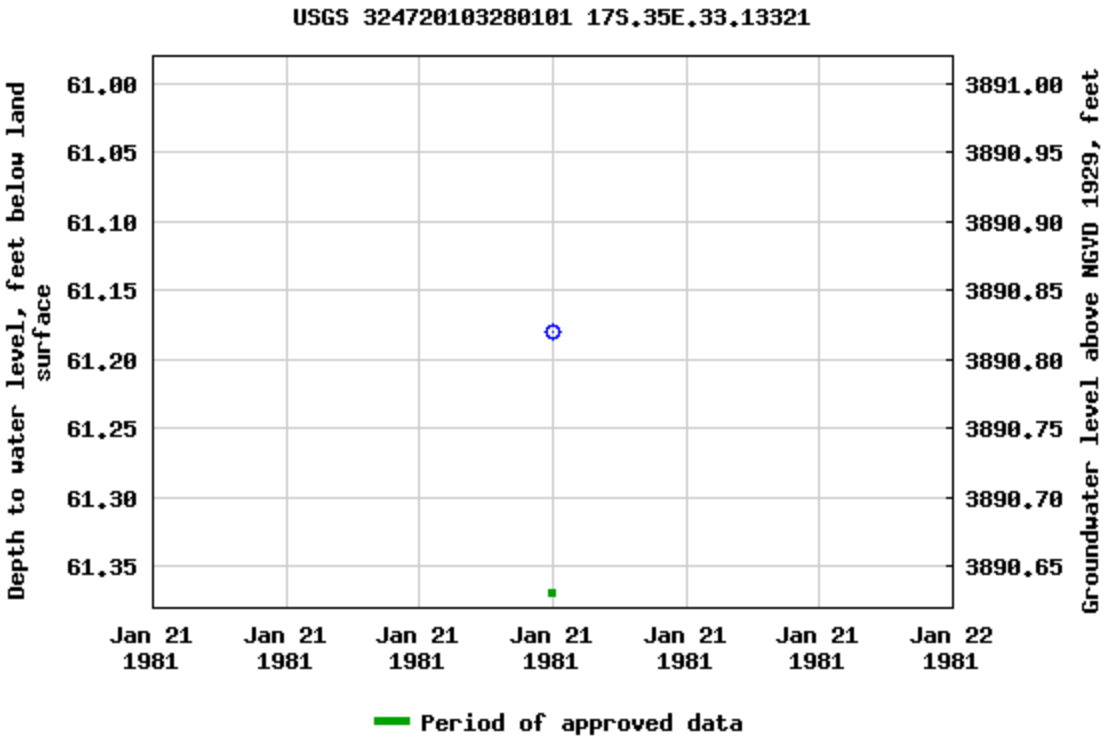
USGS 324720103280101 17S.35E.33.13321

Available data for this site | Groundwater: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code 12080003
Latitude 32°47'35", Longitude 103°28'10" NAD27
Land-surface elevation 3,952.00 feet above NGVD29
The depth of the well is 220 feet below land surface.
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

Questions or Comments
Help
Data Tips
Explanation of terms
Subscribe for system changes

Accessibility FOIA Privacy Policies and Notices

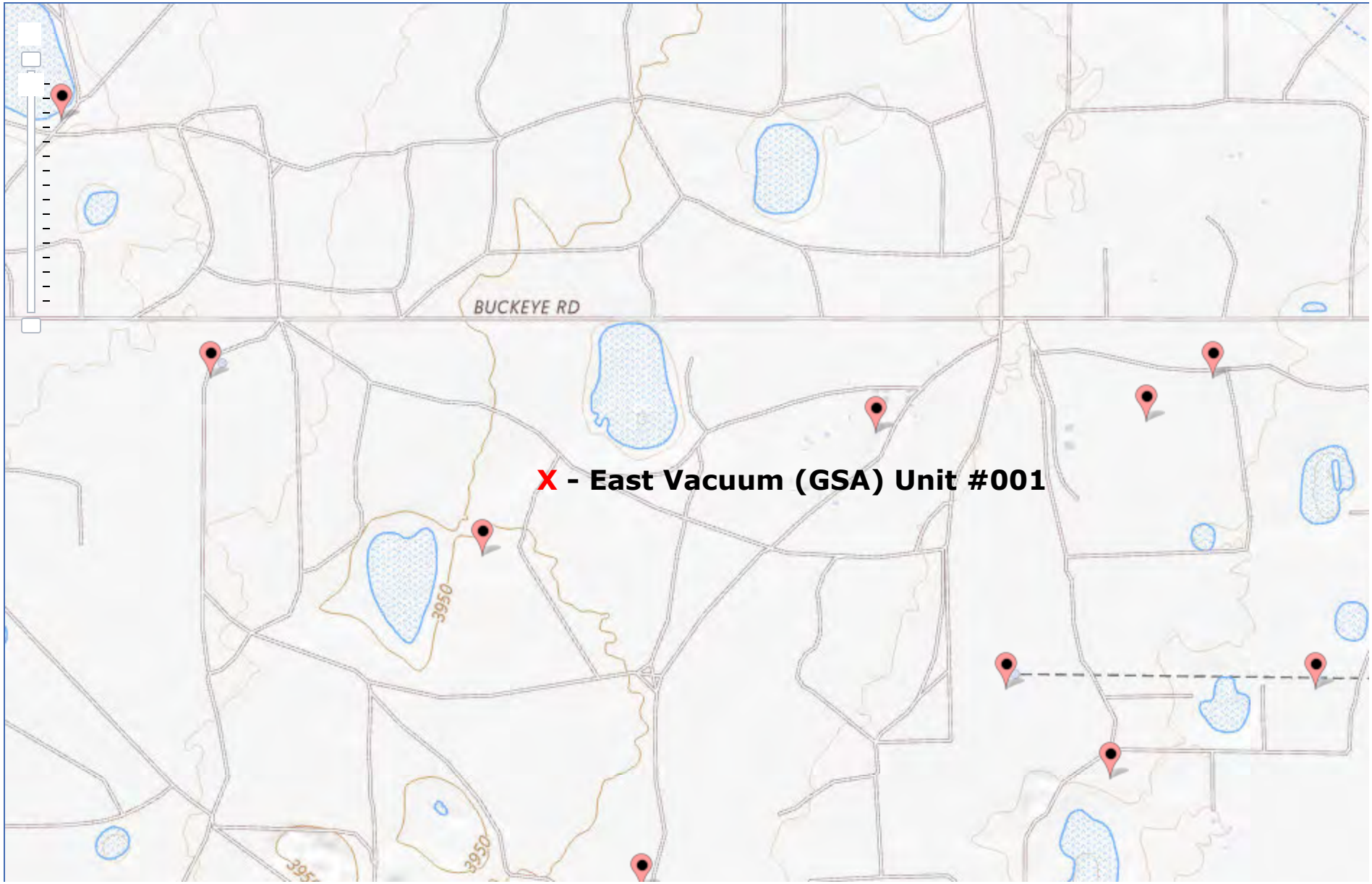
U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2025-03-28 13:56:26 EDT
0.68 0.5 nadww02

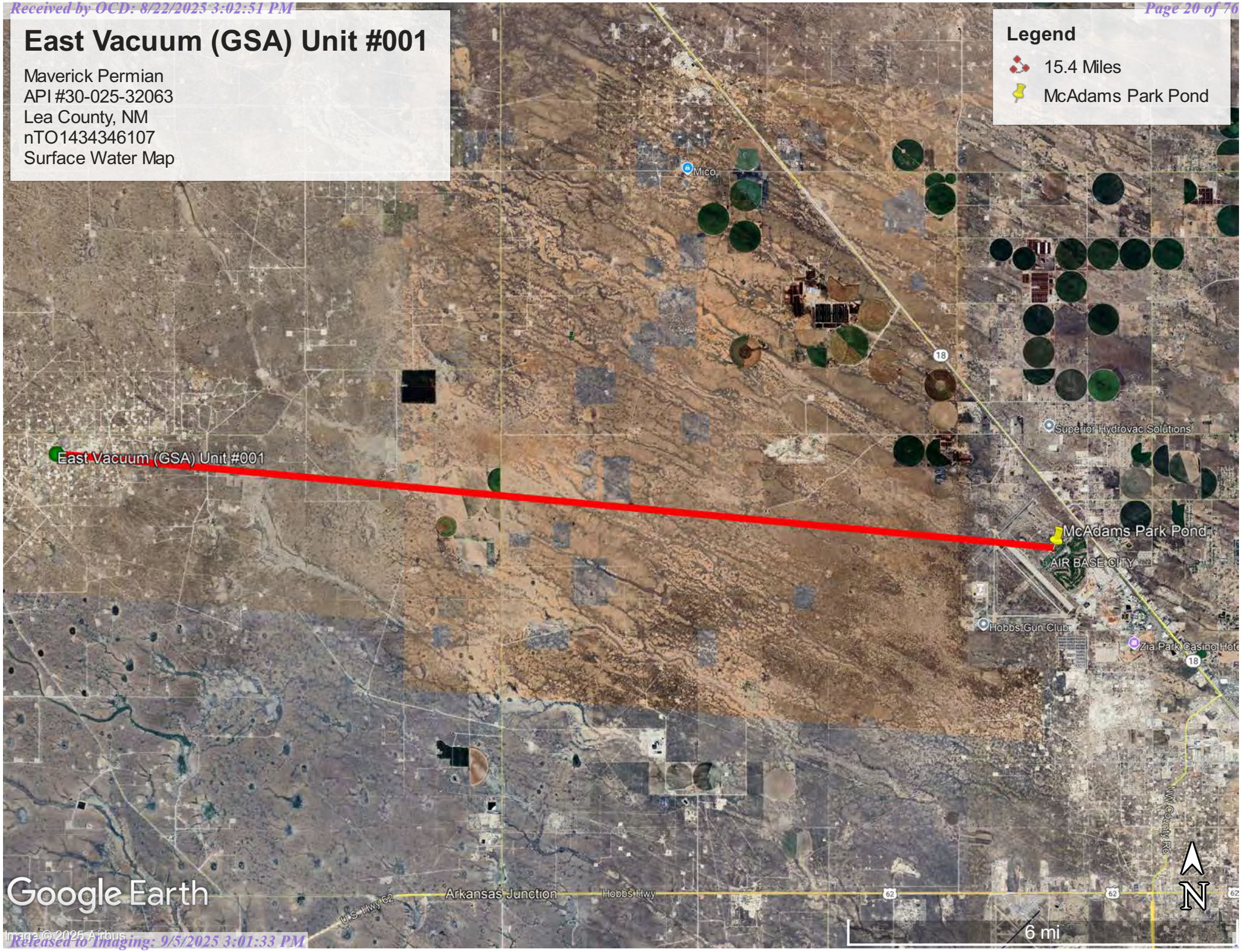
USGS science for a changing world

National Water Information System: Mapper



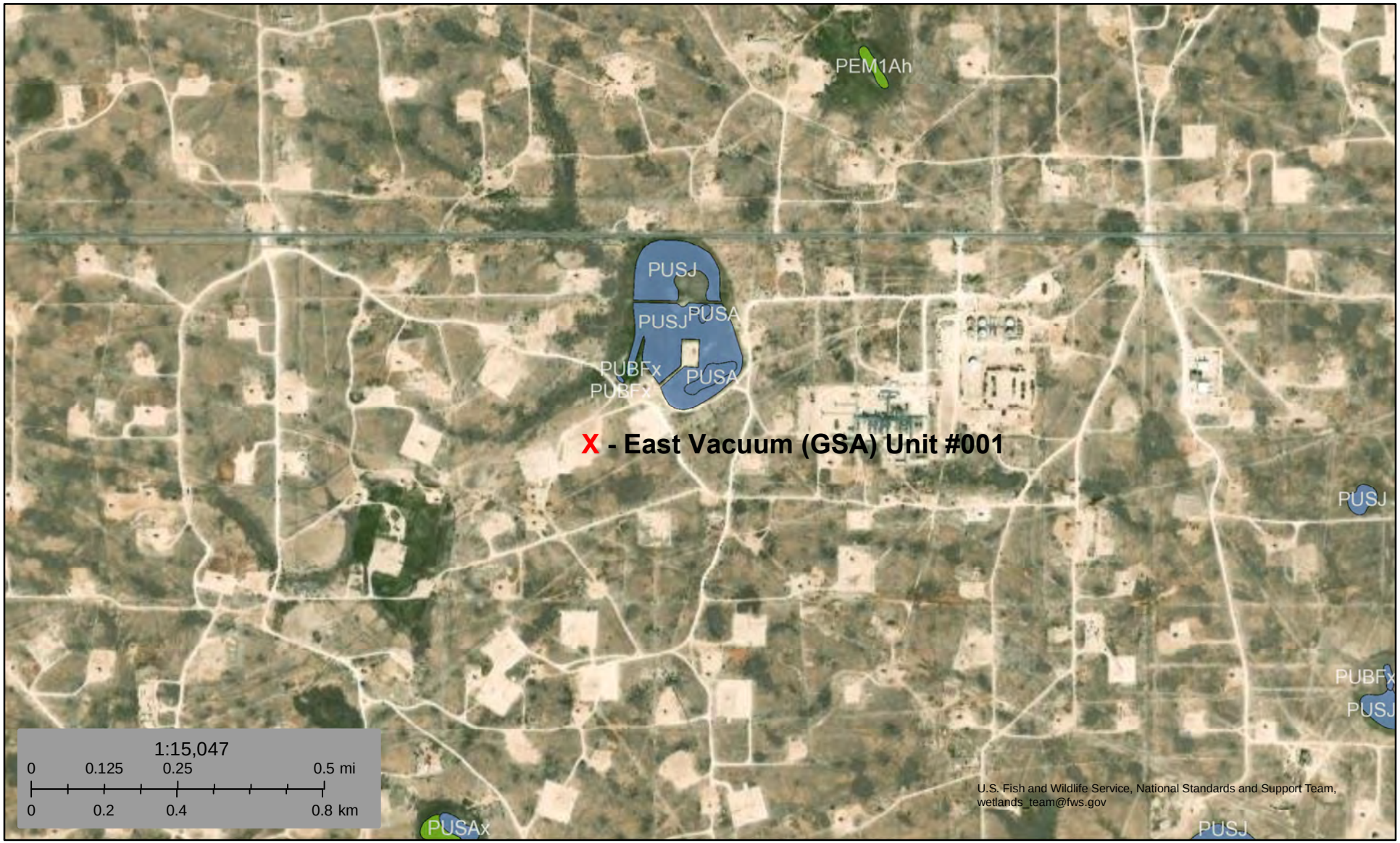
East Vacuum (GSA) Unit #001

Maverick Permian
API #30-025-32063
Lea County, NM
nTO1434346107
Surface Water Map



U.S. Fish and Wildlife Service
National Wetlands Inventory

Wetlands Map



March 28, 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.

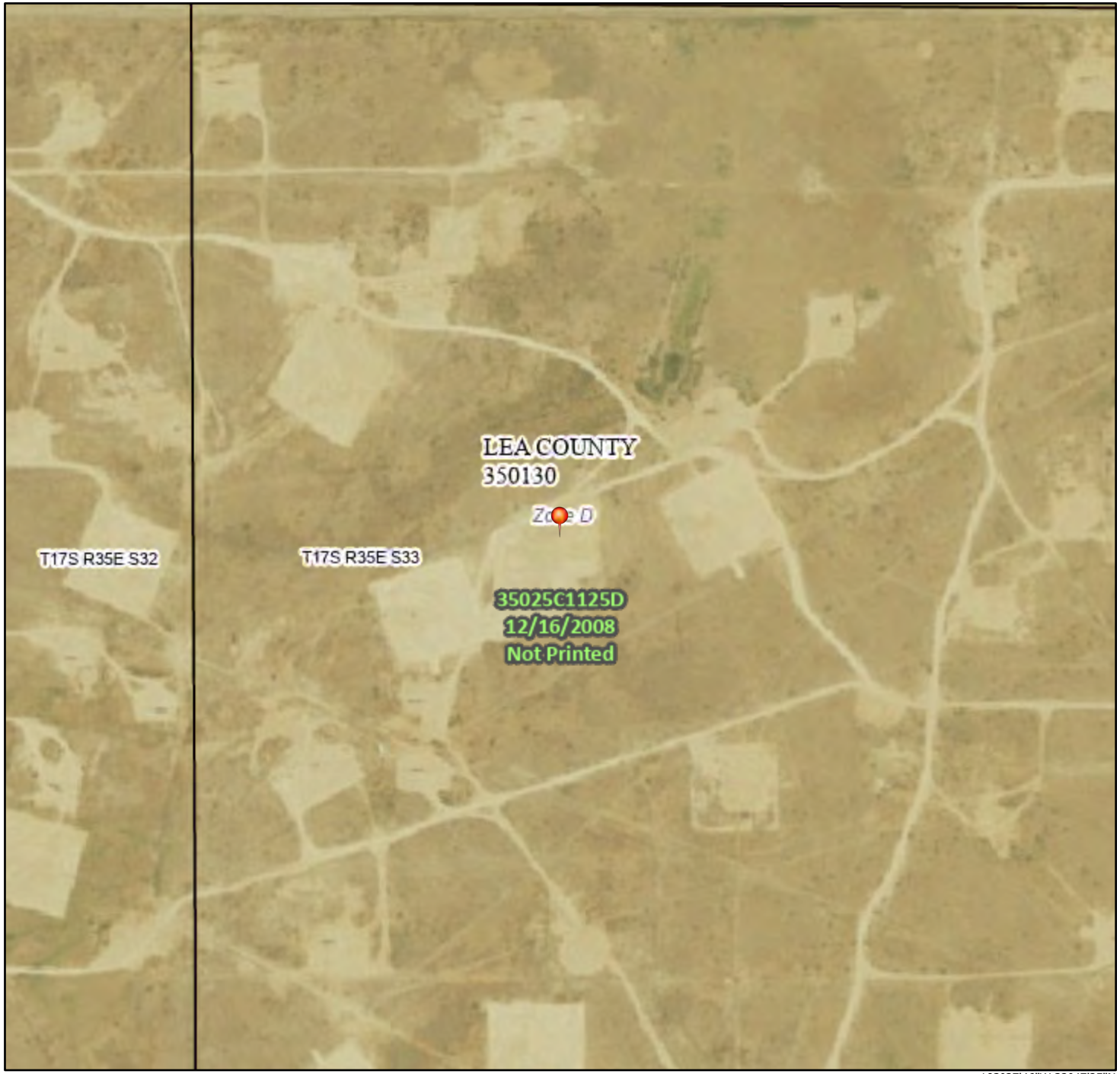
National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Received by OCD: 8/22/2025 3:02:51 PM

National Flood Hazard Layer FIRMette

FEMA

103°28'23"W 32°47'55"N



103°27'46"W 32°47'25"N

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

1:6,000

Basemap Imagery Source: USGS National Map 2023

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

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

N

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/28/2025 at 5:59 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.

Released to Imaging: 9/5/2025 3:01:33 PM

Sapec-Eco
5846 E 21st Place
Tulsa, OK 74114

Appendix C

Soil Surveys

Soil Map

Geologic Unit Map

Lea County, New Mexico

KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw46
Elevation: 2,500 to 4,800 feet
Mean annual precipitation: 14 to 16 inches
Mean annual air temperature: 57 to 63 degrees F
Frost-free period: 180 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough and similar soils: 45 percent
Lea and similar soils: 25 percent
Minor components: 30 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kimbrough

Setting

Landform: Playa rims, plains
Down-slope shape: Convex, linear
Across-slope shape: Concave, linear
Parent material: Loamy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 3 inches: gravelly loam
Bw - 3 to 10 inches: loam
Bkkm1 - 10 to 16 inches: cemented material
Bkkm2 - 16 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 4 to 18 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.01 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 95 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R077DY049TX - Very Shallow 12-17" PZ
Hydric soil rating: No

Description of Lea

Setting

Landform: Plains
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age

Typical profile

A - 0 to 10 inches: loam
Bk - 10 to 18 inches: loam
Bkk - 18 to 26 inches: gravelly fine sandy loam
Bkkm - 26 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 22 to 30 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 90 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 3.0
Available water supply, 0 to 60 inches: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R077DY047TX - Sandy Loam 12-17" PZ
Hydric soil rating: No

Minor Components

Douro

Percent of map unit: 12 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077DY047TX - Sandy Loam 12-17" PZ
Other vegetative classification: Unnamed (G077DH000TX)
Hydric soil rating: No

Kenhill

Percent of map unit: 12 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077DY038TX - Clay Loam 12-17" PZ
Hydric soil rating: No

Spraberry

Percent of map unit: 6 percent
Landform: Playa rims, plains
Down-slope shape: Convex, linear
Across-slope shape: Linear
Ecological site: R077DY049TX - Very Shallow 12-17" PZ
Other vegetative classification: Unnamed (G077DH000TX)
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 21, Sep 3, 2024

Soil Map—Lea County, New Mexico

Map Scale: 1:2,860 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 40 80 160 240

Feet: 0 100 200 400 600

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

Received by OCD: 8/22/2025 3:02:51 PM

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: Lea County, New Mexico
Survey Area Data: Version 21, Sep 3, 2024

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

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

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

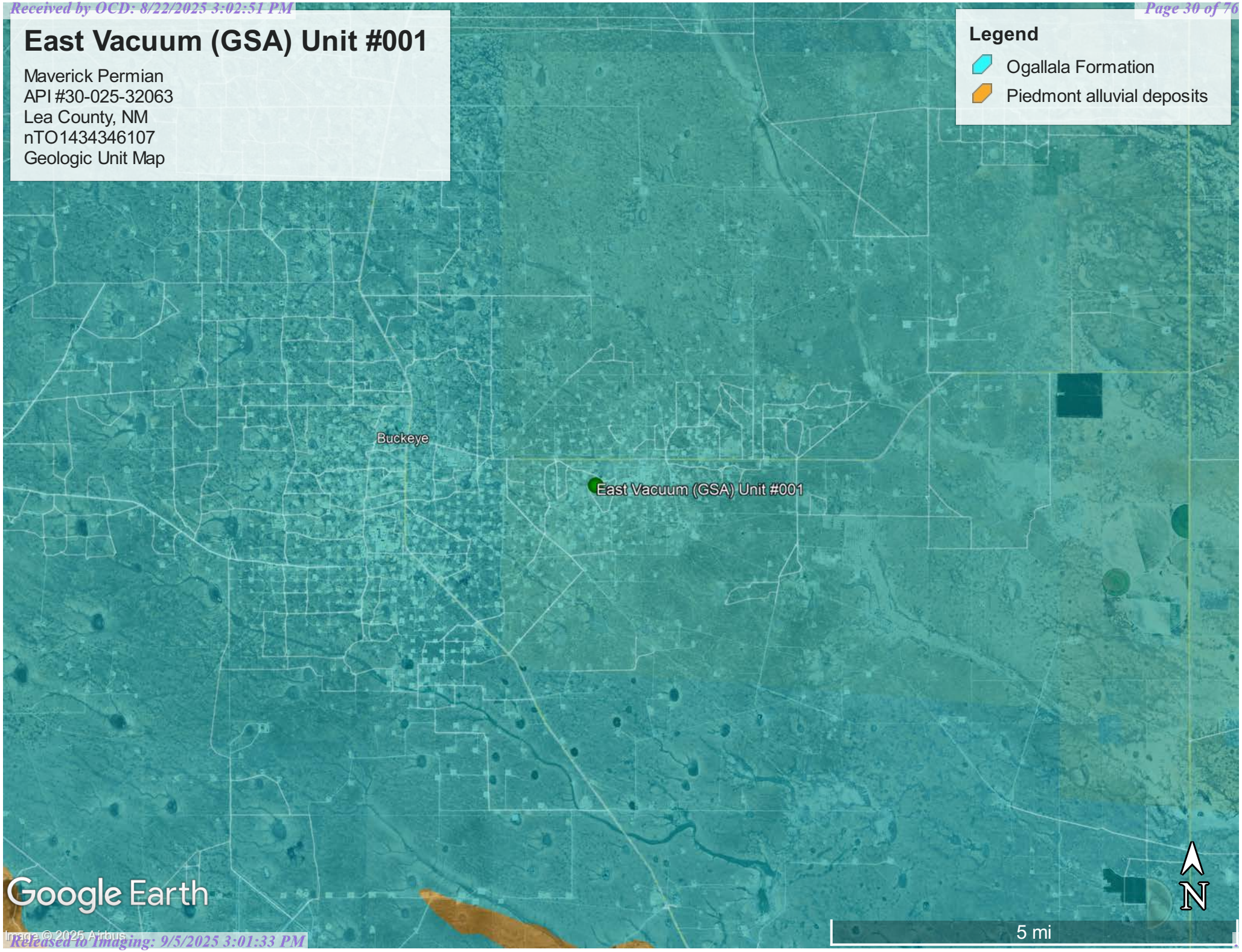
Released to Imaging: 9/5/2025 3:01:33 PM

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	28.9	100.0%
Totals for Area of Interest		**28.9**	**100.0%**

East Vacuum (GSA) Unit #001

Maverick Permian
API #30-025-32063
Lea County, NM
nTO1434346107
Geologic Unit Map



Sapec-Eco
5846 E 21st Place
Tulsa, OK 74114

Appendix D

Photographic Documentation

Photographic Documentation
Maverick Permian, LLC
East Vacuum (GSA) Unit #001 – nTO1434346107

Photographic Documentation
Maverick Permian, LLC
East Vacuum (GSA) Unit #001 – nTO1434346107

Photographic Documentation
Maverick Permian, LLC
East Vacuum (GSA) Unit #001 – nTO1434346107

Photographic Documentation
Maverick Permian, LLC
East Vacuum (GSA) Unit #001 – nTO1434346107

Sapec-Eco
5846 E 21st Place
Tulsa, OK 74114

Appendix E

NMOCD-Approved Corrective Action Plan (2015)

RECEIVED
By JKeyes at 9:52 am, Oct 08, 2015

Stipulations:
1. Provide discrete site samples taken from overspray area.
2. Delineate to 250 ppm around sample points 1 through 5, with confirmation sample for last sample.
3. Pond needs to be tested for contamination.

CONOCOPHILLIPS
P.O. Box 2197
Houston, TX 77252-2197
Phone 281.293.1000

EVGSAU 3366-001

1RP-3440

Corrective Action Plan

API No. 30-025-32063

Release Date: December 1st, 2014

Unit Letter E, Section 33, Township 17S, Range 35E

PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

October 6, 2015

Kellie Jones
Environmental Specialist – New Mexico Oil Conservation Division
Energy, Minerals and Natural Resources Department
1625 N. French Dr.
Hobbs, NM 88240

RE: **Corrective Action Plan**
ConocoPhillips EVGSAU 3366-001 (1RP-3440)
UL/E sec. 33 T17S R35E
API No. 30-025-32063

Ms. Jones:

ConocoPhillips (CoP) has retained Basin Environmental Service Technologies (Basin) to address potential environmental concerns at the above-referenced site.

Background and Previous Work

The site is located approximately 2.3 miles southeast of Buckeye, New Mexico at UL/E sec. 33 T17S R35E. NM OSE and BLM installed monitor well records indicate that groundwater will likely be encountered at a depth of approximately 73 +/- feet.

On December 1st, 2014, CoP discovered that a stuffing box had leaked, releasing 3 barrels of oil and 79 barrels of produced water over 21,149 sq ft of caliche pad and pasture with an overspray of 480,881 sq ft of pasture. A total of 2 barrels of oil and 48 barrels of produced water were recovered. NMOCD was notified of the release on December 2nd, 2014, and an initial C-141 was submitted to NMOCD for approval. NMOCD approved the C-141 on December 9th, 2014 (Appendix A).

Basin personnel were on site to visually assess the release on December 2nd, 2014. The release was mapped and photographed (Figure 1). An 8 Point Composite was taken from the overspray area and sent to a commercial laboratory for analysis. Laboratory analysis of the 8 Point Overspray Composite returned a chloride value of 224 mg/kg, a Gasoline Range Organics (GRO) value of non-detect and a Diesel Range Organics (DRO) value of 16.8 mg/kg (Appendix B). On December 4th, 2014, the first application of Micro Blaze, a total of 30 gallons mixed with 1,500 gallons of fresh water, was applied evenly over the overspray area. On December 8th, 2014, the second application of Micro Blaze, a total of 45 gallons mixed with 2,250 gallons of fresh water was applied evenly over the overspray area.

On August 8th, 2015, 6 sample points were taken from the release area at the surface and with depth and representative samples were sent to a commercial laboratory for analysis. At the surface, Point 1 returned a chloride value of 592 mg/kg, a Gasoline Range Organics (GRO) value of non-detect and a Diesel Range Organics (DRO) value of 192 mg/kg. At 1 ft, Point 1 returned a chloride value of 304 mg/kg and a GRO and DRO values of non-detect. At the surface, Point 2 returned a chloride value of 5,060 mg/kg, a GRO value of non-detect and a DRO value of 22.8 mg/kg. At 3.5 ft, Point 2 returned a chloride value of 848 mg/kg, a GRO value of non-detect and a DRO value of 12.3 mg/kg. At the surface, Point 3 returned a chloride value of 2,840 mg/kg, a GRO value of non-detect and a DRO value of 205 mg/kg. At 7 ft, Point 3 returned a chloride value of 512 mg/kg and GRO and DRO values of non-detect. At the surface, Point 4 returned a chloride value of 6,800 mg/kg, a GRO value of non-detect and a DRO value of 46.3 mg/kg. At 3 ft, Point 4 returned a chloride value of 288 mg/kg, a GRO value of non-detect and a DRO value of 18.3 mg/kg. At the surface, Point 5 returned a chloride value of 2,560 mg/kg, a GRO value of non-detect and a DRO value of 6,370 mg/kg. At 6 in, Point 5 returned a chloride value of 464 mg/kg and GRO and DRO values of non-detect. At the surface, Point 6 returned a chloride value of 192 mg/kg and GRO and DRO values of non-detect. At 6 in, Point 6 returned a chloride value of 224 mg/kg and GRO and DRO values of non-detect.

To determine if the residual chlorides in the lease pad's vadose zone pose a threat to groundwater quality, Basin ran the U.S. Environmental Protection Agency Exposure Assessment Multimedia Model (MULTIMED Version 1.5, 2005). Model outputs and the graph are included in Appendix C. With the impact area of 160 ft x 60 ft, the model output concludes that the peak concentration of chlorides in groundwater contributed by the vadose zone soils would be approximately 195 mg/L in 175 years. Since the estimated increase in chloride concentrations in groundwater from residual chloride migration is below the WQCC standard of 250 mg/L, no action is warranted for the groundwater at this site.

Based on the assessment, the road and lease pad will be scraped down 6 inches bgs (Figure 2). Once the scrape is completed, discreet samples from the bottom of the road scrape will be taken and field tested for chlorides and organic vapors. If the field data indicates that the discreet samples will not achieve chloride, Gasoline Range Organics (GRO) and Diesel Range Organics (DRO) readings below regulatory standards, the scrape will be deepened until field testing indicates that all constituents from the discreet samples will return values below regulatory standards. The discreet samples will then be taken to a commercial laboratory to confirm that chloride, GRO and DRO readings are below regulatory standards.

All excavated soils will be taken to a NMOCD approved facility for disposal. Clean caliche will be imported to the site to use as backfill. A sample of the imported caliche will be taken to a commercial laboratory to confirm that the chloride reading is below regulatory standards. The scrape will be backfilled with the clean, imported caliche and contoured to the surrounding location. The lease pad, the release area around Points 1, 2 and 3, will be remediated upon site abandonment.

Photo documentation of these activities may be found in Appendix D.

Once these activities have been completed, a report will be sent to NMOCD requesting 'remediation termination' and site closure.

Basin appreciates the opportunity to work with you on this project. Please contact me if you have any questions or wish to discuss the site.

Sincerely,

Kyle Norman
Project Lead
Basin Environmental Service Technologies
(575) 942-8542

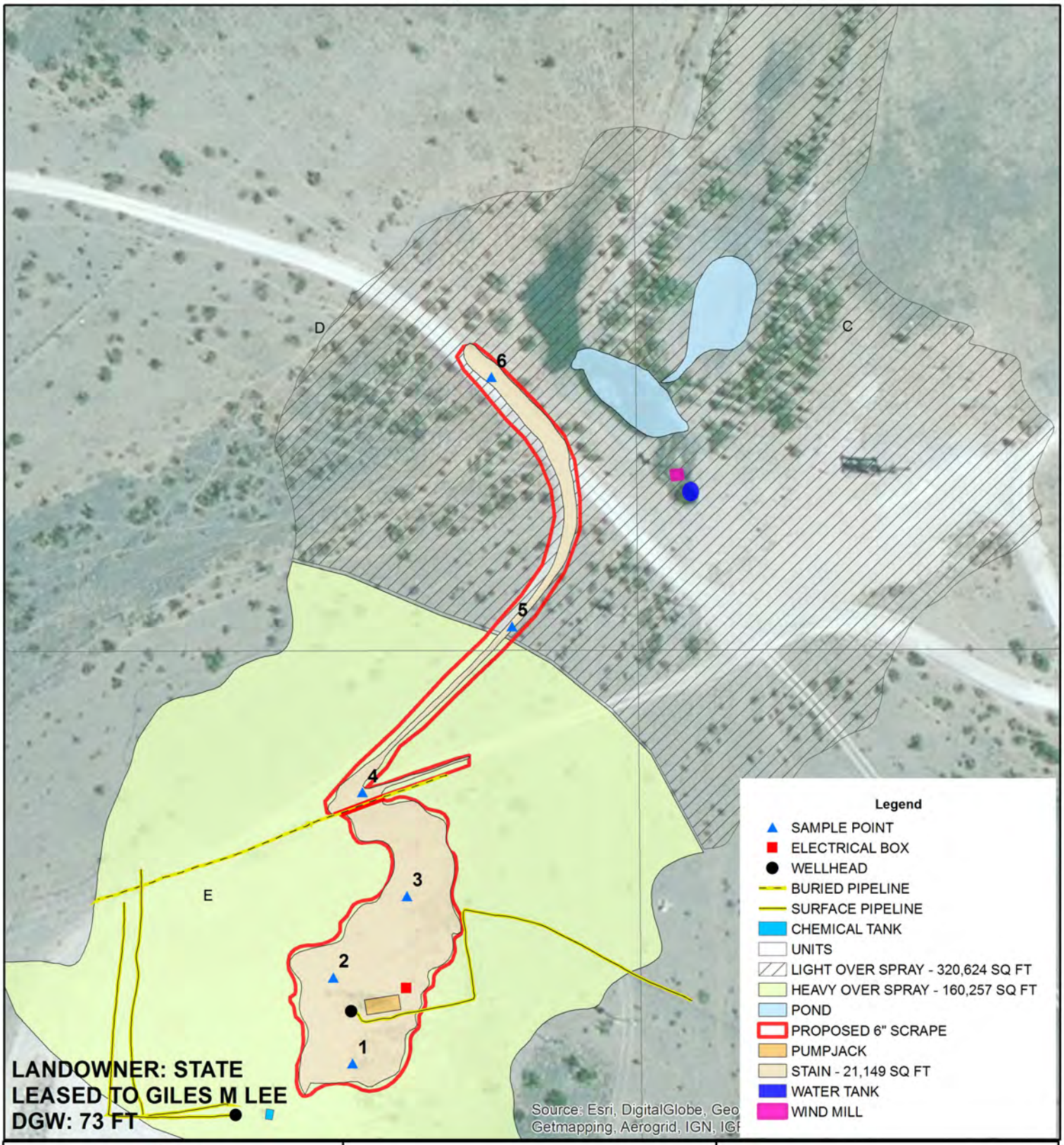
Attachments:

- Figure 1 – Initial Sampling
- Figure 2 – Proposed Scrape
- Appendix A – Initial C-141
- Appendix B – Laboratory Analysis
- Appendix C – Multimed Model
- Appendix D – Photo Documentation

Figures

Basin Environmental Service Technologies, LLC
P.O. Box 2948, Hobbs, NM 88241
Phone 575.393.2967

Proposed Scrape



Basin Environmental Service Technologies
Effective Solutions

CONOCOPHILLIPS
EVGSAU 3366-001
1RP-3440
UL C, D, E & F SECTION 33
T-17-S R-35-E
LEA COUNTY, NM

Figure 2

0 60 120
Feet

GPS date: 12/2/14 KS, 8/27/15 KN
Drawing date: 8/27/15
Drafted by: T. Grieco

N W E S

Appendix A

Intial C-141

Basin Environmental Service Technologies, LLC
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

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

HOBBS OCD
DEC 09 2014
RECEIVED

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: **ConocoPhillips**	Contact: **Jay Garcia**
Address: **29 Vacuum Lane**	Telephone No. **575-391-3180**
Facility Name: **EVGSAU 3366-001**	Facility Type: **Oil Well**

Surface Owner: State	Mineral Owner: State	API No3002532063

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	33	17S	35E	1560	North	1080	West	**LEA**

Latitude 32.7944120519521 **Longitude** 103.467737546431

NATURE OF RELEASE

Type of Release: **Spill**	Volume of Release: 82 BBLS	Volume Recovered: 50 BBLS
Source of Release: Pressure switch	Date and Hour of Occurrence **12/1/2014 1:00 pm**	Date and Hour of Discovery **SAME**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **Tomas Oberding**	
By Whom? **Jay Garcia**	Date and Hour: **12/2/2014 3:00 pm**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.* MSO responded to a stuffing box leak on the 3366-001resulting in the release of 3 BO and 79 BPW. MSO notified supervisor and HSE. After further observation, it was decided to call in Projects to assist. Due to time of day, the decision was made to let well bleed C02 overnight. A reverse unit was moved in and hooked up and well was bled down to reverse pit. 50 bbls of mud and 30 BBLS Brine water was pumped and well was killed. Rams on stuffing box closed, packing changed and well isolated. Spill area was 600 Ft X 200 Ft X 1/8" and 100FT X 100 FT X 2" with 2BO and 48 BPW recovered and will be remediated according to NMOCD guidelines.

Describe Area Affected and Cleanup Action Taken.*
. Spill area was 600 Ft X 200 Ft X 1/8" and 100FT X 100 FT X 2" with 2BO and 48 BPW recovered and will be remediated according to NMOCD guidelines.

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

Signature: *Jay Garcia*	OIL CONSERVATION DIVISION Approved by Environmental Specialist:	
Printed Name: Jay Garcia		
Title: LEAD HSE	Approval Date: 12-9-15	Expiration Date: 2-9-15
E-mail Address: ***jay.c.garcia@conocophillips.com***	Conditions of Approval: Site sample required. Delineate & remediate per NMOCD guide. Submit final C-141 by 2-9-15	Attached ☐
Date: 1/2/2014 Phone:575-391-3180		1RP-3440

* Attach Additional Sheets If Necessary

21781Z
nJO1434346107
pJO1434346671
DEC 11 2014

Appendix B

Laboratory Analysis

Basin Environmental Service Technologies, LLC
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

CARDINAL Laboratories

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

December 11, 2014

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: EVGSAU 3366-001

Enclosed are the results of analyses for samples received by the laboratory on 12/08/14 16:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
KYLE NORMAN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received:	12/08/2014	Sampling Date:	12/08/2014
Reported:	12/11/2014	Sampling Type:	Soil
Project Name:	EVGSAU 3366-001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 8 PT COMP OVERSPRAY @ SURFACE (H403741-01)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**224**	16.0	12/09/2014	ND	400	100	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/10/2014	ND	188	93.9	200	0.211	
DRO >C10-C28	**16.8**	10.0	12/10/2014	ND	201	100	200	0.909	

Surrogate: 1-Chlorooctane	*91.8 %*	*47.2-157*
Surrogate: 1-Chlorooctadecane	*88.6 %*	*52.1-176*

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	RECS	**BILL TO** P.O. #:	
Project Manager:	Lauren Flores, Kyle Schmidt	Company:	
Address:		Attn:	
City:	State: Zip:	Address:	
Phone #:	Fax #:	City:	
Project #:	Project Owner:	State: Zip:	
Project Name:		Phone #:	
Project Location:	EUNICE SAU 3311-001	Fax #:	
Sampler Name:	Kyle Schmidt		

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	ANALYSIS REQUEST: Cl-	TPH
H403741																
1	8 point composite sample @ surface	C	1			X					X		12-8-14	10:35		

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Relinquished By: Kyle Schmidt	Date: 12-8-14 Time: 4:10	Received By: Jodi Henson	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
			REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 4.2°C	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Received by OCD: 8/22/2025 3:02:51 PM

Released to Imaging: 9/5/2025 3:01:33 PM

CARDINAL Laboratories

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

September 14, 2015

KYLE NORMAN

BASIN ENVIRONMENTAL - HOBBS

419 W. CAIN

HOBBS, NM 88240

RE: EVGSAU 3366-001

Enclosed are the results of analyses for samples received by the laboratory on 09/08/15 15:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

BASIN ENVIRONMENTAL - HOBBS
KYLE NORMAN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 393-0293

Received:	09/08/2015	Sampling Date:	08/27/2015
Reported:	09/14/2015	Sampling Type:	Soil
Project Name:	EVGSAU 3366-001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: POINT 1 SURFACE (H502364-01)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**592**	16.0	09/11/2015	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2015	ND	178	88.9	200	0.999	
DRO >C10-C28	**192**	10.0	09/09/2015	ND	198	99.1	200	0.360	

Surrogate: 1-Chlorooctane	*62.5 %*	*47.2-157*
Surrogate: 1-Chlorooctadecane	*73.0 %*	*52.1-176*

Sample ID: POINT 1 @ 1' (H502364-02)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**304**	16.0	09/14/2015	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2015	ND	178	88.9	200	0.999	
DRO >C10-C28	<10.0	10.0	09/09/2015	ND	198	99.1	200	0.360	

Surrogate: 1-Chlorooctane	*71.8 %*	*47.2-157*
Surrogate: 1-Chlorooctadecane	*81.1 %*	*52.1-176*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

BASIN ENVIRONMENTAL - HOBBS
KYLE NORMAN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 393-0293

Received:	09/08/2015	Sampling Date:	08/27/2015
Reported:	09/14/2015	Sampling Type:	Soil
Project Name:	EVGSAU 3366-001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: POINT 2 SURFACE (H502364-03)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5060**	16.0	09/14/2015	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2015	ND	178	88.9	200	0.999	
DRO >C10-C28	**22.8**	10.0	09/09/2015	ND	198	99.1	200	0.360	

Surrogate: 1-Chlorooctane	*64.6 %*	*47.2-157*
Surrogate: 1-Chlorooctadecane	*71.2 %*	*52.1-176*

Sample ID: POINT 2 @ 3.5' (H502364-04)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**848**	16.0	09/14/2015	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2015	ND	178	88.9	200	0.999	
DRO >C10-C28	**12.3**	10.0	09/09/2015	ND	198	99.1	200	0.360	

Surrogate: 1-Chlorooctane	*64.3 %*	*47.2-157*
Surrogate: 1-Chlorooctadecane	*76.9 %*	*52.1-176*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

BASIN ENVIRONMENTAL - HOBBS
KYLE NORMAN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 393-0293

Received:	09/08/2015	Sampling Date:	08/27/2015
Reported:	09/14/2015	Sampling Type:	Soil
Project Name:	EVGSAU 3366-001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: POINT 3 SURFACE (H502364-05)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2840**	16.0	09/14/2015	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2015	ND	178	88.9	200	0.999	
DRO >C10-C28	**205**	10.0	09/09/2015	ND	198	99.1	200	0.360	

Surrogate: 1-Chlorooctane	*82.6 %*	*47.2-157*
Surrogate: 1-Chlorooctadecane	*88.4 %*	*52.1-176*

Sample ID: POINT 3 @ 7' (H502364-06)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**512**	16.0	09/14/2015	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2015	ND	178	88.9	200	0.999	
DRO >C10-C28	<10.0	10.0	09/09/2015	ND	198	99.1	200	0.360	

Surrogate: 1-Chlorooctane	*63.1 %*	*47.2-157*
Surrogate: 1-Chlorooctadecane	*76.8 %*	*52.1-176*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

BASIN ENVIRONMENTAL - HOBBS
KYLE NORMAN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 393-0293

Received:	09/08/2015	Sampling Date:	08/27/2015
Reported:	09/14/2015	Sampling Type:	Soil
Project Name:	EVGSAU 3366-001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: POINT 4 SURFACE (H502364-07)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**6800**	16.0	09/14/2015	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2015	ND	178	88.9	200	0.999	
DRO >C10-C28	**46.3**	10.0	09/09/2015	ND	198	99.1	200	0.360	

Surrogate: 1-Chlorooctane	*70.7 %*	*47.2-157*
Surrogate: 1-Chlorooctadecane	*81.7 %*	*52.1-176*

Sample ID: POINT 4 @ 3' (H502364-08)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**288**	16.0	09/14/2015	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2015	ND	178	88.9	200	0.999	
DRO >C10-C28	**18.3**	10.0	09/09/2015	ND	198	99.1	200	0.360	

Surrogate: 1-Chlorooctane	*70.8 %*	*47.2-157*
Surrogate: 1-Chlorooctadecane	*81.0 %*	*52.1-176*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

BASIN ENVIRONMENTAL - HOBBS
KYLE NORMAN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 393-0293

Received:	09/08/2015	Sampling Date:	08/27/2015
Reported:	09/14/2015	Sampling Type:	Soil
Project Name:	EVGSAU 3366-001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: POINT 5 SURFACE (H502364-09)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2560**	16.0	09/14/2015	ND	432	108	400	0.00	

TPH 8015M mg/kg **Analyzed By: CK** **S-06**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/09/2015	ND	178	88.9	200	0.999	
DRO >C10-C28	**6370**	50.0	09/09/2015	ND	198	99.1	200	0.360	

Surrogate: 1-Chlorooctane	*81.3 %*	*47.2-157*
Surrogate: 1-Chlorooctadecane	*189 %*	*52.1-176*

Sample ID: POINT 5 @ 6" (H502364-10)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**464**	16.0	09/14/2015	ND	432	108	400	0.00	

TPH 8015M mg/kg **Analyzed By: CK**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2015	ND	178	88.9	200	0.999	
DRO >C10-C28	<10.0	10.0	09/09/2015	ND	198	99.1	200	0.360	

Surrogate: 1-Chlorooctane	*71.6 %*	*47.2-157*
Surrogate: 1-Chlorooctadecane	*86.6 %*	*52.1-176*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

BASIN ENVIRONMENTAL - HOBBS
KYLE NORMAN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 393-0293

Received:	09/08/2015	Sampling Date:	08/27/2015
Reported:	09/14/2015	Sampling Type:	Soil
Project Name:	EVGSAU 3366-001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: POINT 6 SURFACE (H502364-11)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**192**	16.0	09/14/2015	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2015	ND	178	88.9	200	0.999	
DRO >C10-C28	<10.0	10.0	09/09/2015	ND	198	99.1	200	0.360	

Surrogate: 1-Chlorooctane	*71.6 %*	*47.2-157*
Surrogate: 1-Chlorooctadecane	*85.8 %*	*52.1-176*

Sample ID: POINT 6 @ 6" (H502364-12)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**224**	16.0	09/14/2015	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/10/2015	ND	189	94.3	200	2.02	
DRO >C10-C28	<10.0	10.0	09/10/2015	ND	216	108	200	1.76	

Surrogate: 1-Chlorooctane	*80.6 %*	*47.2-157*
Surrogate: 1-Chlorooctadecane	*87.6 %*	*52.1-176*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: ConocoPhillips	BILL TO
Project Manager: Kyle Norman	P.O. #:
Address: 419 W Cain	Company: Basin
City: Hobbs State: NM Zip: 88240	Attn:
Phone #: 575-393-2967 Fax #: 575-393-0293	Address: 419 W Cain
Project #: Project Owner:	City: Hobbs
Project Name:	State: NM Zip: 88240
Project Location: Eunice 3366-001	Phone #: 575-393-2967
Sampler Name: Jacob Kamplain	Fax #: 575-393-0293

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS
H502364																				
1	Pit 1 Surface	G	1			X					X		8-27-15	9:00	X	X				
2	Pit 1 @ [redacted]	G	1			X					X		9-3-15	9:00	X	X				
3	Pit 2 surface	G	1			X					X		8-27-15	9:05	X					
4	Pit 2 @ 3.5'	G	1			X					X		9-3-15	9:05	X	X				
5	Pit 3 surface	G	1			X					X		8-27-15	9:10	X					
6	Pit 3 @ 7'	G	1			X					X		9-3-15	9:15	X	X				
7	Pit 4 surface	G	1			X					X		8-27-15	9:15	X					
8	Pit 4 @ 3'	G	1			X					X		9-3-15	9:25	X	X				
9	Pit 5 surface	G	1			X					X		8-27-15	9:20	X					
10	Pit 5 @ 6'	G	1			X					X		9-3-15	9:30	X	X				

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Relinquished By: J Kamplain	Date: 9-8-15 Time:	Received By:	
Relinquished By:	Date: 9-8-15 Time: 15:10	Received By: Judy Garcia	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	-8.8°C	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials) JG.

Phone Result: ☐ Yes ☑ No Add'l Phone #:
Fax Result: ☐ Yes ☑ No Add'l Fax #:
REMARKS:

email results:
hconder@basinenv.com; knorman@basinenv.com;
jkamplain@basinenv; lflores@basinenv; lweinheimer@basinenv;
cursanic@basinenv; sedwards@basinenv
environmental tech: @basinenv

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#54

Received by OCD: 8/22/2025 3:02:51 PM

Released to Imaging: 9/5/2025 3:01:33 PM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name: ConocoPhillips	BILL TO
Project Manager: Kyle Norman	P.O. #:
Address: 419 W Cain	Company: Basin
City: Hobbs State: NM Zip: 88240	Attn:
Phone #: 575-393-2967 Fax #: 575-393-0293	Address: 419 W Cain
Project #: Project Owner:	City: Hobbs
Project Name:	State: NM Zip: 88240
Project Location: EVGSAU 3366-001	Phone #: 575-393-2967
Sampler Name: JKamplain	Fax #: 575-393-0293

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS
H502364-11	Pit 6 Surface	G	1			X					X		8-27-15	9:25	X	X				
-12	Pit 6 @ 6'	G	1			X					X		9-3-15	9:35	X	X				

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: J Kamplain	Date: 9-8-15 Time:	Received By:	Phone Result: ☐ Yes ☑ No Add'l Phone #:
Relinquished By:	Date: 9-8-15 Time: 15:10	Received By: Judy Garcia	Fax Result: ☐ Yes ☑ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -8.8°C	Sample Condition Cool: Yes ☑ Intact: Yes ☐ No ☐ No	CHECKED BY: (Initials) JG.	REMARKS: email results: hconder@basinenv.com; knorman@basinenv.com; jkamplain@basinenv; lflores@basinenv; lweinheimer@basinenv; cursanic@basinenv; sedwards@basinenv environmental tech: @basinenv

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#54

Received by OCD: 8/22/2025 3:02:51 PM

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Appendix C

Multimed Model

Basin Environmental Service Technologies, LLC
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

MULTIMED V1.01 DATE OF CALCULATIONS: 5-OCT-2015 TIME: 10: 7:55

U. S. ENVIRONMENTAL PROTECTION AGENCY

EXPOSURE ASSESSMENT

MULTIMEDIA MODEL

MULTIMED (Version 1.50, 2005)

1
Run options
--- -------

CP EVGSAU 3366-001

Chemical simulated is Chloride

Option Chosen Saturated and unsaturated zone models
Run was DETERMIN
Infiltration Specified By User: 3.050E-02 m/yr
Run was transient
Well Times: Find Maximium Concentration
Reject runs if Y coordinate outside plume
Reject runs if Z coordinate outside plume
Gaussian source used in saturated zone model
1
1
UNSATURATED ZONE FLOW MODEL PARAMETERS
(input parameter description and value)

NP	- Total number of nodal points	240
NMAT	- Number of different porous materials	1
KPROP	- Van Genuchten or Brooks and Corey	1
IMSHGN	- Spatial discretization option	1
NVFLAYR	- Number of layers in flow model	1

OPTIONS CHOSEN
------- ------
Van Genuchten functional coefficients
User defined coordinate system
1

Layer information

LAYER NO.	LAYER THICKNESS	MATERIAL PROPERTY
1	23.00	1

DATA FOR MATERIAL 1
---- --- --------
VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
conductivity	cm/hr	CONSTANT	3.60	-999.	-999	-999

	Unsaturated zone porosity	--	CONSTANT	0.250	-999.
-999.	-999.				
	Air entry pressure head	m	CONSTANT	0.700	-999.
-999.	-999.				
	Depth of the unsaturated zone	m	CONSTANT	23.0	0.000
0.000	0.000				

DATA FOR MATERIAL 1

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS	
			MEAN	STD
LIMITS				
DEV MIN MAX				
Residual water content	--	CONSTANT	0.116	-999.
-999. -999.				
Brook and Corey exponent,EN	--	CONSTANT	-999.	-999.
-999. -999.				
ALFA coefficient	1/cm	CONSTANT	0.500E-02	-999.
-999. -999.				
Van Genuchten exponent, ENN	--	CONSTANT	1.09	-999.
-999. -999.				

1

UNSATURATED ZONE TRANSPORT MODEL PARAMETERS

NLAY	- Number of different layers used		1
NTSTPS	- Number of time values concentration calc		40
DUMMY	- Not presently used		1
ISOL	- Type of scheme used in unsaturated zone		2
N	- Stehfest terms or number of increments		18
NTEL	- Points in Lagrangian interpolation		3
NGPTS	- Number of Gauss points		104
NIT	- Convolution integral segments		2
IBOUND	- Type of boundary condition		3
ITSGEN	- Time values generated or input		1
TMAX	- Max simulation time	--	0.0
WTFUN	- Weighting factor	--	1.2

OPTIONS CHOSEN

Convolution integral approach
Exponentially decaying continuous source
Computer generated times for computing concentrations

1

DATA FOR LAYER 1

VADOSE TRANSPORT VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS	
			MEAN	STD
LIMITS				
DEV MIN MAX				

	Thickness of layer	m	CONSTANT	23.0	-999.
-999.	-999.				
	Longitudinal dispersivity of layer	m	DERIVED	-999.	-999.
-999.	-999.				
	Percent organic matter	--	CONSTANT	0.000	-999.
-999.	-999.				
	Bulk density of soil for layer	g/cc	CONSTANT	1.99	-999.
-999.	-999.				
	Biological decay coefficient	1/yr	CONSTANT	0.000	-999.
-999.	-999.				

1

CHEMICAL SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS	
			MEAN	STD
LIMITS				
DEV MIN MAX				
Solid phase decay coefficient	1/yr	DERIVED	-999.	-999.
-999. -999.				
Dissolved phase decay coefficient	1/yr	DERIVED	-999.	-999.
-999. -999.				
Overall chemical decay coefficient	1/yr	DERIVED	-999.	-999.
-999. -999.				
Acid catalyzed hydrolysis rate	1/M-yr	CONSTANT	0.000	-999.
-999. -999.				
Neutral hydrolysis rate constant	1/yr	CONSTANT	0.000	-999.
-999. -999.				
Base catalyzed hydrolysis rate	1/M-yr	CONSTANT	0.000	-999.
-999. -999.				
Reference temperature	C	CONSTANT	25.0	-999.
-999. -999.				
Normalized distribution coefficient	ml/g	CONSTANT	0.000	-999.
-999. -999.				
Distribution coefficient	--	DERIVED	-999.	-999.
-999. -999.				
Biodegradation coefficient (sat. zone)	1/yr	CONSTANT	0.000	-999.
-999. -999.				
Air diffusion coefficient	cm2/s	CONSTANT	-999.	-999.
-999. -999.				
Reference temperature for air diffusion	C	CONSTANT	-999.	-999.
-999. -999.				
Molecular weight	g/M	CONSTANT	-999.	-999.
-999. -999.				
Mole fraction of solute	--	CONSTANT	-999.	-999.
-999. -999.				
Vapor pressure of solute	mm Hg	CONSTANT	-999.	-999.
-999. -999.				
Henry's law constant	atm-m^3/M	CONSTANT	-999.	-999.
-999. -999.				
Overall 1st order decay sat. zone	1/yr	DERIVED	0.000	0.000
0.000 1.00				
Not currently used		CONSTANT	0.000	0.000
0.000 0.000				
Not currently used		CONSTANT	0.000	0.000
0.000 0.000				

1

SOURCE SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS	
			MEAN	STD

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS MEAN	PARAMETERS STD	LIMITS MIN	LIMITS MAX	DEV
Infiltration rate	m/yr	CONSTANT	0.305E-01	-999.	-999.	-999.	-999.
Area of waste disposal unit	m^2	CONSTANT	892.	-999.	-999.	-999.	-999.
Duration of pulse	yr	DERIVED	0.100E-08	-999.	-999.	-999.	-999.
Spread of contaminant source	m	DERIVED	-999.	-999.	-999.	-999.	-999.
Recharge rate	m/yr	CONSTANT	0.000	-999.	-999.	-999.	-999.
Source decay constant	1/yr	CONSTANT	0.250E-01	0.000	0.000	0.000	0.000
Initial concentration at landfill	mg/l	CONSTANT	0.102E+04	-999.	-999.	-999.	-999.
Length scale of facility	m	DERIVED	-999.	-999.	-999.	-999.	-999.
Width scale of facility	m	DERIVED	-999.	-999.	-999.	-999.	-999.
Near field dilution		DERIVED	1.00	0.000	0.000	1.00	1

AQUIFER SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS MEAN	PARAMETERS STD	LIMITS MIN	LIMITS MAX	DEV
Particle diameter	cm	CONSTANT	-999.	-999.	-999.	-999.	-999.
Aquifer porosity	--	CONSTANT	0.300	-999.	-999.	-999.	-999.
Bulk density	g/cc	CONSTANT	1.86	-999.	-999.	-999.	-999.
Aquifer thickness	m	CONSTANT	6.10	-999.	-999.	-999.	-999.
Source thickness (mixing zone depth)	m	DERIVED	-999.	-999.	-999.	-999.	-999.
Conductivity (hydraulic)	m/yr	CONSTANT	315.	-999.	-999.	-999.	-999.
Gradient (hydraulic)		CONSTANT	0.300E-02	-999.	-999.	-999.	-999.
Groundwater seepage velocity	m/yr	DERIVED	-999.	-999.	-999.	-999.	-999.
Retardation coefficient	--	DERIVED	-999.	-999.	-999.	-999.	-999.
Longitudinal dispersivity	m	FUNCTION OF X	-999.	-999.	-999.	-999.	-999.
Transverse dispersivity	m	FUNCTION OF X	-999.	-999.	-999.	-999.	-999.
Vertical dispersivity	m	FUNCTION OF X	-999.	-999.	-999.	-999.	-999.
Temperature of aquifer	C	CONSTANT	20.0	-999.	-999.	-999.	-999.
pH	--	CONSTANT	7.00	-999.	-999.	-999.	-999.
Organic carbon content (fraction)		CONSTANT	0.000	-999.	-999.	-999.	-999.
Well distance from site	m	CONSTANT	1.00	-999.	-999.	-999.	-999.
	degree	CONSTANT	0.000	-999.	-999.	-999.	-999.

Well vertical distance		m	CONSTANT	0.000	-999.
-999.	-999.				

MAXIMUM WELL CONCENTRATION IS 189.4 AT 0.200E+03 YEARS

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Received by OCD: 8/22/2025 3:02:51 PM

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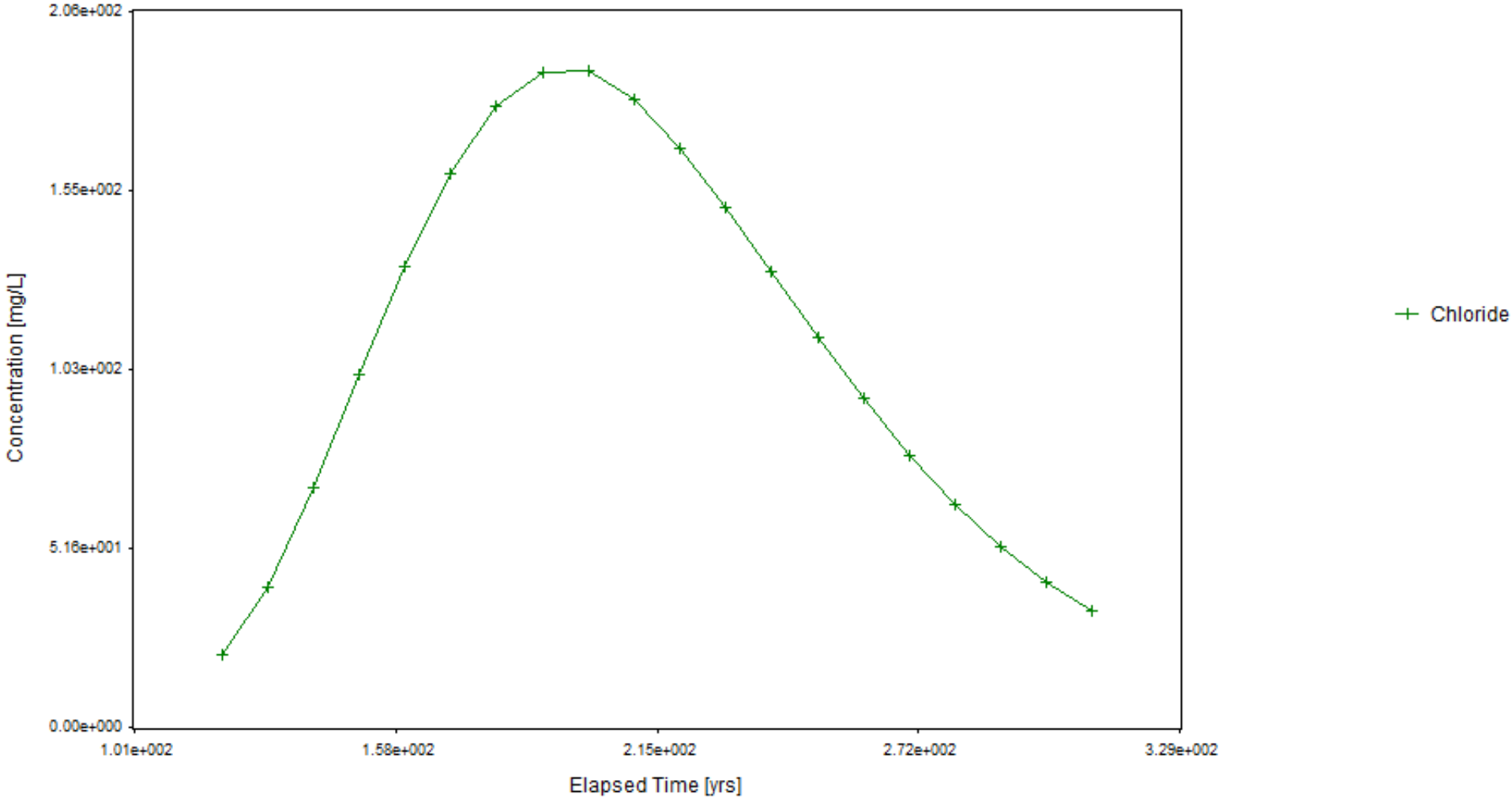
Chloride Concentration At The Receptor Well

CP EVGSAU 3366-001



Appendix D

Photo Documentation

Basin Environmental Service Technologies, LLC
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

ConocoPhillips EVGSAU 3366-001

Unit Letter E, Section 33, T17S, R35E

Initial release area, facing southwest 12/2/14

Initial release area, facing southwest 12/2/14

Initial release area, facing northeast 12/2/14

Overspray area, facing northeast 12/2/14

Micro Blazing area, facing west 12/4/14

Micro Blazing area, facing southeast 12/4/14

Installing vertical, facing east 9/3/15

Vegetation after Micro Blaze, facing West 3/9/15

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

QUESTIONS

Action 498627

QUESTIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 498627
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nTO1434346107**
Incident Name	**NTO1434346107 EAST VACUUM (GSA) UNIT #001 @ 30-025-32063**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Approved**
Incident Well	**[30-025-32063] EAST VACUUM (GSA) UNIT #001**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	EAST VACUUM (GSA) UNIT #001
Date Release Discovered	12/01/2014
Surface Owner	State

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: Equipment Failure | Well | Produced Water | Released: 82 BBL | Recovered: 50 BBL | Lost: 32 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 498627
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. 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: Chris Straub Title: Contractor Email: chris.straub@tetratech.com Date: 08/22/2025

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Phone: (505) 476-3441

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QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 498627
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (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	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 300 and 500 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 300 and 500 (ft.)
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	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	6800
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	6370
GRO+DRO (EPA SW-846 Method 8015M)	6370
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	10/28/2025
On what date will (or did) the final sampling or liner inspection occur	12/28/2025
On what date will (or was) the remediation complete(d)	01/18/2026
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	443669
What is the estimated volume (in cubic yards) that will be remediated	65279
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 498627
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	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.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Chris Straub Title: Contractor Email: chris.straub@tetratech.com Date: 08/22/2025
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 498627
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 498627
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**354340**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**06/16/2024**
What was the (estimated) number of samples that were to be gathered	**4**
What was the sampling surface area in square feet	**800**

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

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 498627
	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:	9/5/2025
scwells	1) Referring to the Light Overspray area on the scaled sitemap, the proposed samples in this area should be five point composite confirmation samples collected at surface, representing no more than 200 ft2.	9/5/2025
scwells	2) Referring to the Heavy Overspray area, the 6 proposed samples (H1-H6) should be collected at surface, 1', 2', 3' and 4' as these sampling locations are in areas not reasonably needed for production and therefore must meet the requirements of 19.15.29.13 NMAC.	9/5/2025
scwells	3) Under the Site Characterization portion of the C-141 application, to the question "What is the minimum distance between the closest lateral extents of the release and the following surface areas: any lakebed, sinkhole, or playa lake" and "a wetland", you answered between 300 and 500 feet. Referring to Figure 2 in the 10/8/15 approved remediation plan, the release went down the road beside the freshwater pond (a wetland). These distances should be corrected to reflect the correct distance during C-141 application resubmission and within the report itself.	9/5/2025
scwells	4) The variance is approved to use delineation samples for closure should the laboratory results confirm that constituents are below Table I Closure Criteria.	9/5/2025
scwells	Submit remediation closure report to the OCD by 12/4/2025.	9/5/2025