Accepted for the record.
Below the allowable quantity
per 19.15.29.7B NMAC.
Incident cancelled
- 10/02/2023

NV

Pima Environmental Services, LLC
5614 N. Lovington Hwy.
Hobbs, NM 88240
575-964-7740

June 6th, 2023

NMOCD District 2
811 S. First Street
Artesia, NM 88210

Re: Site Assessment, Remediation, and Closure Report
Vacuum Glorieta East Unit #001 06
API No. 30-025-20880
GPS: Latitude 32.80181 Longitude -103.45809
UL "P", Sec. 28, T17S, R35E
Lea County, NM
NMOCD Ref. No. NAPP2311748162

Pima Environmental Services, LLC (Pima) has been contracted by Maverick Permian, LLC to perform a spill assessment, remediation activities, and submit this closure report for a crude oil and produced water release that occurred at the Vacuum Glorieta East Unit #001 06 (VGEU). The initial C-141 was submitted on May 1st, 2023 (Appendix C). This incident was assigned Incident ID NAPP2311748162, by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The VGEU is located approximately three (3) miles east of Buckeye, NM. This spill site is in Unit P, Section 28, Township 17S, Range 35E, Latitude 32.80181, Longitude -103.45809, Lea County, NM. Figure 1 references a location map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Ogallala Formation (Lower Pliocene to middle Miocene). The soil in this area is made up of Kimbrough-Lea complex, dry, 0 to 3 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well-drained. There is a low potential for karst geology to be present around the VGEU (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 80 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 62.89 feet BGS. The closest waterway is a salt playa located approximately 18.41 miles to the southwest of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29					
Depth to Groundwater (Appendix A)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
<50' (No GW Data)	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg
51-100'	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
>100'	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg

Reference Figure 2 for a Topographic map.

Release Information

NAPP2311748162: On April 20th, 2023, A pin hole developed on a flowline, releasing approximately 1.16 barrels of crude oil and 2 barrels of produced water. An area measuring approximately 35 feet by 27 feet was affected. A vacuum truck was deployed and recovered all standing fluid.

Site Assessment and Soil Sampling Results

On April 26th and May 8th, 2023, Pima Environmental Services mobilized personnel to the site to conduct delineation activities. Pima collected a total of ten soil samples, two bottom samples (S1 and S2) to verify vertical delineation, and four side wall samples (SW1-SW4) to verify horizontal delineation. Sample results can be found in the table below. A site map can be found in Figure 4.

4-26-2023 and 5-8-2023 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is _<50_')								
MAVERICK PERMIAN -VGEU 001 #6								
Sample Date: 4/26/2023 and 5/8/2023		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S-1	6"	0.146	ND	ND	191	89.9	280.9	3840
	1'	ND	ND	ND	209	77.6	286.6	666
	2'	ND	ND	ND	ND	ND	0	ND
S-2	6"	0.187	ND	ND	3410	ND	3410	ND
	1'	ND	ND	ND	319	128	447	493
	2'	ND	ND	ND	ND	ND	0	ND
SW 1	6"	ND	ND	ND	ND	ND	0	ND
SW 2	6"	ND	ND	ND	ND	ND	0	ND
SW 3	6"	ND	ND	ND	ND	ND	0	ND
SW 4	6"	ND	ND	ND	ND	ND	0	ND

Nd: Non-Detect

Remediation Activities

On May 22nd, 2023, Pima mobilized personnel and equipment to conduct remedial activities. We scraped the area overlapping soil samples (S1-S2) and (SW1-SW4) to a depth of two (2) feet bgs. Photographic documentation can be found in Appendix D.

On May 24th, 2023, after submitting the 48-hour notification (Appendix C), Pima collected confirmation samples. The laboratory results of this sampling event can be found in the following data table. A confirmation site map can be found in Figure 5.

5-24-2023 Confirmation Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
MAVERICK PERMIAN -VGEU 001 #6								
Sample Date: 5/24/2023		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
CS1	2'	ND	ND	ND	ND	ND	ND	ND
CS2	2'	ND	ND	ND	ND	ND	ND	ND
CS3	2'	ND	ND	ND	ND	ND	ND	ND

CS4	2'	ND	ND	ND	ND	ND	ND	ND
CSW1	0-2'	ND	ND	ND	ND	ND	ND	ND
CSW2	0-2'	ND	ND	ND	ND	ND	ND	ND
CSW3	0-2'	ND	ND	ND	ND	ND	ND	ND
CSW4	0-2'	ND	ND	ND	ND	ND	ND	ND

ND- Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

Closure Request

After careful review, Pima requests that this incident, NAPP2311748162, be closed. Maverick Permian, LLC has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

Should you have any questions or need additional information, please feel free to contact Sebastian Orozco at 619-721-4813 or Sebastian@pimaoil.com.

Respectfully,

Sebastian Orozco

Sebastian Orozco
Environmental Project Manager
Pima Environmental Services, LLC

Attachments

Figures:
1- Location Map
2- Topographic Map
3- Karst Map
4- Site Map
5- Confirmation Site Map

Appendices:
Appendix A – Referenced Water Surveys
Appendix B – Soil Survey and Geological Data
Appendix C – C-141 Form and 48-Hour Notification
Appendix D – Photographic Documentation
Appendix E – Laboratory Reports

Pima Environmental Services

Figures:

1-Location Map

2-Topographic Map

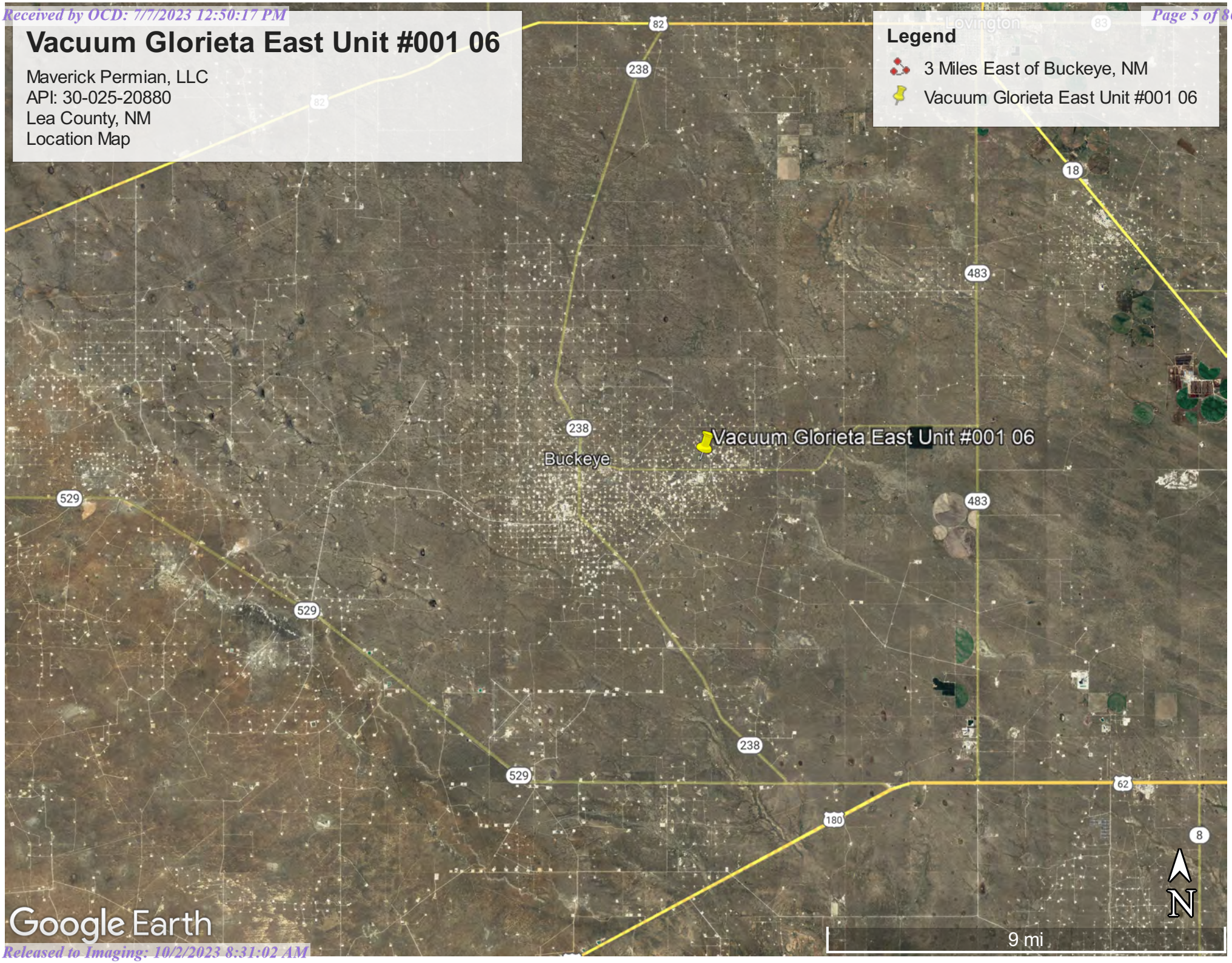
3-Karst Map

4-Site Map

5-Confirmation Site Map

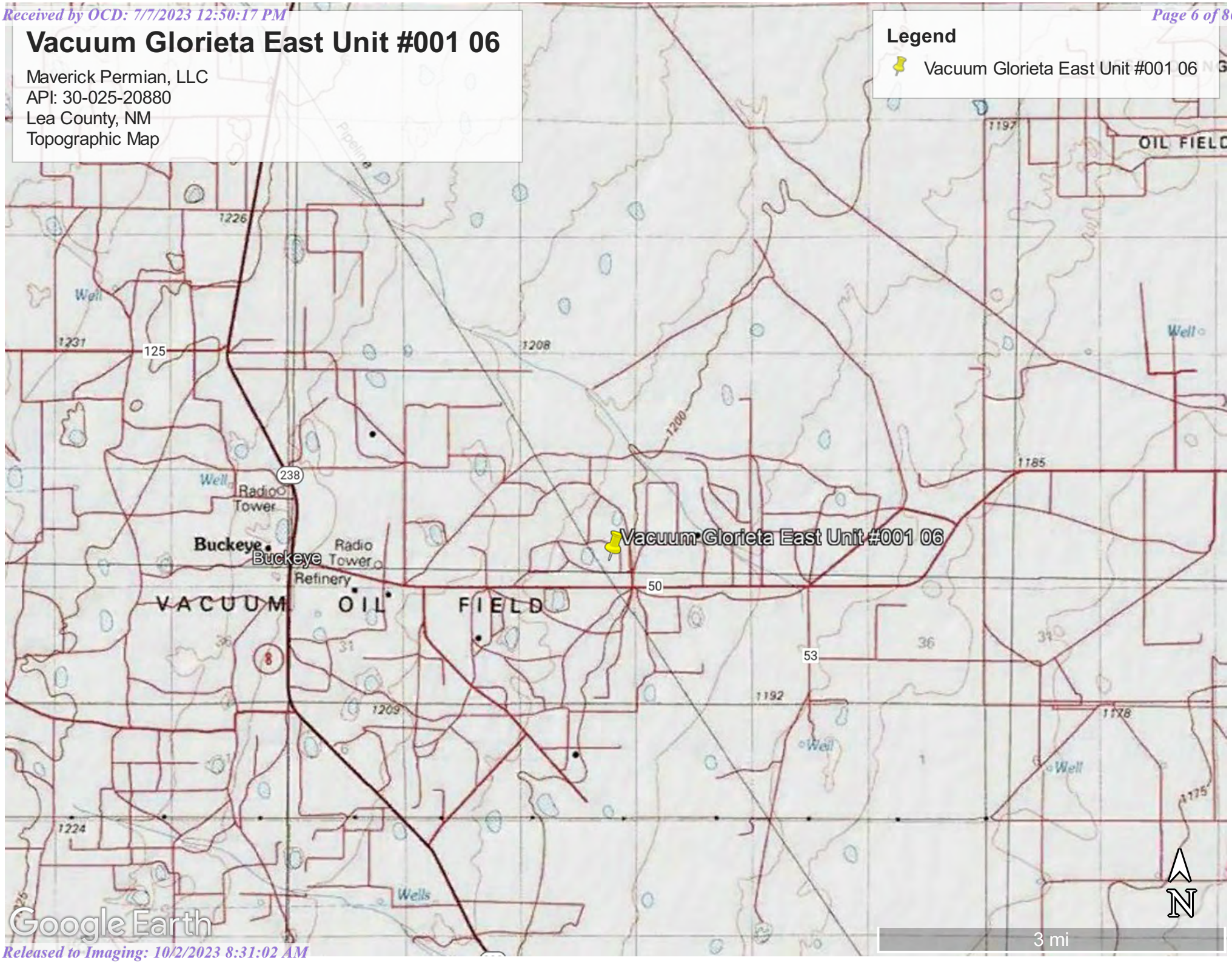
Vacuum Glorieta East Unit #001 06

Maverick Permian, LLC
API: 30-025-20880
Lea County, NM
Location Map



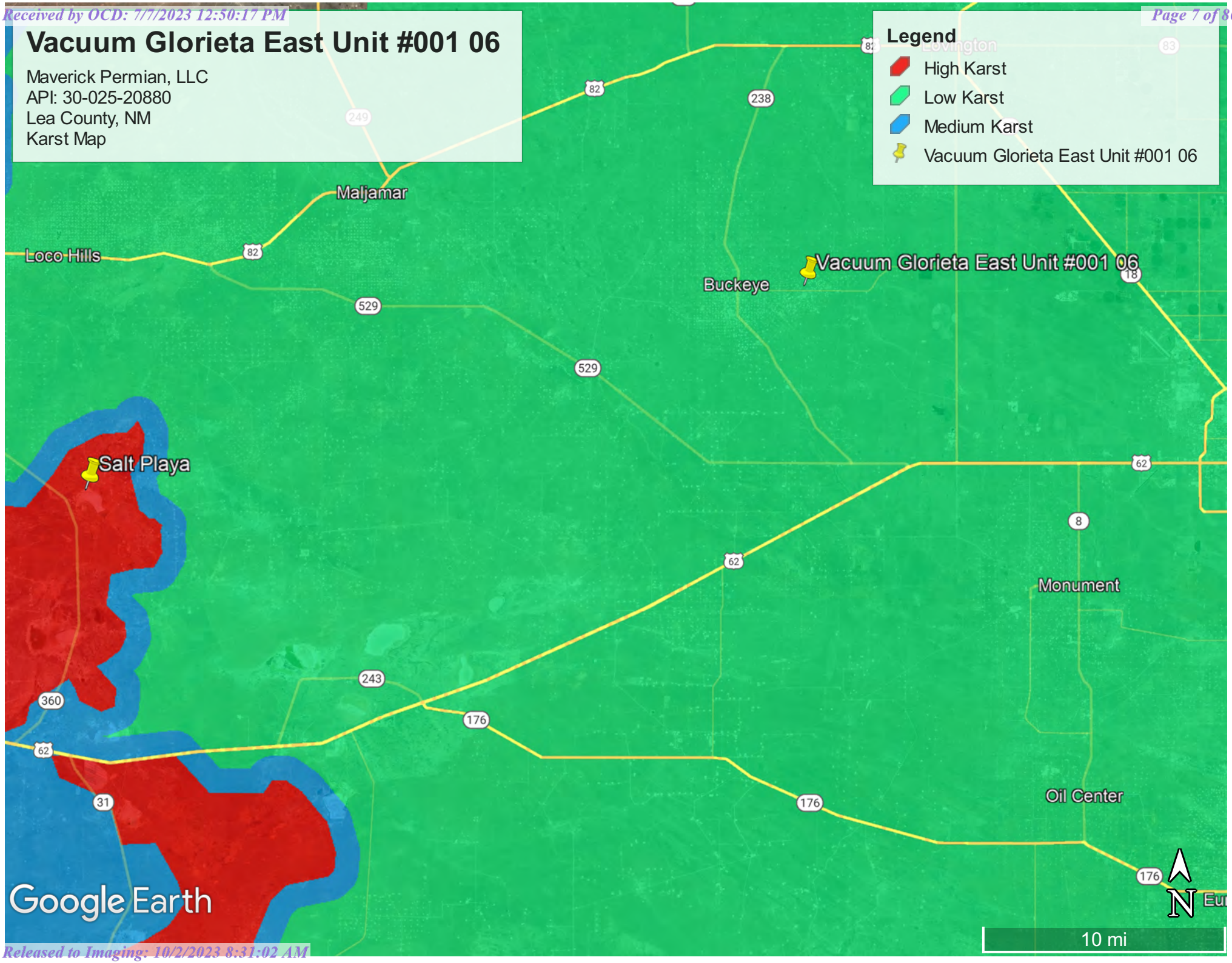
Vacuum Glorieta East Unit #001 06

Maverick Permian, LLC
API: 30-025-20880
Lea County, NM
Topographic Map



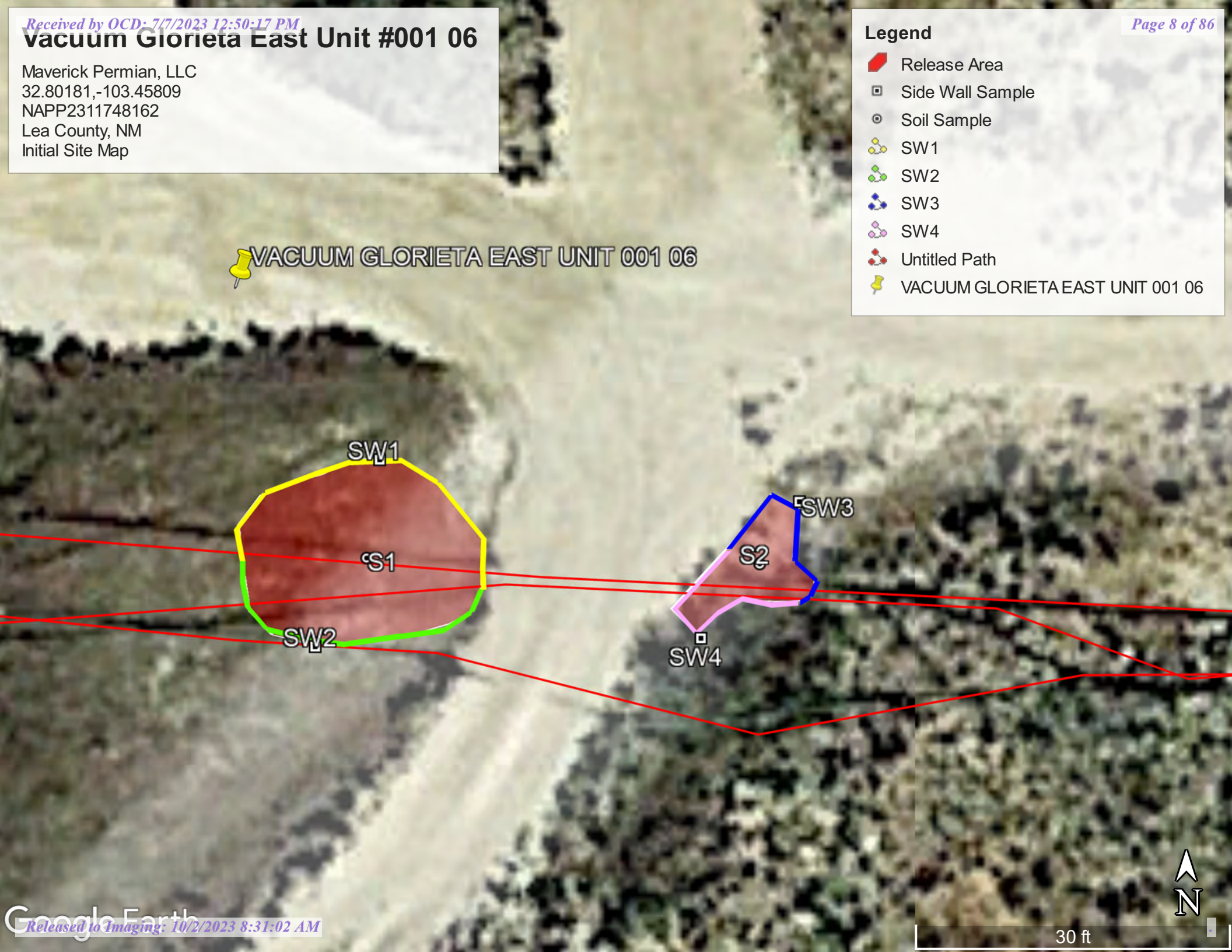
Vacuum Glorieta East Unit #001 06

Maverick Permian, LLC
API: 30-025-20880
Lea County, NM
Karst Map



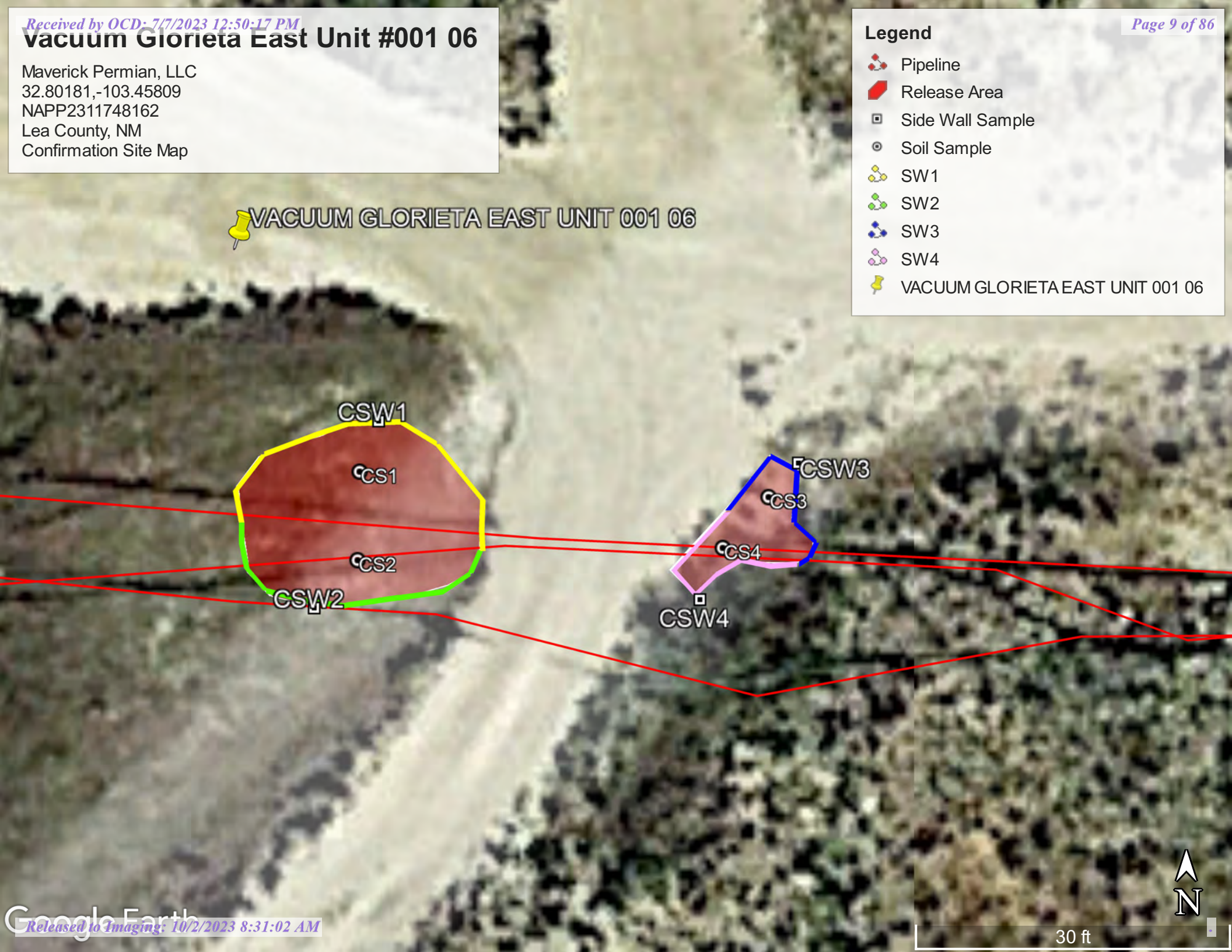
Vacuum Glorieta East Unit #001 06

Maverick Permian, LLC
32.80181,-103.45809
NAPP2311748162
Lea County, NM
Initial Site Map



Vacuum Glorieta East Unit #001 06

Maverick Permian, LLC
32.80181,-103.45809
NAPP2311748162
Lea County, NM
Confirmation Site Map



Pima Environmental Services

Appendix A

Water Surveys:

OSE

USGS

Surface Water Map

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

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

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

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

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 05362		L	LE	3	4	4	28	17S	35E	644444	3630117*	262	140	80	60
L 10297		L	LE		1	1	34	17S	35E	644955	3629819*	803	150	42	108
L 03992		L	LE	3	2	2	28	17S	35E	644426	3631327*	960	125	65	60
L 04829 S2		L	LE		4	3	27	17S	35E	645352	3630227*	993	220	90	130
L 13479 POD3		L	LE	4	4	3	27	17S	35E	645448	3630066	1120	76	70	6
L 13479 POD1		L	LE	2	2	1	34	17S	35E	645495	3630015	1181	80	70	10
L 13479 POD2		L	LE	2	2	1	34	17S	35E	645480	3629941	1190	80	70	10
L 04578		L	LE				33	17S	35E	643962	3629198*	1238	126	60	66
L 05207		L	LE				27	17S	35E	645552	3630825*	1269	140	60	80
L 05834	R	L	LE	2	2	4	33	17S	35E	644663	3629109*	1292	160	70	90
L 05834 POD5		L	LE	2	2	4	33	17S	35E	644663	3629109*	1292	234	65	169
L 04829 S3		L	LE	1	3	1	28	17S	35E	643222	3631111*	1365	215	70	145
L 04633		L	LE		2	4	33	17S	35E	644564	3629010*	1371	130	65	65
L 04775		L	LE		4	1	34	17S	35E	645365	3629421*	1374	133	68	65
L 04829 S5		L	LE		3	1	33	17S	35E	643347	3629400*	1406	220	90	130
L 04880		L	LE		2	3	33	17S	35E	643757	3629002*	1496	145	90	55
L 04727		L	LE				34	17S	35E	645576	3629214*	1670	120	45	75
L 04793		L	LE				34	17S	35E	645576	3629214*	1670	150	50	100

L 05834 POD6	L	LE	1	1	4	34	17S	35E	645673	3629122*	1804	234	65	169
L 04618	L	LE		3	3	34	17S	35E	644973	3628611*	1858	128	55	73
L 04586	L	LE	3	3	4	33	17S	35E	644065	3628502*	1890	125	50	75
L 04859	L	LE	4	4	4	27	17S	35E	646258	3630135*	1904	145	85	60

Average Depth to Water: **67 feet**

Minimum Depth: **42 feet**

Maximum Depth: **90 feet**

Record Count: 22

UTMNAD83 Radius Search (in meters):

Easting (X): 644368.1 **Northing (Y):** 3630367.84 **Radius:** 2000

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

5/31/23 10:50 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

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.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

site_no list =

- 324734103264601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

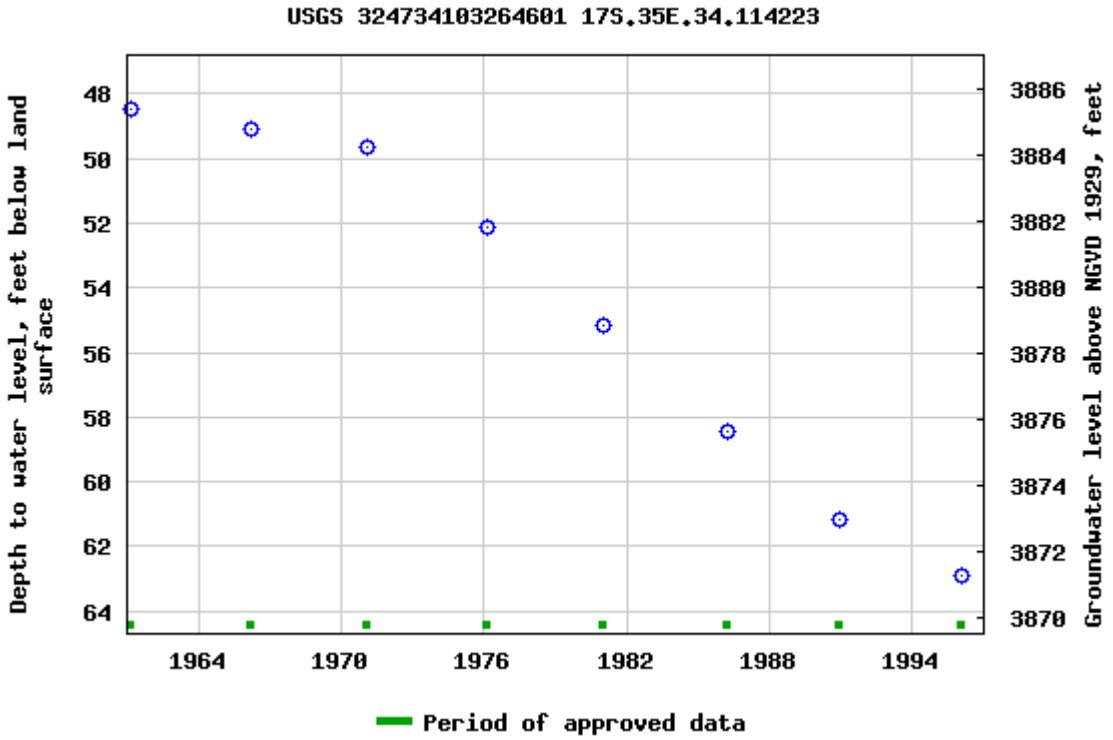
USGS 324734103264601 17S.35E.34.114223

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

Lea County, New Mexico
Hydrologic Unit Code 12080003
Latitude 32°47'47", Longitude 103°26'59" NAD27
Land-surface elevation 3,934.00 feet above NGVD29
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 about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms

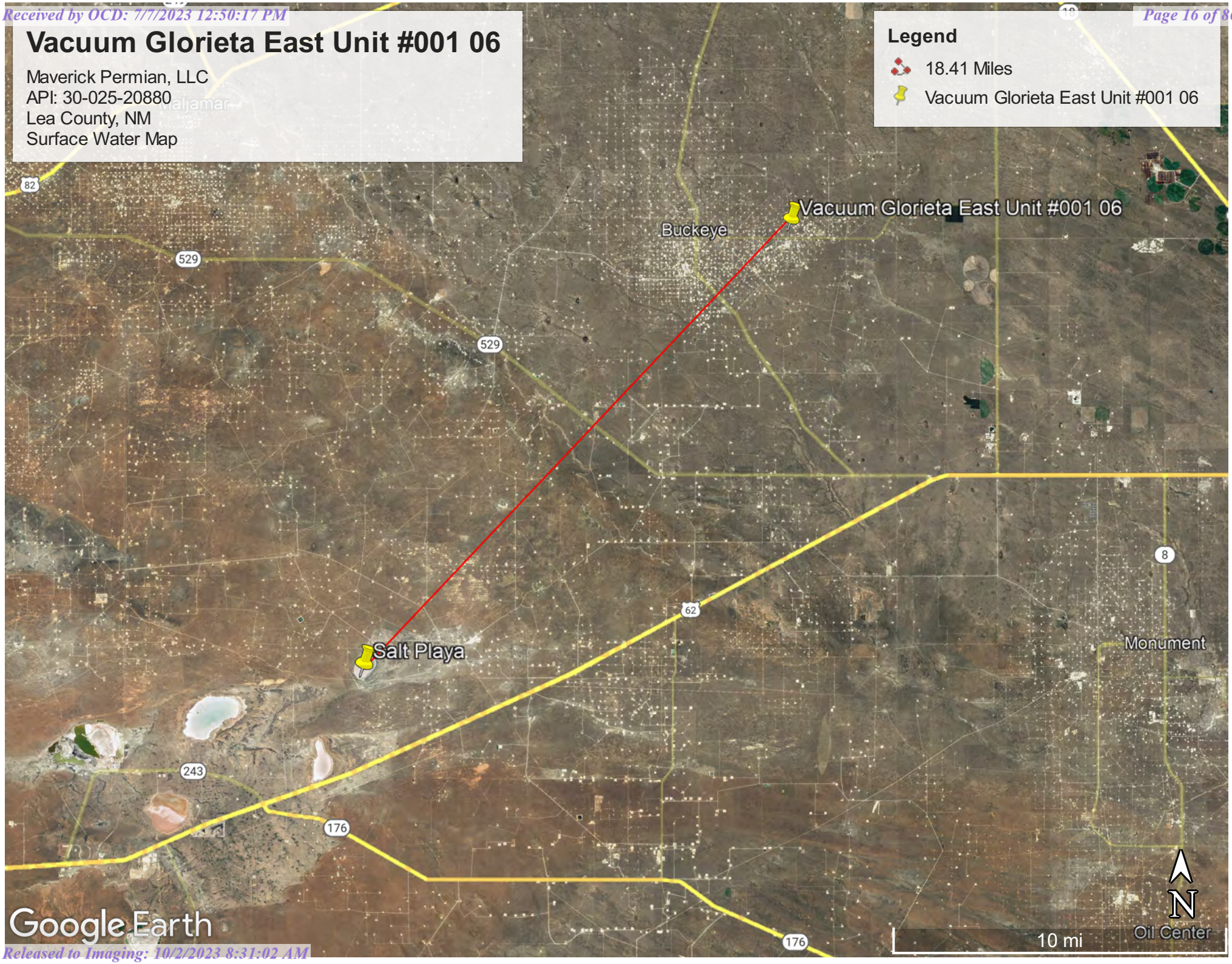
Subscribe for system changes
News

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: 2023-05-31 12:39:28 EDT
0.56 0.48 nadww02

Vacuum Glorieta East Unit #001 06

Maverick Permian, LLC
API: 30-025-20880
Lea County, NM
Surface Water Map



Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands 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 19, Sep 8, 2022

National Flood Hazard Layer FIRMette

FEMA

103°27'48"W 32°48'22"N

103°27'10"W 32°47'51"N

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

1:6,000

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

Legend

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

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

N

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/31/2023 at 12:41 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.

U.S. Fish and Wildlife Service
National Wetlands Inventory

Wetlands Map

May 31, 2023

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

Pima Environmental Services

Appendix C

C-141 Form

48-Hour Notification

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2311748162
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Maverick Permian, LLC	OGRID
Contact Name: Bryce Wagoner	Contact Telephone: 928-241-1862
Contact email: Bryce.Wagoner@mavresources.com	Incident # *(assigned by OCD)*
Contact mailing address: 1410 NW County Road Hobbs, NM 88240	

Location of Release Source

Latitude 32.80181 Longitude -103.45809
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Vacuum Glorieta East Unit #001 06	Site Type:
Date Release Discovered: April 20th, 2023	API# *(if applicable):* *30-025-20880*

Unit Letter	Section	Township	Range	County
P	28	17S	35E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls) 1.16 bbls	Volume Recovered (bbls) 0 bbls
☒ Produced Water	Volume Released (bbls) 2	Volume Recovered (bbls) 0 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

A pin hole developed on a flowline, releasing approximately 1.16 barrels of crude oil and 2 barrels of produced water. An area measuring approximately 35 feet by 27 feet was affected. A vacuum truck was deployed and recovered all standing fluid.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2311748162
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

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.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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.

Printed Name: __Bryce Wagoner_____ Title: _____Permian HSE Specialist II_____

Signature: _____ Date: 5/1/2023

email: _____Bryce.Wagoner@mavresources.com____ Telephone: ____928-241-1862_____

OCD Only

Received by: _____ Date: _____

Spill Volume(Bbls) Calculator *Inputs in blue , Outputs in red*		
Contaminated Soil measurement		
Length(Ft)	Width(Ft)	Depth(Ft)
35	27.000	0.250
Cubic Feet of Soil Impacted		236.250
Barrels of Soil Impacted		42.11
Soil Type		Clay/Sand
Barrels of Oil Assuming 100% Saturation		6.32
Saturation	Fluid present when squeezed	
Estimated Barrels of Oil Released		3.16
Free Standing Fluid Only		

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2311748162
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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?	<50' (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2311748162
District RP	
Facility ID	
Application ID	

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.

Printed Name: Bryce Wagoner Title: Permian HSE Specialist

Signature: Date: 6/28/2023

email: Bryce.Wagoner@mavresources.com Telephone: 928-241-1862

OCD Only

Received by: Shelly Wells Date: 7/7/2023

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2311748162
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

[x] A scaled site and sampling diagram as described in 19.15.29.11 NMAC

[x] Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

[x] Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

[x] Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Bryce Wagoner Title: Permian HSE Specialist

Signature: Date: 6/28/2023

email: Bryce.Wagoner@mavresources.com Telephone: 928-241-1862

OCD Only

Received by: Shelly Wells Date: 7/7/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Date:

Printed Name: Title:

From: sebastian@pimaoil.com
To: ocdonline@state.nm.us
Cc: tom@pimaoil.com; Polly@pimaoil.com
Subject: Vacuum Glorieta East Unit #001 06 (NAPP2311748162) - 48 Hour Notification
Date: Monday, May 22, 2023 9:34:29 AM
Attachments: image001.png

Good morning,

Pima Environmental would like to notify you that we will be conducting a confirmation sampling event at the Vacuum Glorieta East Unit #001 06 (NAPP2311748162), on Wednesday May 24, 2023. Pima personnel will be on location at 9:30 am. Thank you.

Respectfully,
Sebastian Orozco
Environmental Professional
5614 N Lovington Hwy,
Hobbs, NM 88240
Sebastian@pimaoil.com
619-721-4813 cell

Pima Environmental Services

Appendix D

Photographic Documentation

SITE PHOTOGRAPHS
Maverick Permian, LLC
Vacuum Glorieta East Unit #001 06

Site Assessment:

Excavation:


+32.801865,-103.458111
Lea County
Maverick
VGEU 001 06
Pre-Excavation


+32.801937,-103.458027
Lea County
Maverick
VGEU 001 06
Pre-Excavation


+32.801865,-103.458111
Lea County
Maverick
VGEU 001 06
Pre-Excavation


+32.801803,-103.458030
Lea County
Maverick
VGEU 001 06
Pre-Excavation

Pima Environmental Services

Appendix E

Laboratory Reports

Report to:

Tom Bynum

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name:	Vacuum Glorieta East Unit 001 #6
Work Order:	E304210
Job Number:	21064-0001
Received:	4/28/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/4/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/4/23

Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Vacuum Glorieta East Unit 001 #6
Workorder: E304210
Date Received: 4/28/2023 8:45:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/28/2023 8:45:00AM, under the Project Name: Vacuum Glorieta East Unit 001 #6.

The analytical test results summarized in this report with the Project Name: Vacuum Glorieta East Unit 001 #6 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit 001 #6	**Reported:**
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	05/04/23 08:36

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - 6"	E304210-01A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
S1 - 1'	E304210-02A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
S2 - 6"	E304210-03A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
S2 - 1'	E304210-04A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
SW1	E304210-05A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
SW2	E304210-06A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
SW3	E304210-07A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
SW4	E304210-08A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit 001 #6	
PO Box 247	Project Number:	21064-0001	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 8:36:35AM

S1 - 6"

E304210-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2318008
Benzene	ND	0.0250	1	05/01/23	05/02/23	
Ethylbenzene	**0.0380**	0.0250	1	05/01/23	05/02/23	
Toluene	**0.0317**	0.0250	1	05/01/23	05/02/23	
o-Xylene	**0.0514**	0.0250	1	05/01/23	05/02/23	
p,m-Xylene	**0.0949**	0.0500	1	05/01/23	05/02/23	
Total Xylenes	**0.146**	0.0250	1	05/01/23	05/02/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.8 %*	*70-130*	*05/01/23*	*05/02/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2318008
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/23	05/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.0 %*	*70-130*	*05/01/23*	*05/02/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2318002
Diesel Range Organics (C10-C28)	**191**	25.0	1	05/01/23	05/02/23	
Oil Range Organics (C28-C36)	**89.9**	50.0	1	05/01/23	05/02/23	
Surrogate: n-Nonane		*85.9 %*	*50-200*	*05/01/23*	*05/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2318009
Chloride	**3840**	40.0	2	05/01/23	05/02/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit 001 #6	
PO Box 247	Project Number:	21064-0001	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 8:36:35AM

S1 - 1'

E304210-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2318008
Benzene	ND	0.0250	1	05/01/23	05/02/23	
Ethylbenzene	ND	0.0250	1	05/01/23	05/02/23	
Toluene	ND	0.0250	1	05/01/23	05/02/23	
o-Xylene	ND	0.0250	1	05/01/23	05/02/23	
p,m-Xylene	ND	0.0500	1	05/01/23	05/02/23	
Total Xylenes	ND	0.0250	1	05/01/23	05/02/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.6 %*	*70-130*	*05/01/23*	*05/02/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2318008
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/23	05/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.4 %*	*70-130*	*05/01/23*	*05/02/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2318002
Diesel Range Organics (C10-C28)	**209**	25.0	1	05/01/23	05/02/23	
Oil Range Organics (C28-C36)	**77.6**	50.0	1	05/01/23	05/02/23	
Surrogate: n-Nonane		*88.2 %*	*50-200*	*05/01/23*	*05/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2318009
Chloride	**666**	20.0	1	05/01/23	05/02/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit 001 #6	
PO Box 247	Project Number:	21064-0001	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 8:36:35AM

S2 - 6"

E304210-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2318008
Benzene	ND	0.0250	1	05/01/23	05/02/23	
Ethylbenzene	**0.0785**	0.0250	1	05/01/23	05/02/23	
Toluene	**0.0572**	0.0250	1	05/01/23	05/02/23	
o-Xylene	**0.0769**	0.0250	1	05/01/23	05/02/23	
p,m-Xylene	**0.110**	0.0500	1	05/01/23	05/02/23	
Total Xylenes	**0.187**	0.0250	1	05/01/23	05/02/23	
Surrogate: 4-Bromochlorobenzene-PID		*99.9 %*	*70-130*	*05/01/23*	*05/02/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2318008
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/23	05/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.5 %*	*70-130*	*05/01/23*	*05/02/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2318002
Diesel Range Organics (C10-C28)	**3410**	1250	50	05/01/23	05/02/23	
Oil Range Organics (C28-C36)	ND	2500	50	05/01/23	05/02/23	
Surrogate: n-Nonane		*75.1 %*	*50-200*	*05/01/23*	*05/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2318009
Chloride	ND	400	20	05/01/23	05/02/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit 001 #6	
PO Box 247	Project Number:	21064-0001	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 8:36:35AM

S2 - 1'

E304210-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2318008
Benzene	ND	0.0250	1	05/01/23	05/02/23	
Ethylbenzene	**0.0286**	0.0250	1	05/01/23	05/02/23	
Toluene	ND	0.0250	1	05/01/23	05/02/23	
o-Xylene	ND	0.0250	1	05/01/23	05/02/23	
p,m-Xylene	ND	0.0500	1	05/01/23	05/02/23	
Total Xylenes	ND	0.0250	1	05/01/23	05/02/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.2 %*	*70-130*	*05/01/23*	*05/02/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2318008
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/23	05/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.0 %*	*70-130*	*05/01/23*	*05/02/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2318002
Diesel Range Organics (C10-C28)	**319**	25.0	1	05/01/23	05/02/23	
Oil Range Organics (C28-C36)	**128**	50.0	1	05/01/23	05/02/23	
Surrogate: n-Nonane		*88.3 %*	*50-200*	*05/01/23*	*05/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2318009
Chloride	**493**	20.0	1	05/01/23	05/02/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit 001 #6	
PO Box 247	Project Number:	21064-0001	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 8:36:35AM

SW1

E304210-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2318008
Benzene	ND	0.0250	1	05/01/23	05/02/23	
Ethylbenzene	**0.0674**	0.0250	1	05/01/23	05/02/23	
Toluene	**0.0418**	0.0250	1	05/01/23	05/02/23	
o-Xylene	ND	0.0250	1	05/01/23	05/02/23	
p,m-Xylene	ND	0.0500	1	05/01/23	05/02/23	
Total Xylenes	ND	0.0250	1	05/01/23	05/02/23	
Surrogate: 4-Bromochlorobenzene-PID		*88.4 %*	*70-130*	*05/01/23*	*05/02/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2318008
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/23	05/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.7 %*	*70-130*	*05/01/23*	*05/02/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2318002
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/23	05/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/23	05/02/23	
Surrogate: n-Nonane		*88.1 %*	*50-200*	*05/01/23*	*05/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2318009
Chloride	ND	20.0	1	05/01/23	05/02/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit 001 #6	
PO Box 247	Project Number:	21064-0001	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 8:36:35AM

SW2

E304210-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2318008
Benzene	ND	0.0250	1	05/01/23	05/02/23	
Ethylbenzene	ND	0.0250	1	05/01/23	05/02/23	
Toluene	ND	0.0250	1	05/01/23	05/02/23	
o-Xylene	ND	0.0250	1	05/01/23	05/02/23	
p,m-Xylene	ND	0.0500	1	05/01/23	05/02/23	
Total Xylenes	ND	0.0250	1	05/01/23	05/02/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.6 %*	*70-130*	*05/01/23*	*05/02/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2318008
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/23	05/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.4 %*	*70-130*	*05/01/23*	*05/02/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2318002
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/23	05/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/23	05/02/23	
Surrogate: n-Nonane		*88.2 %*	*50-200*	*05/01/23*	*05/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2318009
Chloride	ND	20.0	1	05/01/23	05/02/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit 001 #6	
PO Box 247	Project Number:	21064-0001	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 8:36:35AM

SW3

E304210-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2318008
Benzene	ND	0.0250	1	05/01/23	05/02/23	
Ethylbenzene	ND	0.0250	1	05/01/23	05/02/23	
Toluene	ND	0.0250	1	05/01/23	05/02/23	
o-Xylene	ND	0.0250	1	05/01/23	05/02/23	
p,m-Xylene	ND	0.0500	1	05/01/23	05/02/23	
Total Xylenes	ND	0.0250	1	05/01/23	05/02/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.3 %*	*70-130*	*05/01/23*	*05/02/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2318008
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/23	05/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.8 %*	*70-130*	*05/01/23*	*05/02/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2318002
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/23	05/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/23	05/02/23	
Surrogate: n-Nonane		*86.4 %*	*50-200*	*05/01/23*	*05/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2318009
Chloride	ND	20.0	1	05/01/23	05/02/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit 001 #6	
PO Box 247	Project Number:	21064-0001	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 8:36:35AM

SW4

E304210-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2318008
Benzene	ND	0.0250	1	05/01/23	05/02/23	
Ethylbenzene	ND	0.0250	1	05/01/23	05/02/23	
Toluene	ND	0.0250	1	05/01/23	05/02/23	
o-Xylene	ND	0.0250	1	05/01/23	05/02/23	
p,m-Xylene	ND	0.0500	1	05/01/23	05/02/23	
Total Xylenes	ND	0.0250	1	05/01/23	05/02/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.3 %*	*70-130*	*05/01/23*	*05/02/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2318008
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/23	05/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.2 %*	*70-130*	*05/01/23*	*05/02/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2318002
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/23	05/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/23	05/02/23	
Surrogate: n-Nonane		*91.4 %*	*50-200*	*05/01/23*	*05/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2318009
Chloride	ND	20.0	1	05/01/23	05/02/23	

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit 001 #6	**Reported:**
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 8:36:35AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2318008-BLK1)									Prepared: 05/01/23 Analyzed: 05/02/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.34*		*8.00*		*91.8*	*70-130*			
LCS (2318008-BS1)									Prepared: 05/01/23 Analyzed: 05/02/23
Benzene	4.69	0.0250	5.00		93.7	70-130			
Ethylbenzene	4.87	0.0250	5.00		97.3	70-130			
Toluene	4.95	0.0250	5.00		99.0	70-130			
o-Xylene	4.97	0.0250	5.00		99.4	70-130			
p,m-Xylene	9.89	0.0500	10.0		98.9	70-130			
Total Xylenes	14.9	0.0250	15.0		99.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.44*		*8.00*		*93.1*	*70-130*			
Matrix Spike (2318008-MS1)				**Source: E304209-02**					Prepared: 05/01/23 Analyzed: 05/02/23
Benzene	4.49	0.0250	5.00	ND	89.8	54-133			
Ethylbenzene	4.71	0.0250	5.00	0.0900	92.4	61-133			
Toluene	4.77	0.0250	5.00	0.0449	94.5	61-130			
o-Xylene	4.79	0.0250	5.00	0.0446	94.9	63-131			
p,m-Xylene	9.53	0.0500	10.0	0.0987	94.4	63-131			
Total Xylenes	14.3	0.0250	15.0	0.143	94.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.42*		*8.00*		*92.7*	*70-130*			
Matrix Spike Dup (2318008-MSD1)				**Source: E304209-02**					Prepared: 05/01/23 Analyzed: 05/02/23
Benzene	4.63	0.0250	5.00	ND	92.6	54-133	3.00	20	
Ethylbenzene	4.85	0.0250	5.00	0.0900	95.1	61-133	2.87	20	
Toluene	4.90	0.0250	5.00	0.0449	97.2	61-130	2.74	20	
o-Xylene	4.93	0.0250	5.00	0.0446	97.7	63-131	2.87	20	
p,m-Xylene	9.79	0.0500	10.0	0.0987	96.9	63-131	2.67	20	
Total Xylenes	14.7	0.0250	15.0	0.143	97.2	63-131	2.74	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.30*		*8.00*		*91.2*	*70-130*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit 001 #6	**Reported:**
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 8:36:35AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2318008-BLK1)									Prepared: 05/01/23 Analyzed: 05/02/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.71*		*8.00*		*96.4*	*70-130*			
LCS (2318008-BS2)									Prepared: 05/01/23 Analyzed: 05/02/23
Gasoline Range Organics (C6-C10)	44.0	20.0	50.0		88.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.85*		*8.00*		*98.2*	*70-130*			
Matrix Spike (2318008-MS2)				**Source: E304209-02**					Prepared: 05/01/23 Analyzed: 05/03/23
Gasoline Range Organics (C6-C10)	52.4	20.0	50.0	ND	105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.87*		*8.00*		*98.4*	*70-130*			
Matrix Spike Dup (2318008-MSD2)				**Source: E304209-02**					Prepared: 05/01/23 Analyzed: 05/03/23
Gasoline Range Organics (C6-C10)	50.4	20.0	50.0	ND	101	70-130	3.77	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.51*		*8.00*		*93.8*	*70-130*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit 001 #6	**Reported:**
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 8:36:35AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2318002-BLK1)									Prepared: 05/01/23 Analyzed: 05/01/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*41.9*		*50.0*		*83.7*	*50-200*			
LCS (2318002-BS1)									Prepared: 05/01/23 Analyzed: 05/01/23
Diesel Range Organics (C10-C28)	251	25.0	250		100	38-132			
Surrogate: n-Nonane	*43.6*		*50.0*		*87.2*	*50-200*			
Matrix Spike (2318002-MS1)				**Source: E304197-11**					Prepared: 05/01/23 Analyzed: 05/01/23
Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	*44.0*		*50.0*		*87.9*	*50-200*			
Matrix Spike Dup (2318002-MSD1)				**Source: E304197-11**					Prepared: 05/01/23 Analyzed: 05/01/23
Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.1	38-132	1.81	20	
Surrogate: n-Nonane	*41.2*		*50.0*		*82.4*	*50-200*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit 001 #6	**Reported:**
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 8:36:35AM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2318009-BLK1)									Prepared: 05/01/23 Analyzed: 05/01/23
Chloride	ND	20.0							
LCS (2318009-BS1)									Prepared: 05/01/23 Analyzed: 05/01/23
Chloride	246	20.0	250		98.2	90-110			
Matrix Spike (2318009-MS1)				**Source: E305001-01**					Prepared: 05/01/23 Analyzed: 05/01/23
Chloride	282	20.0	250	32.4	99.9	80-120			
Matrix Spike Dup (2318009-MSD1)				**Source: E305001-01**					Prepared: 05/01/23 Analyzed: 05/01/23
Chloride	278	20.0	250	32.4	98.4	80-120	1.36	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit 001 #6	
PO Box 247	Project Number:	21064-0001	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	05/04/23 08:36

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information

Chain of Custody

Client / Project	Bill To	Lab Use Only	TAT	EPA Program
Client: Pima Environmental Services	Attention: Pima	Lab WO#: E304210	1D / 2D / 3D / Standard: X (Standard)	CWA / SDWA
Project: Vacuum Glorieta East Unit 001 #6	Address:	Job Number: 21004-0001		RCRA
Project Manager: Tom Bynum	City, State, Zip			State: NM X / CO / UT / AZ / TX
Address: 5614 N. Lovington Hwy.	Phone:			
City, State, Zip Hobbs, NM, 88240	Email:			
Phone: 580-748-1613	Pima Project # 24-6			
Email: tom@pimaoil.com				
Report due by:				

Analysis and Method

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM	BGDOC TX			Remarks
	4/26/23	Soil	1	S1-6"	1									X				
	4/26/23	Soil	1	S1-1'	2									X				
	4/26/23	Soil	1	S2-6"	3									X				
	4/26/23	Soil	1	S2-1'	4									X				
	4/26/23	Soil	1	SW1	5									X				
	4/26/23	Soil	1	SW2	6									X				
	4/26/23	Soil	1	SW3	7									X				
	4/26/23	Soil	1	SW4	8									X				

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	4-27-23	2100	[signature]	4-27-23	1400
[signature]	4-27-23	1745	Andrew Musso	4-27-23	1800
Andrew Musso	4-27-23	2330	[signature]	4/28/23	8:45

Lab Use Only

Received on ice: (Y) / N

T1 ______ T2 ______ T3 ______

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other ______

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 4/28/2023 1:19:23PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Pima Environmental Services-Carlsbad	Date Received:	04/28/23 08:45	Work Order ID:	E304210
Phone:	(575) 631-6977	Date Logged In:	04/27/23 16:47	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	05/04/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	Yes	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Comments/Resolution

Time sampled not provided on the COC by client.

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Tom Bynum

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: VGEU 001 #6

Work Order: E305047

Job Number: 21064-0001

Received: 5/9/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/15/23

Date Reported: 5/15/23

Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: VGEU 001 #6
Workorder: E305047
Date Received: 5/9/2023 7:45:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/9/2023 7:45:00AM, under the Project Name: VGEU 001 #6.

The analytical test results summarized in this report with the Project Name: VGEU 001 #6 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
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Office: 505-632-1881
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Technical Representative
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	VGEU 001 #6	**Reported:**
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	05/15/23 09:15

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - 2'	E305047-01A	Soil	05/08/23	05/09/23	Glass Jar, 2 oz.
S2 - 2'	E305047-02A	Soil	05/08/23	05/09/23	Glass Jar, 2 oz.

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	VGEU 001 #6	
PO Box 247	Project Number:	21064-0001	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/15/2023 9:15:40AM

S1 - 2'

E305047-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2319023
Benzene	ND	0.0250	1	05/09/23	05/09/23	
Ethylbenzene	ND	0.0250	1	05/09/23	05/09/23	
Toluene	ND	0.0250	1	05/09/23	05/09/23	
o-Xylene	ND	0.0250	1	05/09/23	05/09/23	
p,m-Xylene	ND	0.0500	1	05/09/23	05/09/23	
Total Xylenes	ND	0.0250	1	05/09/23	05/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*98.2 %*	*70-130*	*05/09/23*	*05/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2319023
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/09/23	05/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.7 %*	*70-130*	*05/09/23*	*05/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2319037
Diesel Range Organics (C10-C28)	ND	25.0	1	05/10/23	05/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/10/23	05/11/23	
Surrogate: n-Nonane		*87.4 %*	*50-200*	*05/10/23*	*05/11/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2319007
Chloride	ND	20.0	1	05/08/23	05/10/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	VGEU 001 #6	
PO Box 247	Project Number:	21064-0001	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/15/2023 9:15:40AM

S2 - 2'

E305047-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2319023
Benzene	ND	0.0250	1	05/09/23	05/09/23	
Ethylbenzene	ND	0.0250	1	05/09/23	05/09/23	
Toluene	ND	0.0250	1	05/09/23	05/09/23	
o-Xylene	ND	0.0250	1	05/09/23	05/09/23	
p,m-Xylene	ND	0.0500	1	05/09/23	05/09/23	
Total Xylenes	ND	0.0250	1	05/09/23	05/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*97.3 %*	*70-130*	*05/09/23*	*05/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2319023
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/09/23	05/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.7 %*	*70-130*	*05/09/23*	*05/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2319037
Diesel Range Organics (C10-C28)	ND	25.0	1	05/10/23	05/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/10/23	05/11/23	
Surrogate: n-Nonane		*89.8 %*	*50-200*	*05/10/23*	*05/11/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2319007
Chloride	ND	20.0	1	05/08/23	05/10/23	

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	VGEU 001 #6	**Reported:**
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/15/2023 9:15:40AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2319023-BLK1)									Prepared: 05/09/23 Analyzed: 05/09/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.58*		*8.00*		*94.7*	*70-130*			
LCS (2319023-BS1)									Prepared: 05/09/23 Analyzed: 05/09/23
Benzene	4.67	0.0250	5.00		93.4	70-130			
Ethylbenzene	4.87	0.0250	5.00		97.5	70-130			
Toluene	4.94	0.0250	5.00		98.8	70-130			
o-Xylene	5.01	0.0250	5.00		100	70-130			
p,m-Xylene	9.93	0.0500	10.0		99.3	70-130			
Total Xylenes	14.9	0.0250	15.0		99.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.57*		*8.00*		*94.6*	*70-130*			
Matrix Spike (2319023-MS1)				**Source: E305046-02**					Prepared: 05/09/23 Analyzed: 05/09/23
Benzene	4.49	0.0250	5.00	ND	89.7	54-133			
Ethylbenzene	4.69	0.0250	5.00	ND	93.9	61-133			
Toluene	4.77	0.0250	5.00	ND	95.3	61-130			
o-Xylene	4.82	0.0250	5.00	ND	96.5	63-131			
p,m-Xylene	9.55	0.0500	10.0	ND	95.5	63-131			
Total Xylenes	14.4	0.0250	15.0	ND	95.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.64*		*8.00*		*95.4*	*70-130*			
Matrix Spike Dup (2319023-MSD1)				**Source: E305046-02**					Prepared: 05/09/23 Analyzed: 05/09/23
Benzene	4.52	0.0250	5.00	ND	90.5	54-133	0.833	20	
Ethylbenzene	4.73	0.0250	5.00	ND	94.6	61-133	0.806	20	
Toluene	4.80	0.0250	5.00	ND	95.9	61-130	0.638	20	
o-Xylene	4.86	0.0250	5.00	ND	97.2	63-131	0.687	20	
p,m-Xylene	9.63	0.0500	10.0	ND	96.3	63-131	0.865	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.6	63-131	0.806	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.63*		*8.00*		*95.4*	*70-130*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	VGEU 001 #6	**Reported:**
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/15/2023 9:15:40AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2319023-BLK1)									Prepared: 05/09/23 Analyzed: 05/09/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.44*		*8.00*		*93.0*	*70-130*			
LCS (2319023-BS2)									Prepared: 05/09/23 Analyzed: 05/09/23
Gasoline Range Organics (C6-C10)	45.2	20.0	50.0		90.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.70*		*8.00*		*96.3*	*70-130*			
Matrix Spike (2319023-MS2)				**Source: E305046-02**					Prepared: 05/09/23 Analyzed: 05/09/23
Gasoline Range Organics (C6-C10)	47.2	20.0	50.0	ND	94.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.72*		*8.00*		*96.4*	*70-130*			
Matrix Spike Dup (2319023-MSD2)				**Source: E305046-02**					Prepared: 05/09/23 Analyzed: 05/09/23
Gasoline Range Organics (C6-C10)	44.3	20.0	50.0	ND	88.6	70-130	6.34	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.58*		*8.00*		*94.8*	*70-130*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	VGEU 001 #6	**Reported:**
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/15/2023 9:15:40AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2319037-BLK1)									Prepared: 05/10/23 Analyzed: 05/10/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*45.3*		*50.0*		*90.7*	*50-200*			
LCS (2319037-BS1)									Prepared: 05/10/23 Analyzed: 05/10/23
Diesel Range Organics (C10-C28)	256	25.0	250		102	38-132			
Surrogate: n-Nonane	*43.8*		*50.0*		*87.7*	*50-200*			
Matrix Spike (2319037-MS1)				**Source: E305056-01**					Prepared: 05/10/23 Analyzed: 05/10/23
Diesel Range Organics (C10-C28)	431	25.0	250	259	68.7	38-132			
Surrogate: n-Nonane	*65.5*		*50.0*		*131*	*50-200*			
Matrix Spike Dup (2319037-MSD1)				**Source: E305056-01**					Prepared: 05/10/23 Analyzed: 05/10/23
Diesel Range Organics (C10-C28)	418	25.0	250	259	63.4	38-132	3.11	20	
Surrogate: n-Nonane	*64.5*		*50.0*		*129*	*50-200*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	VGEU 001 #6	**Reported:**
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/15/2023 9:15:40AM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2319007-BLK1)									Prepared: 05/10/23 Analyzed: 05/10/23
Chloride	ND	20.0							
LCS (2319007-BS1)									Prepared: 05/10/23 Analyzed: 05/10/23
Chloride	262	20.0	250		105	90-110			
Matrix Spike (2319007-MS1)				**Source: E305033-01**					Prepared: 05/10/23 Analyzed: 05/10/23
Chloride	259	20.0	250	ND	103	80-120			
Matrix Spike Dup (2319007-MSD1)				**Source: E305033-01**					Prepared: 05/10/23 Analyzed: 05/10/23
Chloride	260	20.0	250	ND	104	80-120	0.472	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	VGEU 001 #6	
PO Box 247	Project Number:	21064-0001	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	05/15/23 09:15

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information | Chain of Custody | Page 1 of 1

Client: Pima Environmental Services	
Project: GW 001 #6	
Project Manager: Tom Bynum	
Address: 5614 N. Lovington Hwy.	
City, State, Zip Hobbs, NM, 88240	
Phone: 580-748-1613	
Email: tom@pimaoil.com	
Report due by:	

Bill To

Attention: Pima	
Address:	
City, State, Zip	
Phone:	
Email:	
Pima Project # 24-6	

Lab Use Only

Lab WO#	Job Number
E305047	24104-0001

TAT

1D	2D	3D	Standard
			X

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	
X					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM	BGDOC TX			Remarks
8:05 am	5/8/23	S	1	S1-2'	1													
8:10 am	"	"	"	S2-2'	2									"				

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Karime Adame	5/8/23	200	Michelle Gurule	5.8.23	1400
Michelle Gurule	5.8.23	1630	Hilcw Mesfin	5.8.23	1700
Hilcw Mesfin	5-8-23	2300		5.9.23	7:45

Lab Use Only

Received on ice: (Y) / N

T1 T2 T3

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 5/9/2023 11:29:10AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Pima Environmental Services-Carlsbad	Date Received:	05/09/23 07:45	Work Order ID:	E305047
Phone:	(575) 631-6977	Date Logged In:	05/08/23 16:18	Logged In By:	Caitlin Mars
Email:	tom@pimaoil.com	Due Date:	05/15/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filteration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

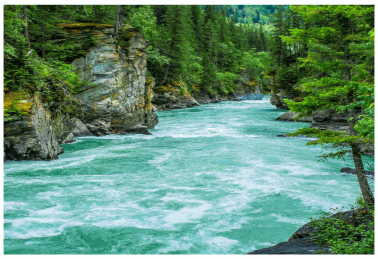
Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Tom Bynum



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name:	Vacuum Glorieta East Unit #001 06
Work Order:	E305191
Job Number:	21064-0001
Received:	5/31/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/5/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 6/5/23

Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Vacuum Glorieta East Unit #001 06
Workorder: E305191
Date Received: 5/31/2023 6:25:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/31/2023 6:25:00AM, under the Project Name: Vacuum Glorieta East Unit #001 06.

The analytical test results summarized in this report with the Project Name: Vacuum Glorieta East Unit #001 06 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

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Laboratory Administrator
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labadmin@envirotech-inc.com

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West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit #001 06	**Reported:**
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	06/05/23 15:33

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS1	E305191-01A	Soil	05/24/23	05/31/23	Glass Jar, 2 oz.
CS2	E305191-02A	Soil	05/24/23	05/31/23	Glass Jar, 2 oz.
CS3	E305191-03A	Soil	05/24/23	05/31/23	Glass Jar, 2 oz.
CS4	E305191-04A	Soil	05/24/23	05/31/23	Glass Jar, 2 oz.
CSW1	E305191-05A	Soil	05/24/23	05/31/23	Glass Jar, 2 oz.
CSW2	E305191-06A	Soil	05/24/23	05/31/23	Glass Jar, 2 oz.
CSW3	E305191-07A	Soil	05/24/23	05/31/23	Glass Jar, 2 oz.
CSW4	E305191-08A	Soil	05/24/23	05/31/23	Glass Jar, 2 oz.

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit #001 06	
PO Box 247	Project Number:	21064-0001	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/5/2023 3:33:58PM

CS1

E305191-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2322035
Benzene	ND	0.0250	1	05/31/23	06/01/23	
Ethylbenzene	ND	0.0250	1	05/31/23	06/01/23	
Toluene	ND	0.0250	1	05/31/23	06/01/23	
o-Xylene	ND	0.0250	1	05/31/23	06/01/23	
p,m-Xylene	ND	0.0500	1	05/31/23	06/01/23	
Total Xylenes	ND	0.0250	1	05/31/23	06/01/23	
Surrogate: 4-Bromochlorobenzene-PID		*97.7 %*	*70-130*	*05/31/23*	*06/01/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2322035
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/31/23	06/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.8 %*	*70-130*	*05/31/23*	*06/01/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322049
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/02/23	
Surrogate: n-Nonane		*105 %*	*50-200*	*06/02/23*	*06/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2322057
Chloride	ND	20.0	1	06/02/23	06/02/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit #001 06	
PO Box 247	Project Number:	21064-0001	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/5/2023 3:33:58PM

CS2

E305191-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2322035
Benzene	ND	0.0250	1	05/31/23	05/31/23	
Ethylbenzene	ND	0.0250	1	05/31/23	05/31/23	
Toluene	ND	0.0250	1	05/31/23	05/31/23	
o-Xylene	ND	0.0250	1	05/31/23	05/31/23	
p,m-Xylene	ND	0.0500	1	05/31/23	05/31/23	
Total Xylenes	ND	0.0250	1	05/31/23	05/31/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.9 %*	*70-130*	*05/31/23*	*05/31/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2322035
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/31/23	05/31/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.0 %*	*70-130*	*05/31/23*	*05/31/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322049
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/02/23	
Surrogate: n-Nonane		*99.5 %*	*50-200*	*06/02/23*	*06/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2322057
Chloride	ND	20.0	1	06/02/23	06/02/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit #001 06	
PO Box 247	Project Number:	21064-0001	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/5/2023 3:33:58PM

CS3

E305191-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2322035
Benzene	ND	0.0250	1	05/31/23	06/01/23	
Ethylbenzene	ND	0.0250	1	05/31/23	06/01/23	
Toluene	ND	0.0250	1	05/31/23	06/01/23	
o-Xylene	ND	0.0250	1	05/31/23	06/01/23	
p,m-Xylene	ND	0.0500	1	05/31/23	06/01/23	
Total Xylenes	ND	0.0250	1	05/31/23	06/01/23	
Surrogate: 4-Bromochlorobenzene-PID		*97.0 %*	*70-130*	*05/31/23*	*06/01/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2322035
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/31/23	06/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.3 %*	*70-130*	*05/31/23*	*06/01/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322049
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/02/23	
Surrogate: n-Nonane		*102 %*	*50-200*	*06/02/23*	*06/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2322057
Chloride	ND	20.0	1	06/02/23	06/02/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit #001 06	
PO Box 247	Project Number:	21064-0001	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/5/2023 3:33:58PM

CS4

E305191-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2322035
Benzene	ND	0.0250	1	05/31/23	06/01/23	
Ethylbenzene	ND	0.0250	1	05/31/23	06/01/23	
Toluene	ND	0.0250	1	05/31/23	06/01/23	
o-Xylene	ND	0.0250	1	05/31/23	06/01/23	
p,m-Xylene	ND	0.0500	1	05/31/23	06/01/23	
Total Xylenes	ND	0.0250	1	05/31/23	06/01/23	
Surrogate: 4-Bromochlorobenzene-PID		*98.3 %*	*70-130*	*05/31/23*	*06/01/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2322035
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/31/23	06/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.6 %*	*70-130*	*05/31/23*	*06/01/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322049
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/02/23	
Surrogate: n-Nonane		*105 %*	*50-200*	*06/02/23*	*06/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2322057
Chloride	ND	20.0	1	06/02/23	06/02/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit #001 06	
PO Box 247	Project Number:	21064-0001	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/5/2023 3:33:58PM

CSW1

E305191-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2322035
Benzene	ND	0.0250	1	05/31/23	06/01/23	
Ethylbenzene	ND	0.0250	1	05/31/23	06/01/23	
Toluene	ND	0.0250	1	05/31/23	06/01/23	
o-Xylene	ND	0.0250	1	05/31/23	06/01/23	
p,m-Xylene	ND	0.0500	1	05/31/23	06/01/23	
Total Xylenes	ND	0.0250	1	05/31/23	06/01/23	
Surrogate: 4-Bromochlorobenzene-PID		*97.9 %*	*70-130*	*05/31/23*	*06/01/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2322035
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/31/23	06/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.4 %*	*70-130*	*05/31/23*	*06/01/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322049
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/02/23	
Surrogate: n-Nonane		*104 %*	*50-200*	*06/02/23*	*06/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2322057
Chloride	ND	20.0	1	06/02/23	06/02/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit #001 06	
PO Box 247	Project Number:	21064-0001	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/5/2023 3:33:58PM

CSW2

E305191-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2322035
Benzene	ND	0.0250	1	05/31/23	06/01/23	
Ethylbenzene	ND	0.0250	1	05/31/23	06/01/23	
Toluene	ND	0.0250	1	05/31/23	06/01/23	
o-Xylene	ND	0.0250	1	05/31/23	06/01/23	
p,m-Xylene	ND	0.0500	1	05/31/23	06/01/23	
Total Xylenes	ND	0.0250	1	05/31/23	06/01/23	
Surrogate: 4-Bromochlorobenzene-PID		*97.2 %*	*70-130*	*05/31/23*	*06/01/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2322035
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/31/23	06/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.3 %*	*70-130*	*05/31/23*	*06/01/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322049
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/02/23	
Surrogate: n-Nonane		*107 %*	*50-200*	*06/02/23*	*06/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2322057
Chloride	ND	20.0	1	06/02/23	06/02/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit #001 06	
PO Box 247	Project Number:	21064-0001	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/5/2023 3:33:58PM

CSW3

E305191-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2322035
Benzene	ND	0.0250	1	05/31/23	06/01/23	
Ethylbenzene	ND	0.0250	1	05/31/23	06/01/23	
Toluene	ND	0.0250	1	05/31/23	06/01/23	
o-Xylene	ND	0.0250	1	05/31/23	06/01/23	
p,m-Xylene	ND	0.0500	1	05/31/23	06/01/23	
Total Xylenes	ND	0.0250	1	05/31/23	06/01/23	
Surrogate: 4-Bromochlorobenzene-PID		*97.7 %*	*70-130*	*05/31/23*	*06/01/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2322035
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/31/23	06/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.4 %*	*70-130*	*05/31/23*	*06/01/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322049
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/02/23	
Surrogate: n-Nonane		*105 %*	*50-200*	*06/02/23*	*06/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2322057
Chloride	ND	20.0	1	06/02/23	06/02/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit #001 06	
PO Box 247	Project Number:	21064-0001	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/5/2023 3:33:58PM

CSW4

E305191-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2322035
Benzene	ND	0.0250	1	05/31/23	06/01/23	
Ethylbenzene	ND	0.0250	1	05/31/23	06/01/23	
Toluene	ND	0.0250	1	05/31/23	06/01/23	
o-Xylene	ND	0.0250	1	05/31/23	06/01/23	
p,m-Xylene	ND	0.0500	1	05/31/23	06/01/23	
Total Xylenes	ND	0.0250	1	05/31/23	06/01/23	
Surrogate: 4-Bromochlorobenzene-PID		*97.1 %*	*70-130*	*05/31/23*	*06/01/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2322035
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/31/23	06/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.0 %*	*70-130*	*05/31/23*	*06/01/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322049
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/03/23	
Surrogate: n-Nonane		*108 %*	*50-200*	*06/02/23*	*06/03/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2322057
Chloride	ND	20.0	1	06/02/23	06/02/23	

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit #001 06	**Reported:**
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/5/2023 3:33:58PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2322035-BLK1)									Prepared: 05/31/23 Analyzed: 05/31/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.69*		*8.00*		*96.1*	*70-130*			
LCS (2322035-BS1)									Prepared: 05/31/23 Analyzed: 05/31/23
Benzene	4.99	0.0250	5.00		99.9	70-130			
Ethylbenzene	4.95	0.0250	5.00		99.0	70-130			
Toluene	5.09	0.0250	5.00		102	70-130			
o-Xylene	5.08	0.0250	5.00		102	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.64*		*8.00*		*95.5*	*70-130*			
Matrix Spike (2322035-MS1)				**Source: E305191-02**					Prepared: 05/31/23 Analyzed: 06/01/23
Benzene	4.91	0.0250	5.00	ND	98.2	54-133			
Ethylbenzene	4.86	0.0250	5.00	ND	97.3	61-133			
Toluene	5.01	0.0250	5.00	ND	100	61-130			
o-Xylene	4.98	0.0250	5.00	ND	99.7	63-131			
p,m-Xylene	9.88	0.0500	10.0	ND	98.8	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.78*		*8.00*		*97.3*	*70-130*			
Matrix Spike Dup (2322035-MSD1)				**Source: E305191-02**					Prepared: 05/31/23 Analyzed: 06/01/23
Benzene	5.10	0.0250	5.00	ND	102	54-133	3.78	20	
Ethylbenzene	5.09	0.0250	5.00	ND	102	61-133	4.50	20	
Toluene	5.22	0.0250	5.00	ND	104	61-130	4.05	20	
o-Xylene	5.22	0.0250	5.00	ND	104	63-131	4.70	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	4.54	20	
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131	4.59	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.76*		*8.00*		*97.0*	*70-130*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit #001 06	**Reported:**
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/5/2023 3:33:58PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2322035-BLK1)									Prepared: 05/31/23 Analyzed: 05/31/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.49*		*8.00*		*93.6*	*70-130*			
LCS (2322035-BS2)									Prepared: 05/31/23 Analyzed: 05/31/23
Gasoline Range Organics (C6-C10)	47.4	20.0	50.0		94.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.62*		*8.00*		*95.2*	*70-130*			
Matrix Spike (2322035-MS2)				**Source: E305191-02**					Prepared: 05/31/23 Analyzed: 06/01/23
Gasoline Range Organics (C6-C10)	43.7	20.0	50.0	ND	87.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.38*		*8.00*		*92.2*	*70-130*			
Matrix Spike Dup (2322035-MSD2)				**Source: E305191-02**					Prepared: 05/31/23 Analyzed: 06/01/23
Gasoline Range Organics (C6-C10)	47.0	20.0	50.0	ND	94.0	70-130	7.29	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.66*		*8.00*		*95.7*	*70-130*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit #001 06	**Reported:**
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/5/2023 3:33:58PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2322049-BLK1)									Prepared: 06/02/23 Analyzed: 06/02/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*50.5*		*50.0*		*101*	*50-200*			
LCS (2322049-BS1)									Prepared: 06/02/23 Analyzed: 06/02/23
Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Surrogate: n-Nonane	*51.2*		*50.0*		*102*	*50-200*			
Matrix Spike (2322049-MS1)				**Source: E305182-08**					Prepared: 06/02/23 Analyzed: 06/02/23
Diesel Range Organics (C10-C28)	702	50.0	250	542	63.9	38-132			
Surrogate: n-Nonane	*49.1*		*50.0*		*98.2*	*50-200*			
Matrix Spike Dup (2322049-MSD1)				**Source: E305182-08**					Prepared: 06/02/23 Analyzed: 06/02/23
Diesel Range Organics (C10-C28)	684	50.0	250	542	56.6	38-132	2.66	20	
Surrogate: n-Nonane	*52.5*		*50.0*		*105*	*50-200*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit #001 06	**Reported:**
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/5/2023 3:33:58PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2322057-BLK1)									Prepared: 06/02/23 Analyzed: 06/02/23
Chloride	ND	20.0							
LCS (2322057-BS1)									Prepared: 06/02/23 Analyzed: 06/02/23
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2322057-MS1)				**Source: E306008-01**					Prepared: 06/02/23 Analyzed: 06/02/23
Chloride	351	200	250	ND	140	80-120			M6
Matrix Spike Dup (2322057-MSD1)				**Source: E306008-01**					Prepared: 06/02/23 Analyzed: 06/02/23
Chloride	365	200	250	ND	146	80-120	3.90	20	M6

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Vacuum Glorieta East Unit #001 06	
PO Box 247	Project Number:	21064-0001	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	06/05/23 15:33

M6	Matrix spike recovery has a high bias. The native sample results were below the RL, but appears to have contributed to high MS recoveries.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information | Chain of Custody | Page 1 of 1

Client: Pima Environmental Services
Project: Vacuum Glorieta East Unit #001 06
Project Manager: Tom Bynum
Address: 5614 N. Lovington Hwy.
City, State, Zip Hobbs, NM. 88240
Phone: 580-748-1613
Email: tom@pimaoil.com
Report due by:

Bill To
Attention: Maverick
Address:
City, State, Zip
Phone:
Email:
Pima Project # 24-6

Lab Use Only
Lab WO# E305191 Job Number 21014-0001

TAT: 1D | 2D | 3D | Standard (X)

EPA Program: CWA | SDWA | RCRA

State: NM (X) | CO | UT | AZ | TX

Analysis and Method

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
10:00	5/24/23	S	1	CS1	1							X		
10:05				CS2	2									
10:10				CS3	3									
10:15				CS4	4									
10:20				CSW1	5									
10:25				CSW2	6									
10:30				CSW3	7									
10:35 AM				CSW4	8									

Additional Instructions: Bill Pima

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Karime Adame	5/30	1305		5.30.23	1305
	5.30.23	1615	Andrew Mcsso	5.30.23	1730
Andrew Mcsso	5.30.23	2215	Cath Mar	5/31/23	6:25

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 5/31/2023 4:00:27PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Pima Environmental Services-Carlsbad	Date Received:	05/31/23 06:25	Work Order ID:	E305191
Phone:	(575) 631-6977	Date Logged In:	05/30/23 16:58	Logged In By:	Caitlin Mars
Email:	tom@pimaoil.com	Due Date:	06/06/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	Yes	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 237276

CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 237276
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Accepted for the record. Below the allowable quantity per 19.15.29.7B NMAC. Incident cancelled - 10/02/2023.	10/2/2023