ATTN: New Mexico State Land Office
Environmental Compliance Office
1300 West Broadway Avenue, Suite A
Bloomfield, New Mexico 87413

Subject: **Remediation Work Plan**
Maverick Permian, LLC
EVGSAU Injection Header #4 API #30-025-26679
NMOCD Incident ID NPAC0726037121
Unit Letter C, Section 33, Township 17 South, Range 35 East Lea County, New Mexico
Lat/Long: 32.797242° latitude, -103.465452° longitude; 250 FNL 150 FEL

Sapec-Eco, LLC (Sapec) was contracted by Maverick Permian, LLC (Maverick) to prepare this Remediation Work Plan for a produced water release that occurred at the flowline of the EVGSAU Injection Header #4 located in Unit Letter C, Section 33, Township 17 South, Range 35 East, at 32.797242° latitude, -103.465452° longitude (Site). The Site lies approximately 2.57 miles northwest of a residence. A Location Map can be referenced in Figure 5.

NPAC0726037121 – An initial Form C-141 was submitted to the NMOCD on August 8, 2007, citing: "Release of 174 BPW on injection line. Leak was isolated by shutting in header. Area affected was 80 feet X 200 feet. Vacuum truck was called out and 40 BPW was picked up." This form was approved by the NMOCD on September 14, 2007. This release was also included in an Agreed Compliance Order between the NMOCD and ConocoPhillips on May 9, 2019, related to unresolved releases pursuant to 19.15.29.16 (9) NMAC, respectively.

SITE CLASSIFICATION

Depth to Groundwater

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and the United States Geological Survey (USGS) was conducted to identify any known water sources in proximity to the site. The wells that are located within ½-mile of the Site are listed below. The information from these wells is more than 25 years old, therefore, for the purposes of this site assessment, the depth to groundwater is conservatively assumed to be less than 50 feet below ground surface (BGS). Water-Related Characterization Documents can be referenced in Appendix A.

Water Well Locations

NMOSE L-04829-S5	0.35 miles from Site	Water Level = 90' BGS (1979)
USGS 324720103280101 17S.35E.33.13321	0.39 miles from Site	Water Level = 61' BGS (1981)
USGS 324746103272801 17S.35E.33.2241413	0.42 miles from Site	Water Level = 57' BGS (1980)

Wetlands

Readily available data sources were reviewed to evaluate whether the Site is designated as a wetland or has the potential to contain wetlands. The U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) Wetlands Mapper was consulted to identify any mapped wetlands in proximity to the Site. Based on this review, a Freshwater Pond was identified to be encompassing more than half of the Site. The nearest surface water feature is an Unnamed Pond located approximately 2.4 miles from the Site. A Wetlands Map is included in Appendix A.

FEMA

According to the National Flood Hazard Layer FIRMette provided by FEMA, the Site lies within Zone D – Area of Undetermined Flood Hazard and is greater than 5 miles away from a recorded flood zone. A FEMA flood map is included in Appendix A.

Soils

According to the USGS Geologic Survey, the geology at the Site is in the Ogallala Formation. Alluvial and eolian deposits, and petrocalcic soils of the southern High Plains. Locally includes Qoa. The U.S. Department of Agriculture (USDA) Natural Resources Conservation Services (NRCS) Web Soil Survey mapper was queried to determine the soil type at the Site. This area is mapped with 100% Kimbrough-Lea complex, dry, 0 to 3 percent slopes. The typical profiles are gravelly

loam and loam. The drainage course for this soil type is well drained. The Site lies within a low karst potential zone (Figure 4) and is greater than 5 miles away from the nearest medium karst zone. The Soil-Related Characterization Documents can be found in Appendix B. Included for reference as Figure 3 is a Topographic Map.

Biologically Sensitive Areas

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

Cultural Properties Protection

The area of concern at the Site is in previously undisturbed areas developed for oil and gas extraction. A Cultural Resource Survey is planning to be conducted before field work begins. The Cultural Resource Survey Cover Sheet will be added as an addendum once the survey is complete.

PREVIOUSLY SUBMITTED REMEDIATION WORK PLAN

On September 2, 2021, a remediation work plan was submitted to the NMOCD Portal for review. This plan addressed the entire area except for the lease road. The NMOCD denied this work plan on March 17, 2023, based on the lack of remediation of the lease road. This plan is included for reference as Appendix C of this report.

REMEDIATION WORK PLAN

Maverick would like to propose the following remediation activities for this Site:

- The area of concern, including the lease road, measures approximately 14,630 square feet and is entirely in the pasture adjacent to above-ground poly flowlines.
- Remediate the area in its entirety according to the previously submitted plan (Appendix C), to include the lease road area, by mechanical excavation means.
- Collect 5-point composite confirmation samples from the base and walls of the excavation that represent no more than 200 square feet each. Total number of samples will be determined once the excavation is complete and calculations can be accurately made.
- All samples will be put on ice, prepared for delivery, then delivered to an approved laboratory for official analysis of all constituents listed in Table 1 19.15.29.12 NMAC.
- Upon receipt of laboratory analytical results confirming contaminant levels are under the closure criteria for the less than 50-foot depth to groundwater section of Table 1 19.15.29.12 NMAC, the site will then be backfilled, contoured, and reseeded with the NMSLO-Approved seed mixture for Loamy (L) sites. A closure report detailing remediation activities will be drafted and submitted to the NMOCD Pay Portal and NMSLO ECO for review/approval.

Closure criteria for this Site requires contamination levels to be less than the following for the soil in the pasture:

TPH (GRO+DRO+ORO) – 100 mg/kg Chlorides – 600 mg/kg Benzene – 10 mg/kg
BTEX – 50 mg/kg

An Excavation Map can be found in Figure 1.

SCHEDULE

Upon approval of this Remediation Work Plan, Maverick will complete the remediation activities described above on the Site within 90 days, assuming no unforeseen impacts are identified during assessment activities. Upon completion of these activities, and receipt of the analytical results, a remediation closure report will be drafted for the Site and submitted to the NMOCD and the NMSLO ECO, anticipated to be submitted within 120 days of remediation work plan approval.

If you require additional information or have any questions or comments, please contact:
Maverick Permian, LLC – Bryce Wagoner @ (928) 241-1862 or bwagoner@dgoc.com
Sapec-Eco, LLC – Tom Bynum @ (580) 748-1613 or tom@pimaoil.com

ATTACHMENTS

Figures

Figure 1 – Excavation Map
Figure 2 – Special Status Plant/Wildlife Map
Figure 3 – Topographic Map
Figure 4 – Karst Map
Figure 5 – Location Map

Appendices

Appendix A – Water-Related Characterization Documents
Appendix B – Soil-Related Characterization Documents
Appendix C – Previously Submitted Work Plan

FIGURES

Excavation Map

Special Status Plant/Wildlife Map

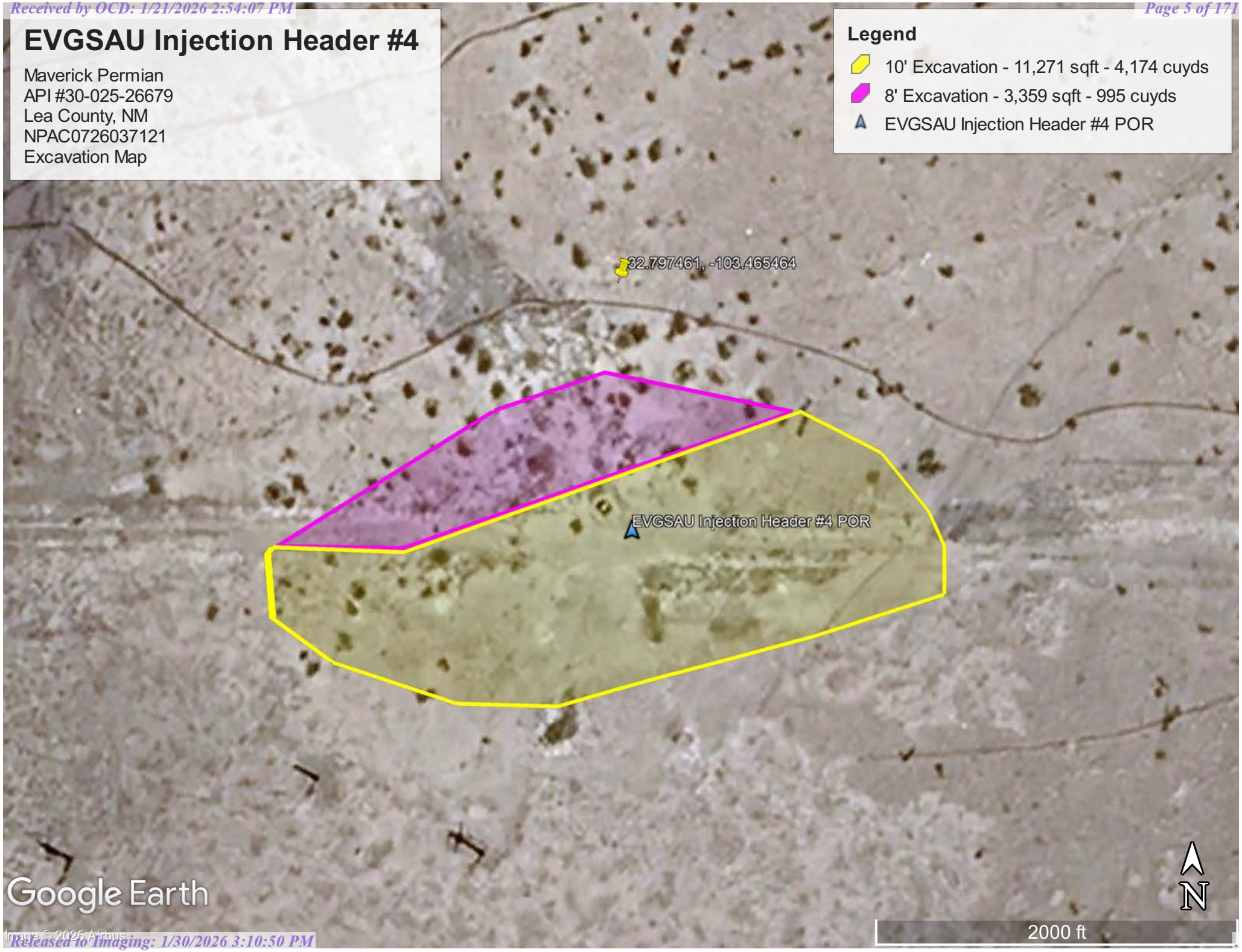
Topographic Map

Karst Map

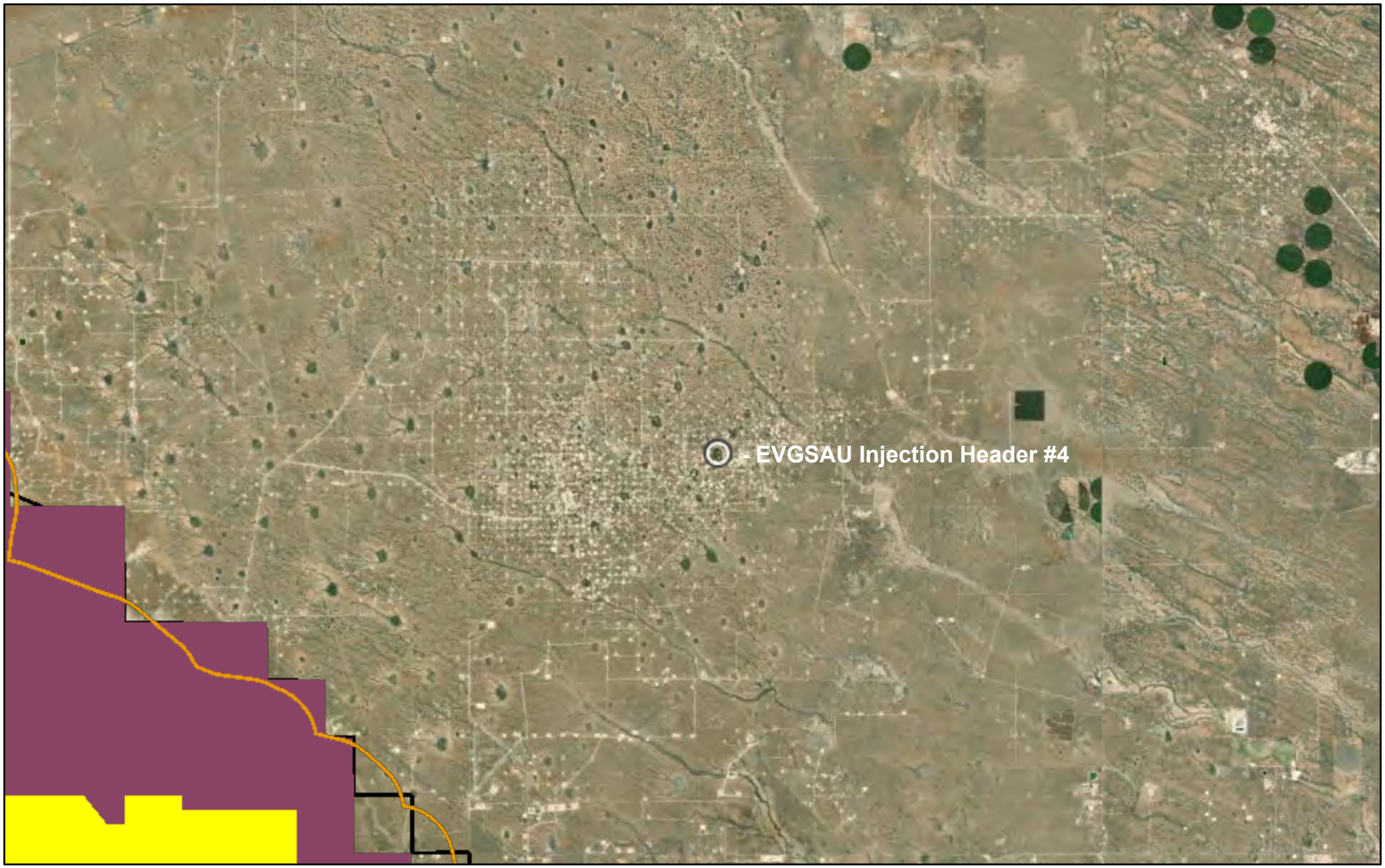
Location Map

EVGSAU Injection Header #4

Maverick Permian
API #30-025-26679
Lea County, NM
NPAC0726037121
Excavation Map



Special Status Plant/Wildlife Map



12/9/2025

1:179,838

0 1.25 2.5 5 mi

0 2 4 8 km

Earthstar Geographics, Bureau of Land Management - New Mexico State Office

Dunes Sage Brush Lizard Habitat

Lesser Prairie Chicken Habitat

Habitat Evaluation Area

Isolated Population Area

Lesser Prairie Chicken TR

World Imagery

Low Resolution 15m Imagery

High Resolution 60cm Imagery

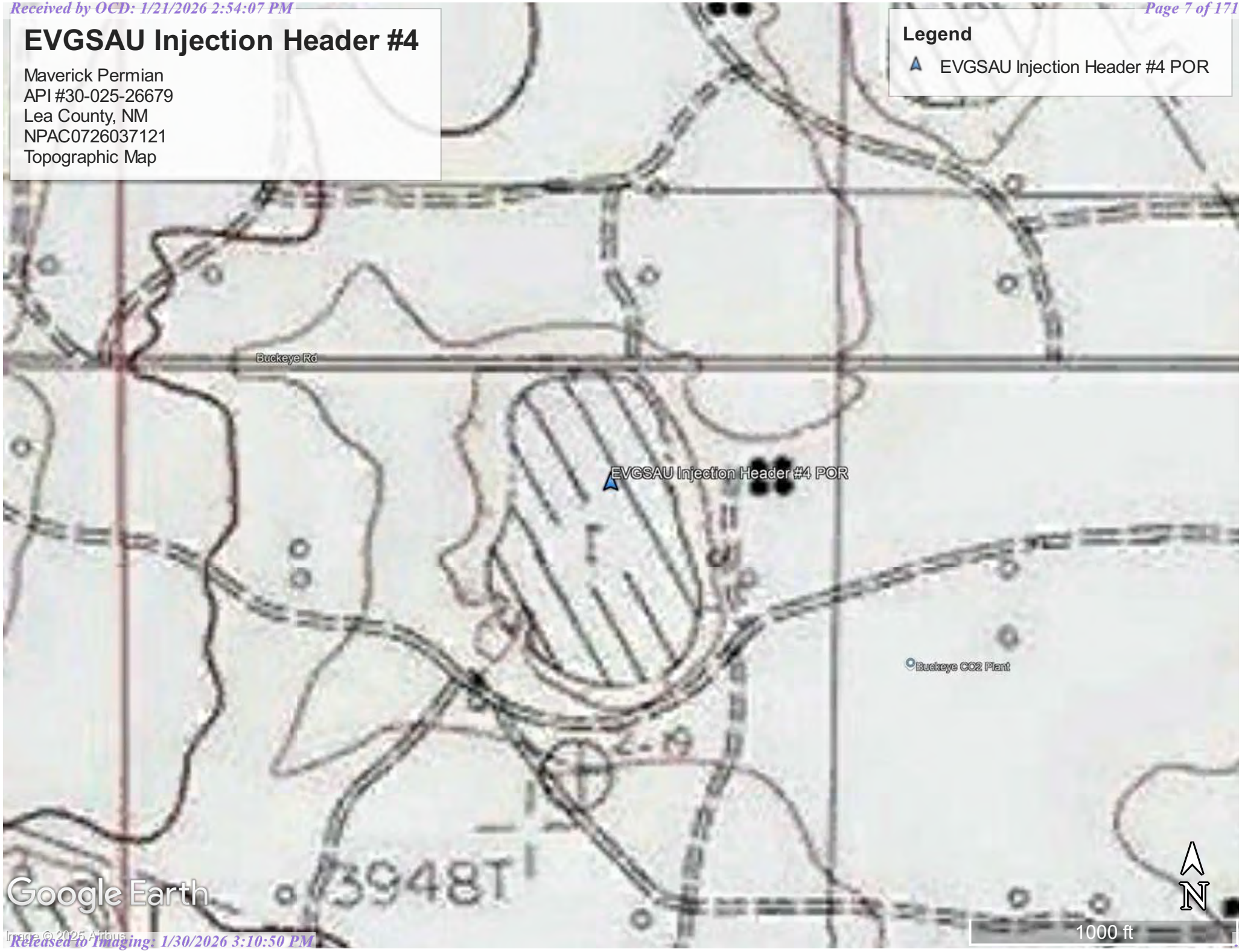
High Resolution 30cm Imagery

Citations

38m Resolution Metadata

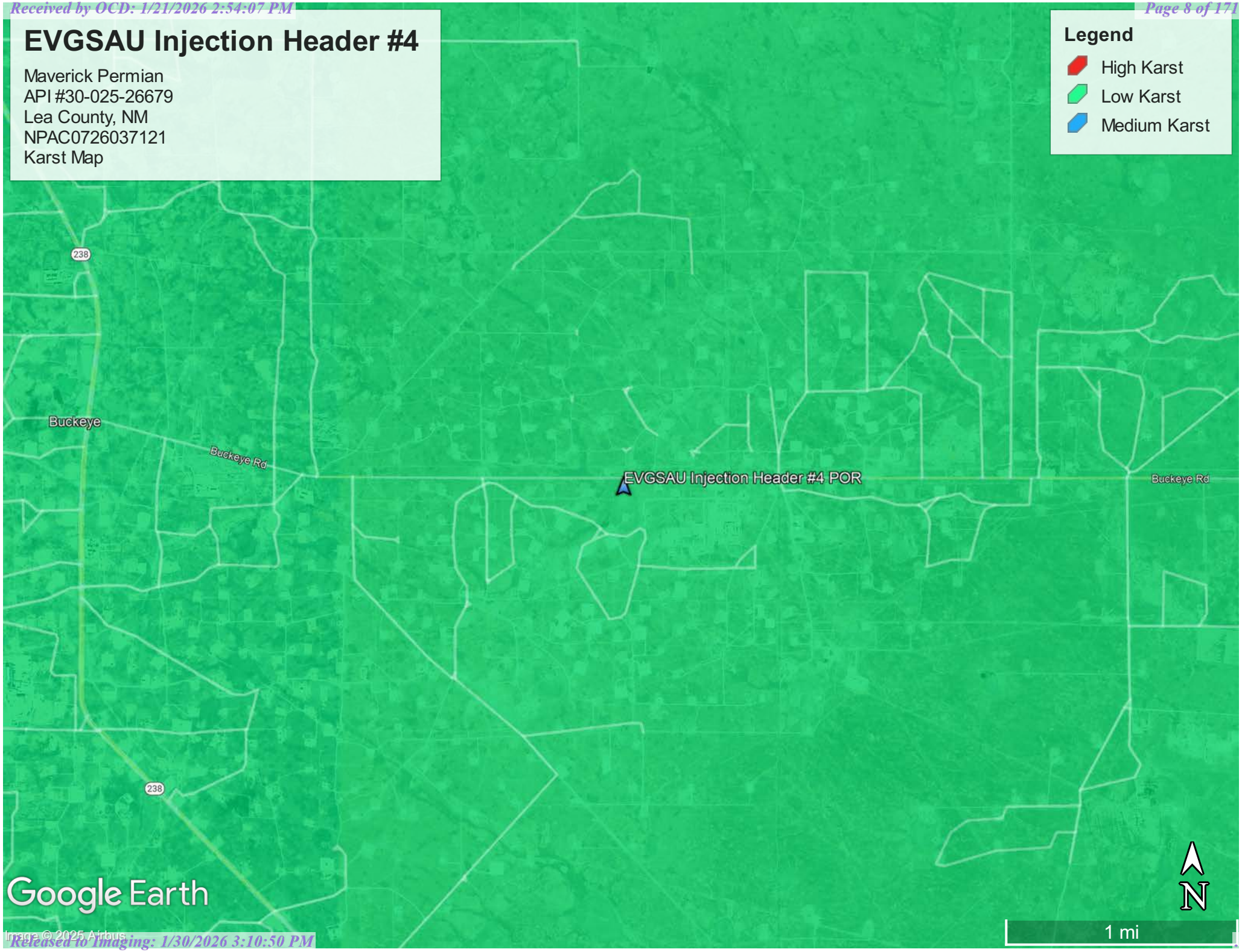
EVGSAU Injection Header #4

Maverick Permian
API #30-025-26679
Lea County, NM
NPAC0726037121
Topographic Map



EVGSAU Injection Header #4

Maverick Permian
API #30-025-26679
Lea County, NM
NPAC0726037121
Karst Map



EVGSAU Injection Header #4

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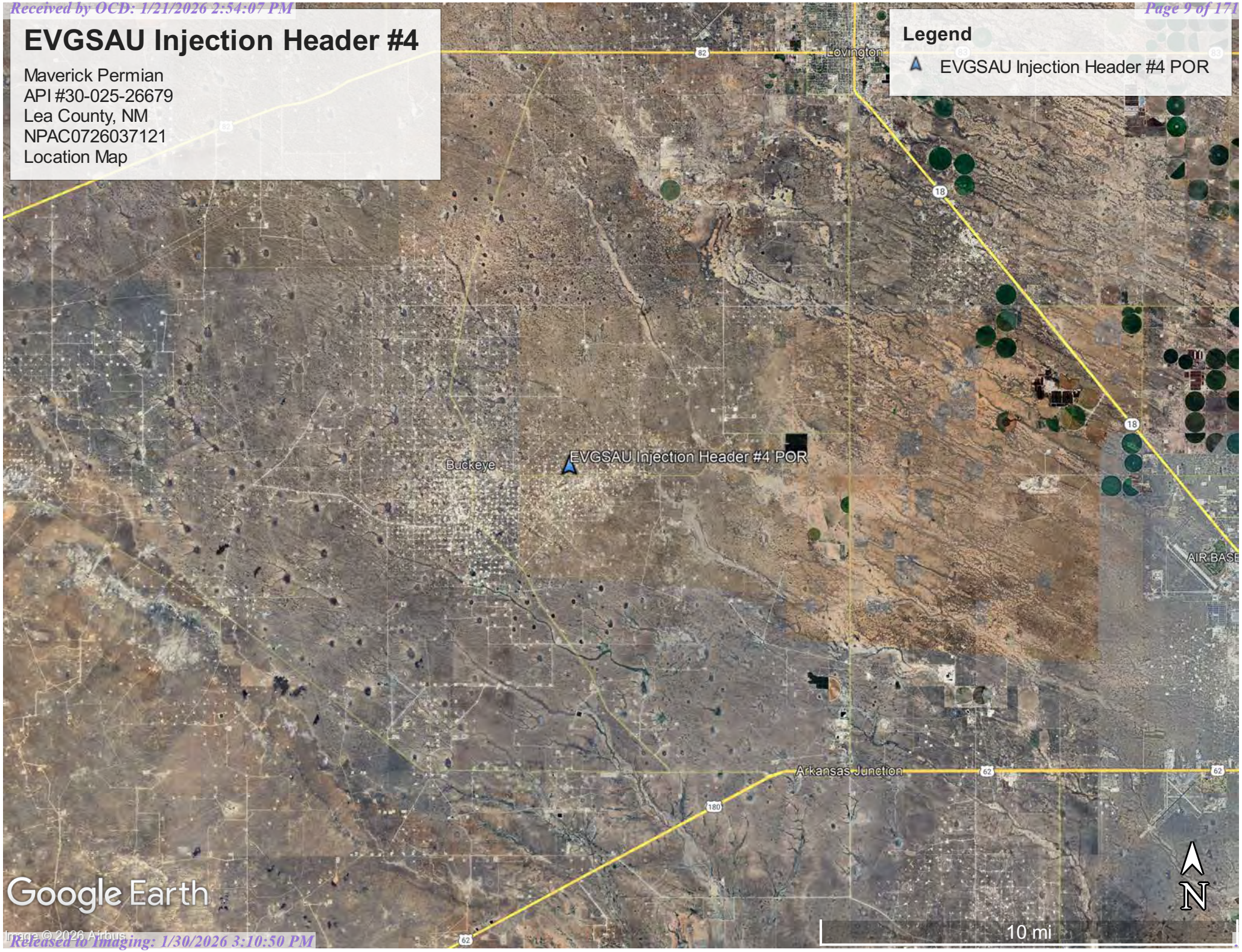
API #30-025-26679
Lea County, NM
NPAC0726037121
Location Map



APPENDIX A

Water-Related Characterization Documents

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
L 04829 S5		L	LE		SW	NW	33	17S	35E	643347.0	3629400.0 *		564	220	90	130
L 04578		L	LE				33	17S	35E	643962.0	3629198.0 *		709	126	60	66
L 05362		L	LE	SW	SE	SE	28	17S	35E	644444.0	3630117.0 *		803	140	80	60
L 04880		L	LE		NE	SW	33	17S	35E	643757.0	3629002.0 *		852	145	90	55
L 04633		L	LE		NE	SE	33	17S	35E	644564.0	3629010.0 *		1215	130	65	65
L 05834	R	L	LE	NE	NE	SE	33	17S	35E	644663.0	3629109.0 *		1226	160	70	90
L 10297		L	LE		NW	NW	34	17S	35E	644955.0	3629819.0 *		1269	150	42	108
L 04829 S3		L	LE	NW	SW	NW	28	17S	35E	643222.0	3631111.0 *		1342	215	70	145
L 05834 POD5		L	LE	NE	NE	SE	33	17S	35E	644751.9	3629029.3		1346	234	65	169
L 04586		L	LE	SW	SW	SE	33	17S	35E	644065.0	3628502.0 *		1401	125	50	75

Average Depth to Water: **68 feet**

Minimum Depth: **42 feet**

Maximum Depth: **90 feet**

Record Count: 10

Basin/County Search:
County: LE

UTM Filters (in meters):
Easting: 643686.08
Northing: 3629851.35
Radius: 01500

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

Point of Diversion Summary

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

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	L 04829 S5		SW	NW	33	17S	35E	643347.0	3629400.0 *	🌎

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

Driller License:	46	**Driller Company:**	ABBOTT BROTHERS COMPANY		
Driller Name:	ABBOTT, MURRELL				
Drill Start Date:	1979-04-30	**Drill Finish Date:**	1979-05-04	**Plug Date:**	
Log File Date:	1979-05-25	**PCW Rcv Date:**	1981-07-01	**Source:**	Shallow
Pump Type:	TURBIN	**Pipe Discharge Size:**	6	**Estimated Yield:**	
Casing Size:	12.75	**Depth Well:**	220	**Depth Water:**	90

Water Bearing Stratifications:

Top	Bottom	Description
90	220	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
100	220

Meter Information

Meter Number:	8631	**Meter Make:**	BROOKS
Meter Serial Number:	928003631	**Meter Multiplier:**	10.0000
Number of Dials:	6	**Meter Type:**	Diversion
Unit of Measure:	Barrels 42 gal.	**Reading Frequency:**	Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2005-01-01	2005	0.000	A	jw		0.000	

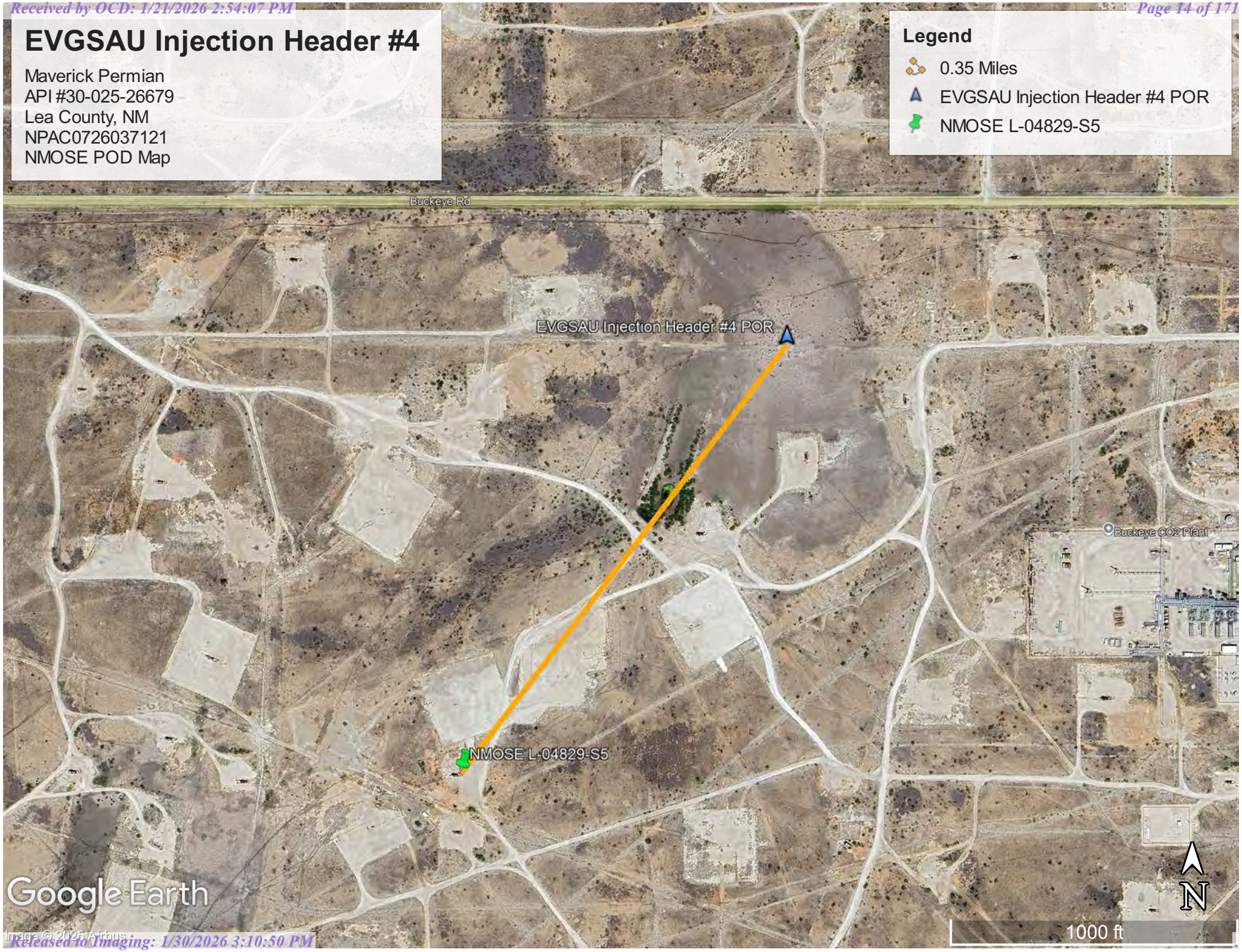
Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2005-03-31	2005	82218.000	A	jw		10.597	
2005-08-08	2005	103733.000	A	jw		27.731	
2005-09-30	2005	129641.000	A	RPT		33.394	
2005-12-31	2005	118343.000	R	RPT	Meter Rollover	1274.370	
2006-03-31	2006	94754.000	R	RPT	Meter Rollover	1258.528	

YTD Meter Amounts:

Year	Amount
2005	1346.092
2006	1258.528

EVGSAU Injection Header #4

Maverick Permian
API #30-025-26679
Lea County, NM
NPAC0726037121
NMOSE POD Map



National Water Information System: Web Interface

USGS Water Resources

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

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Ground water level pages will be decommissioned in early 2026. These gwlevel pages are frozen as of November 18th, 2025. Please find the modernized pages in WDFN that suit you best. Learn more about our modernization plans and timeline and new pages.

Search Results -- 1 sites found

site_no list =

- 324720103280101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

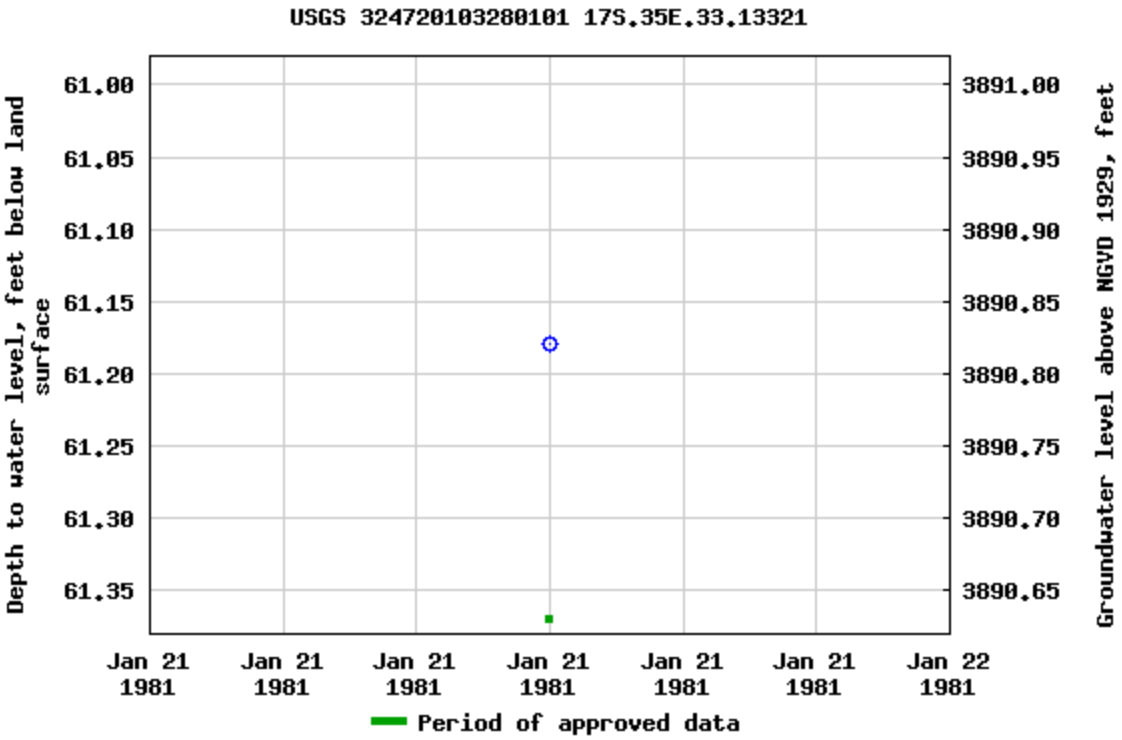
USGS 324720103280101 17S.35E.33.13321

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

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

Output formats

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



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

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

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

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2025-12-09 14:54:53 EST
0.75 0.6 nadww01

National Water Information System: Web Interface

USGS Water Resources

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

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Groundwater levels for the Nation

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Search Results -- 1 sites found

site_no list =

- 324746103272801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

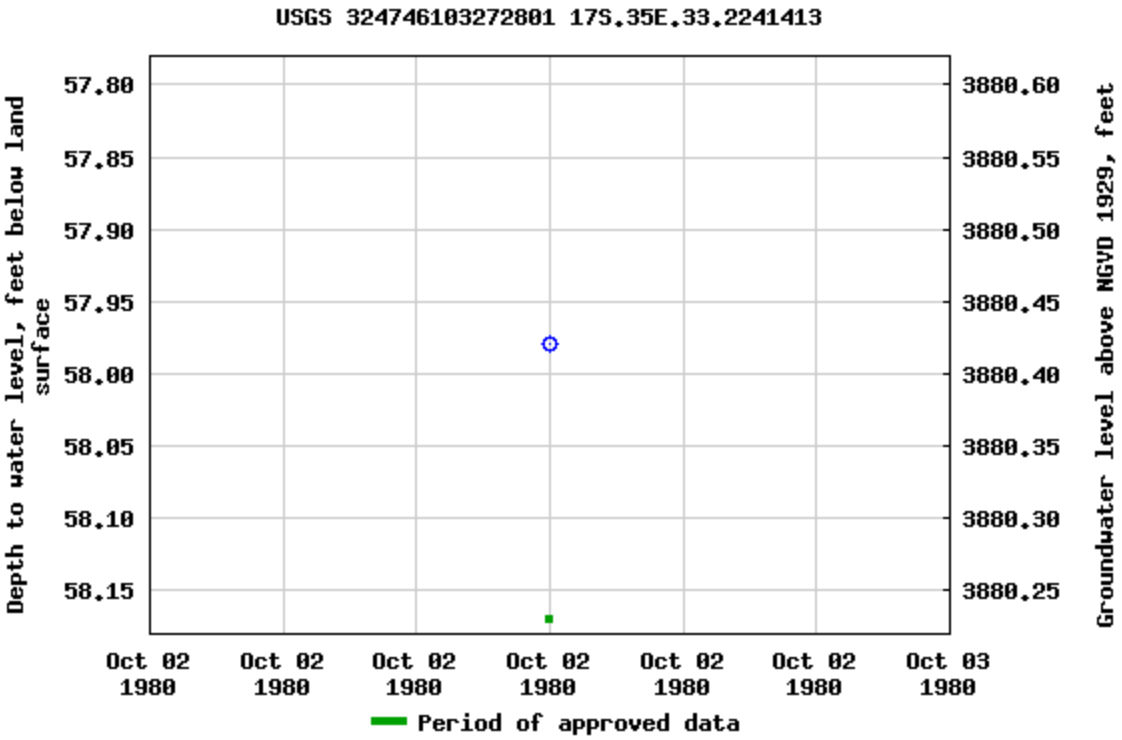
USGS 324746103272801 17S.35E.33.2241413

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

Lea County, New Mexico
Hydrologic Unit Code 12080003
Latitude 32°47'46", Longitude 103°27'28" NAD27
Land-surface elevation 3,938.4 feet above NGVD29
The depth of the well is 224 feet below land surface.
The depth of the hole is 224 feet below land surface.
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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



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

Questions or Comments
Help
Data Tips
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Subscribe for system changes

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URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2025-12-09 14:55:17 EST
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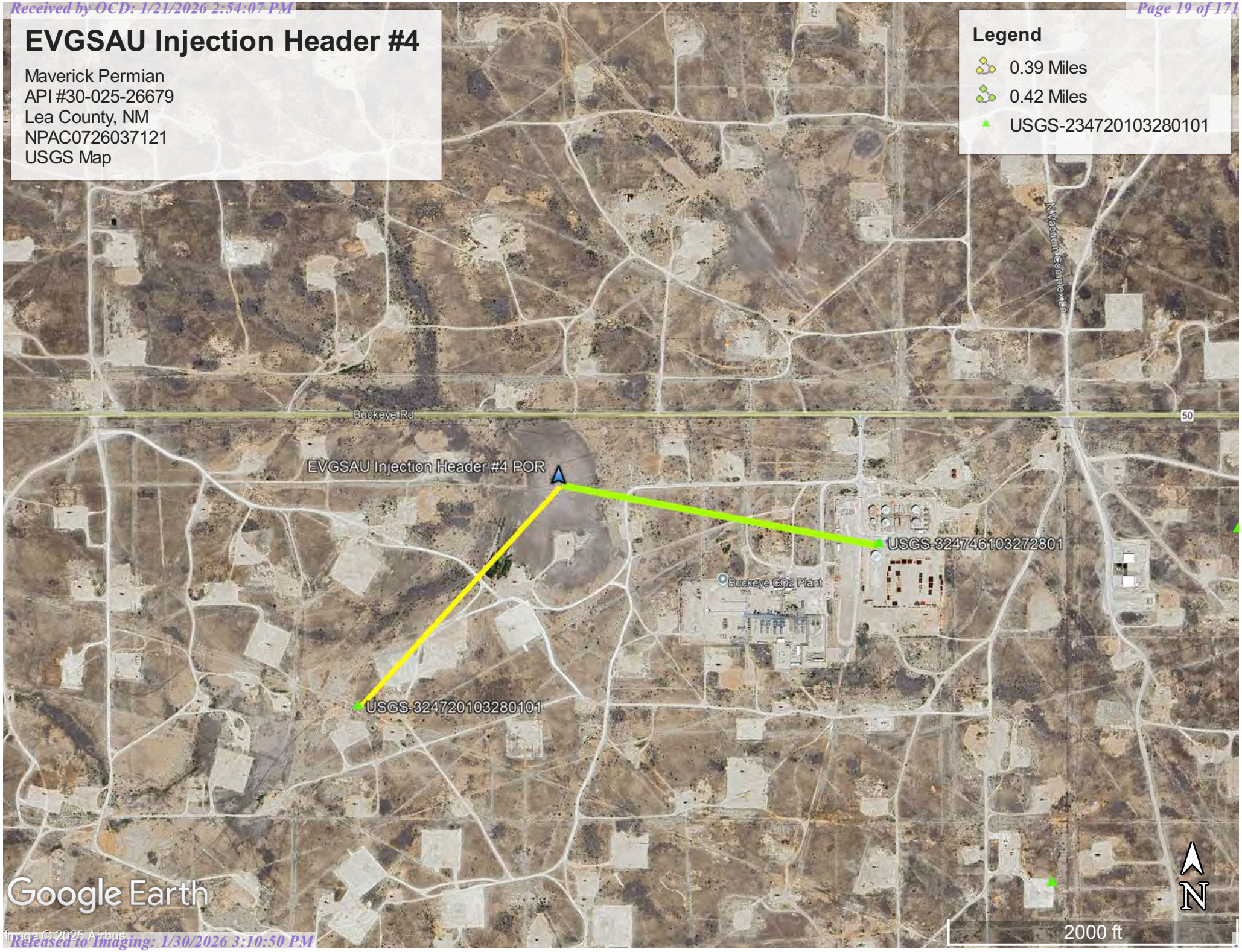
EVGSAU Injection Header #4

Maverick Permian
API #30-025-26679
Lea County, NM
NPAC0726037121
USGS Map



National Flood Hazard Layer FIRMette

FEMA

103°28'14"W 32°48'5"N

103°27'37"W 32°47'35"N

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

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

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

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

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

N

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/9/2025 at 7:56 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.

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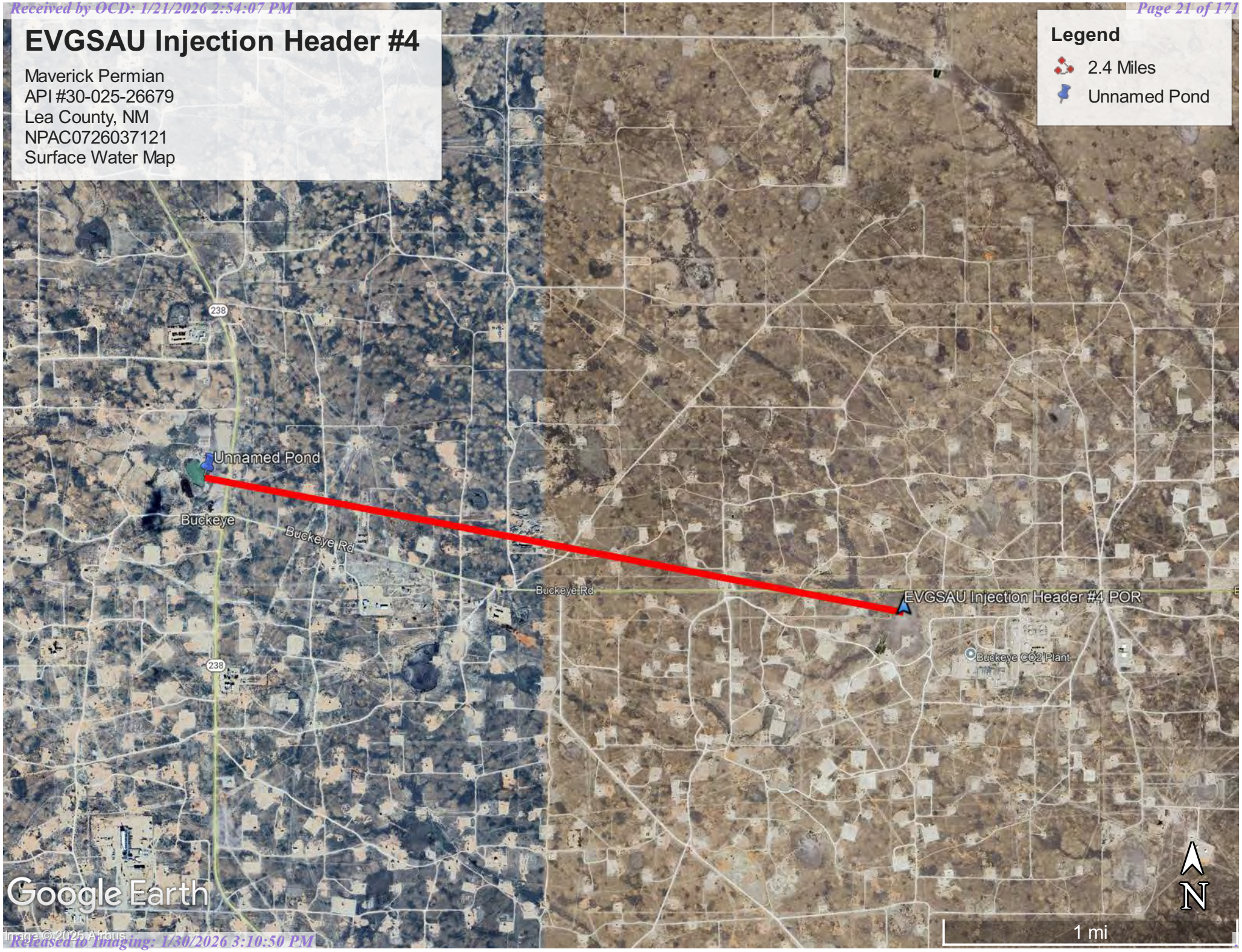
API #30-025-26679
Lea County, NM
NPAC0726037121
Surface Water Map

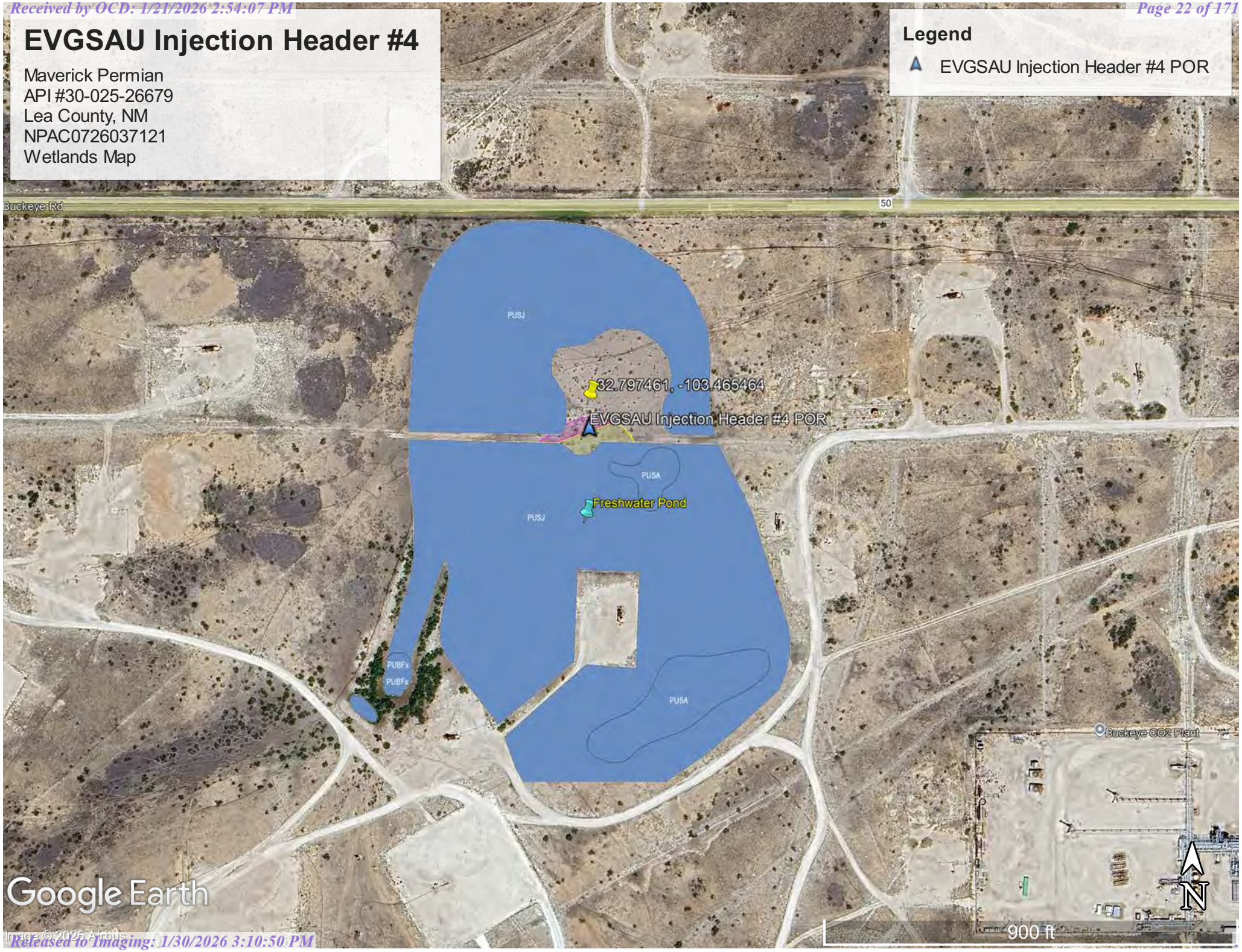


EVGSAU Injection Header #4

Maverick Permian
API #30-025-26679
Lea County, NM
NPAC0726037121
Wetlands Map

Legend

EVGSAU Injection Header #4 POR



APPENDIX B

Soil-Related Characterization Documents

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: Plains, playa rims
Down-slope shape: Linear, convex
Across-slope shape: Linear, concave
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

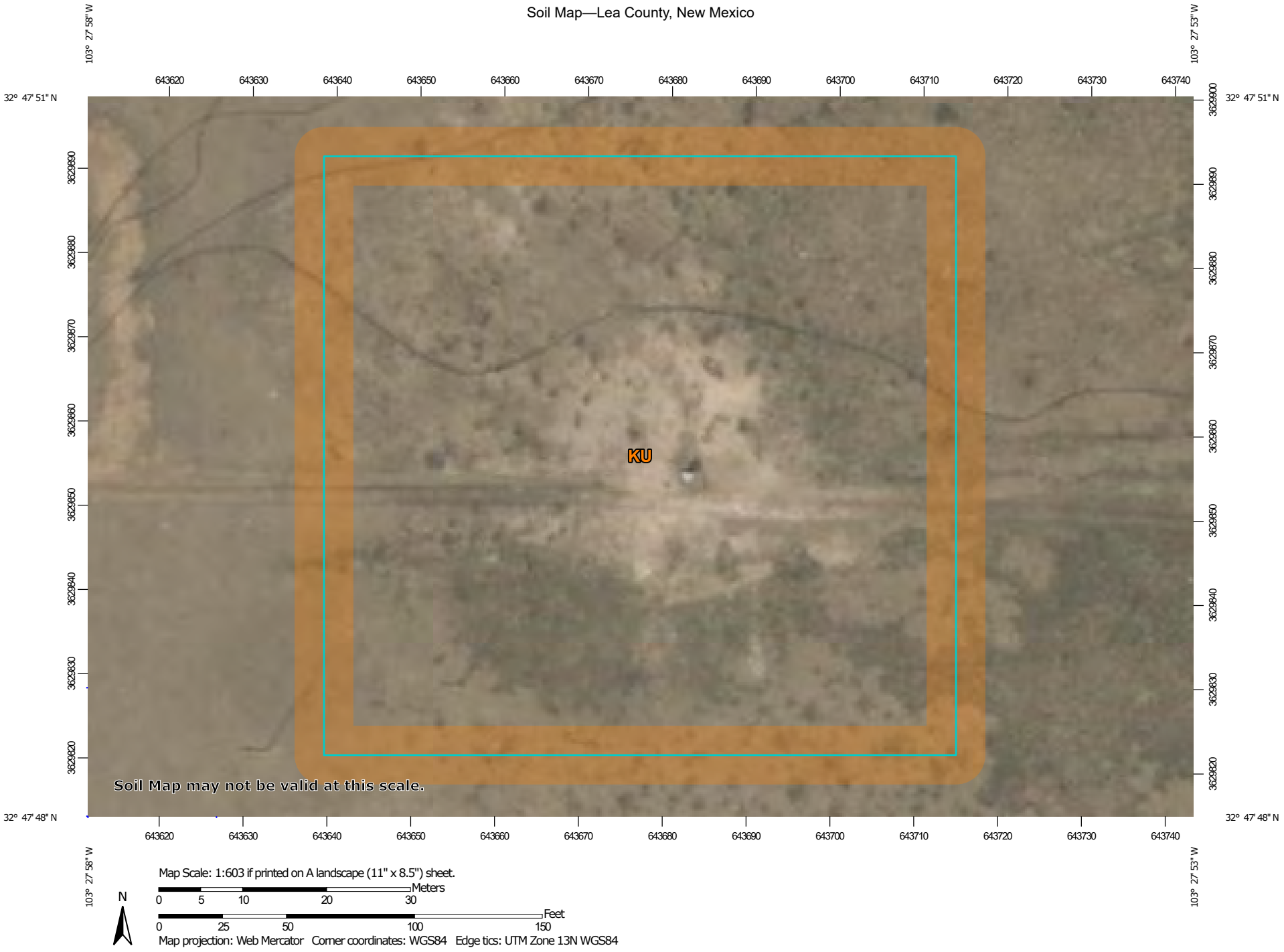
Spraberry

Percent of map unit: 6 percent
Landform: Plains, playa rims
Down-slope shape: Linear, convex
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 22, Sep 9, 2025

Soil Map—Lea County, New Mexico



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

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

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

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

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

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

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

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

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

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

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

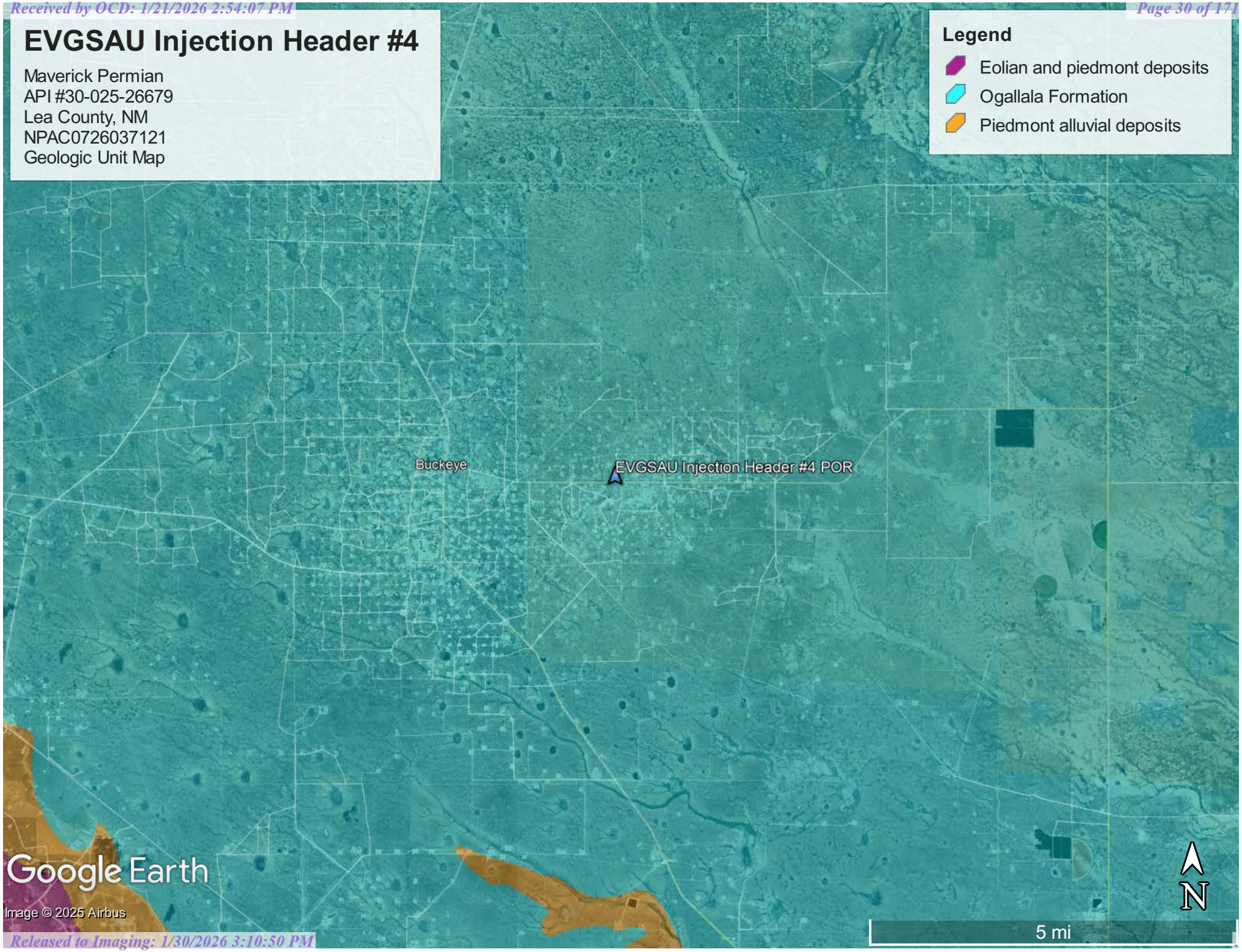
The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	1.3	100.0%
Totals for Area of Interest		**1.3**	**100.0%**

EVGSAU Injection Header #4

Maverick Permian
API #30-025-26679
Lea County, NM
NPAC0726037121
Geologic Unit Map



APPENDIX C

Previously Submitted Work Plan

Sam Widmer
ConocoPhillips
SP2
925 North Eldridge Parkway
Houston, TX 77079
+1-281-206-5298

September 1, 2021

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

Subject: **EVGSAU Header #4 Injection Line Release**
Unit Letter C, Section 33, Township 17 South, Range 35 East
Lea County, New Mexico
1RP-1542
Incident ID nPAC0726037121

Sir or Madam:

ConocoPhillips entered into an Agreed Compliance Order (ACO) with the NMOCD on May 9, 2019 related to unresolved releases pursuant to 19.15.29.16(9) NMAC. The ACO required COPC to submit characterization and/or remediation plans with proposed timeframes for the ongoing corrective actions or remediations identified to the NMOCD no later than September 1, 2021.

As of April 19, 2021, COPC has submitted characterization and remediation plans for all of the properties identified and owned; for sites not owned, Asset Sold Letters have been submitted. These documents have been submitted to the NMOCD via CentreStack, a Secure Access & File Sharing platform, at the direction of Mr. Bradford Billings, Hydrologist, NMOCD.

Enclosed is a copy of the Release Characterization and Remediation Work Plan for the subject line incident. This Work Plan has been previously submitted in its entirety via the CentreStack platform. It is now duly submitted separately via the NMOCD Fee Application portal.

If you have any questions, please contact me at 281-206-5298.

Sincerely,

Sam Widmer

Sam A. Widmer
Program Manager – RMR

cc: Site Files

Attachments: Release Characterization and Remediation Work Plan, EVGSAU Header #4 Injection Line Release, Incident ID nPAC0726037121

TETRA TECH

February 8, 2021

District Supervisor
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

Re: Release Characterization and Remediation Work Plan
ConocoPhillips
EVGSAU Header #4 Injection Line Release
Unit Letter C, Section 33, Township 17 South, Range 35 East
Lea County, New Mexico
1RP-1542

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to assess a release that occurred from an injection line associated with the East Vacuum Grayburg-San Andres Unit (EVGSAU) Header #4. The release footprint is located in Public Land Survey System (PLSS) Unit Letter C, Section 33, Township 17 South, Range 35 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.797242°, -103.465452°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), on August 8, 2007 a release was discovered due to a leak on an injection line from the EVGSAU Header #4. The release consisted of approximately 174 barrels (bbls) of produced water. During immediate response actions, 40 bbls of produced water were recovered with a vacuum truck. The New Mexico Oil Conservation District (NMOCD) received the C-141 report form for the release on September 14, 2007, and the release was assigned the Remediation Permit (RP) number 1RP-1542. No Incident ID was assigned to this release. The 1RP-1542 release is included in an Agreed Compliance Order-Releases (ACO-R) between COP and the NMOCD signed on May 7 and 9, 2019, respectively.

SITE CHARACTERIZATION

A site characterization was performed and no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). However, the Site is located within the footprint of a playa lake. The Site is in an area of low karst potential.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are two (2) water wells within 800 meters (approximately ½ mile) of the Site. The average depth to groundwater is 75 feet (ft) below ground surface. The site characterization data is included in Appendix B.

REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action

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Tel 432.682.4559 Fax 432.682.3946 www.tetratech.com

levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization (proximity to a playa lake) and in accordance with Table I of 19.15.29.12 NMAC, the remediation RRALs for the Site are as follows:

Constituent	Reclamation/Remediation RRAL
Chloride	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg

SITE ASSESSMENT

The release footprint was identified using GPS coordinates found in the C-141 and through review of available aerial imagery. On behalf of COP, Tetra Tech conducted a visual Site inspection in June 2020. During this inspection, a tinhorn (valve cellar) was observed in the central portion of the release footprint. The relationship between the tinhorn and the release is unclear. However, soil staining and a lack of uniform vegetative cover were observed in the release footprint surrounding the tinhorn. Photographic documentation of the visual Site inspection is included as Appendix C.

Tetra Tech personnel returned to the Site in November 2020 to conduct soil sampling to achieve vertical and horizontal delineation of the release. A total of three (3) borings (BH-1, BH-2, and BH-4) were installed using an air rotary drilling rig to 20 ft bgs within the release footprint in order to vertically delineate the release. An additional three (3) borings were installed using an air rotary drilling rig to 20 ft bgs (BH-3) and 4 ft bgs (BH-5 and BH-6) along the perimeter of the release extent to achieve horizontal delineation to the south (BH-3 and BH-5) and west (BH-6). Two hand auger borings, AH-1 (BH-7) and AH-2 (BH-8), were advanced to 2 ft bgs to complete horizontal delineation to the north and east, respectively. Soils at the Site consist of approximately 1.5 ft of brown silty clay underlain by a caliche cap rock. Figure 3 depicts the release extent and the November 2020 soil boring locations, and GPS coordinates for the boring locations are presented in Table 1.

Soils were field screened for salinity using an ExTech EC400 ExStik and for volatile organics using a photoionization detector (PID) to determine sampling intervals. A total of thirty-three (36) samples were collected from the eight (8) borings (BH-1 through BH-6 and AH-1 and AH-2) and submitted to Pace Analytical National Center for Testing & Innovation (Pace) in Nashville, Tennessee to be analyzed for chlorides via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix D.

SUMMARY OF SAMPLING RESULTS

Results from the November 2020 soil sampling event are summarized in Table 2. The analytical results associated with interior sample locations (BH-1, BH-2 and BH-4) exceeded the Site remediation RRAL for chloride (600 mg/kg) in the sample intervals from the top 7 ft (BH-1) and the top 10 ft (BH-2 and BH-4). There were no other analytical results for samples collected which exceeded the chloride remediation RRALs (600 mg/kg). The analytical results associated with all samples analyzed were below the Site remediation RRALs for BTEX (50 mg/kg) and TPH (100 mg/kg). The release extent was horizontally and vertically delineated.

REMEDIATION WORK PLAN

Based on the analytical results, ConocoPhillips proposes to remove the remaining impacted material as shown in Figure 4. Impacted soils will be excavated using heavy equipment (backhoes, hoe rams, and track hoes) to a maximum depth of 8 ft below the surrounding surface in the area around BH-1 and to a maximum depth of 10 ft bgs below the surrounding surface in the areas around BH-2 and BH-4, or until a representative sample from the walls and bottom of the excavation is below the RRALs. No excavation will

occur along the lease road that runs east-west through the central portion of the release extent, as this road is necessary for ongoing oil and gas operations.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation bottom and sidewall samples will be collected for verification of remedial activities, and analyzed for TPH, BTEX, and chlorides. Once results are received, NMOCD will be notified and the excavation will then be backfilled with clean material to surface grade. The estimated volume of material to be remediated is approximately 4,080 cubic yards.

ALTERNATIVE CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, ConocoPhillips proposes the following alternative confirmation sampling plan to adhere with NMOCD requirements. The proposed confirmation sample locations are depicted in Figure 5. Sixteen (16) confirmation floor samples and thirty-six (36) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 11,505 square feet.

These confirmation sidewall and floor samples will be representative of no more than approximately 500 square feet of excavated area. Confirmation samples will be sent to Pace Laboratories for analysis of TPH (Method 8015 modified), BTEX (Method 8260B), and chloride (USEPA Method 300.0). Once results are received, NMOCD will be notified and the excavation will then be backfilled with clean material to surface grade.

SITE RECLAMATION AND RESTORATION PLAN

The backfilled areas will be seeded in Spring 2021 (or first favorable growing season) to aid in revegetation. Based on the soils at the site, the New Mexico State Land Office (NMSLO) Loamy (L) Sites Seed Mixture will be used for seeding and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. The NMSLO seed mixture details and corresponding pounds pure live seed per acre are included in Appendix E.

CONCLUSION

ConocoPhillips proposes to begin remediation activities at the Site within 1 year of NMOCD plan approval. The EVGSAU Header #4 Injection Line Release (1RP-1542) is included in an Agreed Compliance Order-Releases (ACO-R) between COP and the NMOCD signed on May 7 and 9, 2019, respectively. COP is dedicated to addressing and closing all historical releases included in the ACO-R, and given the number of releases to be addressed, 1 year is anticipated to be a practicable timeline. Upon completion of the proposed work, a final closure report detailing the remediation activities and the results of the confirmation sampling will be submitted to NMOCD.

If you have any questions concerning the soil assessment or the proposed remediation activities for the Site, please call me at (512) 739-7874 or Christian at (512) 338-2861.

Sincerely,
Tetra Tech, Inc.

Samantha K. Abbott, P.G.
Senior Staff Geologist

Christian M, Llull, P.G.
Project Manager

cc:
Mr. Marvin Soriwei, RMR – ConocoPhillips
Mr. Charles Beauvais, GPBU - ConocoPhillips

LIST OF ATTACHMENTS

Figures:

Tables:

Appendices:

FIGURES

Source: Google Earth Pro, May 2019.

DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-1542\FIGURE 1 SITE LOCATION_1RP-1542.MXD

TETRA TECH
www.tetratech.com
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Midland, Texas 79701
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Fax: (432) 682-3946

CONOCOPHILLIPS

1RP-1542
(32.797242°, -103.465452°)
LEA COUNTY, NEW MEXICO

EVGSAU HEADER #4 INJECTION LINE RELEASE
SITE LOCATION MAP

PROJECT NO.:	212C-MD-02334
DATE:	DECEMBER 17, 2020
DESIGNED BY:	AAM

Figure No.
1

DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-1542\FIGURE 2 TOPO_1RP-1542.MXD

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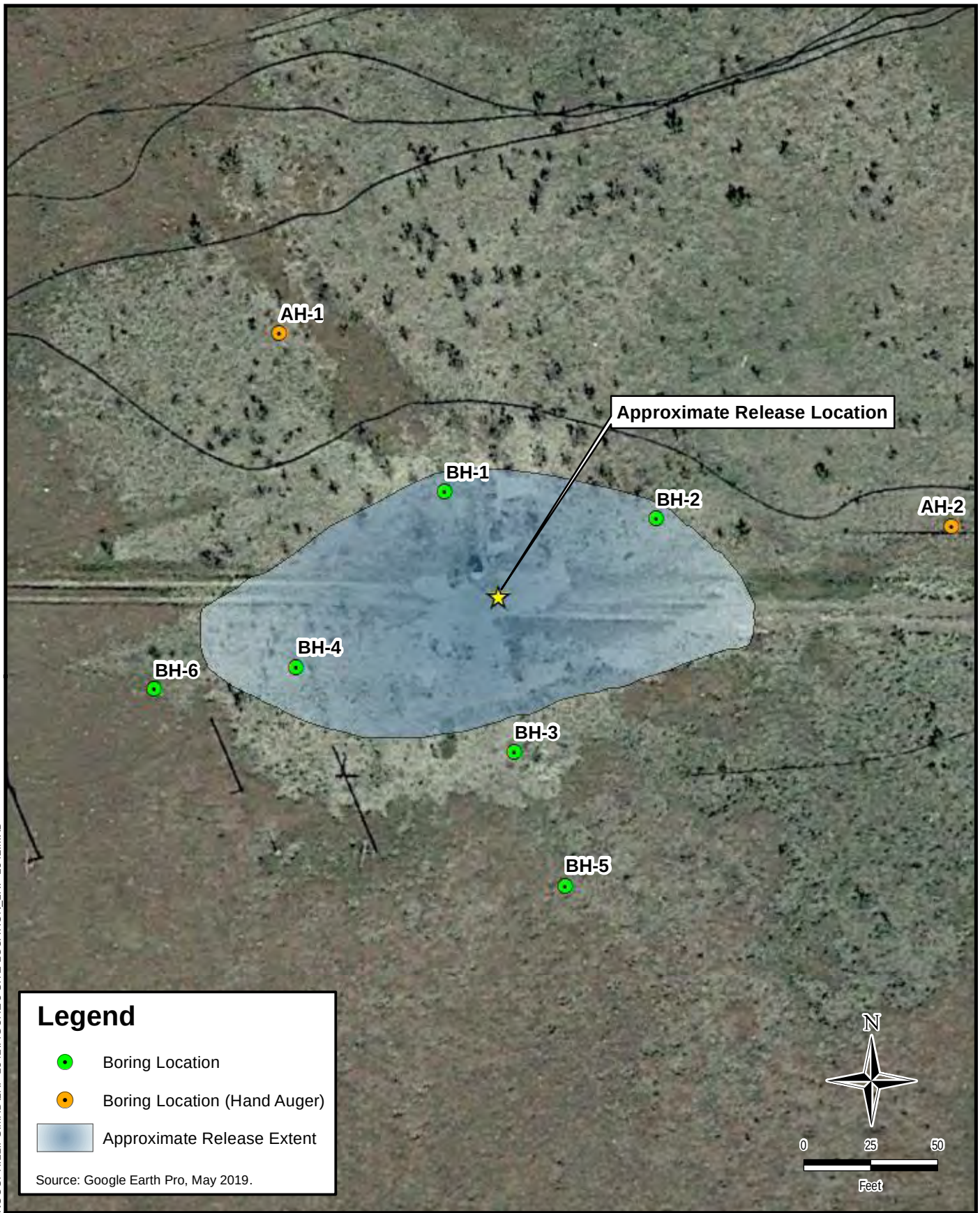
CONOCOPHILLIPS

1RP-1542
(32.797242°, -103.465452°)
LEA COUNTY, NEW MEXICO

EVGSAU HEADER #4 INJECTION LINE RELEASE
SITE LOCATION MAP

PROJECT NO.:	212C-MD-02334
DATE:	DECEMBER 17, 2020
DESIGNED BY:	AAM

Figure No.
2



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-1542\FIGURE 3 SITE LOCATION_1RP-1542.MXD

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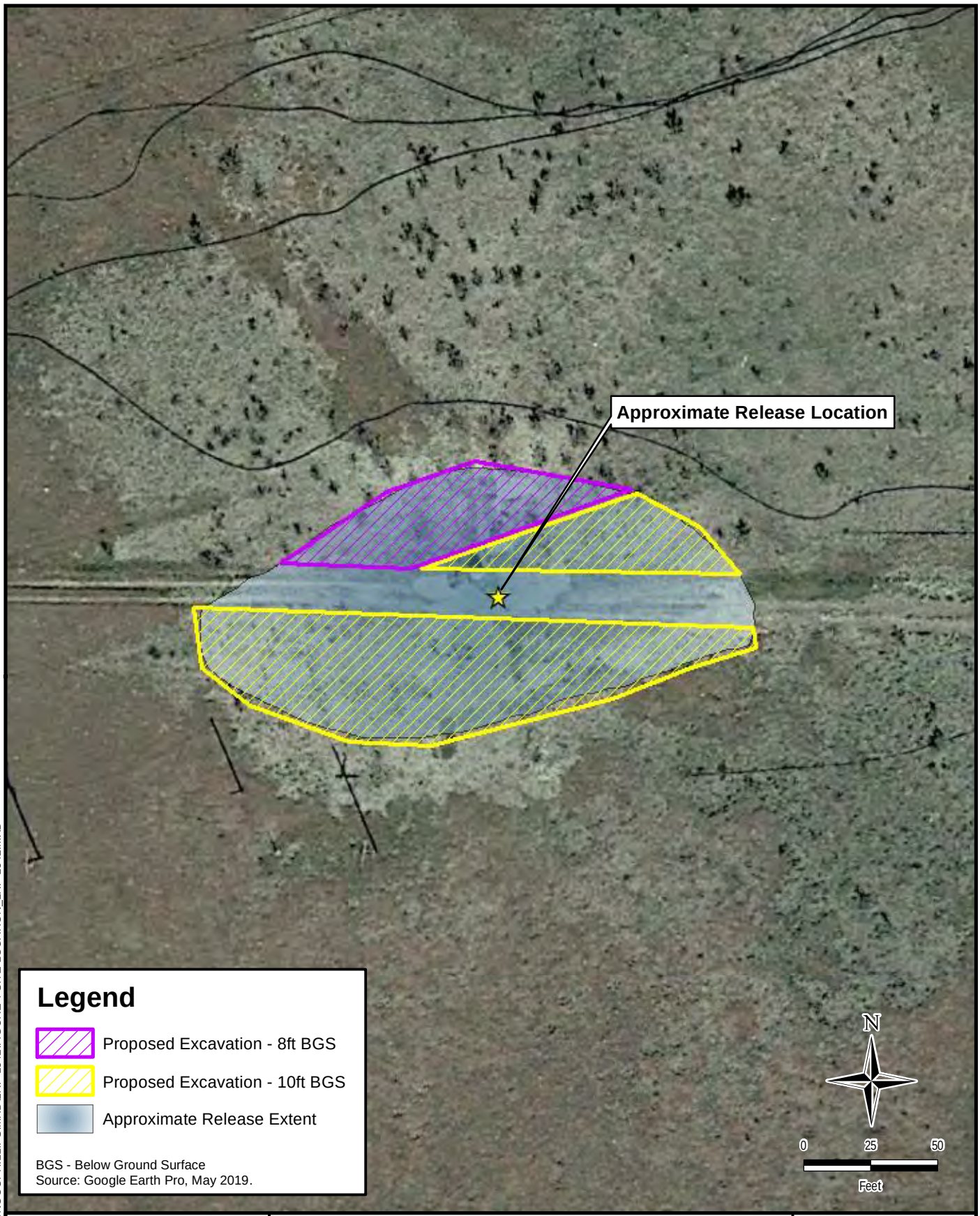
CONOCOPHILLIPS

1RP-1542
(32.797242°, -103.465452°)
LEA COUNTY, NEW MEXICO

EVGSAU HEADER #4 INJECTION LINE RELEASE
RELEASE EXTENT AND SITE ASSESSMENT

PROJECT NO.:	212C-MD-02152
DATE:	DECEMBER 17, 2020
DESIGNED BY:	AAM

Figure No.
3



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-1542\FIGURE 4 SITE LOCATION_1RP-1542.MXD

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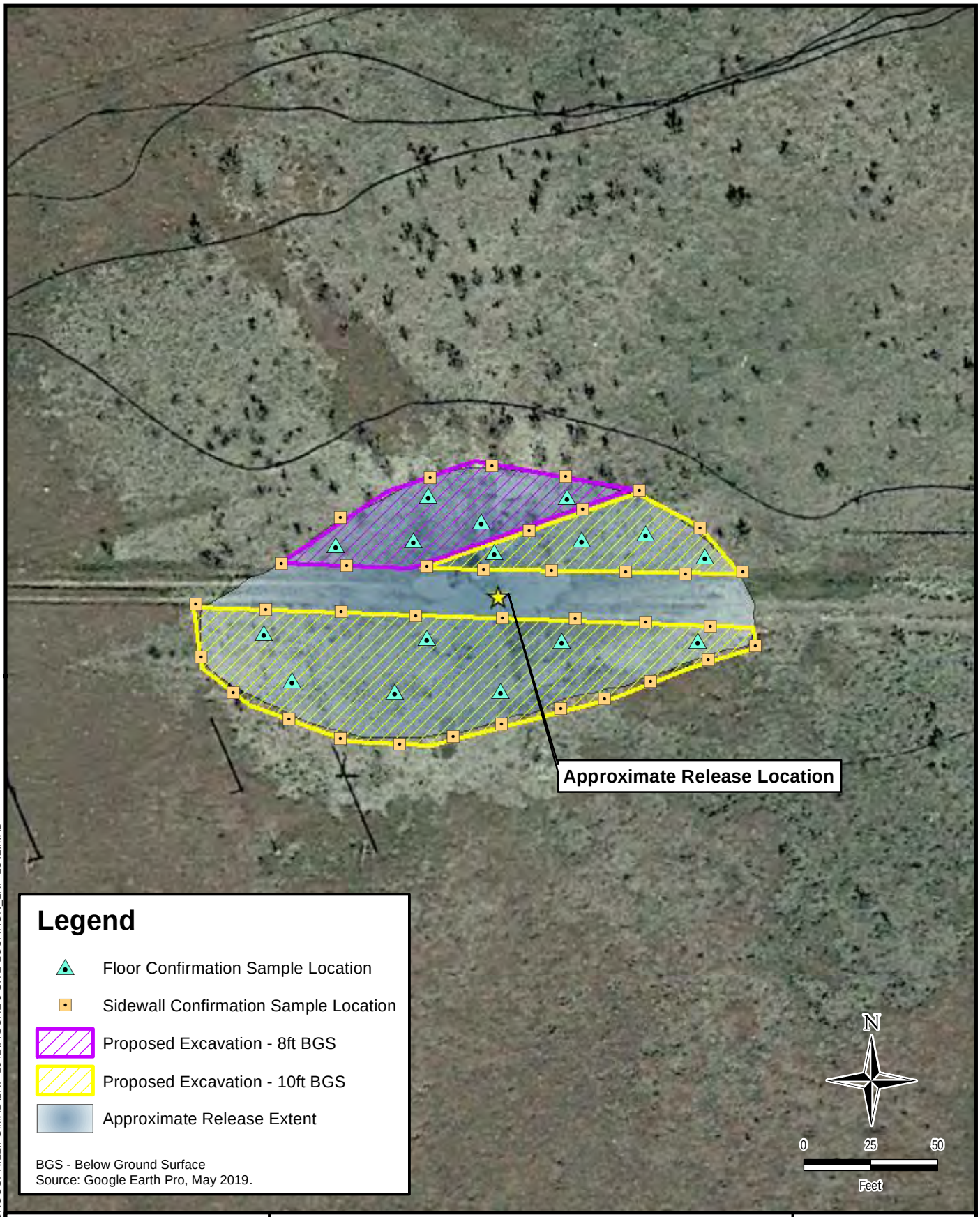
CONOCOPHILLIPS

1RP-1542
(32.797242°, -103.465452°)
LEA COUNTY, NEW MEXICO

EVGSAU HEADER #4 INJECTION LINE RELEASE
PROPOSED REMEDIATION EXTENTS

PROJECT NO.:	212C-MD-02336
DATE:	DECEMBER 17, 2020
DESIGNED BY:	AAM

Figure No.
4



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-1542\FIGURE 5 SITE LOCATION_1RP-1542.MXD

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CONOCOPHILLIPS

1RP-1542
(32.797242°, -103.465452°)
LEA COUNTY, NEW MEXICO

EVGSAU HEADER #4 INJECTION LINE RELEASE
ALTERNATIVE CONFIRMATION SAMPLING PLAN

PROJECT NO.:	212C-MD-02336
DATE:	DECEMBER 17, 2020
DESIGNED BY:	AAM

Figure No.
5

TABLES

TABLE 1
BORING LOCACTION COORDINATES
SOIL ASSESSMENT - 1RP-1542
CONOCOPHILLIPS
EVGSAU HEADER #4 INJECTION LINE RELEASE
LEA COUNTY, NM

Boring ID	Latitude	Longitude
AH-1	32.797512	-103.465714
AH-2	32.797309	-103.464899
BH-1	32.797349	-103.465515
BH-2	32.797319	-103.465258
BH-3	32.797082	-103.465433
BH-4	32.797170	-103.465696
BH-5	32.796945	-103.465372
BH-6	32.797149	-103.465870

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT - 1RP-1542
CONOCOPHILLIPS
EVGSAU HEADER #4 INJECTION LINE RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chloride[1]		BTEX[2]										TPH[3]							
							Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO[4]		DRO		ORO		Total TPH (GRO+DRO+ORO)	
			Chloride	PID													C_3 - C_{10}		C_{10} - C_{28}		C_{28} - C_{40}			
		ft. bgs	ppm		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
BH-1	11/3/2020	0-1	-	-	177		< 0.00124		< 0.00621		< 0.00310		< 0.00807		-		< 0.112		4.39	B J	12.6	B	17.0	
		2-3	-	-	***2580***		< 0.00134		< 0.00669		< 0.00334		< 0.00869		-		< 0.117		< 4.67		4.59	B J	4.59	
		4-5	-	-	***973***		< 0.00121		< 0.00605		< 0.00302		< 0.00786		-		< 0.110		< 4.42		2.15	B J	2.15	
		6-7	-	-	***653***		< 0.00122		< 0.00612		< 0.00306		< 0.00796		-		< 0.111		< 4.45		1.35	B J	1.35	
		9-10	-	-	53.0		< 0.00127		< 0.00635		< 0.00317		< 0.00825		-		< 0.113		< 4.54		1.97	B J	1.97	
		14-15	-	-	< 23.5		< 0.00135		< 0.00673		< 0.00337		< 0.00875		-		< 0.117		< 4.69		2.11	B J	2.11	
		19-20	121	0.2	14.2	J	< 0.00124		< 0.00621		< 0.00311		< 0.00807		-		0.0591	B J	< 4.48		0.952	B J	1.01	
BH-2	11/3/2020	0-1	-	-	***932***		< 0.00124		< 0.00620		0.00182	J	0.0161		0.0179		< 0.112		5.70	B	14.4	B	20.1	
		2-3	-	-	***1610***		< 0.00127		< 0.00634		< 0.00317		< 0.00824		-		< 0.113		4.38	B J	10.4	B	14.8	
		4-5	-	-	***2930***		< 0.00124		< 0.00621		< 0.00311		0.00137	J	0.00137		< 0.112		3.82	B J	11.8	B	15.6	
		6-7	-	-	***3870***		< 0.00132		< 0.00662		< 0.00331		< 0.00860		-		< 0.116		4.23	J	7.11		11.3	
		9-10	-	-	***1720***		< 0.00131		< 0.00655		< 0.00327		< 0.00851		-		< 0.115		< 4.62		1.47	J	1.47	
		14-15	-	-	43.8		< 0.00128		< 0.00641		< 0.00320		< 0.00833		-		< 0.114		< 4.56		1.19	J	1.19	
		19-20	101	0.3	86.7		< 0.00128		< 0.00640		< 0.00320		< 0.00832		-		< 0.114		< 4.56		0.626	J	0.626	
BH-3	11/3/2020	0-1	-	-	41.1		< 0.00120		< 0.00601		< 0.00301		< 0.00781		-		0.0468	B J	2.23	J	12.6		14.9	
		3-4	-	-	400		< 0.00125		< 0.00624		< 0.00312		0.00179	J	0.00179		0.0782	B J	< 4.50		6.23		6.31	
		4-5	-	-	182		< 0.00124		< 0.00621		< 0.00311		< 0.00808		-		0.0330	B J J3	< 4.48		1.77	J	1.80	
		6-7	-	-	50.8		< 0.00127		< 0.00633		< 0.00316		< 0.00823		-		0.0682	B J	< 4.53		1.81	J	1.88	
		9-10	-	-	36.3		< 0.00129		< 0.00647		< 0.00324		< 0.00841		-		0.0406	B J	< 4.59		2.14	J	2.18	
		14-15	-	-	16.6	J	< 0.00123		< 0.00614		< 0.00307		< 0.00798		-		0.0310	B J	< 4.45		0.634	J	0.665	
		19-20	66.4	0.1	11.1	J	< 0.00126		< 0.00628		< 0.00314		< 0.00816		-		0.0254	B J	< 4.51		0.497	J	0.522	
BH-4	11/3/2020	0-1	-	-	***2360***		< 0.00129		< 0.00644		< 0.00332		< 0.00838		-		< 0.114		2.51	J	11.2		13.7	
		2-3	-	-	***4130***		< 0.00140		< 0.00701		< 0.00351		< 0.00912		-		< 0.120		< 4.81		9.13		9.13	
		4-5	-	-	***5650***		< 0.00140		< 0.00699		< 0.00350		< 0.00909		-		< 0.120		< 4.80		2.23	J	2.23	
		6-7	-	-	***5090***		< 0.00144		< 0.00720		< 0.00361		< 0.00937		-		< 0.119		< 4.76		1.67	J	1.67	
		9-10	-	-	***1970***		< 0.00131		< 0.00657		< 0.00328		< 0.00854		-		< 0.116		< 4.63		1.97	J	1.97	
		14-15	-	-	271		< 0.00146		< 0.00730		< 0.00365		< 0.00949		-		< 0.123		< 4.92		1.62	J	1.62	
		19-20	93.1	0.4	20.7	J	< 0.00118		< 0.00589		< 0.00295		< 0.00766		-		< 0.109		< 4.36		0.418	J	0.418	
BH-5	11/3/2020	0-1	101	1.1	12.0	J	< 0.00119		< 0.00595		< 0.00297		< 0.00773		-		< 0.109		2.99	J	14.6		17.6	
		3-4	96.4	0.5	31.1		< 0.00121		< 0.00603		< 0.00301		< 0.00783		-		< 0.110		< 4.41		5.03		5.03	
BH-6	11/10/2020	0-1	83.1	0.9	17.0	J	< 0.00118		< 0.00590		< 0.00296		< 0.00767		-		0.0976	B J	3.20	J	19.6		22.9	
		3-4	71.4	0.4	37.5		< 0.00120		0.00181	J J5	< 0.00088		0.00156	J	0.00337		0.0574	B J	4.87		12.3		17.2	
AH-1 (BH-7)	11/10/2020	0-1	-	-	< 21.4		< 0.00114		< 0.00568		< 0.00284		< 0.00739		-		< 0.107		14.5		63.4		77.9	
		1-2	-	-	< 21.9		< 0.00119		< 0.00596		< 0.00298		< 0.00774		-		< 0.110		6.78		35.3		42.1	
AH-2 (BH-8)	11/10/2020	0-1	-	-	17.0	J	< 0.00118		< 0.00590		< 0.00295		< 0.00767		-		< 0.109		21.9		77.7		99.6	
		1-2	-	-	< 21.8		< 0.00118		< 0.00591		< 0.00295		< 0.00768		-		< 0.109		13		39.6		52.6	

NOTES:

ft. Feet

bgs Below ground surface

ppm Parts per million

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

ORO Oil range organics

Bold and italicized values indicate exceedance of proposed RRALs

Shaded rows indicate intervals proposed for excavation

1 EPA Method 300.0

2 EPA Method 8260B

3 EPA Method 8015

4 EPA Method 8015D/GRO

QUALIFIERS:

B The same analyte is found in the associated blank.

J The identification of the analyte is acceptable; the reported value is an estimate.

J3 The associated batch QC was outside the established quality control range for precision.

APPENDIX A
C-141 Forms

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

1RP-1542

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company **ConocoPhillips Company**	Contact **Jesse A. Sosa**
Address **3300 North A St., Bldg. 6, Midland, TX 79705-5406**	Telephone No. **505.391.3126**
Facility Name **EVGSAU Injection Header #4**	Facility Type **Oil and Gas**

Surface Owner **State**	Mineral Owner **BLM**	Lease No **EVGSAU 3308-002**

LOCATION OF RELEASE

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

Latitude N 32 47.829 Longitude W 103 27.903

NATURE OF RELEASE

Type of Release **Produced Water**	Volume of Release **174bbl (0oil, 174water)**	Volume Recovered **(0oil, 40water)**
Source of Release **Injection Line**	Date and Hour of Occurrence **08/08/07 12:00 pm**	Date and Hour of Discovery **08/08/07 1:00 pm**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **Pat Richards (NMOCD)**	
By Whom? **Jesse Sosa**	Date and Hour **08/08/07 4:33 pm**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Release of 174 BPW on injection line. Leak was isolated by shutting in header. * CHLORIDE CONTENT OF WTR SPILLED ?

Describe Area Affected and Cleanup Action Taken.*
Area affected was 80 feet X 200 feet. Vacuum truck was called out and 40 BPW was picked up.

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

Signature:	OIL CONSERVATION DIVISION
Printed Name: **Jesse A. Sosa**	Approved by District Supervisor: ENVIRONMENTAL ENGINEER
Title: **HSER Lead**	Approval Date: 9.14.07 Expiration Date: 11.14.07
E-mail Address: **Jesse.A.Sosa@conocophillips.com**	Conditions of Approval: SUBMIT FINAL C-141 BY COMPLETED. Attached ☐
Date: **08/08/2007** Phone: **505.391.3126**	

- Attach Additional Sheets If Necessary

RP#1542

State of New Mexico
Oil Conservation Division

Incident ID	
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?	_____ (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.

State of New Mexico
Oil Conservation Division

Incident ID	
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: _____ Title: _____

Signature: Charles R. Beauvais II Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: _____ Title: _____

Signature: Charles R. Beauvais II Date: _____

email: _____ Telephone: _____

OCD Only

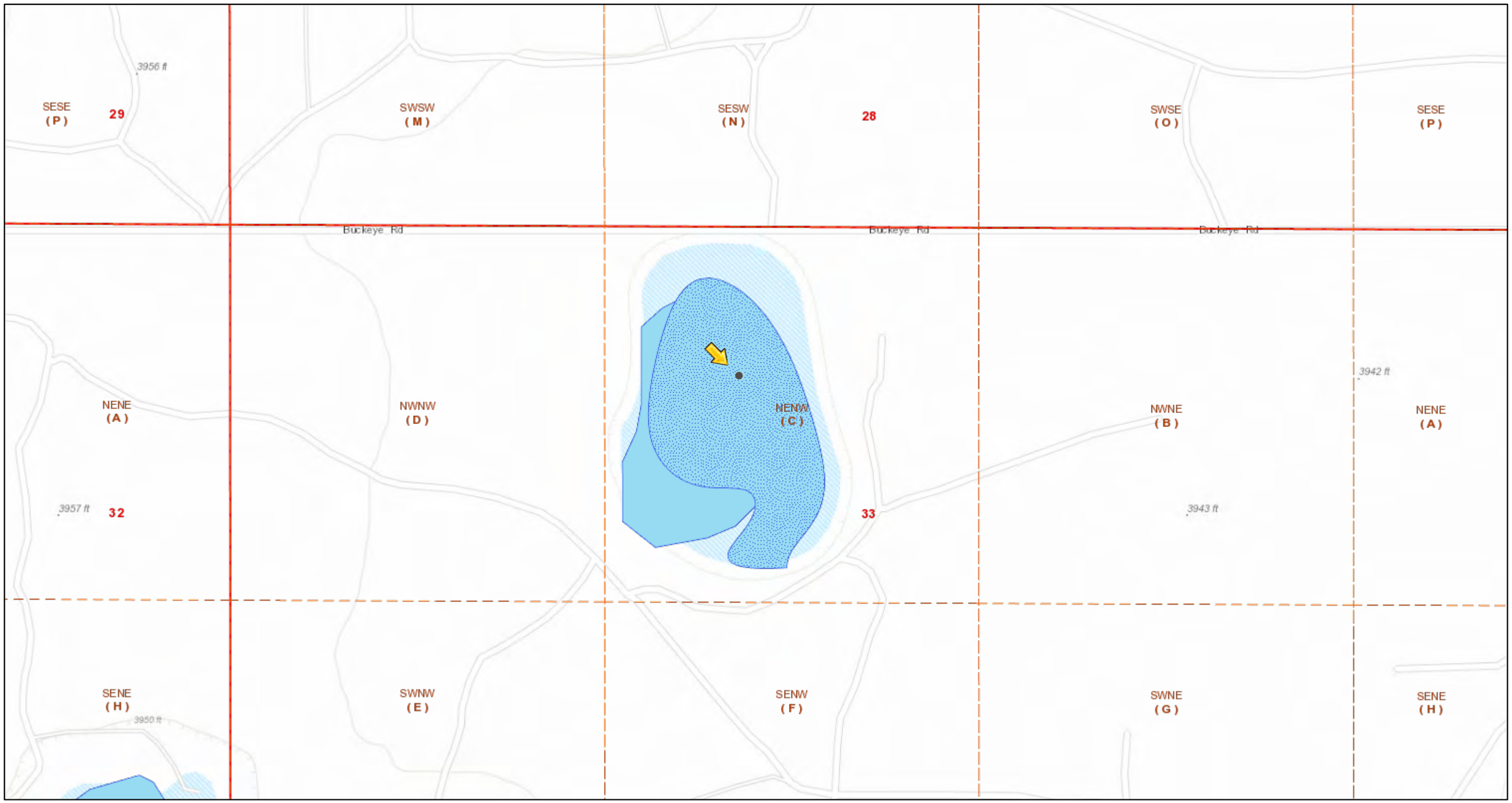
Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

APPENDIX B
Site Characterization Data

1RP-1542



7/27/2020, 1:37:30 PM

Override 1

PLSS First Division

PLSS Second Division

OSE Streams

PLJV Probable Playas

OSE Water-bodies

1:4,813

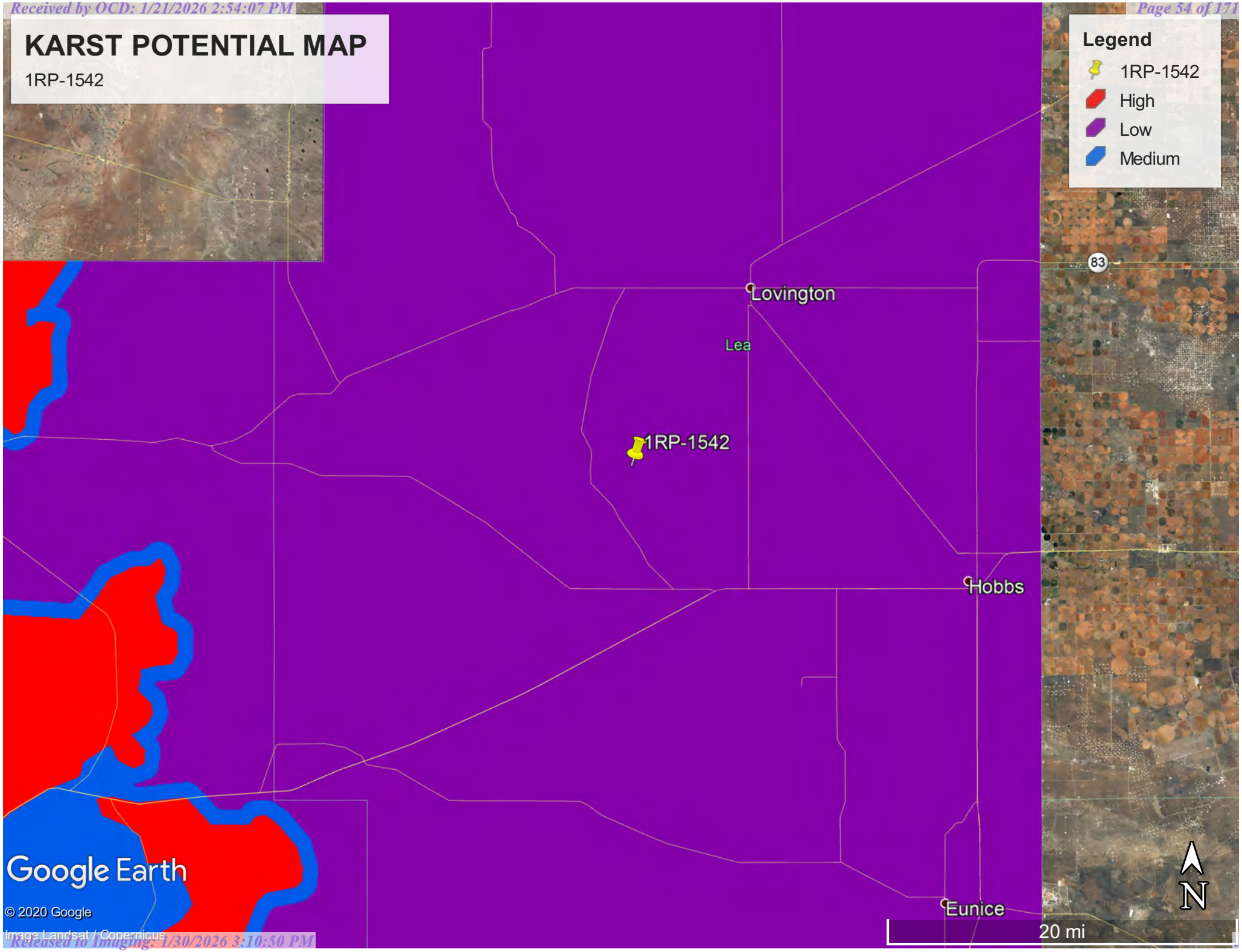
0 270 540 1,080 ft

0 80 160 320 m

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community, BLM

KARST POTENTIAL MAP

1RP-1542



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	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 04829 S5	L	LE	3	1		33	17S	35E	643347	3629400*	563	220	90	130
L 04578	L	LE				33	17S	35E	643962	3629198*	709	126	60	66

Average Depth to Water: **75 feet**

Minimum Depth: **60 feet**

Maximum Depth: **90 feet**

Record Count: 2

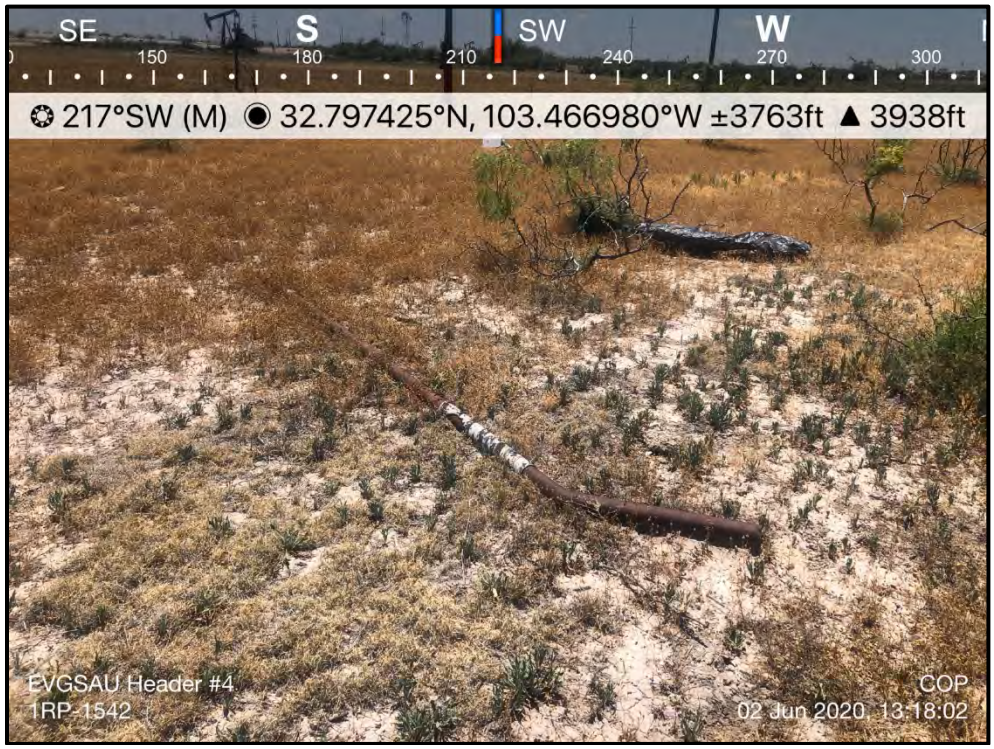
UTMNAD83 Radius Search (in meters):

Easting (X): 643685 **Northing (Y):** 3629851 **Radius:** 800

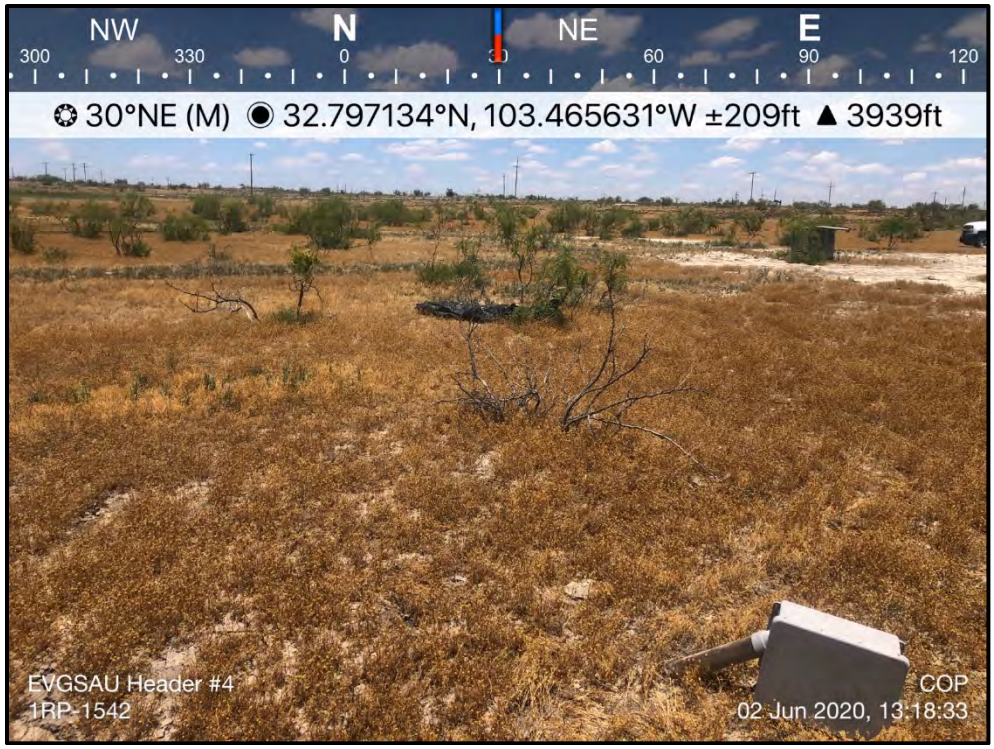
***UTM location was derived from PLSS - see Help**

APPENDIX C
Photographic Documentation

TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing west of flowline release area.	1
	SITE NAME	EVGSAU Header #4 Flowline Release	6/2/2020



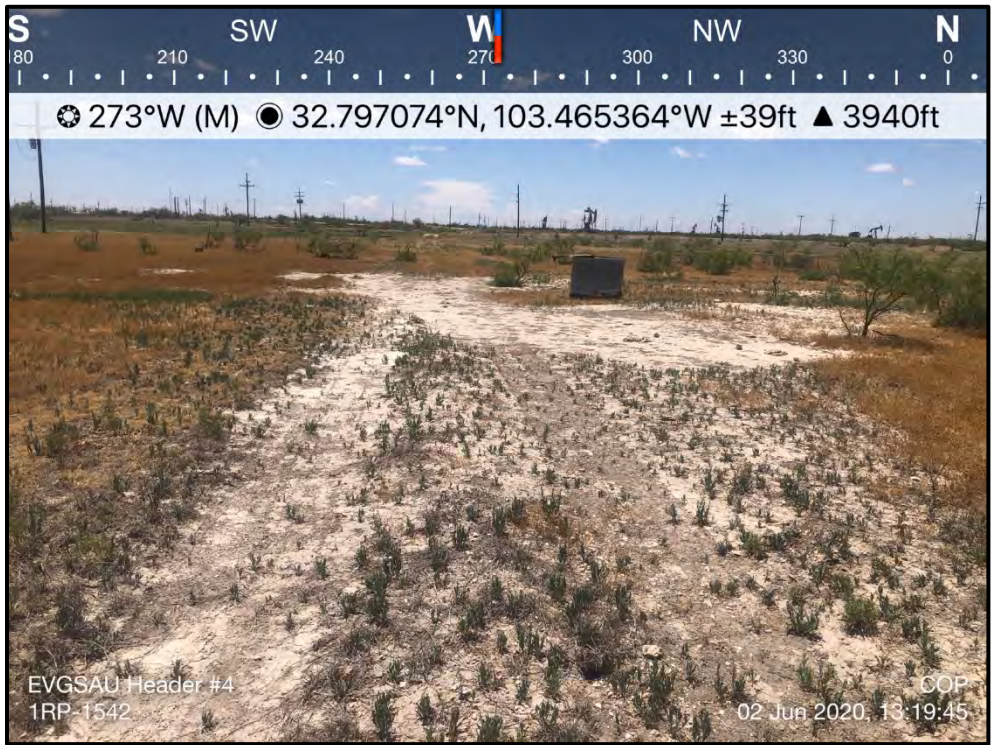
TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing southwest of flowline pipe.	2
	SITE NAME	EVGSAU Header #4 Flowline Release	6/2/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing northeast of flowline release area.	3
	SITE NAME	EVGSAU Header #4 Flowline Release	6/2/2020

TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing north of flowline release area.	4
	SITE NAME	EVGSAU Header #4 Flowline Release	6/2/2020

TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing west of flowline release area.	5
	SITE NAME	EVGSAU Header #4 Flowline Release	6/2/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing west of lease road adjacent to flowline release area.	6
	SITE NAME	EVGSAU Header #4 Flowline Release	6/2/2020

APPENDIX D
Laboratory Analytical Data

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

November 23, 2020

ConocoPhillips - Tetra Tech

Sample Delivery Group:	L1283249
Samples Received:	11/07/2020
Project Number:	212C-MD-02334
Description:	EVGSAU Header #4 Injection Line Release (1RP-1542)

Report To: Christian Llull
901 West Wall
Suite 100
Midland, TX 79701

Entire Report Reviewed By: Erica McNeese

Erica McNeese
Project Manager

TABLE OF CONTENTS

BH-1 (0-1') L1283249-01 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 12:00 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1575506	1	11/14/20 01:47	11/14/20 01:59	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577250	1	11/16/20 19:30	11/16/20 23:30	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1575928	1	11/12/20 13:16	11/14/20 02:16	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575965	1	11/12/20 13:16	11/13/20 23:15	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576774	1	11/16/20 20:42	11/17/20 03:19	JN	Mt. Juliet, TN

BH-1 (2-3') L1283249-02 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 12:10 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1575506	1	11/14/20 01:47	11/14/20 01:59	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577250	10	11/16/20 19:30	11/16/20 23:39	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1575928	1	11/12/20 13:16	11/14/20 02:37	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575965	1	11/12/20 13:16	11/13/20 23:34	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576774	1	11/16/20 20:42	11/17/20 03:58	JN	Mt. Juliet, TN

BH-1 (4-5') L1283249-03 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 12:20 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1575506	1	11/14/20 01:47	11/14/20 01:59	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577250	5	11/16/20 19:30	11/16/20 23:49	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1575928	1	11/12/20 13:16	11/14/20 02:58	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575965	1	11/12/20 13:16	11/13/20 23:53	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576774	1	11/16/20 20:42	11/17/20 04:10	JN	Mt. Juliet, TN

BH-1 (6-7') L1283249-04 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 12:30 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1575506	1	11/14/20 01:47	11/14/20 01:59	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577250	1	11/16/20 19:30	11/17/20 00:08	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1575928	1	11/12/20 13:16	11/14/20 03:19	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575965	1	11/12/20 13:16	11/14/20 00:12	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576774	1	11/16/20 20:42	11/17/20 04:23	JN	Mt. Juliet, TN

BH-1 (9-10') L1283249-05 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 12:40 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1575506	1	11/14/20 01:47	11/14/20 01:59	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577250	1	11/16/20 19:30	11/17/20 00:17	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1575928	1	11/12/20 13:16	11/14/20 03:40	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575965	1	11/12/20 13:16	11/14/20 00:31	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576774	1	11/16/20 20:42	11/17/20 04:35	JN	Mt. Juliet, TN

BH-1 (14-15') L1283249-06 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 12:50 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1575506	1	11/14/20 01:47	11/14/20 01:59	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577250	1	11/16/20 19:30	11/17/20 01:05	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1575928	1	11/12/20 13:16	11/14/20 04:01	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575965	1	11/12/20 13:16	11/14/20 00:50	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576774	1	11/16/20 20:42	11/17/20 04:48	JN	Mt. Juliet, TN

BH-1 (19-20') L1283249-07 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 13:00 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1575862	1	11/13/20 05:41	11/13/20 05:50	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577250	1	11/16/20 19:30	11/17/20 01:14	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1575928	1	11/12/20 13:16	11/14/20 04:22	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575965	1	11/12/20 13:16	11/14/20 01:09	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576774	1	11/16/20 20:42	11/17/20 05:01	JN	Mt. Juliet, TN

BH-2 (0-1') L1283249-08 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 13:30 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1575862	1	11/13/20 05:41	11/13/20 05:50	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577250	5	11/16/20 19:30	11/17/20 01:24	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1575928	1	11/12/20 13:16	11/14/20 04:43	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575965	1	11/12/20 13:16	11/14/20 01:28	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576774	1	11/16/20 20:42	11/17/20 05:14	JN	Mt. Juliet, TN

BH-2 (2-3') L1283249-09 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 13:40 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1576092	1	11/14/20 05:56	11/14/20 06:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577250	10	11/16/20 19:30	11/17/20 01:33	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1575928	1	11/12/20 13:16	11/14/20 05:04	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575965	1	11/12/20 13:16	11/14/20 01:47	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576774	1	11/16/20 20:42	11/17/20 05:26	JN	Mt. Juliet, TN

BH-2 (4-5') L1283249-10 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 13:50 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1576092	1	11/14/20 05:56	11/14/20 06:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577250	10	11/16/20 19:30	11/17/20 01:43	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1575928	1	11/12/20 13:16	11/14/20 05:25	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575965	1	11/12/20 13:16	11/14/20 02:05	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576774	1	11/16/20 20:42	11/17/20 07:24	JN	Mt. Juliet, TN

BH-2 (6-7') L1283249-11 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 14:00 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1576092	1	11/14/20 05:56	11/14/20 06:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577250	10	11/16/20 19:30	11/17/20 01:52	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1575928	1	11/12/20 13:16	11/14/20 05:45	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575968	1	11/12/20 13:16	11/14/20 04:57	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576785	1	11/15/20 11:42	11/15/20 15:44	JN	Mt. Juliet, TN

BH-2 (9-10') L1283249-12 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 14:10 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1576092	1	11/14/20 05:56	11/14/20 06:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577250	5	11/16/20 19:30	11/17/20 02:02	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1575928	1	11/12/20 13:16	11/14/20 06:06	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575968	1	11/12/20 13:16	11/14/20 05:16	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576785	1	11/15/20 11:42	11/16/20 06:12	JN	Mt. Juliet, TN

BH-2 (14-15') L1283249-13 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 14:20 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1576092	1	11/14/20 05:56	11/14/20 06:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577250	1	11/16/20 19:30	11/17/20 02:11	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1575928	1	11/12/20 13:16	11/14/20 06:27	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575968	1	11/12/20 13:16	11/14/20 05:35	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576785	1	11/15/20 11:42	11/16/20 06:25	JN	Mt. Juliet, TN

BH-2 (19-20') L1283249-14 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 14:30 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1576092	1	11/14/20 05:56	11/14/20 06:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577250	1	11/16/20 19:30	11/17/20 02:21	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1575928	1	11/12/20 13:16	11/14/20 06:49	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575968	1	11/12/20 13:16	11/14/20 05:54	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576785	1	11/15/20 11:42	11/16/20 06:38	JN	Mt. Juliet, TN

BH-3 (0-1') L1283249-15 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 15:00 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1576092	1	11/14/20 05:56	11/14/20 06:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577250	1	11/16/20 19:30	11/17/20 02:30	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1575928	1	11/12/20 13:16	11/14/20 07:10	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575968	1	11/12/20 13:16	11/14/20 06:13	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576785	1	11/15/20 11:42	11/16/20 07:05	JN	Mt. Juliet, TN

BH-3 (4-5') L1283249-16 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 15:20 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1576092	1	11/14/20 05:56	11/14/20 06:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577250	1	11/16/20 19:30	11/17/20 02:59	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1575928	1	11/12/20 13:16	11/14/20 07:31	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575968	1	11/12/20 13:16	11/14/20 06:32	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576785	1	11/15/20 11:42	11/16/20 07:36	JN	Mt. Juliet, TN

BH-3 (6-7') L1283249-17 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 15:30 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1576092	1	11/14/20 05:56	11/14/20 06:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577250	1	11/16/20 19:30	11/17/20 03:08	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1576013	1	11/12/20 13:16	11/13/20 14:13	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575968	1	11/12/20 13:16	11/14/20 06:51	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576785	1	11/15/20 11:42	11/16/20 07:49	JN	Mt. Juliet, TN

BH-3 (9-10') L1283249-18 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 15:40 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1576092	1	11/14/20 05:56	11/14/20 06:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577250	1	11/16/20 19:30	11/17/20 03:18	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1576013	1	11/12/20 15:14	11/13/20 14:36	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575968	1	11/12/20 15:14	11/14/20 07:10	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576785	1	11/15/20 11:42	11/15/20 15:05	JN	Mt. Juliet, TN

BH-3 (14-15') L1283249-19 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 15:50 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1576093	1	11/14/20 05:46	11/14/20 05:53	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577250	1	11/16/20 19:30	11/17/20 03:28	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1576013	1	11/12/20 15:14	11/13/20 14:59	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575968	1	11/12/20 15:14	11/14/20 07:29	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576785	1	11/15/20 11:42	11/16/20 06:52	JN	Mt. Juliet, TN

BH-3 (19-20') L1283249-20 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 16:00 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1576093	1	11/14/20 05:46	11/14/20 05:53	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577250	1	11/16/20 19:30	11/17/20 03:37	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1576013	1	11/12/20 15:14	11/13/20 15:22	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575968	1	11/12/20 15:14	11/14/20 07:48	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576785	1	11/15/20 11:42	11/16/20 07:23	JN	Mt. Juliet, TN

BH-4 (0-1') L1283249-21 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 16:30 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1576093	1	11/14/20 05:46	11/14/20 05:53	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1579461	10	11/19/20 20:27	11/19/20 22:40	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1576013	1	11/12/20 15:14	11/13/20 15:57	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575968	1	11/12/20 15:14	11/14/20 08:07	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576785	1	11/15/20 11:42	11/16/20 11:27	JN	Mt. Juliet, TN

BH-4 (2-3') L1283249-22 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 16:10 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1576093	1	11/14/20 05:46	11/14/20 05:53	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577258	10	11/17/20 18:56	11/18/20 00:10	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1576013	1	11/12/20 15:14	11/13/20 16:20	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575968	1	11/12/20 15:14	11/14/20 08:26	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576785	1	11/15/20 11:42	11/16/20 12:03	JN	Mt. Juliet, TN

BH-4 (4-5') L1283249-23 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 16:20 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1576093	1	11/14/20 05:46	11/14/20 05:53	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577258	10	11/17/20 18:56	11/18/20 00:27	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1576013	1	11/12/20 15:14	11/13/20 16:43	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575968	1	11/12/20 15:14	11/14/20 08:45	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576785	1	11/15/20 11:42	11/16/20 08:08	JN	Mt. Juliet, TN

BH-4 (6-7') L1283249-24 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 16:30 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1576093	1	11/14/20 05:46	11/14/20 05:53	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577258	10	11/17/20 18:56	11/18/20 00:44	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1576013	1	11/12/20 15:14	11/13/20 17:06	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575968	1.05	11/12/20 15:14	11/14/20 09:04	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576785	1	11/15/20 11:42	11/16/20 08:21	JN	Mt. Juliet, TN

BH-4 (9-10') L1283249-25 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 16:40 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1576093	1	11/14/20 05:46	11/14/20 05:53	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577258	5	11/17/20 18:56	11/18/20 02:08	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1576013	1	11/12/20 15:14	11/13/20 17:29	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575968	1	11/12/20 15:14	11/14/20 09:23	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576785	1	11/15/20 11:42	11/16/20 08:34	JN	Mt. Juliet, TN

BH-4 (14-15') L1283249-26 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 16:50 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1576093	1	11/14/20 05:46	11/14/20 05:53	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577258	1	11/17/20 18:56	11/18/20 02:59	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1576013	1	11/12/20 15:14	11/13/20 17:59	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575968	1	11/12/20 15:14	11/14/20 09:42	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576785	1	11/15/20 11:42	11/16/20 08:47	JN	Mt. Juliet, TN

BH-4 (19-20') L1283249-27 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 17:00 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1576093	1	11/14/20 05:46	11/14/20 05:53	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577258	1	11/17/20 18:56	11/18/20 03:16	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1576013	1	11/12/20 15:14	11/13/20 18:22	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575968	1	11/12/20 15:14	11/14/20 10:01	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576785	1	11/15/20 11:42	11/16/20 09:01	JN	Mt. Juliet, TN

BH-5 (0-1') L1283249-28 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 17:20 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1576093	1	11/14/20 05:46	11/14/20 05:53	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577258	1	11/17/20 18:56	11/18/20 03:33	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1576013	1	11/12/20 15:14	11/13/20 18:45	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575968	1	11/12/20 15:14	11/14/20 10:20	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576785	1	11/15/20 11:42	11/16/20 09:14	JN	Mt. Juliet, TN

BH-5 (3-4') L1283249-29 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 17:40 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1576094	1	11/14/20 05:34	11/14/20 05:43	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577258	1	11/17/20 18:56	11/18/20 03:50	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1576013	1	11/12/20 15:14	11/13/20 19:08	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575968	1	11/12/20 15:14	11/14/20 10:39	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576785	1	11/15/20 11:42	11/16/20 11:13	JN	Mt. Juliet, TN

BH-6 (0-1') L1283249-30 Solid

Collected by: Joe Tyler | Collected date/time: 11/03/20 18:00 | Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1576094	1	11/14/20 05:34	11/14/20 05:43	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1579461	1	11/19/20 20:27	11/19/20 22:56	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1576013	1	11/12/20 15:14	11/13/20 19:31	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1575968	1	11/12/20 15:14	11/14/20 10:58	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576785	1	11/15/20 11:42	11/16/20 11:45	JN	Mt. Juliet, TN

BH-6 (3-4') L1283249-31 Solid

Collected by: Joe Tyler
Collected date/time: 11/03/20 18:20
Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1576094	1	11/14/20 05:34	11/14/20 05:43	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577258	1	11/17/20 18:56	11/18/20 04:07	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1576013	1	11/12/20 15:14	11/13/20 19:54	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1576036	1	11/12/20 15:14	11/16/20 00:50	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576945	1	11/15/20 16:51	11/16/20 09:50	JN	Mt. Juliet, TN

BH-3 (3-4') L1283249-34 Solid

Collected by: Joe Tyler
Collected date/time: 11/03/20 15:10
Received date/time: 11/07/20 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1576094	1	11/14/20 05:34	11/14/20 05:43	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1577258	1	11/17/20 18:56	11/18/20 04:24	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1576013	1	11/12/20 15:14	11/13/20 20:17	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1576036	1	11/12/20 15:14	11/16/20 01:11	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1576945	1	11/15/20 16:51	11/16/20 10:03	JN	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Erica McNeese
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.2		1	11/14/2020 01:59	WG1575506

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	177		10.3	22.4	1	11/16/2020 23:30	WG1577250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0243	0.112	1	11/14/2020 02:16	WG1575928
(S) a,a,a-Trifluorotoluene(FID)	*112*			*77.0-120*		*11/14/2020 02:16*	WG1575928

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000580	0.00124	1	11/13/2020 23:15	WG1575965
Toluene	U		0.00161	0.00621	1	11/13/2020 23:15	WG1575965
Ethylbenzene	U		0.000915	0.00310	1	11/13/2020 23:15	WG1575965
Total Xylenes	U		0.00109	0.00807	1	11/13/2020 23:15	WG1575965
(S) Toluene-d8	*110*			*75.0-131*		*11/13/2020 23:15*	WG1575965
(S) 4-Bromofluorobenzene	*85.0*			*67.0-138*		*11/13/2020 23:15*	WG1575965
(S) 1,2-Dichloroethane-d4	*95.4*			*70.0-130*		*11/13/2020 23:15*	WG1575965

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.39	B J	1.80	4.48	1	11/17/2020 03:19	WG1576774
C28-C40 Oil Range	12.6	B	0.307	4.48	1	11/17/2020 03:19	WG1576774
(S) o-Terphenyl	*67.1*			*18.0-148*		*11/17/2020 03:19*	WG1576774

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.6		1	11/14/2020 01:59	WG1575506

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	2580		107	234	10	11/16/2020 23:39	WG1577250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0254	0.117	1	11/14/2020 02:37	WG1575928
(S) a,a,a-Trifluorotoluene(FID)	*110*			*77.0-120*		*11/14/2020 02:37*	WG1575928

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000624	0.00134	1	11/13/2020 23:34	WG1575965
Toluene	U		0.00174	0.00669	1	11/13/2020 23:34	WG1575965
Ethylbenzene	U		0.000985	0.00334	1	11/13/2020 23:34	WG1575965
Total Xylenes	U		0.00118	0.00869	1	11/13/2020 23:34	WG1575965
(S) Toluene-d8	*92.8*			*75.0-131*		*11/13/2020 23:34*	WG1575965
(S) 4-Bromofluorobenzene	*79.4*			*67.0-138*		*11/13/2020 23:34*	WG1575965
(S) 1,2-Dichloroethane-d4	*98.6*			*70.0-130*		*11/13/2020 23:34*	WG1575965

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.88	4.67	1	11/17/2020 03:58	WG1576774
C28-C40 Oil Range	4.59	B J	0.320	4.67	1	11/17/2020 03:58	WG1576774
(S) o-Terphenyl	*66.8*			*18.0-148*		*11/17/2020 03:58*	WG1576774

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.5		1	11/14/2020 01:59	WG1575506

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	973		50.8	110	5	11/16/2020 23:49	WG1577250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0240	0.110	1	11/14/2020 02:58	WG1575928
(S) a,a,a-Trifluorotoluene(FID)	*110*			*77.0-120*		*11/14/2020 02:58*	WG1575928

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000565	0.00121	1	11/13/2020 23:53	WG1575965
Toluene	U		0.00157	0.00605	1	11/13/2020 23:53	WG1575965
Ethylbenzene	U		0.000891	0.00302	1	11/13/2020 23:53	WG1575965
Total Xylenes	U		0.00106	0.00786	1	11/13/2020 23:53	WG1575965
(S) Toluene-d8	*109*			*75.0-131*		*11/13/2020 23:53*	WG1575965
(S) 4-Bromofluorobenzene	*88.4*			*67.0-138*		*11/13/2020 23:53*	WG1575965
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*11/13/2020 23:53*	WG1575965

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.78	4.42	1	11/17/2020 04:10	WG1576774
C28-C40 Oil Range	2.15	B J	0.303	4.42	1	11/17/2020 04:10	WG1576774
(S) o-Terphenyl	*56.9*			*18.0-148*		*11/17/2020 04:10*	WG1576774

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.9		1	11/14/2020 01:59	WG1575506

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	653		10.2	22.2	1	11/17/2020 00:08	WG1577250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0241	0.111	1	11/14/2020 03:19	WG1575928
(S) a,a,a-Trifluorotoluene(FID)	*108*			*77.0-120*		*11/14/2020 03:19*	WG1575928

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000572	0.00122	1	11/14/2020 00:12	WG1575965
Toluene	U		0.00159	0.00612	1	11/14/2020 00:12	WG1575965
Ethylbenzene	U		0.000903	0.00306	1	11/14/2020 00:12	WG1575965
Total Xylenes	U		0.00108	0.00796	1	11/14/2020 00:12	WG1575965
(S) Toluene-d8	*112*			*75.0-131*		*11/14/2020 00:12*	WG1575965
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*11/14/2020 00:12*	WG1575965
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*11/14/2020 00:12*	WG1575965

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.79	4.45	1	11/17/2020 04:23	WG1576774
C28-C40 Oil Range	1.35	B J	0.305	4.45	1	11/17/2020 04:23	WG1576774
(S) o-Terphenyl	*56.0*			*18.0-148*		*11/17/2020 04:23*	WG1576774

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.1		1	11/14/2020 01:59	WG1575506

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	53.0		10.4	22.7	1	11/17/2020 00:17	WG1577250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0246	0.113	1	11/14/2020 03:40	WG1575928
(S) a,a,a-Trifluorotoluene(FID)	*104*			*77.0-120*		*11/14/2020 03:40*	WG1575928

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000593	0.00127	1	11/14/2020 00:31	WG1575965
Toluene	U		0.00165	0.00635	1	11/14/2020 00:31	WG1575965
Ethylbenzene	U		0.000935	0.00317	1	11/14/2020 00:31	WG1575965
Total Xylenes	U		0.00112	0.00825	1	11/14/2020 00:31	WG1575965
(S) Toluene-d8	*127*			*75.0-131*		*11/14/2020 00:31*	WG1575965
(S) 4-Bromofluorobenzene	*92.8*			*67.0-138*		*11/14/2020 00:31*	WG1575965
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*11/14/2020 00:31*	WG1575965

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.83	4.54	1	11/17/2020 04:35	WG1576774
C28-C40 Oil Range	1.97	B J	0.311	4.54	1	11/17/2020 04:35	WG1576774
(S) o-Terphenyl	*67.1*			*18.0-148*		*11/17/2020 04:35*	WG1576774

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.2		1	11/14/2020 01:59	WG1575506

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		10.8	23.5	1	11/17/2020 01:05	WG1577250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0255	0.117	1	11/14/2020 04:01	WG1575928
(S) a,a,a-Trifluorotoluene(FID)	*108*			*77.0-120*		*11/14/2020 04:01*	WG1575928

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000629	0.00135	1	11/14/2020 00:50	WG1575965
Toluene	U		0.00175	0.00673	1	11/14/2020 00:50	WG1575965
Ethylbenzene	U		0.000993	0.00337	1	11/14/2020 00:50	WG1575965
Total Xylenes	U		0.00119	0.00875	1	11/14/2020 00:50	WG1575965
(S) Toluene-d8	*103*			*75.0-131*		*11/14/2020 00:50*	WG1575965
(S) 4-Bromofluorobenzene	*82.6*			*67.0-138*		*11/14/2020 00:50*	WG1575965
(S) 1,2-Dichloroethane-d4	*96.2*			*70.0-130*		*11/14/2020 00:50*	WG1575965

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.89	4.69	1	11/17/2020 04:48	WG1576774
C28-C40 Oil Range	2.11	B J	0.321	4.69	1	11/17/2020 04:48	WG1576774
(S) o-Terphenyl	*66.9*			*18.0-148*		*11/17/2020 04:48*	WG1576774

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.2		1	11/13/2020 05:50	WG1575862

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	14.2	J	10.3	22.4	1	11/17/2020 01:14	WG1577250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0591	B J	0.0243	0.112	1	11/14/2020 04:22	WG1575928
(S) a,a,a-Trifluorotoluene(FID)	*110*			*77.0-120*		*11/14/2020 04:22*	WG1575928

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000580	0.00124	1	11/14/2020 01:09	WG1575965
Toluene	U		0.00161	0.00621	1	11/14/2020 01:09	WG1575965
Ethylbenzene	U		0.000916	0.00311	1	11/14/2020 01:09	WG1575965
Total Xylenes	U		0.00109	0.00807	1	11/14/2020 01:09	WG1575965
(S) Toluene-d8	*112*			*75.0-131*		*11/14/2020 01:09*	WG1575965
(S) 4-Bromofluorobenzene	*92.2*			*67.0-138*		*11/14/2020 01:09*	WG1575965
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*11/14/2020 01:09*	WG1575965

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.80	4.48	1	11/17/2020 05:01	WG1576774
C28-C40 Oil Range	0.952	B J	0.307	4.48	1	11/17/2020 05:01	WG1576774
(S) o-Terphenyl	*54.7*			*18.0-148*		*11/17/2020 05:01*	WG1576774

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.3		1	11/13/2020 05:50	WG1575862

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	932		51.5	112	5	11/17/2020 01:24	WG1577250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0243	0.112	1	11/14/2020 04:43	WG1575928
(S) a,a,a-Trifluorotoluene(FID)	*108*			*77.0-120*		*11/14/2020 04:43*	WG1575928

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000579	0.00124	1	11/14/2020 01:28	WG1575965
Toluene	U		0.00161	0.00620	1	11/14/2020 01:28	WG1575965
Ethylbenzene	0.00182	J	0.000914	0.00310	1	11/14/2020 01:28	WG1575965
Total Xylenes	0.0161		0.00109	0.00806	1	11/14/2020 01:28	WG1575965
(S) Toluene-d8	*104*			*75.0-131*		*11/14/2020 01:28*	WG1575965
(S) 4-Bromofluorobenzene	*94.0*			*67.0-138*		*11/14/2020 01:28*	WG1575965
(S) 1,2-Dichloroethane-d4	*97.0*			*70.0-130*		*11/14/2020 01:28*	WG1575965

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	5.70	B	1.80	4.48	1	11/17/2020 05:14	WG1576774
C28-C40 Oil Range	14.4	B	0.307	4.48	1	11/17/2020 05:14	WG1576774
(S) o-Terphenyl	*53.5*			*18.0-148*		*11/17/2020 05:14*	WG1576774

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.2		1	11/14/2020 06:03	WG1576092

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1610		104	227	10	11/17/2020 01:33	WG1577250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0246	0.113	1	11/14/2020 05:04	WG1575928
(S) a,a,a-Trifluorotoluene(FID)	*107*			*77.0-120*		*11/14/2020 05:04*	WG1575928

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000592	0.00127	1	11/14/2020 01:47	WG1575965
Toluene	U		0.00165	0.00634	1	11/14/2020 01:47	WG1575965
Ethylbenzene	U		0.000934	0.00317	1	11/14/2020 01:47	WG1575965
Total Xylenes	U		0.00112	0.00824	1	11/14/2020 01:47	WG1575965
(S) Toluene-d8	*99.5*			*75.0-131*		*11/14/2020 01:47*	WG1575965
(S) 4-Bromofluorobenzene	*82.8*			*67.0-138*		*11/14/2020 01:47*	WG1575965
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*11/14/2020 01:47*	WG1575965

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.38	B J	1.83	4.54	1	11/17/2020 05:26	WG1576774
C28-C40 Oil Range	10.4	B	0.311	4.54	1	11/17/2020 05:26	WG1576774
(S) o-Terphenyl	*65.3*			*18.0-148*		*11/17/2020 05:26*	WG1576774

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.2		1	11/14/2020 06:03	WG1576092

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	2930		103	224	10	11/17/2020 01:43	WG1577250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0243	0.112	1	11/14/2020 05:25	WG1575928
(S) a,a,a-Trifluorotoluene(FID)	*108*			*77.0-120*		*11/14/2020 05:25*	WG1575928

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000580	0.00124	1	11/14/2020 02:05	WG1575965
Toluene	U		0.00162	0.00621	1	11/14/2020 02:05	WG1575965
Ethylbenzene	U		0.000916	0.00311	1	11/14/2020 02:05	WG1575965
Total Xylenes	0.00137	J	0.00109	0.00808	1	11/14/2020 02:05	WG1575965
(S) Toluene-d8	*92.4*			*75.0-131*		*11/14/2020 02:05*	WG1575965
(S) 4-Bromofluorobenzene	*84.1*			*67.0-138*		*11/14/2020 02:05*	WG1575965
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*11/14/2020 02:05*	WG1575965

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.82	B J	1.80	4.48	1	11/17/2020 07:24	WG1576774
C28-C40 Oil Range	11.8	B	0.307	4.48	1	11/17/2020 07:24	WG1576774
(S) o-Terphenyl	*60.2*			*18.0-148*		*11/17/2020 07:24*	WG1576774

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.1		1	11/14/2020 06:03	WG1576092

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	3870		107	232	10	11/17/2020 01:52	WG1577250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0252	0.116	1	11/14/2020 05:45	WG1575928
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*		*11/14/2020 05:45*	WG1575928

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000618	0.00132	1	11/14/2020 04:57	WG1575968
Toluene	U		0.00172	0.00662	1	11/14/2020 04:57	WG1575968
Ethylbenzene	U		0.000976	0.00331	1	11/14/2020 04:57	WG1575968
Total Xylenes	U		0.00116	0.00860	1	11/14/2020 04:57	WG1575968
(S) Toluene-d8	*98.9*			*75.0-131*		*11/14/2020 04:57*	WG1575968
(S) 4-Bromofluorobenzene	*83.2*			*67.0-138*		*11/14/2020 04:57*	WG1575968
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*11/14/2020 04:57*	WG1575968

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.23	J	1.87	4.65	1	11/15/2020 15:44	WG1576785
C28-C40 Oil Range	7.11		0.318	4.65	1	11/15/2020 15:44	WG1576785
(S) o-Terphenyl	*56.7*			*18.0-148*		*11/15/2020 15:44*	WG1576785

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.6		1	11/14/2020 06:03	WG1576092

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1720		53.1	115	5	11/17/2020 02:02	WG1577250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0251	0.115	1	11/14/2020 06:06	WG1575928
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*		*11/14/2020 06:06*	WG1575928

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000611	0.00131	1	11/14/2020 05:16	WG1575968
Toluene	U		0.00170	0.00655	1	11/14/2020 05:16	WG1575968
Ethylbenzene	U		0.000965	0.00327	1	11/14/2020 05:16	WG1575968
Total Xylenes	U		0.00115	0.00851	1	11/14/2020 05:16	WG1575968
(S) Toluene-d8	*111*			*75.0-131*		*11/14/2020 05:16*	WG1575968
(S) 4-Bromofluorobenzene	*88.8*			*67.0-138*		*11/14/2020 05:16*	WG1575968
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*11/14/2020 05:16*	WG1575968

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.86	4.62	1	11/16/2020 06:12	WG1576785
C28-C40 Oil Range	1.47	J	0.316	4.62	1	11/16/2020 06:12	WG1576785
(S) o-Terphenyl	*56.5*			*18.0-148*		*11/16/2020 06:12*	WG1576785

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.7		1	11/14/2020 06:03	WG1576092

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	43.8		10.5	22.8	1	11/17/2020 02:11	WG1577250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0248	0.114	1	11/14/2020 06:27	WG1575928
(S) a,a,a-Trifluorotoluene(FID)	*106*			*77.0-120*		*11/14/2020 06:27*	WG1575928

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000598	0.00128	1	11/14/2020 05:35	WG1575968
Toluene	U		0.00167	0.00641	1	11/14/2020 05:35	WG1575968
Ethylbenzene	U		0.000944	0.00320	1	11/14/2020 05:35	WG1575968
Total Xylenes	U		0.00113	0.00833	1	11/14/2020 05:35	WG1575968
(S) Toluene-d8	*113*			*75.0-131*		*11/14/2020 05:35*	WG1575968
(S) 4-Bromofluorobenzene	*78.6*			*67.0-138*		*11/14/2020 05:35*	WG1575968
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*11/14/2020 05:35*	WG1575968

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.84	4.56	1	11/16/2020 06:25	WG1576785
C28-C40 Oil Range	1.19	J	0.313	4.56	1	11/16/2020 06:25	WG1576785
(S) o-Terphenyl	*61.0*			*18.0-148*		*11/16/2020 06:25*	WG1576785

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.7		1	11/14/2020 06:03	WG1576092

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	86.7		10.5	22.8	1	11/17/2020 02:21	WG1577250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0247	0.114	1	11/14/2020 06:49	WG1575928
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*		*11/14/2020 06:49*	WG1575928

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000598	0.00128	1	11/14/2020 05:54	WG1575968
Toluene	U		0.00166	0.00640	1	11/14/2020 05:54	WG1575968
Ethylbenzene	U		0.000944	0.00320	1	11/14/2020 05:54	WG1575968
Total Xylenes	U		0.00113	0.00832	1	11/14/2020 05:54	WG1575968
(S) Toluene-d8	*112*			*75.0-131*		*11/14/2020 05:54*	WG1575968
(S) 4-Bromofluorobenzene	*95.3*			*67.0-138*		*11/14/2020 05:54*	WG1575968
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*11/14/2020 05:54*	WG1575968

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.84	4.56	1	11/16/2020 06:38	WG1576785
C28-C40 Oil Range	0.626	J	0.312	4.56	1	11/16/2020 06:38	WG1576785
(S) o-Terphenyl	*65.1*			*18.0-148*		*11/16/2020 06:38*	WG1576785

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.8		1	11/14/2020 06:03	WG1576092

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	41.1		10.1	22.0	1	11/17/2020 02:30	WG1577250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0468	B J	0.0239	0.110	1	11/14/2020 07:10	WG1575928
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*		*11/14/2020 07:10*	WG1575928

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000561	0.00120	1	11/14/2020 06:13	WG1575968
Toluene	U		0.00156	0.00601	1	11/14/2020 06:13	WG1575968
Ethylbenzene	U		0.000886	0.00301	1	11/14/2020 06:13	WG1575968
Total Xylenes	U		0.00106	0.00781	1	11/14/2020 06:13	WG1575968
(S) Toluene-d8	*111*			*75.0-131*		*11/14/2020 06:13*	WG1575968
(S) 4-Bromofluorobenzene	*96.6*			*67.0-138*		*11/14/2020 06:13*	WG1575968
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*11/14/2020 06:13*	WG1575968

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.23	J	1.77	4.40	1	11/16/2020 07:05	WG1576785
C28-C40 Oil Range	12.6		0.302	4.40	1	11/16/2020 07:05	WG1576785
(S) o-Terphenyl	*65.3*			*18.0-148*		*11/16/2020 07:05*	WG1576785

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.2		1	11/14/2020 06:03	WG1576092

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	182		10.3	22.4	1	11/17/2020 02:59	WG1577250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0330	B J J3	0.0243	0.112	1	11/14/2020 07:31	WG1575928
(S) a,a,a-Trifluorotoluene(FID)	*108*			*77.0-120*		*11/14/2020 07:31*	WG1575928

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000580	0.00124	1	11/14/2020 06:32	WG1575968
Toluene	U		0.00162	0.00621	1	11/14/2020 06:32	WG1575968
Ethylbenzene	U		0.000916	0.00311	1	11/14/2020 06:32	WG1575968
Total Xylenes	U		0.00109	0.00808	1	11/14/2020 06:32	WG1575968
(S) Toluene-d8	*108*			*75.0-131*		*11/14/2020 06:32*	WG1575968
(S) 4-Bromofluorobenzene	*90.5*			*67.0-138*		*11/14/2020 06:32*	WG1575968
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*11/14/2020 06:32*	WG1575968

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.81	4.48	1	11/16/2020 07:36	WG1576785
C28-C40 Oil Range	1.77	J	0.307	4.48	1	11/16/2020 07:36	WG1576785
(S) o-Terphenyl	*60.3*			*18.0-148*		*11/16/2020 07:36*	WG1576785

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.3		1	11/14/2020 06:03	WG1576092

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	50.8		10.4	22.7	1	11/17/2020 03:08	WG1577250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0682	B J	0.0246	0.113	1	11/13/2020 14:13	WG1576013
(S) a,a,a-Trifluorotoluene(FID)	*80.4*			*77.0-120*		*11/13/2020 14:13*	WG1576013

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000591	0.00127	1	11/14/2020 06:51	WG1575968
Toluene	U		0.00165	0.00633	1	11/14/2020 06:51	WG1575968
Ethylbenzene	U		0.000933	0.00316	1	11/14/2020 06:51	WG1575968
Total Xylenes	U		0.00111	0.00823	1	11/14/2020 06:51	WG1575968
(S) Toluene-d8	*103*			*75.0-131*		*11/14/2020 06:51*	WG1575968
(S) 4-Bromofluorobenzene	*94.4*			*67.0-138*		*11/14/2020 06:51*	WG1575968
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*11/14/2020 06:51*	WG1575968

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.82	4.53	1	11/16/2020 07:49	WG1576785
C28-C40 Oil Range	1.81	J	0.310	4.53	1	11/16/2020 07:49	WG1576785
(S) o-Terphenyl	*62.9*			*18.0-148*		*11/16/2020 07:49*	WG1576785

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.2		1	11/14/2020 06:03	WG1576092

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	36.3		10.6	22.9	1	11/17/2020 03:18	WG1577250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0406	B J	0.0249	0.115	1	11/13/2020 14:36	WG1576013
(S) a,a,a-Trifluorotoluene(FID)	*78.0*			*77.0-120*		*11/13/2020 14:36*	WG1576013

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000604	0.00129	1	11/14/2020 07:10	WG1575968
Toluene	U		0.00168	0.00647	1	11/14/2020 07:10	WG1575968
Ethylbenzene	U		0.000954	0.00324	1	11/14/2020 07:10	WG1575968
Total Xylenes	U		0.00114	0.00841	1	11/14/2020 07:10	WG1575968
(S) Toluene-d8	*112*			*75.0-131*		*11/14/2020 07:10*	WG1575968
(S) 4-Bromofluorobenzene	*98.3*			*67.0-138*		*11/14/2020 07:10*	WG1575968
(S) 1,2-Dichloroethane-d4	*99.2*			*70.0-130*		*11/14/2020 07:10*	WG1575968

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.85	4.59	1	11/15/2020 15:05	WG1576785
C28-C40 Oil Range	2.14	J	0.314	4.59	1	11/15/2020 15:05	WG1576785
(S) o-Terphenyl	*70.4*			*18.0-148*		*11/15/2020 15:05*	WG1576785

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.8		1	11/14/2020 05:53	WG1576093

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	16.6	J	10.2	22.3	1	11/17/2020 03:28	WG1577250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0310	B J	0.0242	0.111	1	11/13/2020 14:59	WG1576013
(S) a,a,a-Trifluorotoluene(FID)	*82.5*			*77.0-120*		*11/13/2020 14:59*	WG1576013

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000573	0.00123	1	11/14/2020 07:29	WG1575968
Toluene	U		0.00160	0.00614	1	11/14/2020 07:29	WG1575968
Ethylbenzene	U		0.000905	0.00307	1	11/14/2020 07:29	WG1575968
Total Xylenes	U		0.00108	0.00798	1	11/14/2020 07:29	WG1575968
(S) Toluene-d8	*118*			*75.0-131*		*11/14/2020 07:29*	WG1575968
(S) 4-Bromofluorobenzene	*90.3*			*67.0-138*		*11/14/2020 07:29*	WG1575968
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*11/14/2020 07:29*	WG1575968

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.79	4.45	1	11/16/2020 06:52	WG1576785
C28-C40 Oil Range	0.634	J	0.305	4.45	1	11/16/2020 06:52	WG1576785
(S) o-Terphenyl	*45.7*			*18.0-148*		*11/16/2020 06:52*	WG1576785

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.7		1	11/14/2020 05:53	WG1576093

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	11.1	J	10.4	22.6	1	11/17/2020 03:37	WG1577250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0254	B J	0.0245	0.113	1	11/13/2020 15:22	WG1576013
(S) a,a,a-Trifluorotoluene(FID)	*79.7*			*77.0-120*		*11/13/2020 15:22*	WG1576013

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000587	0.00126	1	11/14/2020 07:48	WG1575968
Toluene	U		0.00163	0.00628	1	11/14/2020 07:48	WG1575968
Ethylbenzene	U		0.000926	0.00314	1	11/14/2020 07:48	WG1575968
Total Xylenes	U		0.00111	0.00816	1	11/14/2020 07:48	WG1575968
(S) Toluene-d8	*97.9*			*75.0-131*		*11/14/2020 07:48*	WG1575968
(S) 4-Bromofluorobenzene	*84.8*			*67.0-138*		*11/14/2020 07:48*	WG1575968
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*11/14/2020 07:48*	WG1575968

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.82	4.51	1	11/16/2020 07:23	WG1576785
C28-C40 Oil Range	0.497	J	0.309	4.51	1	11/16/2020 07:23	WG1576785
(S) o-Terphenyl	*56.3*			*18.0-148*		*11/16/2020 07:23*	WG1576785

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.4		1	11/14/2020 05:53	WG1576093

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	2360		105	229	10	11/19/2020 22:40	WG1579461

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0248	0.114	1	11/13/2020 15:57	WG1576013
(S) a,a,a-Trifluorotoluene(FID)	*78.3*			*77.0-120*		*11/13/2020 15:57*	WG1576013

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000602	0.00129	1	11/14/2020 08:07	WG1575968
Toluene	U		0.00168	0.00644	1	11/14/2020 08:07	WG1575968
Ethylbenzene	U		0.000950	0.00322	1	11/14/2020 08:07	WG1575968
Total Xylenes	U		0.00113	0.00838	1	11/14/2020 08:07	WG1575968
(S) Toluene-d8	*108*			*75.0-131*		*11/14/2020 08:07*	WG1575968
(S) 4-Bromofluorobenzene	*89.9*			*67.0-138*		*11/14/2020 08:07*	WG1575968
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*11/14/2020 08:07*	WG1575968

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.51	J	1.84	4.58	1	11/16/2020 11:27	WG1576785
C28-C40 Oil Range	11.2		0.313	4.58	1	11/16/2020 11:27	WG1576785
(S) o-Terphenyl	*69.6*			*18.0-148*		*11/16/2020 11:27*	WG1576785

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.2		1	11/14/2020 05:53	WG1576093

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	4130		111	240	10	11/18/2020 00:10	WG1577258

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0261	0.120	1	11/13/2020 16:20	WG1576013
(S) a,a,a-Trifluorotoluene(FID)	*77.3*			*77.0-120*		*11/13/2020 16:20*	WG1576013

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000655	0.00140	1	11/14/2020 08:26	WG1575968
Toluene	U		0.00182	0.00701	1	11/14/2020 08:26	WG1575968
Ethylbenzene	U		0.00103	0.00351	1	11/14/2020 08:26	WG1575968
Total Xylenes	U		0.00123	0.00912	1	11/14/2020 08:26	WG1575968
(S) Toluene-d8	*109*			*75.0-131*		*11/14/2020 08:26*	WG1575968
(S) 4-Bromofluorobenzene	*97.8*			*67.0-138*		*11/14/2020 08:26*	WG1575968
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*11/14/2020 08:26*	WG1575968

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.93	4.81	1	11/16/2020 12:03	WG1576785
C28-C40 Oil Range	9.13		0.329	4.81	1	11/16/2020 12:03	WG1576785
(S) o-Terphenyl	*70.9*			*18.0-148*		*11/16/2020 12:03*	WG1576785

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.4		1	11/14/2020 05:53	WG1576093

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	5650		110	240	10	11/18/2020 00:27	WG1577258

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0260	0.120	1	11/13/2020 16:43	WG1576013
(S) a,a,a-Trifluorotoluene(FID)	*78.5*			*77.0-120*		*11/13/2020 16:43*	WG1576013

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000653	0.00140	1	11/14/2020 08:45	WG1575968
Toluene	U		0.00182	0.00699	1	11/14/2020 08:45	WG1575968
Ethylbenzene	U		0.00103	0.00350	1	11/14/2020 08:45	WG1575968
Total Xylenes	U		0.00123	0.00909	1	11/14/2020 08:45	WG1575968
(S) Toluene-d8	*111*			*75.0-131*		*11/14/2020 08:45*	WG1575968
(S) 4-Bromofluorobenzene	*94.3*			*67.0-138*		*11/14/2020 08:45*	WG1575968
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*11/14/2020 08:45*	WG1575968

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.93	4.80	1	11/16/2020 08:08	WG1576785
C28-C40 Oil Range	2.23	J	0.329	4.80	1	11/16/2020 08:08	WG1576785
(S) o-Terphenyl	*52.3*			*18.0-148*		*11/16/2020 08:08*	WG1576785

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.0		1	11/14/2020 05:53	WG1576093

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	5090		110	238	10	11/18/2020 00:44	WG1577258

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0258	0.119	1	11/13/2020 17:06	WG1576013
(S) a,a,a-Trifluorotoluene(FID)	*77.6*			*77.0-120*		*11/13/2020 17:06*	WG1576013

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000672	0.00144	1.05	11/14/2020 09:04	WG1575968
Toluene	U		0.00187	0.00720	1.05	11/14/2020 09:04	WG1575968
Ethylbenzene	U		0.00106	0.00361	1.05	11/14/2020 09:04	WG1575968
Total Xylenes	U		0.00127	0.00937	1.05	11/14/2020 09:04	WG1575968
(S) Toluene-d8	*94.8*			*75.0-131*		*11/14/2020 09:04*	WG1575968
(S) 4-Bromofluorobenzene	*92.8*			*67.0-138*		*11/14/2020 09:04*	WG1575968
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*11/14/2020 09:04*	WG1575968

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.92	4.76	1	11/16/2020 08:21	WG1576785
C28-C40 Oil Range	1.67	J	0.326	4.76	1	11/16/2020 08:21	WG1576785
(S) o-Terphenyl	*56.4*			*18.0-148*		*11/16/2020 08:21*	WG1576785

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.5		1	11/14/2020 05:53	WG1576093

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1970		53.2	116	5	11/18/2020 02:08	WG1577258

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0251	0.116	1	11/13/2020 17:29	WG1576013
(S) a,a,a-Trifluorotoluene(FID)	*79.0*			*77.0-120*		*11/13/2020 17:29*	WG1576013

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000613	0.00131	1	11/14/2020 09:23	WG1575968
Toluene	U		0.00171	0.00657	1	11/14/2020 09:23	WG1575968
Ethylbenzene	U		0.000968	0.00328	1	11/14/2020 09:23	WG1575968
Total Xylenes	U		0.00116	0.00854	1	11/14/2020 09:23	WG1575968
(S) Toluene-d8	*120*			*75.0-131*		*11/14/2020 09:23*	WG1575968
(S) 4-Bromofluorobenzene	*84.9*			*67.0-138*		*11/14/2020 09:23*	WG1575968
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*11/14/2020 09:23*	WG1575968

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.86	4.63	1	11/16/2020 08:34	WG1576785
C28-C40 Oil Range	1.97	J	0.317	4.63	1	11/16/2020 08:34	WG1576785
(S) o-Terphenyl	*66.0*			*18.0-148*		*11/16/2020 08:34*	WG1576785

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.3		1	11/14/2020 05:53	WG1576093

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	271		11.3	24.6	1	11/18/2020 02:59	WG1577258

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0267	0.123	1	11/13/2020 17:59	WG1576013
(S) a,a,a-Trifluorotoluene(FID)	*79.2*			*77.0-120*		*11/13/2020 17:59*	WG1576013

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000682	0.00146	1	11/14/2020 09:42	WG1575968
Toluene	U		0.00190	0.00730	1	11/14/2020 09:42	WG1575968
Ethylbenzene	U		0.00108	0.00365	1	11/14/2020 09:42	WG1575968
Total Xylenes	U		0.00128	0.00949	1	11/14/2020 09:42	WG1575968
(S) Toluene-d8	*133*	J1		*75.0-131*		*11/14/2020 09:42*	WG1575968
(S) 4-Bromofluorobenzene	*99.6*			*67.0-138*		*11/14/2020 09:42*	WG1575968
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*11/14/2020 09:42*	WG1575968

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.98	4.92	1	11/16/2020 08:47	WG1576785
C28-C40 Oil Range	1.62	J	0.337	4.92	1	11/16/2020 08:47	WG1576785
(S) o-Terphenyl	*61.6*			*18.0-148*		*11/16/2020 08:47*	WG1576785

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.8		1	11/14/2020 05:53	WG1576093

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	20.7	J	10.0	21.8	1	11/18/2020 03:16	WG1577258

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0236	0.109	1	11/13/2020 18:22	WG1576013
(S) a,a,a-Trifluorotoluene(FID)	*78.9*			*77.0-120*		*11/13/2020 18:22*	WG1576013

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000550	0.00118	1	11/14/2020 10:01	WG1575968
Toluene	U		0.00153	0.00589	1	11/14/2020 10:01	WG1575968
Ethylbenzene	U		0.000868	0.00295	1	11/14/2020 10:01	WG1575968
Total Xylenes	U		0.00104	0.00766	1	11/14/2020 10:01	WG1575968
(S) Toluene-d8	*111*			*75.0-131*		*11/14/2020 10:01*	WG1575968
(S) 4-Bromofluorobenzene	*93.7*			*67.0-138*		*11/14/2020 10:01*	WG1575968
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*11/14/2020 10:01*	WG1575968

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.75	4.36	1	11/16/2020 09:01	WG1576785
C28-C40 Oil Range	0.418	J	0.298	4.36	1	11/16/2020 09:01	WG1576785
(S) o-Terphenyl	*63.6*			*18.0-148*		*11/16/2020 09:01*	WG1576785

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.4		1	11/14/2020 05:53	WG1576093

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	12.0	J	10.1	21.9	1	11/18/2020 03:33	WG1577258

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0238	0.109	1	11/13/2020 18:45	WG1576013
(S) a,a,a-Trifluorotoluene(FID)	*78.3*			*77.0-120*		*11/13/2020 18:45*	WG1576013

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000556	0.00119	1	11/14/2020 10:20	WG1575968
Toluene	U		0.00155	0.00595	1	11/14/2020 10:20	WG1575968
Ethylbenzene	U		0.000877	0.00297	1	11/14/2020 10:20	WG1575968
Total Xylenes	U		0.00105	0.00773	1	11/14/2020 10:20	WG1575968
(S) Toluene-d8	*123*			*75.0-131*		*11/14/2020 10:20*	WG1575968
(S) 4-Bromofluorobenzene	*99.6*			*67.0-138*		*11/14/2020 10:20*	WG1575968
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*11/14/2020 10:20*	WG1575968

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.99	J	1.76	4.38	1	11/16/2020 09:14	WG1576785
C28-C40 Oil Range	14.6		0.300	4.38	1	11/16/2020 09:14	WG1576785
(S) o-Terphenyl	*77.1*			*18.0-148*		*11/16/2020 09:14*	WG1576785

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.7		1	11/14/2020 05:43	WG1576094

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	31.1		10.1	22.0	1	11/18/2020 03:50	WG1577258

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0239	0.110	1	11/13/2020 19:08	WG1576013
(S) a,a,a-Trifluorotoluene(FID)	*79.2*			*77.0-120*		*11/13/2020 19:08*	WG1576013

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000563	0.00121	1	11/14/2020 10:39	WG1575968
Toluene	U		0.00157	0.00603	1	11/14/2020 10:39	WG1575968
Ethylbenzene	U		0.000888	0.00301	1	11/14/2020 10:39	WG1575968
Total Xylenes	U		0.00106	0.00783	1	11/14/2020 10:39	WG1575968
(S) Toluene-d8	*125*			*75.0-131*		*11/14/2020 10:39*	WG1575968
(S) 4-Bromofluorobenzene	*111*			*67.0-138*		*11/14/2020 10:39*	WG1575968
(S) 1,2-Dichloroethane-d4	*99.7*			*70.0-130*		*11/14/2020 10:39*	WG1575968

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.77	4.41	1	11/16/2020 11:13	WG1576785
C28-C40 Oil Range	5.03		0.302	4.41	1	11/16/2020 11:13	WG1576785
(S) o-Terphenyl	*60.4*			*18.0-148*		*11/16/2020 11:13*	WG1576785

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.7		1	11/14/2020 05:43	WG1576094

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	17.0	J	10.0	21.8	1	11/19/2020 22:56	WG1579461

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0976	B J	0.0237	0.109	1	11/13/2020 19:31	WG1576013
(S) a,a,a-Trifluorotoluene(FID)	*80.3*			*77.0-120*		*11/13/2020 19:31*	WG1576013

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000551	0.00118	1	11/14/2020 10:58	WG1575968
Toluene	U		0.00153	0.00590	1	11/14/2020 10:58	WG1575968
Ethylbenzene	U		0.000870	0.00295	1	11/14/2020 10:58	WG1575968
Total Xylenes	U		0.00104	0.00767	1	11/14/2020 10:58	WG1575968
(S) Toluene-d8	*99.2*			*75.0-131*		*11/14/2020 10:58*	WG1575968
(S) 4-Bromofluorobenzene	*79.4*			*67.0-138*		*11/14/2020 10:58*	WG1575968
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*11/14/2020 10:58*	WG1575968

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.20	J	1.76	4.36	1	11/16/2020 11:45	WG1576785
C28-C40 Oil Range	19.5		0.299	4.36	1	11/16/2020 11:45	WG1576785
(S) o-Terphenyl	*62.7*			*18.0-148*		*11/16/2020 11:45*	WG1576785

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.9		1	11/14/2020 05:43	WG1576094

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	37.5		10.1	22.0	1	11/18/2020 04:07	WG1577258

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0574	B J	0.0239	0.110	1	11/13/2020 19:54	WG1576013
(S) a,a,a-Trifluorotoluene(FID)	*77.3*			*77.0-120*		*11/13/2020 19:54*	WG1576013

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000560	0.00120	1	11/16/2020 00:50	WG1576036
Toluene	0.00181	J J5	0.00156	0.00600	1	11/16/2020 00:50	WG1576036
Ethylbenzene	U		0.000884	0.00300	1	11/16/2020 00:50	WG1576036
Total Xylenes	0.00156	J	0.00106	0.00780	1	11/16/2020 00:50	WG1576036
(S) Toluene-d8	*102*			*75.0-131*		*11/16/2020 00:50*	WG1576036
(S) 4-Bromofluorobenzene	*110*			*67.0-138*		*11/16/2020 00:50*	WG1576036
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*11/16/2020 00:50*	WG1576036

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.87		1.77	4.40	1	11/16/2020 09:50	WG1576945
C28-C40 Oil Range	12.3		0.301	4.40	1	11/16/2020 09:50	WG1576945
(S) o-Terphenyl	*58.4*			*18.0-148*		*11/16/2020 09:50*	WG1576945

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.0		1	11/14/2020 05:43	WG1576094

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	400		10.3	22.5	1	11/18/2020 04:24	WG1577258

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0782	B J	0.0244	0.112	1	11/13/2020 20:17	WG1576013
(S) a,a,a-Trifluorotoluene(FID)	*77.8*			*77.0-120*		*11/13/2020 20:17*	WG1576013

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000583	0.00125	1	11/16/2020 01:11	WG1576036
Toluene	U		0.00162	0.00624	1	11/16/2020 01:11	WG1576036
Ethylbenzene	U		0.000920	0.00312	1	11/16/2020 01:11	WG1576036
Total Xylenes	0.00179	J	0.00110	0.00812	1	11/16/2020 01:11	WG1576036
(S) Toluene-d8	*102*			*75.0-131*		*11/16/2020 01:11*	WG1576036
(S) 4-Bromofluorobenzene	*110*			*67.0-138*		*11/16/2020 01:11*	WG1576036
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*11/16/2020 01:11*	WG1576036

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.81	4.50	1	11/16/2020 10:03	WG1576945
C28-C40 Oil Range	6.23		0.308	4.50	1	11/16/2020 10:03	WG1576945
(S) o-Terphenyl	*62.0*			*18.0-148*		*11/16/2020 10:03*	WG1576945

Method Blank (MB)

(MB) R3593043-1 11/14/20 01:59

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1283245-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1283245-23 11/14/20 01:59 • (DUP) R3593043-3 11/14/20 01:59

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	96.7	96.9	1	0.181		10

Laboratory Control Sample (LCS)

(LCS) R3593043-2 11/14/20 01:59

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3592791-1 11/13/20 05:50

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1284752-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1284752-14 11/13/20 05:50 • (DUP) R3592791-3 11/13/20 05:50

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	77.9	74.6	1	4.41		10

Laboratory Control Sample (LCS)

(LCS) R3592791-2 11/13/20 05:50

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3593314-1 11/14/20 06:03

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1283249-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1283249-13 11/14/20 06:03 • (DUP) R3593314-3 11/14/20 06:03

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	87.7	88.0	1	0.352		10

Laboratory Control Sample (LCS)

(LCS) R3593314-2 11/14/20 06:03

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3593311-1 11/14/20 05:53

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1283249-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1283249-23 11/14/20 05:53 • (DUP) R3593311-3 11/14/20 05:53

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	83.4	83.3	1	0.130		10

Laboratory Control Sample (LCS)

(LCS) R3593311-2 11/14/20 05:53

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3593310-1 11/14/20 05:43

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1283249-29 Original Sample (OS) • Duplicate (DUP)

(OS) L1283249-29 11/14/20 05:43 • (DUP) R3593310-3 11/14/20 05:43

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	90.7	90.6	1	0.150		10

Laboratory Control Sample (LCS)

(LCS) R3593310-2 11/14/20 05:43

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3593954-1 11/16/20 22:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1283249-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1283249-03 11/16/20 23:49 • (DUP) R3593954-3 11/16/20 23:58

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	973	948	5	2.56		20

L1283249-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1283249-20 11/17/20 03:37 • (DUP) R3593954-6 11/17/20 03:47

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	11.1	11.0	1	0.526	J	20

Laboratory Control Sample (LCS)

(LCS) R3593954-2 11/16/20 23:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	208	104	90.0-110	

L1283249-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1283249-05 11/17/20 00:17 • (MS) R3593954-4 11/17/20 00:27 • (MSD) R3593954-5 11/17/20 00:36

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	567	53.0	645	644	104	104	1	80.0-120			0.0817	20

Method Blank (MB)

(MB) R3594374-1 11/17/20 23:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1283249-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1283249-24 11/18/20 00:44 • (DUP) R3594374-3 11/18/20 01:00

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	5090	5180	10	1.83		20

L1284375-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1284375-01 11/18/20 07:13 • (DUP) R3594374-6 11/18/20 07:30

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3594374-2 11/17/20 23:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	209	104	90.0-110	

L1283249-25 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1283249-25 11/18/20 01:17 • (MS) R3594374-4 11/18/20 01:34 • (MSD) R3594374-5 11/18/20 01:51

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	578	1990	2560	2580	98.3	102	1	80.0-120	E	E	0.924	20

Method Blank (MB)

(MB) R3595959-1 11/19/20 21:26

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1284385-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1284385-01 11/19/20 23:13 • (DUP) R3595959-3 11/19/20 23:30

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		20

L1284402-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1284402-02 11/20/20 06:00 • (DUP) R3595959-6 11/20/20 06:16

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3595959-2 11/19/20 21:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	200	100	90.0-110	

L1284394-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1284394-01 11/20/20 01:45 • (MS) R3595959-4 11/20/20 02:02 • (MSD) R3595959-5 11/20/20 02:19

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	597	U	605	610	101	102	1	80.0-120			0.849	20

Method Blank (MB)

(MB) R3593196-2 11/14/20 00:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0511	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3593196-1 11/13/20 23:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.90	89.1	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*97.3*	*77.0-120*	

L1283249-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1283249-16 11/14/20 07:31 • (MS) R3593196-3 11/14/20 07:53 • (MSD) R3593196-4 11/14/20 08:14

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	6.17	0.0330	4.85	3.60	78.2	58.4	1	10.0-151		J3	29.7	28
(S) a,a,a-Trifluorotoluene(FID)					*102*	*103*		*77.0-120*				

Method Blank (MB)

(MB) R3592856-2 11/13/20 12:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0838	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*97.1*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3592856-1 11/13/20 11:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.44	98.9	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*111*	*77.0-120*	

L1283250-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1283250-02 11/13/20 21:03 • (MS) R3592856-3 11/13/20 23:33 • (MSD) R3592856-4 11/14/20 00:01

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	237	17.3	262	233	103	90.8	28.2	10.0-151			11.8	28
(S) a,a,a-Trifluorotoluene(FID)					*115*	*101*		*77.0-120*				

Method Blank (MB)

(MB) R3593185-2 11/13/20 19:18

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*113*			*75.0-131*
(S) 4-Bromofluorobenzene	*91.8*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*97.2*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3593185-1 11/13/20 18:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.134	107	70.0-123	
Ethylbenzene	0.125	0.134	107	74.0-126	
Toluene	0.125	0.134	107	75.0-121	
Xylenes, Total	0.375	0.375	100	72.0-127	
(S) Toluene-d8			*107*	*75.0-131*	
(S) 4-Bromofluorobenzene			*96.5*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*103*	*70.0-130*	

L1283239-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1283239-21 11/13/20 20:05 • (MS) R3593185-3 11/14/20 02:24 • (MSD) R3593185-4 11/14/20 02:43

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.132	U	0.0979	0.122	74.0	92.0	1	10.0-149			21.7	37
Ethylbenzene	0.132	U	0.107	0.123	80.8	92.8	1	10.0-160			13.8	38
Toluene	0.132	U	0.105	0.128	79.2	96.8	1	10.0-156			20.0	38
Xylenes, Total	0.397	U	0.331	0.389	83.5	97.9	1	10.0-160			15.9	38
(S) Toluene-d8					*110*	*113*		*75.0-131*				
(S) 4-Bromofluorobenzene					*94.4*	*107*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*103*	*102*		*70.0-130*				

Method Blank (MB)

(MB) R3593696-2 11/14/20 04:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*95.9*			*75.0-131*
(S) 4-Bromofluorobenzene	*86.4*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3593696-1 11/14/20 03:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.130	104	70.0-123	
Ethylbenzene	0.125	0.133	106	74.0-126	
Toluene	0.125	0.115	92.0	75.0-121	
Xylenes, Total	0.375	0.385	103	72.0-127	
(S) Toluene-d8			*95.7*	*75.0-131*	
(S) 4-Bromofluorobenzene			*93.4*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*110*	*70.0-130*	

L1283249-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1283249-11 11/14/20 04:57 • (MS) R3593696-3 11/14/20 11:17 • (MSD) R3593696-4 11/14/20 11:37

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.165	U	0.152	0.139	92.0	84.0	1	10.0-149			9.09	37
Ethylbenzene	0.165	U	0.155	0.151	93.6	91.2	1	10.0-160			2.60	38
Toluene	0.165	U	0.160	0.159	96.8	96.0	1	10.0-156			0.830	38
Xylenes, Total	0.496	U	0.469	0.459	94.4	92.5	1	10.0-160			2.00	38
(S) Toluene-d8					*110*	*113*		*75.0-131*				
(S) 4-Bromofluorobenzene					*96.2*	*104*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*109*	*106*		*70.0-130*				

Method Blank (MB)

(MB) R3593323-2 11/15/20 23:15

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*104*			*75.0-131*
(S) 4-Bromofluorobenzene	*109*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3593323-1 11/15/20 22:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.126	101	70.0-123	
Ethylbenzene	0.125	0.130	104	74.0-126	
Toluene	0.125	0.127	102	75.0-121	
Xylenes, Total	0.375	0.387	103	72.0-127	
(S) Toluene-d8			*101*	*75.0-131*	
(S) 4-Bromofluorobenzene			*106*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*111*	*70.0-130*	

L1283249-31 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1283249-31 11/16/20 00:50 • (MS) R3593323-3 11/16/20 07:15 • (MSD) R3593323-4 11/16/20 07:35

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.150	U	0.110	0.106	73.3	70.4	1	10.0-149			4.01	37
Ethylbenzene	0.150	U	0.152	0.144	102	96.0	1	10.0-160			5.67	38
Toluene	0.150	0.00181	0.259	0.251	172	166	1	10.0-156	J5	J5	3.29	38
Xylenes, Total	0.450	0.00156	0.600	0.565	133	125	1	10.0-160			5.97	38
(S) Toluene-d8					*101*	*102*		*75.0-131*				
(S) 4-Bromofluorobenzene					*109*	*110*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*104*	*103*		*70.0-130*				

Method Blank (MB)

(MB) R3593741-1 11/16/20 23:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	2.40	J	1.61	4.00
C28-C40 Oil Range	2.42	J	0.274	4.00
(S) o-Terphenyl	*72.2*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3593741-2 11/16/20 23:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	40.3	80.6	50.0-150	
(S) o-Terphenyl			*95.0*	*18.0-148*	

L1283249-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1283249-01 11/17/20 03:19 • (MS) R3593741-3 11/17/20 03:32 • (MSD) R3593741-4 11/17/20 03:45

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	55.2	4.39	40.9	37.8	66.2	60.8	1	50.0-150			7.98	20
(S) o-Terphenyl					*61.9*	*56.7*		*18.0-148*				

Method Blank (MB)

(MB) R3593452-1 11/15/20 14:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*62.3*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3593452-2 11/15/20 14:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	40.1	80.2	50.0-150	
(S) o-Terphenyl			*96.1*	*18.0-148*	

L1283249-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1283249-18 11/15/20 15:05 • (MS) R3593452-3 11/15/20 15:18 • (MSD) R3593452-4 11/15/20 15:31

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	56.1	U	30.3	36.0	54.0	64.1	1	50.0-150			17.3	20
(S) o-Terphenyl					*60.7*	*75.1*		*18.0-148*				

Method Blank (MB)

(MB) R3593317-1 11/15/20 21:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*129*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3593317-2 11/15/20 21:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	38.5	77.0	50.0-150	
(S) o-Terphenyl			*155*	*18.0-148*	J1

L1283241-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1283241-01 11/16/20 11:45 • (MS) R3593742-1 11/16/20 11:58 • (MSD) R3593742-2 11/16/20 12:10

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	50.1	1220	788	832	0.000	0.000	10	50.0-150	V	V	5.43	20
(S) o-Terphenyl					*217*	*220*		*18.0-148*	J1	J1		

Sample Narrative:

OS: Surrogate failure due to matrix interference

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

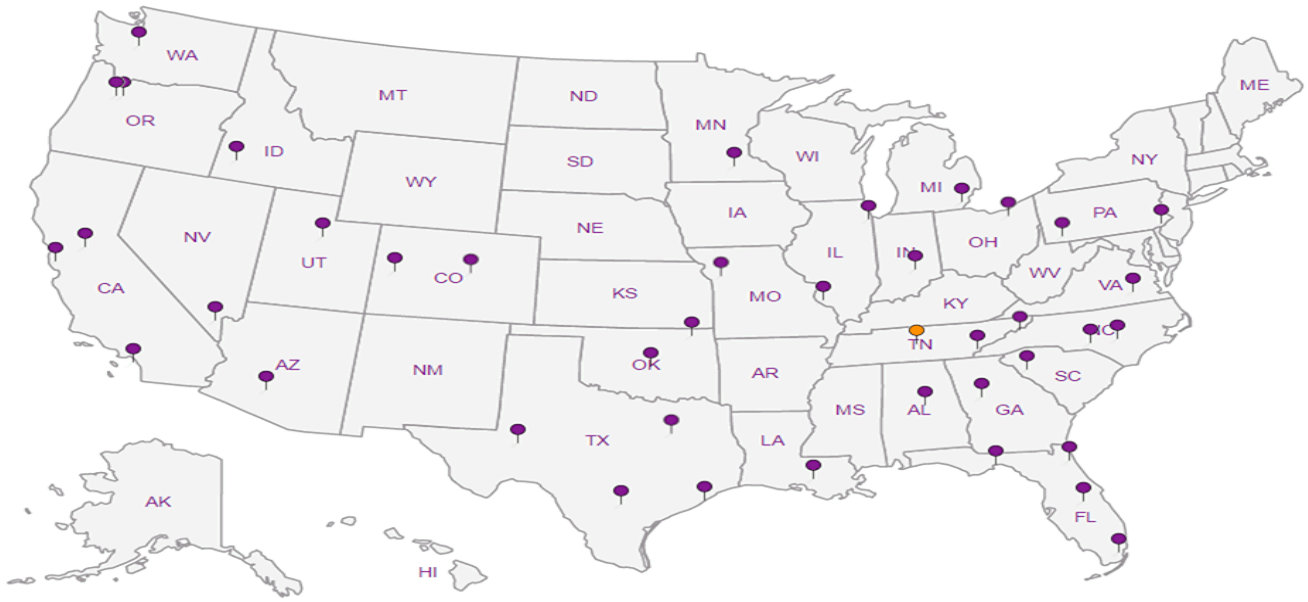
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
ConocoPhillips - Tetra Tech	212C-MD-02334	L1283249	11/23/20 12:33	61 of 67

Analysis Request of Chain of Custody Record

L1283249

Page : 1 of 4

Tetra Tech, Inc.

901 West Wall Street, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	EVGSAU Header #4 Injection Line Release (1RP-1542)	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02334, Task No. 17
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Joe Tyler
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
-01	BH-1 (0'-1')	11/03/20	1200		X			X		1	N	X		X												X					
-02	BH-1 (2'-3')	11/03/20	1210		X			X		1	N	X		X												X					
-03	BH-1 (4'-5')	11/03/20	1220		X			X		1	N	X		X												X					
-04	BH-1 (6'-7')	11/03/20	1230		X			X		1	N	X		X												X					
-05	BH-1 (9'-10')	11/03/20	1240		X			X		1	N	X		X												X					
-06	BH-1 (14'-15')	11/03/20	1250		X			X		1	N	X		X												X					
-07	BH-1 (19'-20')	11/03/20	1300		X			X		1	N	X		X												X					
-08	BH-2 (0'-1')	11/03/20	1330		X			X		1	N	X		X												X					
-09	BH-2 (2'-3')	11/03/20	1340		X			X		1	N	X		X												X					
-10	BH-2 (4'-5')	11/03/20	1350		X			X		1	N	X		X												X					

	Relinquished by:	Date:	Time:	Received by:	Date:	Time:
1	Joe Tyler	11-06-2020	14:00		11-6-20	14:00
2		11-6-20	16:30		11-6-20	16:30
3				B. Barrett	11-7-20	1030

ORIGINAL COPY

LAB USE ONLY
Sample Temperature

REMARKS:
- [X] Standard
- [ ] RUSH: Same Day 24 hr. 48 hr. 72 hr.
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 West Wall Street, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

L1203249

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	EVGSAU Header #4 Injection Line Release (1RP-1542)	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02334, Task No. 17
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Joe Tyler
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2020)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
-11	BH-2 (6'-7')	11/03/20	1400		X				X			1	N	X		X												X						
-12	BH-2 (9'-10')	11/03/20	1410		X				X			1	N	X		X												X						
-13	BH-2 (14'-15')	11/03/20	1420		X				X			1	N	X		X												X						
-14	BH-2 (19'-20')	11/03/20	1430		X				X			1	N	X		X												X						
-15	BH-3 (0'-1')	11/03/20	1500		X				X			1	N	X		X												X						
~~-16~~	BH-3 (3'-4')	11/03/20	1510		X				X			1	N	X		X												X						
-16	BH-3 (4'-5')	11/03/20	1520		X				X			1	N	X		X												X						
~~-17~~ -17	BH-3 (6'-7')	11/03/20	1530		X				X			1	N	X		X												X						
~~-18~~ -18	BH-3 (9'-10')	11/03/20	1540		X				X			1	N	X		X												X						
~~-19~~ -19	BH-3 (14'-15')	11/03/20	1550		X				X			1	N	X		X												X						

Relinquished by:	Date: 11-06-2020	Time: 14:00	Received by:
Relinquished by:	Date: 11-6-20	Time: 16:30	Received by: SwA
Relinquished by:	Date:	Time:	Received by: B. Barros

Received by:	Date: 11-6-20	Time: 14:00
Received by:	Date: 11-6-20	Time: 16:30
Received by:	Date: 11-7-20	Time: 1030

LAB USE ONLY
Sample Temperature

REMARKS:
- [X] Standard
- [ ] RUSH: Same Day 24 hr. 48 hr. 72 hr.
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Analysis Request of Chain of Custody Record

Page : 3 of 4

Tetra Tech, Inc.

901 West Wall Street, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

1283249

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	EVGSAU Header #4 Injection Line Release (1RP-1542)	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02334, Task No. 17
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Joe Tyler
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCBs 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
-20	BH-3 (19'-20')	11/03/20	1600		X				X			1	N	X		X												X						
-21	BH-4 (0'-1')	11/03/20	1630		X				X			1	N	X		X												X						
-22	BH-4 (2'-3')	11/03/20	1610		X				X			1	N	X		X												X						
-23	BH-4 (4'-5')	11/03/20	1620		X				X			1	N	X		X												X						
-24	BH-4 (6'-7')	11/03/20	1630		X				X			1	N	X		X												X						
-25	BH-4 (9'-10')	11/03/20	1640		X				X			1	N	X		X												X						
-26	BH-4 (14'-15')	11/03/20	1650		X				X			1	N	X		X												X						
-27	BH-4 (19'-20')	11/03/20	1700		X				X			1	N	X		X												X						
-28	BH-5 (0'-1')	11/03/20	1720		X				X			1	N	X		X												X						
-29	BH-5 (3'-4')	11/03/20	1740		X				X			1	N	X		X												X						

Relinquished by: Joe Tyler	Date: 11-06-2020	Time: 14:00	Received by: [signature]
Relinquished by: [signature]	Date: 11-6-20	Time: 16:30	Received by: SWA
Relinquished by:	Date:	Time:	Received by: B. Baus
	Date: 11-6-20	Time: 14:00	
	Date: 11-6-20	Time: 16:30	
	Date: 11-7-20	Time: 1036	

ORIGINAL COPY

LAB USE ONLY

Sample Temperature

REMARKS:

- [X] Standard
- [ ] RUSH: Same Day 24 hr. 48 hr. 72 hr.
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 West Wall Street, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

U283249

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	EVGSAU Header #4 Injection Line Release (1RP-1542)	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02334, Task No. 17
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Joe Tyler
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
		YEAR: 2020																															
-30	BH-6 (0'-1')	11/03/20	1800		X				X			1	N	X		X												X					
-31	BH-6 (3'-4')	11/03/20	1820		X				X			1	N	X		X												X					

Relinquished by: Joe Tyler	Date: 11-06-2020	Time: 14:00	Received by:	Date: 11-6-20	Time: 14:00
Relinquished by:	Date: 11-6-20	Time: 16:30	Received by: EVA	Date: 11-6-20	Time: 16:30
Relinquished by:	Date:	Time:	Received by: B. Barras	Date: 11-7-20	Time: 1030

ORIGINAL COPY

LAB USE ONLY

Sample Temperature

REMARKS:

- [X] Standard
- [ ] RUSH: Same Day 24 hr. 48 hr. 72 hr.
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client: COPTETRA	L1283249	
Cooler Received/Opened On: 11 / 7 / 20 Temperature:	1.8	
Received By: Billy Barras		
Signature: B. Barras		

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	✓		
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

Matt Shacklock

Pace Analytical®
National Center for Testing & Innovation

Login #: L1283249	Client: COPTETRA	Date: 11/07/2020	Evaluated by: Billy B.

Non-Conformance (check applicable items)

	Sample Integrity		Chain of Custody Clarification		
	Parameter(s) past holding time		Login Clarification Needed		**If Broken Container:**
	Temperature not in range		Chain of custody is incomplete		Insufficient packing material around container
	Improper container type		Please specify Metals requested.		Insufficient packing material inside cooler
	pH not in range.		Please specify TCLP requested.		Improper handling by carrier (FedEx / UPS / Couri
	Insufficient sample volume.		Received additional samples not listed on coc.		Sample was frozen
	Sample is biphasic.	x	Sample ids on containers do not match ids on coc		Container lid not intact
	Vials received with headspace.		Trip Blank not received.		**If no Chain of Custody:**
	Broken container		Client did not "X" analysis.		Received by:
	Broken container:		Chain of Custody is missing		Date/Time:
	Sufficient sample remains				Temp./Cont. Rec./pH:
					Carrier:
					Tracking#

Login Comments:

COC says BH (3-4') but label says BH-3 (2-3')

Client informed by:		Call		Email		Voice Mail		Date: 11/09/20	Time: 11:23
TSR Initials: CM	Client Contact:								

Login Instructions:

Log per COC.

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

November 23, 2020

ConocoPhillips - Tetra Tech

Sample Delivery Group:	L1285609
Samples Received:	11/13/2020
Project Number:	212C-MD-02334 TASK17
Description:	EVGSAU Header #4 Injection (1RP-1542)

Report To: Christian Llull
901 West Wall
Suite 100
Midland, TX 79701

Entire Report Reviewed By:

Jason Romer
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

TABLE OF CONTENTS

AH-1 (BH-7) (0-1') L1285609-01 Solid

Collected by: Adrian Garcia | Collected date/time: 11/10/20 12:00 | Received date/time: 11/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579041	1	11/20/20 04:00	11/20/20 04:08	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1578610	1	11/19/20 00:29	11/19/20 04:21	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1579747	1	11/18/20 11:18	11/20/20 18:51	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1579993	1	11/18/20 11:18	11/21/20 00:58	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1579244	1	11/19/20 22:04	11/20/20 18:11	JN	Mt. Juliet, TN

AH-1 (BH-7) (1-2') L1285609-02 Solid

Collected by: Adrian Garcia | Collected date/time: 11/10/20 12:10 | Received date/time: 11/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579041	1	11/20/20 04:00	11/20/20 04:08	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1578610	1	11/19/20 00:29	11/19/20 04:31	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1579747	1	11/18/20 11:18	11/20/20 19:11	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1579993	1	11/18/20 11:18	11/21/20 01:17	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1579244	1	11/19/20 22:04	11/20/20 17:19	JN	Mt. Juliet, TN

AH-2 (BH-8) (0-1') L1285609-03 Solid

Collected by: Adrian Garcia | Collected date/time: 11/10/20 12:20 | Received date/time: 11/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579041	1	11/20/20 04:00	11/20/20 04:08	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1578610	1	11/19/20 00:29	11/19/20 04:40	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1580518	1	11/18/20 11:18	11/21/20 20:24	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1579993	1	11/18/20 11:18	11/21/20 01:36	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1579899	1	11/20/20 17:53	11/21/20 17:27	JN	Mt. Juliet, TN

AH-2 (BH-8) (1-2') L1285609-04 Solid

Collected by: Adrian Garcia | Collected date/time: 11/10/20 12:30 | Received date/time: 11/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579041	1	11/20/20 04:00	11/20/20 04:08	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1578610	1	11/19/20 00:29	11/19/20 05:09	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1580518	1	11/18/20 11:18	11/21/20 20:46	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1579993	1	11/18/20 11:18	11/21/20 01:55	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1579899	1	11/20/20 17:53	11/21/20 15:59	JN	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.6		1	11/20/2020 04:08	WG1579041

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.83	21.4	1	11/19/2020 04:21	WG1578610

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0232	0.107	1	11/20/2020 18:51	WG1579747
(S) a,a,a-Trifluorotoluene(FID)	*106*			*77.0-120*		*11/20/2020 18:51*	WG1579747

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000531	0.00114	1	11/21/2020 00:58	WG1579993
Toluene	U		0.00148	0.00568	1	11/21/2020 00:58	WG1579993
Ethylbenzene	U		0.000837	0.00284	1	11/21/2020 00:58	WG1579993
Total Xylenes	U		0.00100	0.00739	1	11/21/2020 00:58	WG1579993
(S) Toluene-d8	*112*			*75.0-131*		*11/21/2020 00:58*	WG1579993
(S) 4-Bromofluorobenzene	*90.9*			*67.0-138*		*11/21/2020 00:58*	WG1579993
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*11/21/2020 00:58*	WG1579993

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	14.5		1.72	4.27	1	11/20/2020 18:11	WG1579244
C28-C40 Oil Range	63.4		0.293	4.27	1	11/20/2020 18:11	WG1579244
(S) o-Terphenyl	*76.4*			*18.0-148*		*11/20/2020 18:11*	WG1579244

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.3		1	11/20/2020 04:08	WG1579041

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		10.1	21.9	1	11/19/2020 04:31	WG1578610

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0238	0.110	1	11/20/2020 19:11	WG1579747
(S) a,a,a-Trifluorotoluene(FID)	*104*			*77.0-120*		*11/20/2020 19:11*	WG1579747

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000556	0.00119	1	11/21/2020 01:17	WG1579993
Toluene	U		0.00155	0.00596	1	11/21/2020 01:17	WG1579993
Ethylbenzene	U		0.000878	0.00298	1	11/21/2020 01:17	WG1579993
Total Xylenes	U		0.00105	0.00774	1	11/21/2020 01:17	WG1579993
(S) Toluene-d8	*114*			*75.0-131*		*11/21/2020 01:17*	WG1579993
(S) 4-Bromofluorobenzene	*90.9*			*67.0-138*		*11/21/2020 01:17*	WG1579993
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*11/21/2020 01:17*	WG1579993

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	6.78		1.76	4.38	1	11/20/2020 17:19	WG1579244
C28-C40 Oil Range	35.3		0.300	4.38	1	11/20/2020 17:19	WG1579244
(S) o-Terphenyl	*76.8*			*18.0-148*		*11/20/2020 17:19*	WG1579244

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.8		1	11/20/2020 04:08	WG1579041

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	17.0	J	10.0	21.8	1	11/19/2020 04:40	WG1578610

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0236	0.109	1	11/21/2020 20:24	WG1580518
(S) a,a,a-Trifluorotoluene(FID)	*99.1*			*77.0-120*		*11/21/2020 20:24*	WG1580518

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000551	0.00118	1	11/21/2020 01:36	WG1579993
Toluene	U		0.00153	0.00590	1	11/21/2020 01:36	WG1579993
Ethylbenzene	U		0.000869	0.00295	1	11/21/2020 01:36	WG1579993
Total Xylenes	U		0.00104	0.00767	1	11/21/2020 01:36	WG1579993
(S) Toluene-d8	*112*			*75.0-131*		*11/21/2020 01:36*	WG1579993
(S) 4-Bromofluorobenzene	*91.7*			*67.0-138*		*11/21/2020 01:36*	WG1579993
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*11/21/2020 01:36*	WG1579993

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	21.9		1.75	4.36	1	11/21/2020 17:27	WG1579899
C28-C40 Oil Range	77.7		0.299	4.36	1	11/21/2020 17:27	WG1579899
(S) o-Terphenyl	*51.7*			*18.0-148*		*11/21/2020 17:27*	WG1579899

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.7		1	11/20/2020 04:08	WG1579041

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		10.0	21.8	1	11/19/2020 05:09	WG1578610

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0237	0.109	1	11/21/2020 20:46	WG1580518
(S) a,a,a-Trifluorotoluene(FID)	*99.6*			*77.0-120*		*11/21/2020 20:46*	WG1580518

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000552	0.00118	1	11/21/2020 01:55	WG1579993
Toluene	U		0.00154	0.00591	1	11/21/2020 01:55	WG1579993
Ethylbenzene	U		0.000871	0.00295	1	11/21/2020 01:55	WG1579993
Total Xylenes	U		0.00104	0.00768	1	11/21/2020 01:55	WG1579993
(S) Toluene-d8	*111*			*75.0-131*		*11/21/2020 01:55*	WG1579993
(S) 4-Bromofluorobenzene	*91.1*			*67.0-138*		*11/21/2020 01:55*	WG1579993
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*11/21/2020 01:55*	WG1579993

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	13.0		1.76	4.36	1	11/21/2020 15:59	WG1579899
C28-C40 Oil Range	39.6		0.299	4.36	1	11/21/2020 15:59	WG1579899
(S) o-Terphenyl	*63.1*			*18.0-148*		*11/21/2020 15:59*	WG1579899

Method Blank (MB)

(MB) R3595476-1 11/20/20 04:08

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1285609-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1285609-01 11/20/20 04:08 • (DUP) R3595476-3 11/20/20 04:08

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	93.6	92.9	1	0.832		10

Laboratory Control Sample (LCS)

(LCS) R3595476-2 11/20/20 04:08

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.1	100	85.0-115	

Method Blank (MB)

(MB) R3594878-1 11/19/20 03:15

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1285600-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1285600-04 11/19/20 04:02 • (DUP) R3594878-3 11/19/20 04:11

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	126	122	1	2.71		20

L1286922-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1286922-03 11/19/20 05:56 • (DUP) R3594878-6 11/19/20 06:06

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	652	645	1	1.16		20

Laboratory Control Sample (LCS)

(LCS) R3594878-2 11/19/20 03:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	213	107	90.0-110	

L1286922-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1286922-02 11/19/20 05:28 • (MS) R3594878-4 11/19/20 05:37 • (MSD) R3594878-5 11/19/20 05:47

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	520	100	647	653	105	106	1	80.0-120			0.981	20

Method Blank (MB)

(MB) R3595748-2 11/20/20 09:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3595748-1 11/20/20 08:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.81	106	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*104*	*77.0-120*	

L1285600-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1285600-01 11/20/20 17:28 • (MS) R3595748-3 11/20/20 19:32 • (MSD) R3595748-4 11/20/20 19:53

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	145	1.48	92.8	115	63.0	78.0	25	10.0-151			21.0	28
(S) a,a,a-Trifluorotoluene(FID)					*106*	*103*		*77.0-120*				

Method Blank (MB)

(MB) R3595949-2 11/21/20 18:36

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3595949-1 11/21/20 17:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.48	99.6	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*99.1*	*77.0-120*	

Method Blank (MB)

(MB) R3595833-3 11/20/20 21:51

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*113*			*75.0-131*
(S) 4-Bromofluorobenzene	*91.4*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3595833-1 11/20/20 20:34 • (LCSD) R3595833-2 11/20/20 20:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.126	0.126	101	101	70.0-123			0.000	20
Ethylbenzene	0.125	0.129	0.129	103	103	74.0-126			0.000	20
Toluene	0.125	0.126	0.126	101	101	75.0-121			0.000	20
Xylenes, Total	0.375	0.381	0.388	102	103	72.0-127			1.82	20
(S) Toluene-d8				*105*	*106*	*75.0-131*				
(S) 4-Bromofluorobenzene				*96.0*	*94.9*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*113*	*111*	*70.0-130*				

L1285748-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1285748-02 11/21/20 03:50 • (MS) R3595833-4 11/21/20 04:09 • (MSD) R3595833-5 11/21/20 04:28

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	49.5	24.1	68.3	64.6	89.3	81.8	400	10.0-149			5.57	37
Ethylbenzene	49.5	34.4	66.4	60.6	64.6	52.9	400	10.0-160			9.13	38
Toluene	49.5	102	92.7	73.7	0.000	0.000	400	10.0-156	J6	J6	22.8	38
Xylenes, Total	148	U	237	191	160	129	400	10.0-160			21.5	38
(S) Toluene-d8					*103*	*107*		*75.0-131*				
(S) 4-Bromofluorobenzene					*94.5*	*95.3*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*114*	*116*		*70.0-130*				

Method Blank (MB)

(MB) R3595607-1 11/20/20 11:51

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*77.2*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3595607-2 11/20/20 12:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	34.1	68.2	50.0-150	
(S) o-Terphenyl			*85.0*	*18.0-148*	

L1285600-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1285600-01 11/20/20 17:32 • (MS) R3595607-3 11/20/20 17:45 • (MSD) R3595607-4 11/20/20 17:58

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	51.0	5.60	40.9	43.4	69.3	74.1	1	50.0-150			5.84	20
(S) o-Terphenyl					*83.4*	*84.3*		*18.0-148*				

Method Blank (MB)

(MB) R3595984-1 11/21/20 14:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	0.335	J	0.274	4.00
(S) o-Terphenyl	*97.9*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3595984-2 11/21/20 14:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	50.6	101	50.0-150	
(S) o-Terphenyl			*107*	*18.0-148*	

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

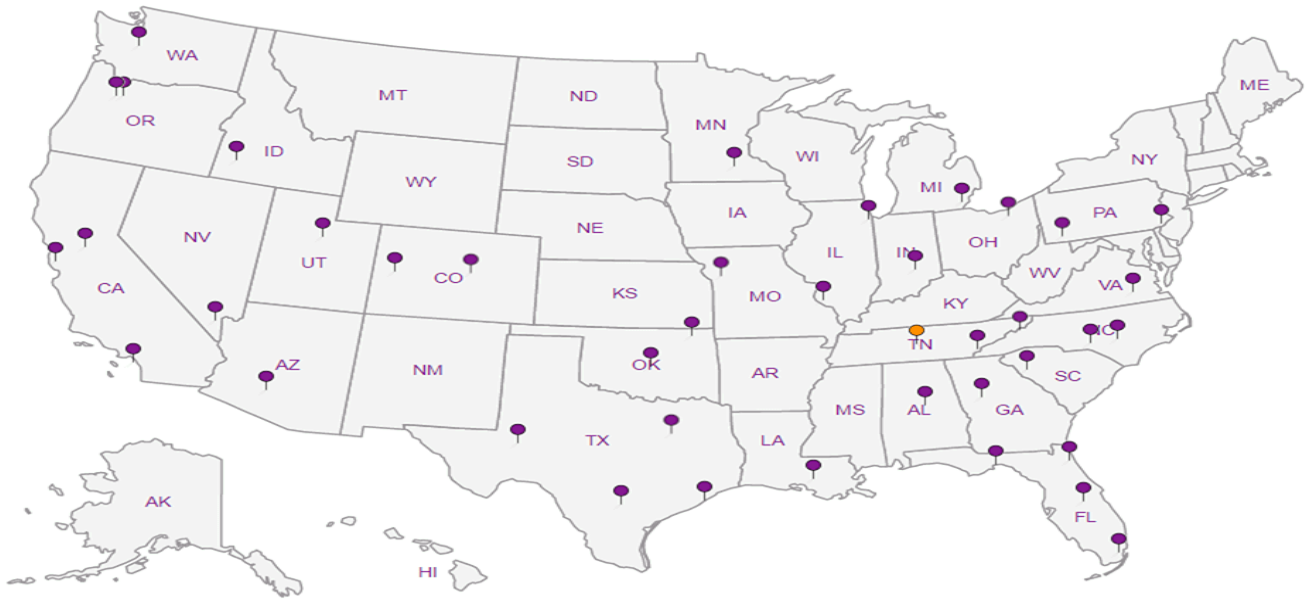
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
ConocoPhillips - Tetra Tech	212C-MD-02334 TASK17	L1285609	11/23/20 12:45	17 of 18

Analysis Request of Chain of Custody Record

Page : 1 of 1

Tetra Tech, Inc.

901 West Wall Street, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	EVGSAU Header #4 Injection (1RP-1542)	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02334, Task No. 17
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Adrian Garcia
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2020)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
L128564																																		
-01	AH-1 (BH 7) (0'-1')	11/10/20	1200		X				X			1	N	X		X											X							
02	AH-1 (BH-7) (1'-2')	11/10/20	1210		X				X			1	N	X		X											X							
03	AH-2 (BH-8) (0-1')	11/10/20	1220		X				X			1	N	X		X											X							
04	AH-2 (BH-8) (1-2')	11/10/20	1230		X				X			1	N	X		X											X							

Sample Receipt Checklist
COC Seal Present/Intact: __Y__N
COC Signed/Accurate: ✓Y__N
Bottles arrive intact: ✓Y__N
Correct bottles used: ✓Y__N
Sufficient volume sent: ✓Y__N
RAD Screen <0.5 mR/hr: ✓Y__N
If Applicable
VOA Zero Headspace: __Y__N
Pres.Correct/Check: __Y__N

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Adrian Garcia	11/12/20	13:00		11/12/20	13:00
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	11/12/20	16:45	FedEx	11/12/20	16:45
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
				11/13/2020	09:00

LAB USE ONLY
Sample Temperature

REMARKS:
- [X] Standard
- [ ] RUSH: Same Day 24 hr. 48 hr. 72 hr.
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

H163

ORIGINAL COPY

1382 4816 3828

1.2+1=1.2

APPENDIX E
NMSLO Seed Mixture Details

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

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

Custom Soil Resource Report for Lea County, New Mexico

1RP-1542

December 31, 2020

Preface

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

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

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

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

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

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

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Contents

How Soil Surveys Are Made

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

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

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

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

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

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

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

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

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

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

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

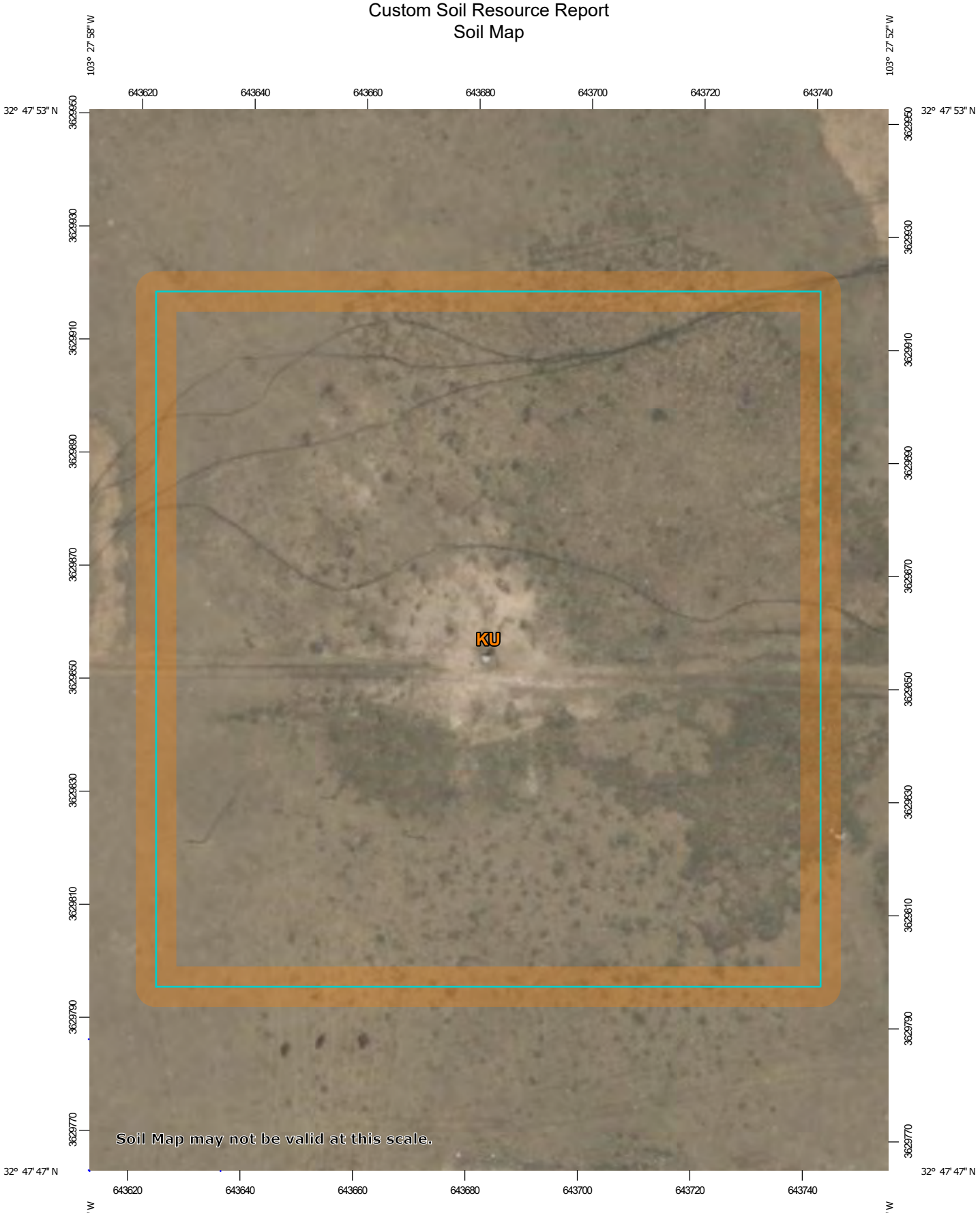
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

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

Soil Map

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

Custom Soil Resource Report
Soil Map



Map Scale: 1:916 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 10 20 40 60

Feet: 0 40 80 160 240

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

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

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

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

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

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

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

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

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

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 17, Jun 8, 2020

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

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

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	3.6	100.0%
Totals for Area of Interest		**3.6**	**100.0%**

Map Unit Descriptions

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

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

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

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

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

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

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

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

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

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

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

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

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: Plains, playa rims
Down-slope shape: Linear, convex
Across-slope shape: Linear, concave
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: 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 capacity: 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 capacity: 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: Plains, playa rims
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: R077DY049TX - Very Shallow 12-17" PZ
Other vegetative classification: Unnamed (G077DH000TX)
Hydric soil rating: No

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NMSLO Seed Mix Loamy (L)

LOAMY (L) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Black grama	**VNS, Southern**	**1.0**	**D**
Blue grama	**Lovington**	**1.0**	**D**
Sideoats grama	**Vaughn, El Reno**	**4.0**	**F**
Sand dropseed	**VNS, Southern**	**2.0**	**S**
Alkali sacaton	**VNS, Southern**	**1.0**	
Little bluestem	**Cimarron, Pastura**	**1.5**	**F**
Forbs:			
Firewheel (*Gaillardia*)	**VNS, Southern**	**1.0**	**D**
Shrubs:			
Fourwing saltbush	**Marana, Santa Rita**	**1.0**	**D**
Common winterfat	**VNS, Southern**	**0.5**	**F**
	Total PLS/acre	**18.0**	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box
VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at http://plants.usda.gov.

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 542160

QUESTIONS

Operator: Maverick Permian LLC 500 Dallas Street, Suite 2300 Houston, TX 77002	OGRID: 331199
	Action Number: 542160
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nPAC0726037121**
Incident Name	**NPAC0726037121 EVGSAU INJECTION HEADER #4 @ 30-025-26679**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Received**
Incident Well	**[30-025-26679] EAST VACUUM (GSA) UNIT #002**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	EVGSAU INJECTION HEADER #4
Date Release Discovered	08/08/2007
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: | Flow Line - Injection | Produced Water | Released: 174 BBL | Recovered: 40 BBL | Lost: 134 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: Maverick Permian LLC 500 Dallas Street, Suite 2300 Houston, TX 77002	OGRID: 331199
	Action Number: 542160
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*

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

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

I hereby agree and sign off to the above statement	Name: Chris Straub Title: Contractor Email: chris.straub@tetratech.com Date: 01/21/2026

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QUESTIONS (continued)

Operator: Maverick Permian LLC 500 Dallas Street, Suite 2300 Houston, TX 77002	OGRID: 331199
	Action Number: 542160
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Zero feet, overlying, or within area
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Zero feet, overlying, or within area
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	5650
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	99.6
GRO+DRO (EPA SW-846 Method 8015M)	21.9
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	01/28/2026
On what date will (or did) the final sampling or liner inspection occur	02/05/2026
On what date will (or was) the remediation complete(d)	03/28/2026
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	21653
What is the estimated volume (in cubic yards) that will be remediated	3208
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

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	Action Number: 542160
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Chris Straub Title: Contractor Email: chris.straub@tetratech.com Date: 01/21/2026
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS (continued)

Operator: Maverick Permian LLC 500 Dallas Street, Suite 2300 Houston, TX 77002	OGRID: 331199
	Action Number: 542160
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS (continued)

Operator:	OGRID:
Maverick Permian LLC 500 Dallas Street, Suite 2300 Houston, TX 77002	331199
	Action Number: 542160
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	***{Unavailable.}***

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Operator:	OGRID:
Maverick Permian LLC 500 Dallas Street, Suite 2300 Houston, TX 77002	331199
	Action Number: 542160
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved with the following conditions:	1/30/2026
scwells	1) It has been over 5 years since the delineation data was collected; excavation must continue past the proposed excavation depths should any confirmation samples not meet the applicable Table I Closure Criteria.	1/30/2026
scwells	2) Any wall that is exposed during the excavation, including between the varying depths of excavation must have sidewall samples collected no more than every 200 square feet.	1/30/2026
scwells	3) Photographic documentation must be included verifying the full extent of the excavation(s) prior to backfill pursuant to 19.15.29.12.E.(1) NMAC.	1/30/2026
scwells	4) Under the Site Characterization section of the C-141 application to the question, "What is the minimum distance, between the closest lateral extents of the release and the following surface areas: A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes," was answered "Between 1 and 5 (mi.)." According to the OSE POD map, L-04948 is located between 1000 ft -1/2 mile W and is used for Livestock Watering. This distance should be updated within the C-141 application when the remediation closure report is submitted.	1/30/2026
scwells	Submit a remediation closure report to the OCD by 4/30/2026.	1/30/2026