

## SITE INFORMATION

### Report Type: Closure Report (nSAD1326256905 , 1 RP-2962)

#### General Site Information:

<b>Site:</b>	Diamond 8 Federal Com 4H				
<b>Company:</b>	EOG Resources				
<b>Section, Township and Range</b>	Unit D	Sec. 8	T 25S	R 34E	
<b>Lease Number:</b>	NMNM105475261				
<b>County:</b>	Lea County				
<b>GPS:</b>	32.143138°			-103.503775°	
<b>Surface Owner:</b>	Federal				
<b>Mineral Owner:</b>	Federal				
<b>Directions:</b>	From Intersection at HYW 128 and Battle Axe Rd turn into Battle Axe Road and travel for 5.8 miles. At Intersection of Battle Axe Rd and Reynolds Blvd turn right into Reynolds Blvd and travel for 2.9 miles, you arrive at location.				

#### Release Data:

<b>Date Released:</b>	8/20/2012 (Discover)
<b>Type Release:</b>	Produced Water
<b>Source of Contamination:</b>	Flow Line
<b>Fluid Released:</b>	20 bbl. water
<b>Fluids Recovered:</b>	0 bbl. water

#### Official Communication:

<b>Name:</b>	Hadlie Stout		Miguel Fores
<b>Company:</b>	EOG Resources		Tetra Tech Inc
<b>Address:</b>	5509 Champions Dr.		901 W. Wall St.
			Suite 100
<b>City:</b>	Midland, Texas, 79706		Midland, Texas, 79701
<b>Phone number:</b>	(346) 324-7612		(575) 725-14-87
<b>Fax:</b>			
<b>Email:</b>	<a href="mailto:Hadlie_Stout@eogresources.com">Hadlie_Stout@eogresources.com</a>		<a href="mailto:Miguel.Flores@tetrattech.com">Miguel.Flores@tetrattech.com</a>

#### Site Characterization

<b>Depth to Groundwater:</b>	>105'
<b>Karst Potential:</b>	Low

#### Recommended Remedial Action Levels (RRALs)

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



March 17, 2021

Bradford Billings  
Hydrologist  
District 2 Artesia  
Oil Conservation Division  
Santa Fe, NM 87505

**Re: Closure Report  
EOG Resources  
Diamond 8 Com #4H  
Unit D, Section 8, Township 25 South, Range 34 East  
Lea County, New Mexico  
1RP-2962**

Mr. Billings:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources (EOG) to assess a release at the EOG Diamond 8 Federal Com #4H (API No. 30-015-40189). The release footprint is located in the Public Land Survey System (PLSS) Unit D, Section 08, Township 25 South, Range 34 East, Eddy County, New Mexico (Site). The C-141 indicates Site coordinates are 32.151361°, -103.499056°, while the associated spill extent is located at approximate coordinates 32.143138°, -103.503775°. The site location is shown on Figures 1 and 2.

## Background

According to the State of New Mexico C-141 Initial Report, the release was discovered on August 20, 2012 and occurred due to a rupture at the flow line located at approximately 3,300 feet (ft.) S/SE of the Site. The release consisted of 20 barrels (bbls.) of produced water and affected an area of approximately 780 ft. long by 50 ft. wide at the source to 2-6 ft. wide at the end of the flow path. During immediate response actions, the well was shut in and the line was repaired and brought back into service. No free fluids were recovered. The initial C-141 report was submitted on August 24, 2012 and approved by the NMOCD on August 24, 2012. The release was subsequently assigned the Remediation Permit (RP) number 1RP-2962. The C-141 forms are included in **Appendix A**.

## Site Characterization

A site characterization was performed for the site for sensitive receptors, based on the evaluation a watercourses was identify <100 ft. Additionally, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances, and the site is in a low karst potential area. The nearest well is listed in the USGS National Water Information Database website in Section 15, approximately 3.10 miles southeast of the site, and has a reported depth to groundwater of 174.06 feet below ground surface. In addition, according to the New Mexico Office of the State Engineer, there are no water wells within 800 meters (½ miles) radius. However, there are three (3) water wells are located within 3,800 meters (approximately 2 ½ mile) of the Site.



The average depth to groundwater is 185 ft. bgs. Site characterization data is included in Appendix B.

## Regulatory

A risk-based evaluation was performed for the site per the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based on the site characterization, the proposed RRAL for TPH is 100 mg/kg (GRO +DRO+MRO). Additionally, based on the site characterization, the proposed RRAL for chlorides is 600 mg/kg.

## Soil Assessment and Analytical Results

On March 2, 2021, Tetra Tech personnel were on site to evaluate and sample the release area. The formerly impacted area was identified from the description in the C-141 and the aerial imagery. Soils were field screened for salinity using an Extech EC400 ExStik to determine sampling intervals. A total of eight (8) auger holes (AH-1 through AH-8) were advanced to a total depth from surface to 2 ft. below ground surface (bgs.) A total of sixteen (16) samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The results of the sampling are summarized in Table 1. The auger hole locations are shown on Figure 3. Photographic documentation is included.

Referring to Table 1, none of the samples analyzed exceeded the Site RRAL for chloride (20,000 mg/kg), TPH (20,000 mg/kg), BTEX (50 m/kg) and benzene (10 mg/kg). In addition, all the samples were also below the 600 mg/kg chloride and 100 mg/kg TPH reclamation standards.

## Conclusion

Based on the laboratory results and remediation activities performed, EOG requests closure of this spill issue. The final C-141 initial reports are enclosed in Appendix A. If you have any questions or comments concerning the assessment or remediation activities for this site, please call at (432) 682-4559.

Respectfully submitted,  
TETRA TECH

*Paula Tacora Alonso*

Paula Tacora Alonso  
Tetra Tech, Inc

# Figures



C:\GIS\EOG Resources\212C-MD-02319\_Diamond8FCH\212C-MD-02319\_Diamond8FCH\_FIG1.mxd, 3/16/2021, jee/peters

 SITE LOCATION



0 2.5 5 Miles  
Approximate Scale in Miles

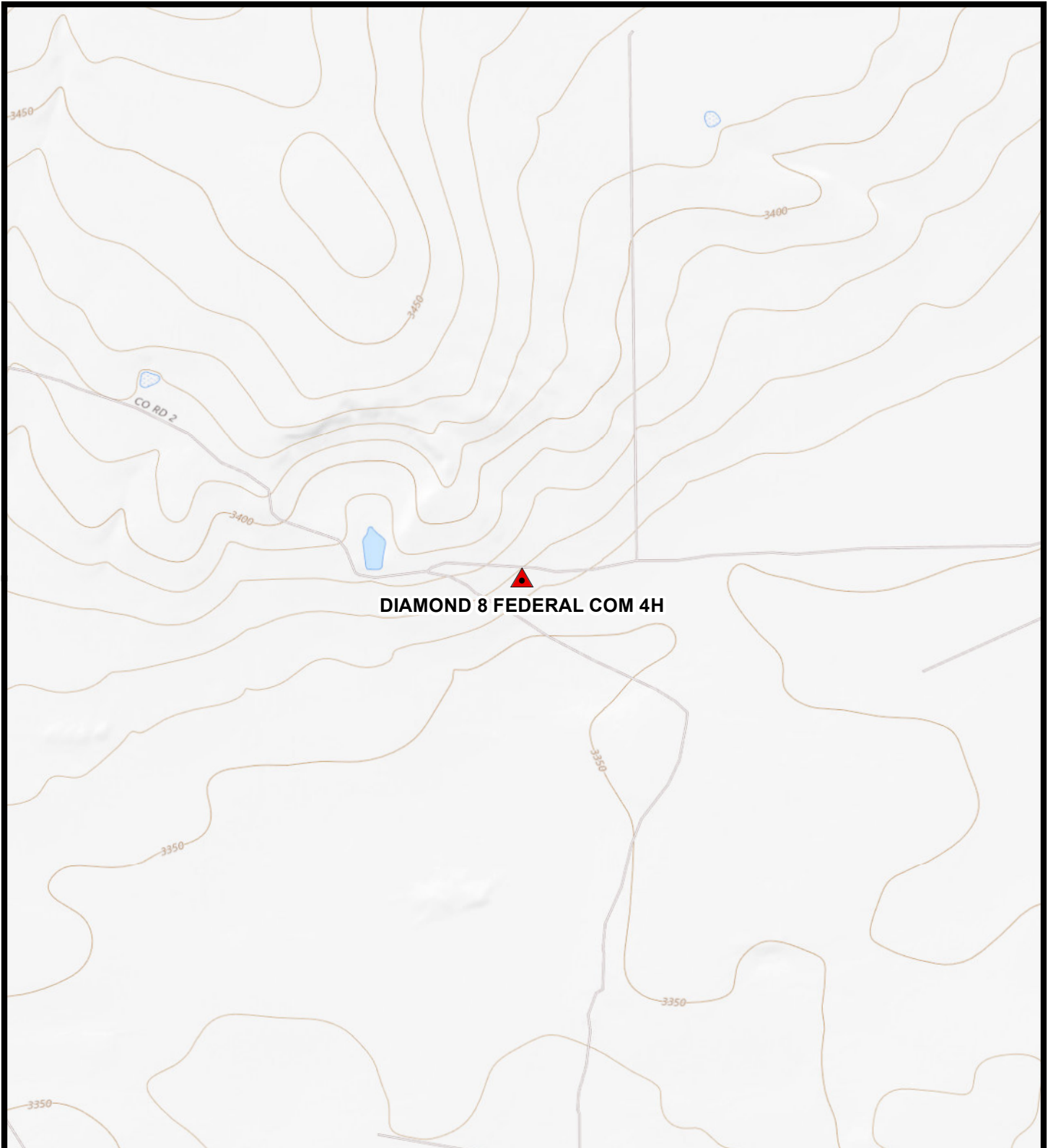
Source: ESRI Basemap - Streets, 2021.

OVERVIEW MAP  
DIAMOND 8 FEDERAL COM 4H  
Property Located at coordinates 32.151361°, -103.499056°  
LEA COUNTY, NEW MEXICO



Project #:  
212C-MD-02319

FIGURE  
1



 SITE LOCATION



0 1,000 2,000 Feet  
Approximate Scale in Miles

Source: USGS, The National Map, Topo Base, 2021.

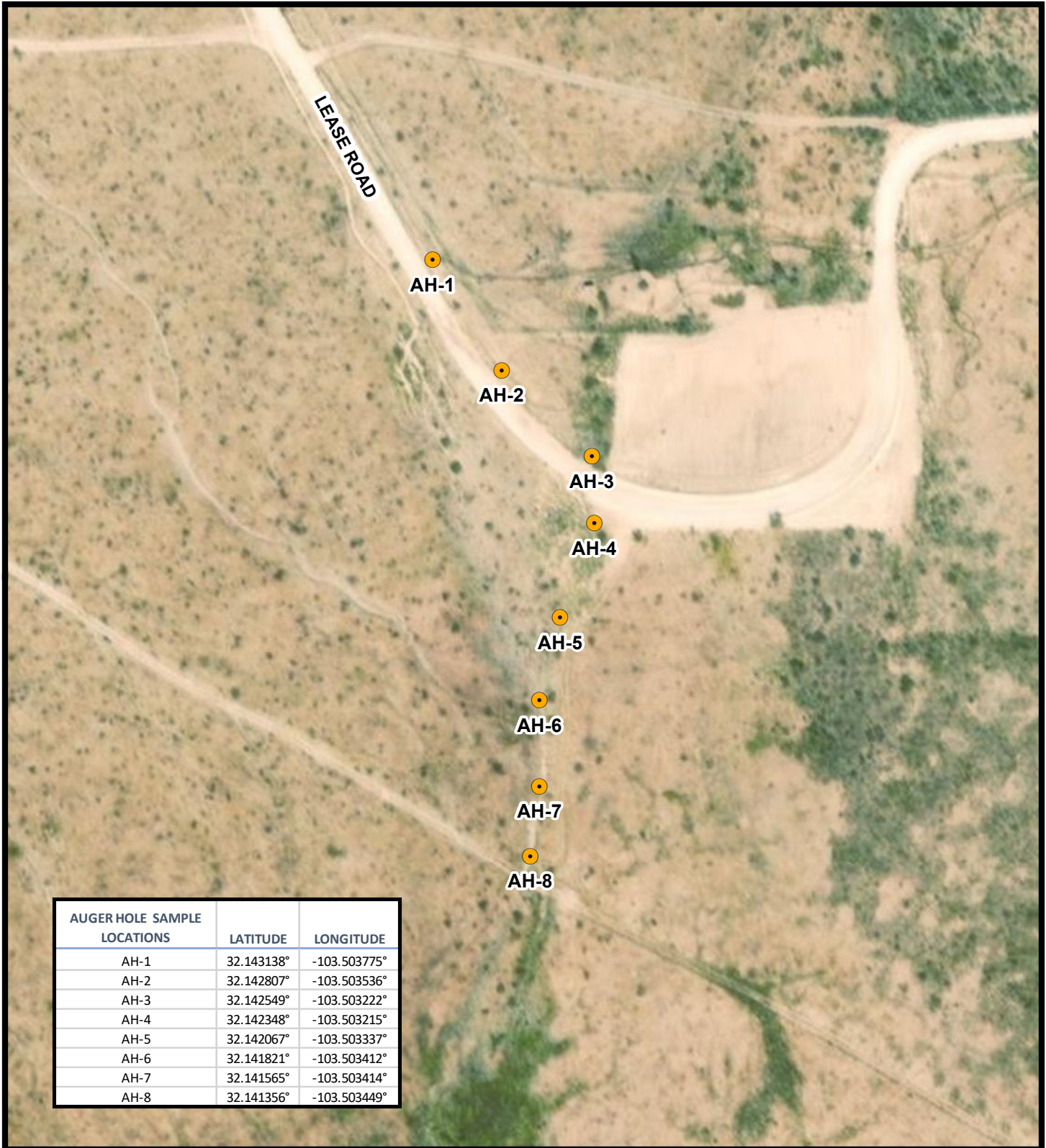
TOPOGRAPHIC MAP  
DIAMOND 8 FEDERAL COM 4H  
Property Located at coordinates 32.151361°, -103.499056°  
LEA COUNTY, NEW MEXICO



Project #: 212C-MD-02319

FIGURE  
2

C:\GIS\EOG Resources\212C-MD-02319\_Diamond8FCH\212C-MD-02319\_Diamond8FCH\_FIG2.mxd 3/16/2021 jee/peters



AUGER HOLE SAMPLE LOCATIONS	LATITUDE	LONGITUDE
AH-1	32.143138°	-103.503775°
AH-2	32.142807°	-103.503536°
AH-3	32.142549°	-103.503222°
AH-4	32.142348°	-103.503215°
AH-5	32.142067°	-103.503337°
AH-6	32.141821°	-103.503412°
AH-7	32.141565°	-103.503414°
AH-8	32.141356°	-103.503449°

● AUGER HOLE SAMPLE LOCATION



0 75 150  
Feet  
Approximate Scale in Miles

Source: ESRI Basemap - Imagery 2019.

RELEASE ASSESSMENT MAP AND BORING LOCATIONS  
DIAMOND 8 FEDERAL COM 4H  
Property Located at coordinates 32.151361°, -103.499056°  
LEA COUNTY, NEW MEXICO



Project #:  
212C-MD-02319

FIGURE  
3

C:\GIS\EOG Resources\212C-MD-02319\_Diamond8FCH\212C-MD-02319\_Diamond8FCH\_FIG3.mxd, 3/16/2021, bealpatners

# Tables

**Table 1**  
**EOG**  
**Diamond 8 Com #4H**  
**Lea County, NM**

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chlorides
			In-Situ	Removed (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total (mg/kg)						
AH-1	3/2/2021	0-1	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	10.8
	3/2/2021	1.5'-2	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	9.97
AH-2	3/2/2021	0-1	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	29.4
	3/2/2021	1.5'-2	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	17.6
AH-3	3/2/2021	0-1	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	9.64
	3/2/2021	1.5'-2	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	13.7
AH-4	3/2/2021	0-1	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	13.8
	3/2/2021	1.5'-2	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	13.9
AH-5	3/2/2021	0-1	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	19.3
	3/2/2021	1.5'-2	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	14.2
AH-6	3/2/2021	0-1	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	9.76
	3/2/2021	1.5'-2	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	7.77
AH-7	3/2/2021	0-1	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	9.28
	3/2/2021	1.5'-2	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	0.00308	<0.00201	<0.00201	<0.00201	7.53
AH-8	3/2/2021	0-1	X	-	87.9	<49.9	<49.9	87.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	9.24
	3/2/2021	1.5'-2	X	-	50.9	<49.9	<49.9	50.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	7.91

(-)

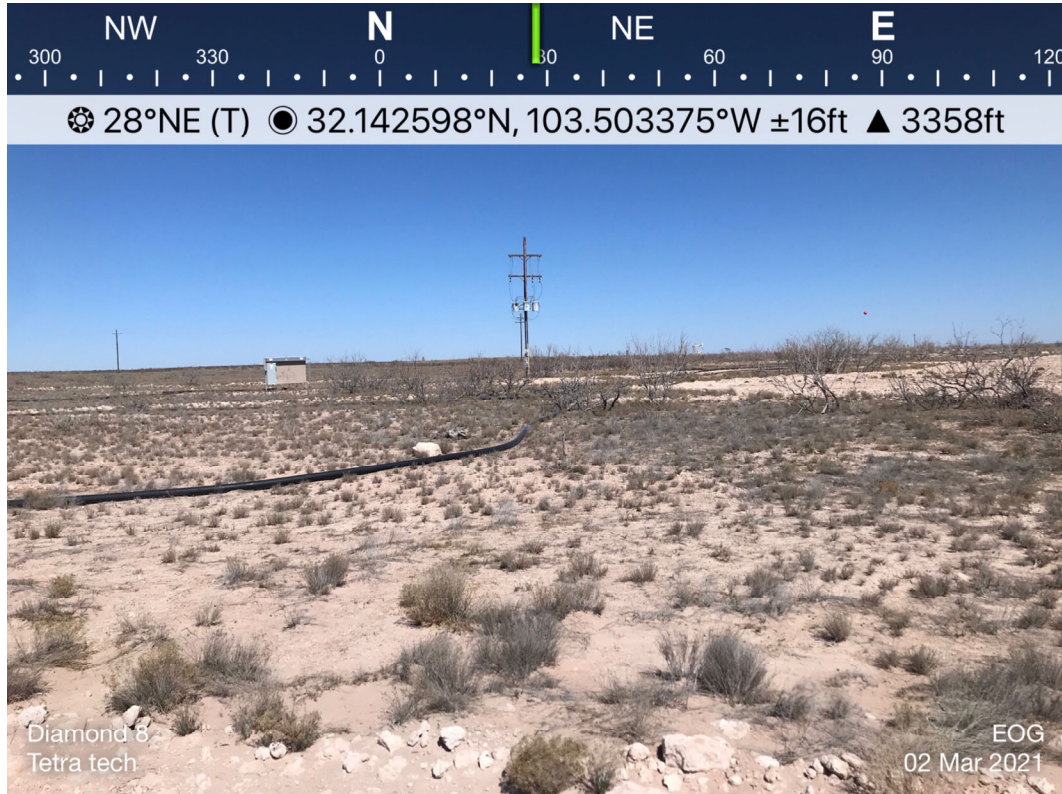
Not Analyzed  
 Exceeded RRALs

# Photos

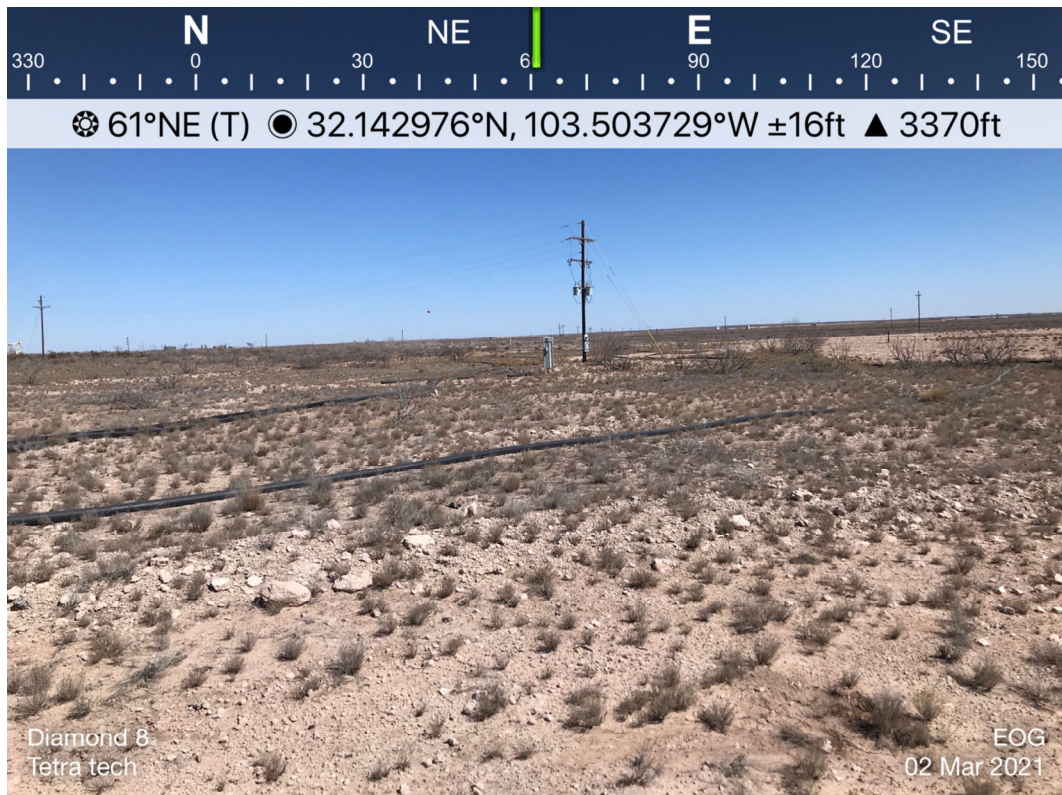
EOG Resources  
Diamond 8 Com #4H  
Lea County, New Mexico



TETRA TECH



View of Release Area – View North

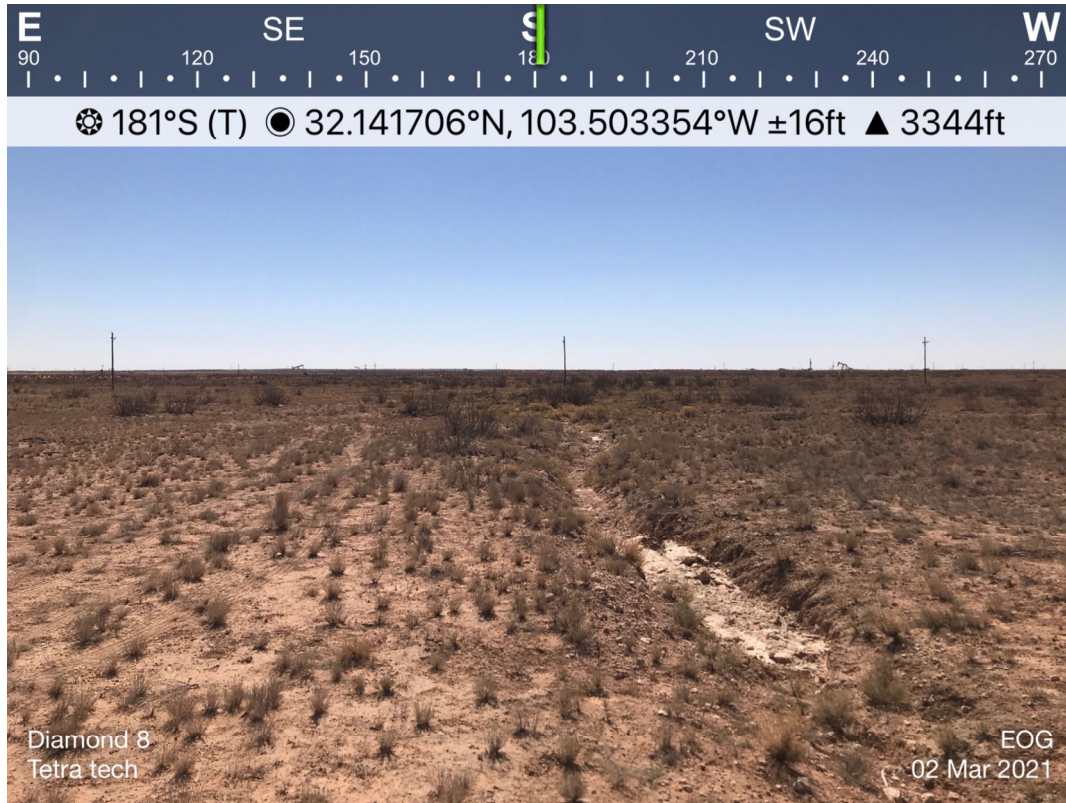


View of Release Area – View Northeast

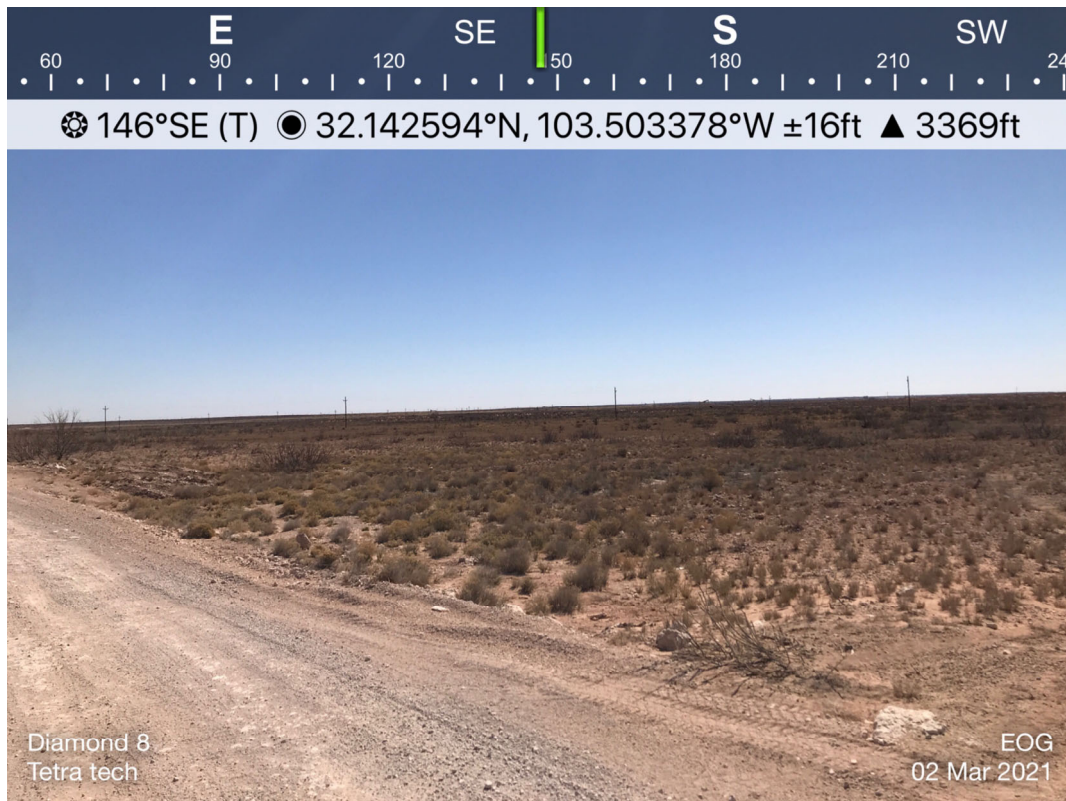
EOG Resources  
Diamond 8 Com #4H  
Lea County, New Mexico



TETRA TECH



View of Release Area – View South



View of Release Area – View Southeast

# Appendix A

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

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

HOBBS OCD

AUG 24 2012

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

Form C-141  
Revised August 8, 2011

RECEIVED

Release Notification and Corrective Action

OPERATOR

Initial Report  Final Report

Name of Company: EOG RESOURCES INC	Contact: James Fischer
Address: PO Box 2267, Midland, TX 79702	Telephone No.: 432-686-3747
Facility Name: Diamond 8 Federal Com 4H	Facility Type: Oil Well

Surface Owner:	Mineral Owner:	API No.: 30-025-40189
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County LEA
D	8	25S	34E	330'	North	430'	West	

Latitude 32.151361 Longitude -103.499056

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 20 bbls	Volume Recovered: -0-
Source of Release: Flow line	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 8/20/12
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Geoffrey Leking - OCD left message on 8/22/12 @ 10:00 am Jim Amos - BLM	
By Whom? James Fischer	Date and Hour: 8/21/12	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*  
  
J2RL 9/18/13 GW @ 140'

Describe Cause of Problem and Remedial Action Taken.\* The flow line ruptured approximately 3,300' S/SE of the Diamond 8 Federal Com 4H location. No water was recovered, the well was shut in, the line was repaired and brought back into service. Soil samples were taken by Talon/LPE on 8/23/2012.

Describe Area Affected and Cleanup Action Taken.\* The affected area flows down gradient adjacent to and crosses over a lease road near the RHNU #706 WIW location. The flow path area measured approximately 780' long by 50' wide at the source to 2-6' wide at the end of the flow path. Talon/LPE has been contracted to complete site assessment and work plan activities.

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:	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: James Fischer	 Environmental Specialist	
Title: Environmental Manager	Approval Date: 8/24/12	Expiration Date: 10/24/12
E-mail Address: James.Fischer@eogresources.com	Conditions of Approval: SUBMIT FINAL	Attached <input type="checkbox"/>
Date: 8/24/2012 Phone: 432-686-3747	C-141 BY 10/24/12	IRP-9-13-2962 (2)

\* Attach Additional Sheets If Necessary

SAD.  
9/23/2013  
8124

SEP 23 2013

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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> 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: James F. Kennedy Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

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

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

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_  
 Signature: James F. Kennedy Date: \_\_\_\_\_  
 email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

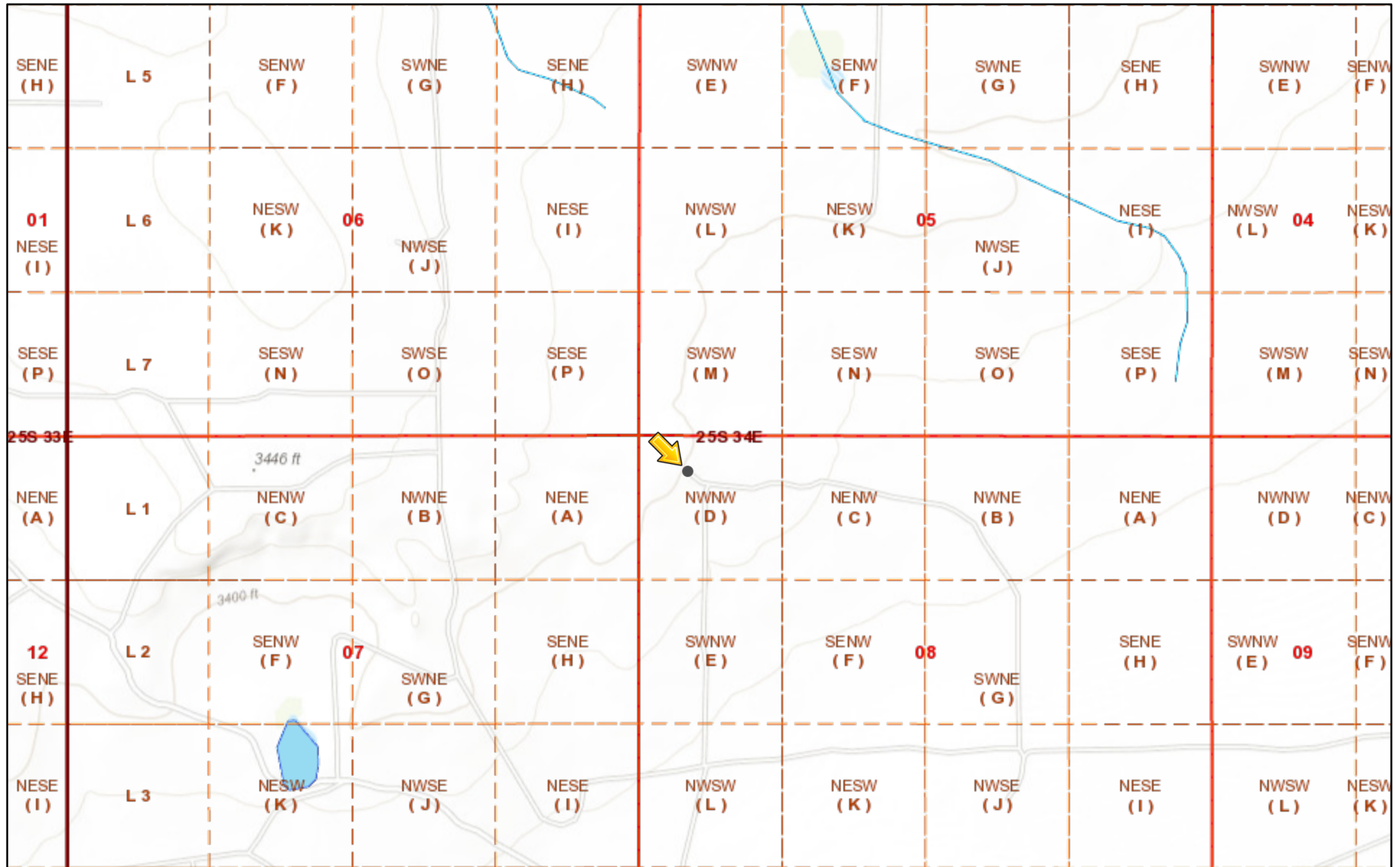
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_









Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

## Appendix B

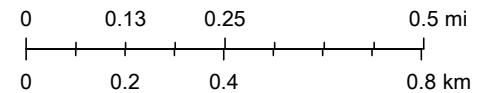
# 1RP-2962



2/18/2021, 10:16:28 AM

-  Override 1
-  PLSS Second Division
-  PLJV Probable Playas
-  OCD District Offices
-  PLSS Townships
-  OSE Streams
-  PLSS First Division
-  OSE Water-bodies

1:18,056



Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin,

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75>: New Mexico Oil Conservation Division

# Karst Potential

1RP-2962

**Legend**

-  High
-  Low
-  Medium





Google Earth

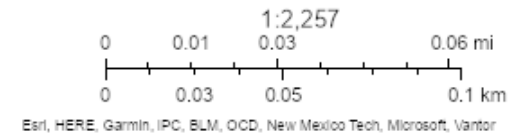


# Permian Basin Karst Areas



3/9/2026, 10:01:44 PM

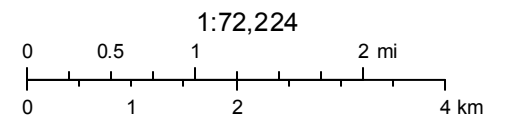
Override 1  Karst Occurrence Potential  
 Low



# New Mexico NFHL Data



February 18, 2021



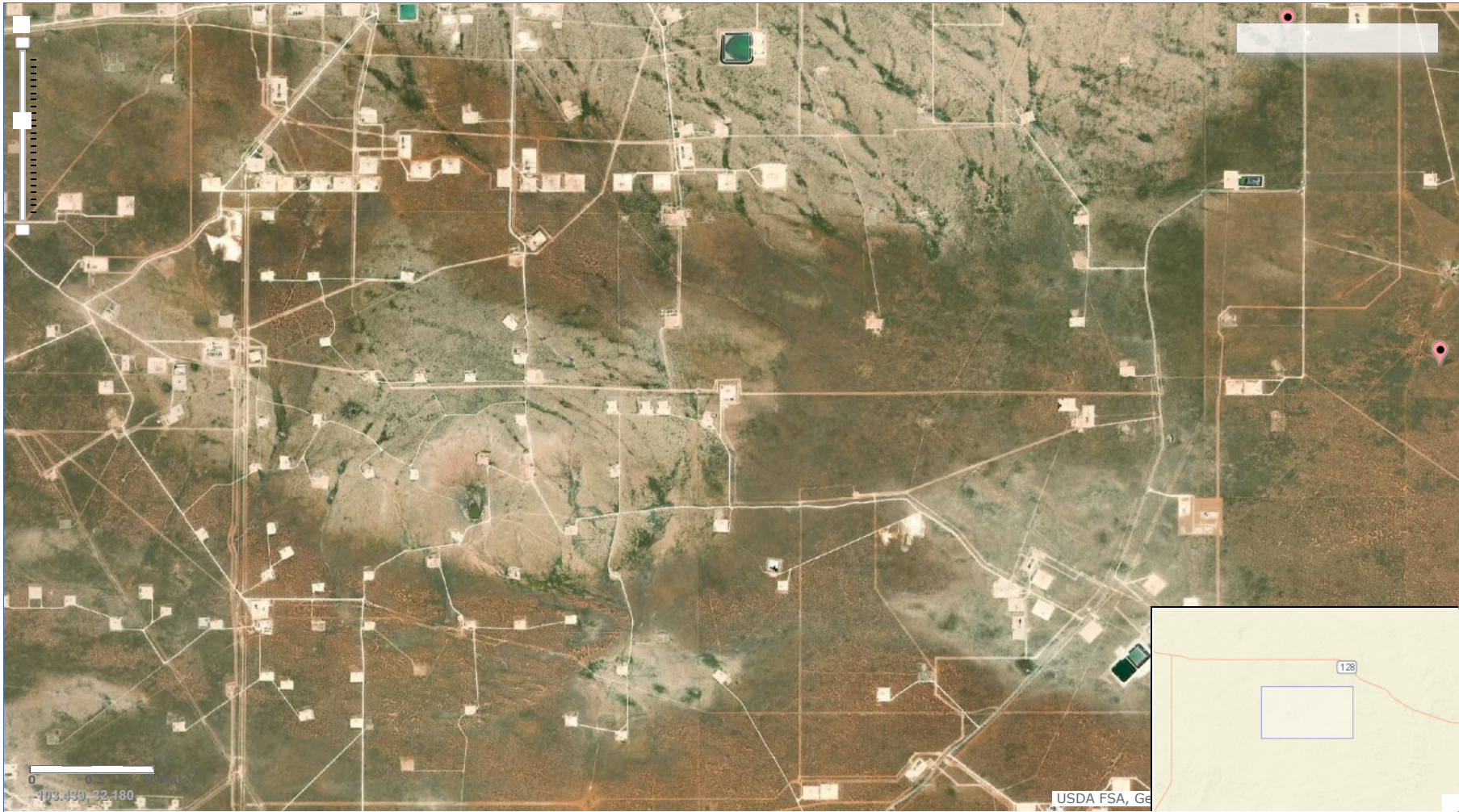
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



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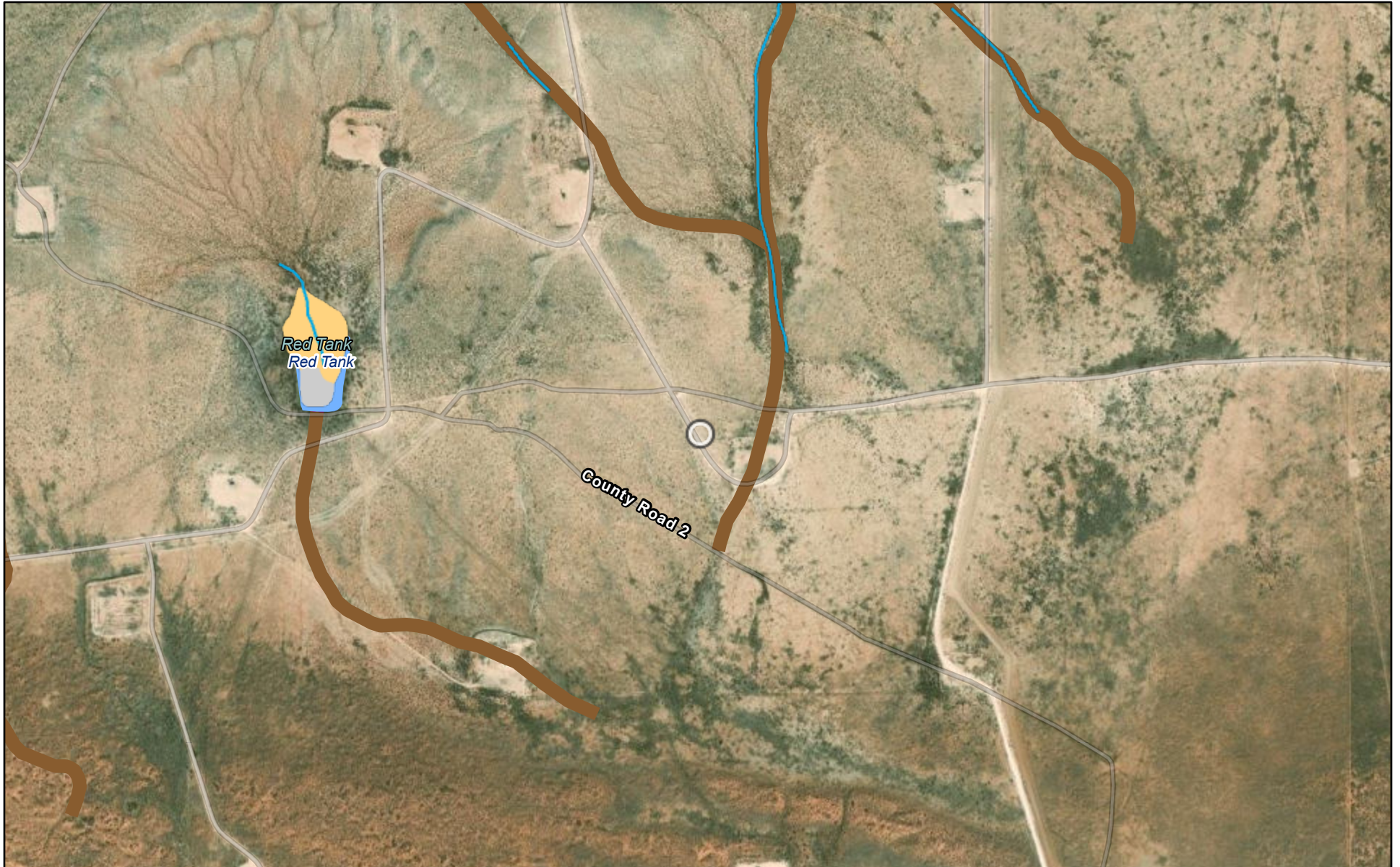
National Water Information System: Mapper

Help Info



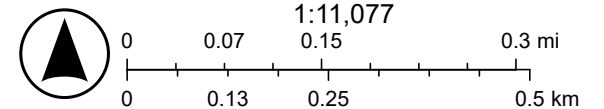
Site Information

# Hydrology



3/9/2026

- |                           |                                      |                         |
|---------------------------|--------------------------------------|-------------------------|
| NWI Linears               | Palustrine Unconsolidated (PUB, PUS) | Artificial Path         |
| — Riverine (R2, R3, R4)   | Nhd - Waterbody - Large Scale        | Nhd - Flow Direction    |
| NWI Polygons              | Lake Pond                            | StreamRiver - Ephemeral |
| Palustrine Emergent (PEM) | Nhd - Flowline - Large Scale         | Artificial Path         |
|                           | Ephemeral                            |                         |

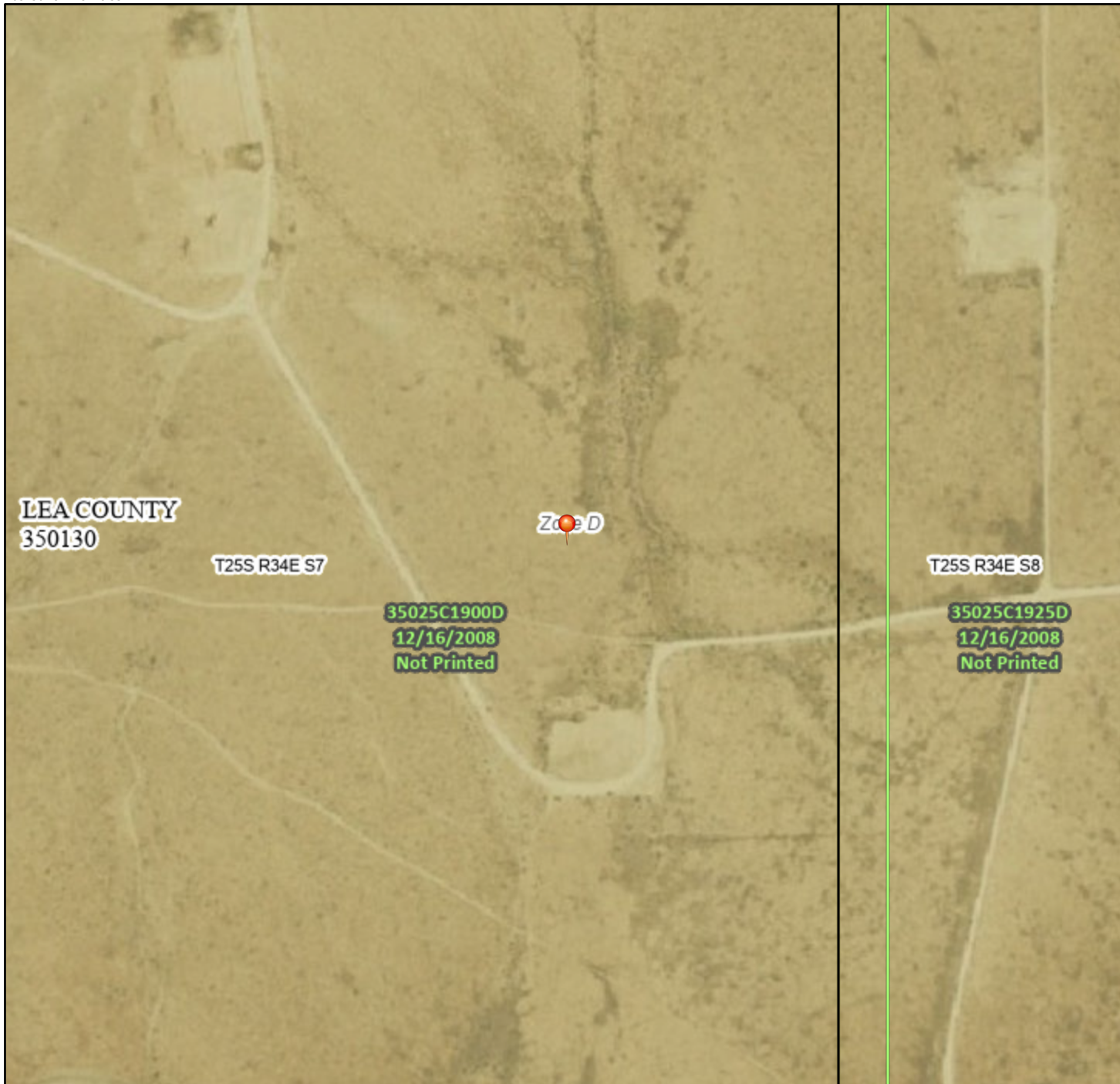


Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, New Mexico Environment

# National Flood Hazard Layer FIRMMette



103°30'29"W 32°8'55"N



## Legend

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

- SPECIAL FLOOD HAZARD AREAS**
  - Without Base Flood Elevation (BFE) Zone A, V, A99
  - With BFE or Depth Zone AE, AO, AH, VE, AR
  - Regulatory Floodway
- OTHER AREAS OF FLOOD HAZARD**
  - 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
  - Future Conditions 1% Annual Chance Flood Hazard Zone X
  - Area with Reduced Flood Risk due to Levee. See Notes. Zone X
  - Area with Flood Risk due to Levee Zone D
- OTHER AREAS**
  - NO SCREEN Area of Minimal Flood Hazard Zone X
  - Effective LOMRs
  - Area of Undetermined Flood Hazard Zone D
- GENERAL STRUCTURES**
  - Channel, Culvert, or Storm Sewer
  - Levee, Dike, or Floodwall
- OTHER FEATURES**
  - 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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/10/2026 at 2:44 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

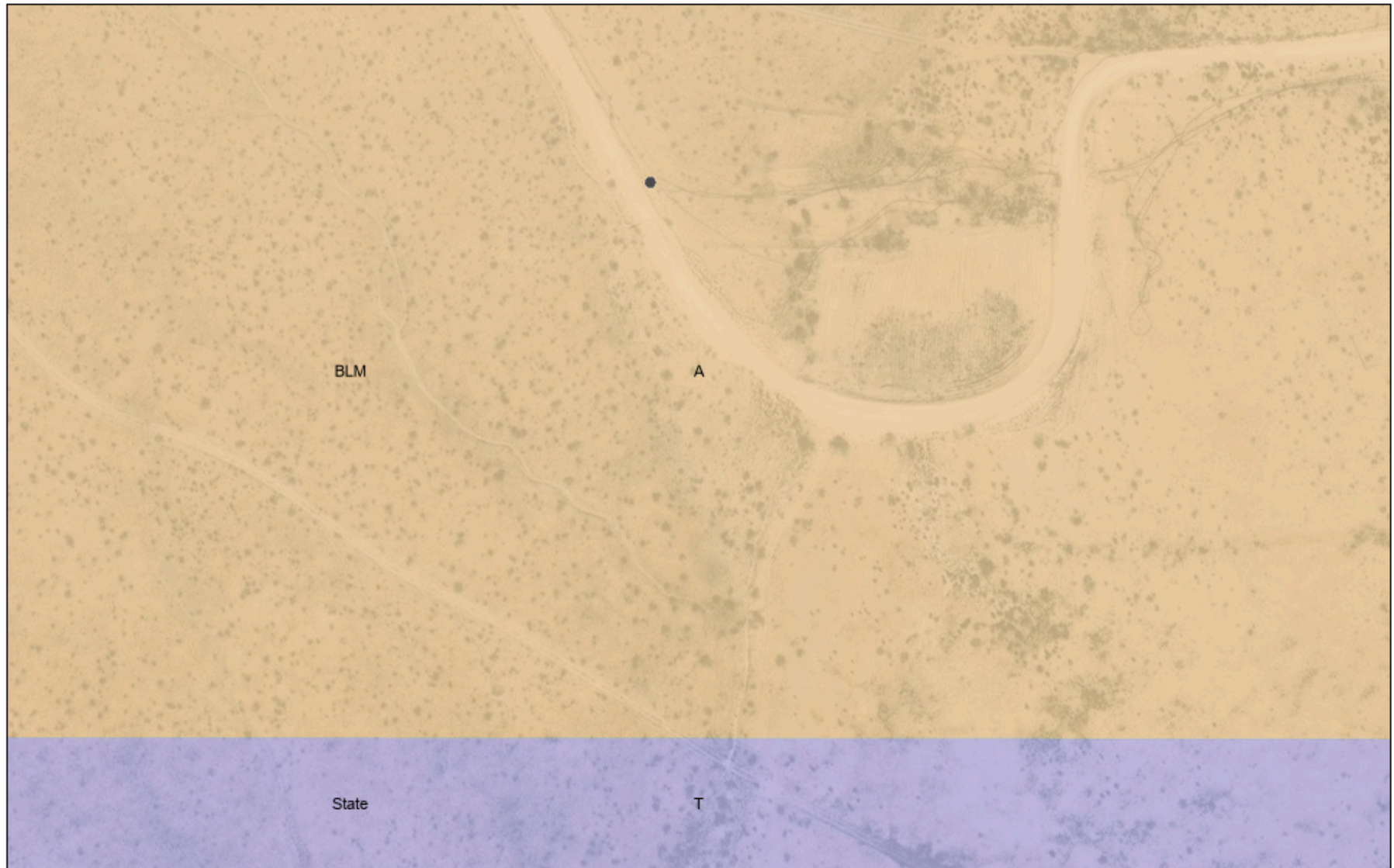
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory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

Released to Imaging: 4/29/2026 11:45:31 AM

1:6,000

103°29'52"W 32°8'24"N

# OCD Mineral and Surface Ownership



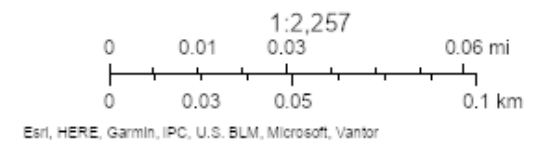
3/23/2026, 8:36:55 AM

### Mineral Ownership

- A-All minerals are owned by U.S.
- T-Other minerals are owned by the U.S.

### Land Ownership

- BLM
- S

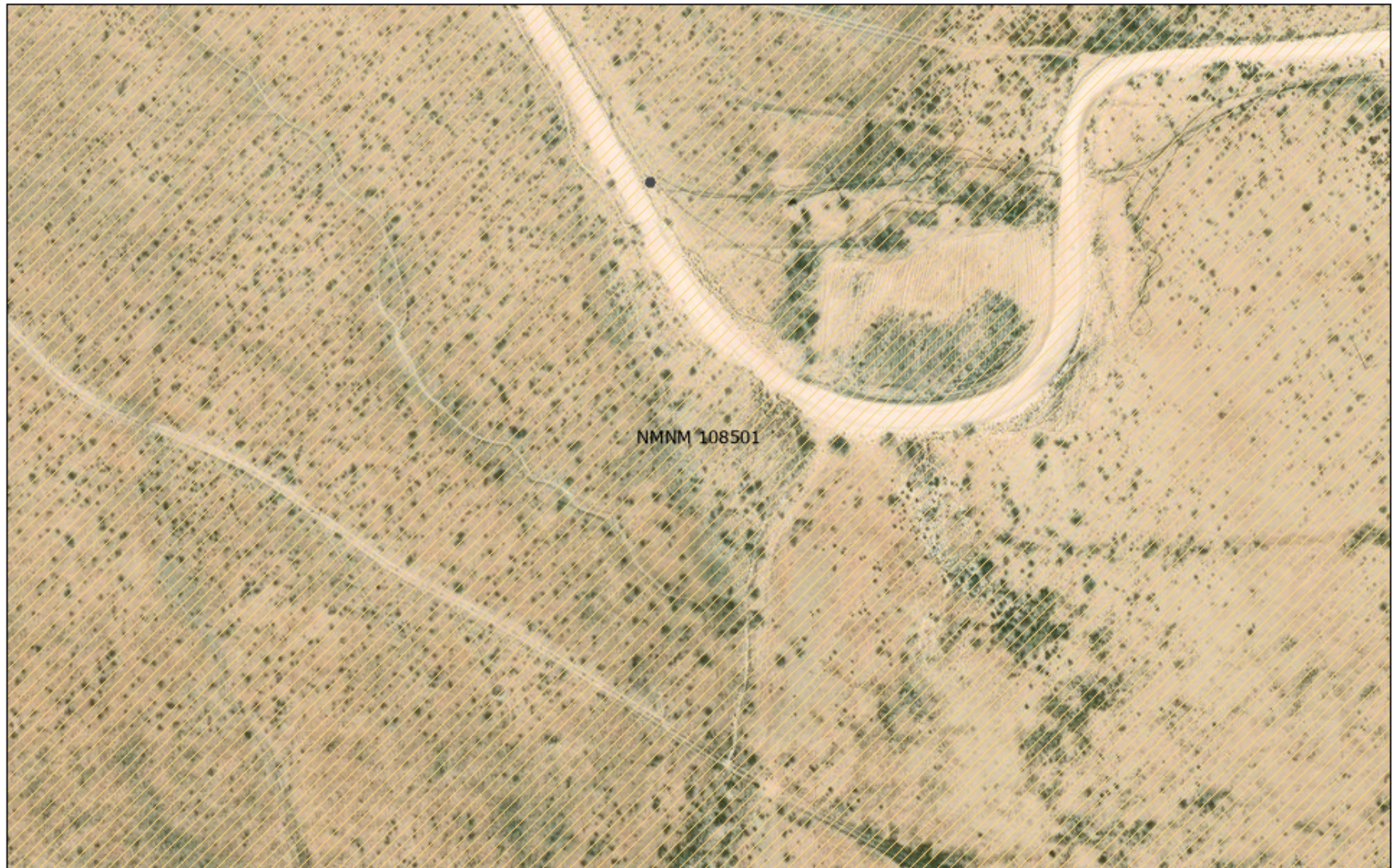


Esri, HERE, Garmin, IPC, U.S. BLM, Microsoft, Vantor

New Mexico Oil Conservation Division

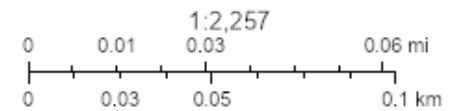
NM OCD Oil and Gas Map. <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d01712306164de29fd2fb9f835ca75>; New Mexico Oil Conservation Division

# OCD BLM Oil Gas Leases Case Disp



3/23/2026, 8:37:27 AM

 Authorized



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New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d01712306164de29fd2fb9f835ca75>; New Mexico Oil Conservation Division

# Point of Diversion Summary

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

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
C 02373 S	NW	NE	NW	13	25S	33E	638721.0	3556549.0 *		

\* UTM location was derived from PLSS - see Help

---

<b>Driller License:</b>	421	<b>Driller Company:</b>	GLENN'S WATER WELL SERVICE		
<b>Driller Name:</b>					
<b>Drill Start Date:</b>	1993-09-08	<b>Drill Finish Date:</b>	1993-09-08	<b>Plug Date:</b>	
<b>Log File Date:</b>		<b>PCW Rcv Date:</b>	1996-02-09	<b>Source:</b>	Shallow
<b>Pump Type:</b>	SUBMER	<b>Pipe Discharge Size:</b>	2	<b>Estimated Yield:</b>	60
<b>Casing Size:</b>	6.63	<b>Depth Well:</b>	625	<b>Depth Water:</b>	185

---

## Meter Information

<b>Meter Number:</b>	581	<b>Meter Make:</b>	WATERSPECIAL
<b>Meter Serial Number:</b>	9549683	<b>Meter Multiplier:</b>	100.0000
<b>Number of Dials:</b>	6	<b>Meter Type:</b>	Diversion
<b>Unit of Measure:</b>	Gallons	<b>Reading Frequency:</b>	Monthly (No Reading Expected)

## Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
1999-03-31	1999	2206.000	A	ms		0.000	
1999-06-30	1999	2350.000	A	ms		0.186	
1999-09-30	1999	4567.000	A	ms		2.858	
2000-01-06	1999	6110.000	A	ms		1.989	
2000-05-01	2000	9350.000	A	mb		0.000	
2000-06-30	2000	10252.000	A	mb		0.277	
2000-10-13	2000	16915.000	A	RPT		2.045	
2001-01-17	2000	33917.000	A	RPT		5.218	
2001-05-17	2001	39208.000	A	RPT		1.624	

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2001-06-30	2001	39212.000	A	RPT		0.001	
2001-09-30	2001	48868.000	A	RPT		2.963	
2002-01-03	2002	56680.000	A	RPT		2.397	
2002-06-30	2002	70870.000	A	RPT		4.355	
2002-12-31	2002	112683.000	A	RPT		12.832	
2003-03-31	2003	134871.000	A	RPT		6.809	
2003-06-30	2003	135029.000	A	RPT		0.048	
2003-09-30	2003	139662.000	A	ab		1.422	
2003-12-31	2003	145345.000	A	ab		1.744	
2004-04-05	2004	162284.000	A	RPT		5.198	
2004-10-07	2004	172774.000	A	tw		3.219	
2005-01-01	2004	180237.000	A	RPT		2.290	
2005-04-01	2005	183300.000	A	RPT		0.940	
2005-07-01	2005	183613.000	A	RPT		0.096	
2005-10-10	2005	185173.000	A	RPT		0.479	
2006-01-01	2005	185386.000	A	RPT		0.065	
2006-03-31	2006	186880.000	A	RPT		0.458	
2006-06-30	2006	196667.000	A	tw		3.004	
2006-12-31	2006	205842.000	A	tw		2.816	
2007-04-03	2007	211071.000	A	RPT		1.605	
2007-07-01	2007	211071.000	A	RPT		0.000	
2007-10-01	2007	211071.000	A	RPT		0.000	
2007-12-03	2007	211071.000	A	RPT		0.000	
2008-03-30	2008	211071.000	A	RPT		0.000	
2008-06-30	2008	211071.000	A	RPT		0.000	
2008-09-30	2008	211071.000	A	RPT		0.000	
2008-12-30	2008	211071.000	A	RPT		0.000	
2010-03-31	2010	109594.000	R	RPT	Meter Rollover	275.747	
2010-06-30	2010	156195.000	A	tw		14.301	

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2010-09-30	2010	199335.000	A	RPT		13.239	
2010-12-31	2010	231813.000	A	RPT		9.967	
2011-04-01	2011	263630.000	A	RPT		9.764	

**YTD Meter Amounts:**

Year	Amount
1999	5.033
2000	7.540
2001	4.588
2002	19.584
2003	10.023
2004	10.707
2005	1.580
2006	6.278
2007	1.605
2008	0.000
2010	313.254
2011	9.764

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Point of Diversion Summary

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# Monitoring location

25S.34E.15.24234 - USGS-320738103270501

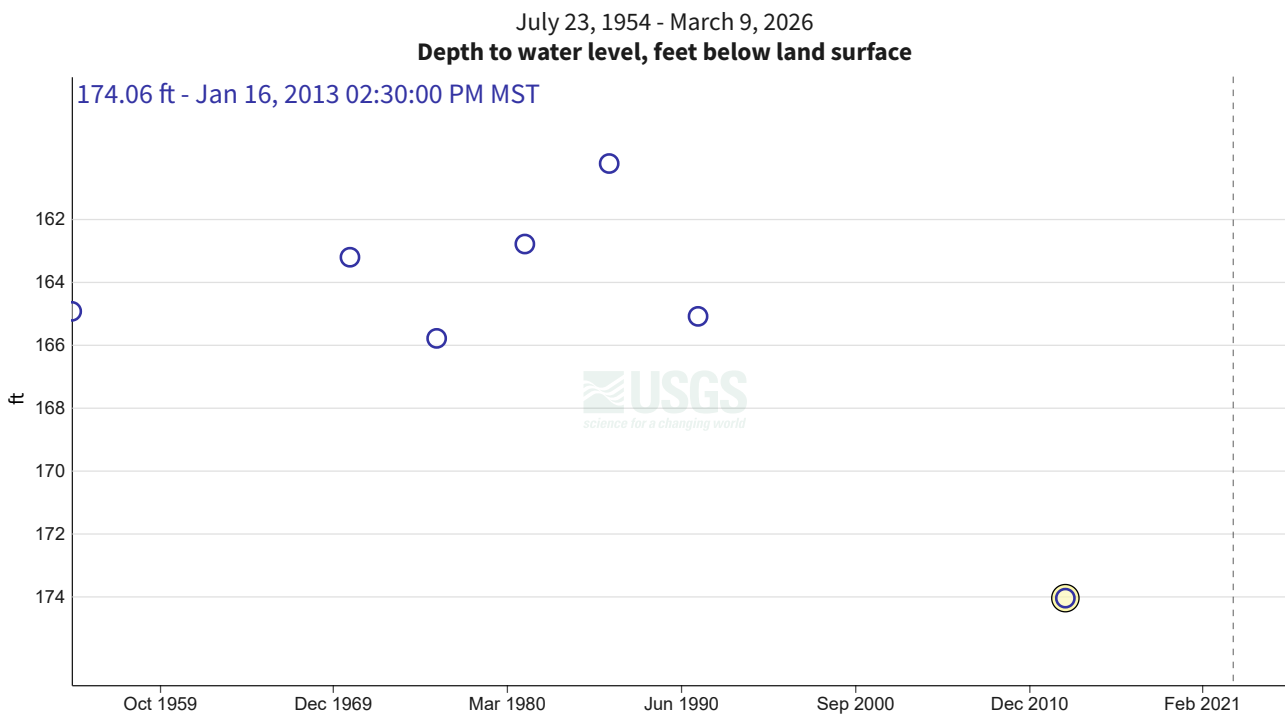
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**DID YOU KNOW** You can see all water data collected at this monitoring location in the *Available data* section of the page. Learn more about [centralized water data delivery](#) in WDFN.

1 year  10 years  Period of record

## Field measurements

25S.34E.15.24234 - USGS-320738103270501



**IMPORTANT** Data may be [provisional](#)

[Hide legend](#) ^

- Field measurement
- Selected field measurement

[Hide legend](#) ^

[Hide graph details](#) ^

	Value	Status	
<input checked="" type="radio"/> Selected field measurement	174.06	Approved Above, Pumping	Jan 16, 2013 02:30:00 PM MST

[Hide graph details](#) ^

Change time span

Download data

View data records

### Available data

Show all data types

Select data types to graph from categories based on the way the data were collected.

[Learn about the data collection categories](#)

#### Continuous data

0 data types available

#### Daily data

0 data types available

#### Field measurements

3 data types available - data from 1954-07-23 to 2013-01-16

Hide these data types

Field measurements are physically measured values collected during a visit to the monitoring location.

[Learn about Field measurements](#)

Data type	Data date range
<a href="#">Graphed</a> Depth to water level, feet below land surface	1954-07-23 2013-01-16
<a href="#">Graph it</a> Groundwater level above NAVD 1988, feet	1954-07-23 2013-01-16
<a href="#">Graph it</a> Groundwater level above NGVD 1929, feet	1954-07-23 2013-01-16

Hide these data types

#### Discrete sample data

0 observed properties (data types) available

Questions or Comments

#### Statistical tables for select daily data types

0 data types available

#### Location details and information

Hide location details

Metadata Element	Location Metadata	Metadata Code
Agency ⓘ	U.S. Geological Survey	USGS
Location identification number ⓘ	320738103270501	n/a
Location name ⓘ	25S.34E.15.24234	n/a
Site type ⓘ	Well ⓘ	GW
Decimal latitude	32.1325277777778	n/a
Decimal longitude	-103.450666666667	n/a
Latitude-longitude method ⓘ	Mapping grade GPS unit (handheld accuracy range 12 to 40 ft)	G
Latitude-longitude accuracy ⓘ	Accurate to + or - 3 sec (SPS GPS).	R
Latitude-longitude datum ⓘ	North American Datum of 1983	NAD83
District ⓘ	New Mexico	35

Metadata Element	Location Metadata	Metadata Code
State ⓘ	New Mexico	35
County ⓘ	Lea County	025
Country	United States of America	n/a
Altitude of gage/land surface	3345 feet	n/a
Method altitude determined	Interpolated from topographic map.	M
Altitude accuracy	5 feet	n/a
Altitude datum ⓘ	National Geodetic Vertical Datum of 1929	NGVD29
Subbasin hydrologic unit ⓘ	Landreth-Monument Draws	13070007
Drainage basin ⓘ		n/a
Date of first construction ⓘ		n/a
Drainage area ⓘ		n/a
Contributing drainage area		n/a
Time zone abbreviation	MST	n/a
Site honors Daylight Saving Time ⓘ	Y	n/a
National aquifer	Other aquifers	N9999OTHER
Local aquifer	Ogallala Formation	121OGLL
Local aquifer type		n/a
Well depth		n/a
Hole depth ⓘ		n/a
Source of depth data		n/a

### Monitoring locations with continuous data in last 120 days

No locations found

Zoom out to see link to My Favorites  
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3/9/26, 9:56 PM

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Groundwater levels for New Mexico

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Search Results -- 1 sites found

Agency code = usgs  
site\_no list =  
• 320738103270501

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 320738103270501 25S.34E.15.24234

Lea County, New Mexico  
Latitude 32°07'57.1", Longitude 103°27'02.4" NAD83  
Land-surface elevation 3,345.00 feet above NGVD29  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1954-07-23		D	62610		3180.06	NGVD29	3	Z			A
1954-07-23		D	62611		3181.62	NAVD88	3	Z			A
1954-07-23		D	72019	164.94			3	Z			A
1970-12-08		D	62610		3181.78	NGVD29	3	Z			A
1970-12-08		D	62611		3183.34	NAVD88	3	Z			A
1970-12-08		D	72019	163.22			3	Z			A
1976-01-15		D	62610		3179.20	NGVD29	1	Z			A
1976-01-15		D	62611		3180.76	NAVD88	1	Z			A
1976-01-15		D	72019	165.80			1	Z			A
1981-03-25		D	62610		3182.20	NGVD29	1	Z			A
1981-03-25		D	62611		3183.76	NAVD88	1	Z			A
1981-03-25		D	72019	162.80			1	Z			A
1986-03-12		D	62610		3184.76	NGVD29	1	Z			A
1986-03-12		D	62611		3186.32	NAVD88	1	Z			A
1986-03-12		D	72019	160.24			1	Z			A
1991-06-05		D	62610		3179.90	NGVD29	1	Z			A
1991-06-05		D	62611		3181.46	NAVD88	1	Z			A
1991-06-05		D	72019	165.10			1	Z			A
2013-01-16	21:30 UTC	m	62610		3170.94	NGVD29	3	S	USGS	S	A
2013-01-16	21:30 UTC	m	62611		3172.50	NAVD88	3	S	USGS	S	A
2013-01-16	21:30 UTC	m	72019	174.06			3	S	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	3	Above
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Page Last Modified: 2021-02-18 16:51:07 EST

0.35 0.29 nadww02



# 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 Code	Sub-basin	County	Q 6	Q 4	Q 1	Q 2	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">C_02373</a>		CUB	LE	4	1	32	24S	34E			641979	3560916*	2750	600		
<a href="#">C_02373 S</a>		CUB	LE	1	2	1	13	25S	33E		638721	3556549*	3272	625	185	440
<a href="#">C_02373 CLW317846</a>	O	CUB	LE	2	1	1	13	25S	33E		638518	3556544*	3451	625	185	440

Average Depth to Water: **185 feet**

Minimum Depth: **185 feet**

Maximum Depth: **185 feet**

**Record Count:** 3

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 641546.73

**Northing (Y):** 3558199.29

**Radius:** 3800

\*UTM location was derived from PLSS - see Help

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3/16/21 1:05 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

## Appendix C



# Certificate of Analysis Summary 690617

Tetra Tech- Midland, Midland, TX

Project Name: Diamond 8 Com #4H

**Project Id:** 212C-MD-02419 TASK:1900

**Date Received in Lab:** Fri 03.05.2021 12:41

**Contact:** Clair Gonzales

**Report Date:** 03.15.2021 10:16

**Project Location:** Lea County, NM

**Project Manager:** Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	690617-001	690617-002	690617-003	690617-004	690617-005	690617-006
	<i>Field Id:</i>	AH-1 (0-1')	AH-1 (1.5'-2')	AH-2 (0-1')	AH-2 (1.5'-2')	AH-3 (0-1')	AH-3 (1.5'-2')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	03.02.2021 00:00	03.02.2021 00:00	03.02.2021 00:00	03.02.2021 00:00	03.02.2021 00:00	03.02.2021 00:00
<b>BTEX by EPA 8021B</b>	<i>Extracted:</i>	03.11.2021 16:00	03.11.2021 16:00	03.11.2021 16:00	03.11.2021 16:00	03.11.2021 16:00	03.11.2021 16:00
	<i>Analyzed:</i>	03.12.2021 09:30	03.12.2021 09:51	03.12.2021 10:11	03.12.2021 10:31	03.12.2021 10:52	03.12.2021 11:12
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Toluene		<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Ethylbenzene		<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
m,p-Xylenes		<0.00398 0.00398	<0.00398 0.00398	<0.00398 0.00398	<0.00400 0.00400	<0.00398 0.00398	<0.00399 0.00399
o-Xylene		<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Total Xylenes		<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Total BTEX		<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
<b>Inorganic Anions by EPA 300/300.1</b>	<i>Extracted:</i>	03.06.2021 14:30	03.06.2021 14:30	03.06.2021 14:30	03.06.2021 14:30	03.06.2021 14:30	03.06.2021 14:30
	<i>Analyzed:</i>	03.06.2021 16:27	03.06.2021 16:32	03.06.2021 16:37	03.06.2021 16:42	03.06.2021 16:47	03.06.2021 16:52
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		10.8 4.95	9.97 5.02	29.4 5.03	17.6 5.04	9.64 5.00	13.7 5.00
<b>TPH By SW8015 Mod</b>	<i>Extracted:</i>	03.05.2021 17:00	03.05.2021 17:00	03.05.2021 17:00	03.05.2021 17:00	03.05.2021 17:00	03.05.2021 17:00
	<i>Analyzed:</i>	03.06.2021 01:45	03.06.2021 02:07	03.06.2021 02:28	03.06.2021 02:51	03.06.2021 03:12	03.06.2021 03:34
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0
Total TPH		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0

BRL - Below Reporting Limit

*Jessica Kramer*

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



# Certificate of Analysis Summary 690617

Tetra Tech- Midland, Midland, TX

Project Name: Diamond 8 Com #4H

**Project Id:** 212C-MD-02419 TASK:1900

**Date Received in Lab:** Fri 03.05.2021 12:41

**Contact:** Clair Gonzales

**Report Date:** 03.15.2021 10:16

**Project Location:** Lea County, NM

**Project Manager:** Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	690617-007	690617-008	690617-009	690617-010	690617-011	690617-012
	<i>Field Id:</i>	AH-4 (0-1')	AH-4 (1.5'-2')	AH-5 (0-1')	AH-5 (1.5'-2')	AH-6 (0-1')	AH-6 (1.5'-2')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	03.02.2021 00:00	03.02.2021 00:00	03.02.2021 00:00	03.02.2021 00:00	03.02.2021 00:00	03.02.2021 00:00
<b>BTEX by EPA 8021B</b>	<i>Extracted:</i>	03.11.2021 16:00	03.11.2021 16:00	03.11.2021 16:00	03.11.2021 16:00	03.11.2021 16:00	03.11.2021 16:00
	<i>Analyzed:</i>	03.12.2021 11:33	03.12.2021 11:53	03.12.2021 12:13	03.12.2021 12:34	03.12.2021 14:24	03.12.2021 14:44
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200
m,p-Xylenes		<0.00399 0.00399	<0.00399 0.00399	<0.00398 0.00398	<0.00402 0.00402	<0.00396 0.00396	<0.00400 0.00400
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200
<b>Inorganic Anions by EPA 300/300.1</b>	<i>Extracted:</i>	03.06.2021 14:30	03.06.2021 15:00	03.06.2021 15:00	03.06.2021 15:00	03.06.2021 15:00	03.06.2021 15:00
	<i>Analyzed:</i>	03.06.2021 16:57	03.06.2021 17:27	03.06.2021 17:42	03.06.2021 17:47	03.06.2021 17:52	03.06.2021 17:57
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		13.8 5.00	13.9 5.02	19.3 5.04	14.2 4.96	9.76 5.00	7.77 4.99
<b>TPH By SW8015 Mod</b>	<i>Extracted:</i>	03.05.2021 17:00	03.05.2021 17:00	03.05.2021 17:00	03.05.2021 17:00	03.05.2021 17:00	03.05.2021 17:00
	<i>Analyzed:</i>	03.06.2021 04:18	03.06.2021 04:40	03.06.2021 05:02	03.06.2021 05:24	03.06.2021 05:45	03.06.2021 06:06
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<49.9 49.9	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0
Total TPH		<49.9 49.9	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0

BRL - Below Reporting Limit

*Jessica Kramer*

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# Certificate of Analysis Summary 690617

Tetra Tech- Midland, Midland, TX

Project Name: Diamond 8 Com #4H

**Project Id:** 212C-MD-02419 TASK:1900

**Date Received in Lab:** Fri 03.05.2021 12:41

**Contact:** Clair Gonzales

**Report Date:** 03.15.2021 10:16

**Project Location:** Lea County, NM

**Project Manager:** Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	690617-013	690617-014	690617-015	690617-016		
	<i>Field Id:</i>	AH-7 (0-1')	AH-7 (1.5'-2')	AH-8 (0-1')	AH-8 (1.5'-2')		
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	03.02.2021 00:00	03.02.2021 00:00	03.02.2021 00:00	03.02.2021 00:00		
<b>BTEX by EPA 8021B</b>	<i>Extracted:</i>	03.11.2021 16:00	03.11.2021 16:00	03.11.2021 16:00	03.11.2021 16:00		
	<i>Analyzed:</i>	03.12.2021 15:05	03.12.2021 15:25	03.12.2021 15:46	03.12.2021 16:06		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		<0.00202 0.00202	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199		
Toluene		<0.00202 0.00202	0.00308 0.00201	<0.00202 0.00202	<0.00199 0.00199		
Ethylbenzene		<0.00202 0.00202	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199		
m,p-Xylenes		<0.00403 0.00403	<0.00402 0.00402	<0.00404 0.00404	<0.00398 0.00398		
o-Xylene		<0.00202 0.00202	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199		
Total Xylenes		<0.00202 0.00202	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199		
Total BTEX		<0.00202 0.00202	0.00308 0.00201	<0.00202 0.00202	<0.00199 0.00199		
<b>Inorganic Anions by EPA 300/300.1</b>	<i>Extracted:</i>	03.06.2021 15:00	03.06.2021 15:00	03.06.2021 15:00	03.06.2021 15:00		
	<i>Analyzed:</i>	03.06.2021 18:12	03.06.2021 18:17	03.06.2021 18:22	03.06.2021 18:27		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		9.28 4.96	7.53 4.98	9.24 5.05	7.91 5.03		
<b>TPH By SW8015 Mod</b>	<i>Extracted:</i>	03.05.2021 17:00	03.05.2021 17:00	03.05.2021 17:00	03.05.2021 17:00		
	<i>Analyzed:</i>	03.06.2021 06:27	03.06.2021 06:48	03.06.2021 07:10	03.06.2021 07:32		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<49.8 49.8	87.9 49.9	50.9 49.9		
Diesel Range Organics (DRO)		<49.9 49.9	<49.8 49.8	<49.9 49.9	<49.9 49.9		
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.8 49.8	<49.9 49.9	<49.9 49.9		
Total TPH		<49.9 49.9	<49.8 49.8	87.9 49.9	50.9 49.9		

BRL - Below Reporting Limit

*Jessica Kramer*

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

# Analytical Report 690617

for

## Tetra Tech- Midland

Project Manager: Clair Gonzales

Diamond 8 Com #4H

212C-MD-02419 TASK:1900

03.15.2021

Collected By: Client



1211 W. Florida Ave  
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)  
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):  
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)  
Xenco-Carlsbad (LELAP): Louisiana (05092)  
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)  
Xenco-Tampa: Florida (E87429), North Carolina (483)



03.15.2021

Project Manager: **Clair Gonzales**

**Tetra Tech- Midland**

901 West Wall ST

Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **690617**

**Diamond 8 Com #4H**

Project Address: Lea County, NM

**Clair Gonzales:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 690617. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 690617 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Jessica Kramer'.

---

**Jessica Kramer**

Project Manager

*A Small Business and Minority Company*

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# Sample Cross Reference 690617

## Tetra Tech- Midland, Midland, TX

Diamond 8 Com #4H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
AH-1 (0-1')	S	03.02.2021 00:00		690617-001
AH-1 (1.5'-2')	S	03.02.2021 00:00		690617-002
AH-2 (0-1')	S	03.02.2021 00:00		690617-003
AH-2 (1.5'-2')	S	03.02.2021 00:00		690617-004
AH-3 (0-1')	S	03.02.2021 00:00		690617-005
AH-3 (1.5'-2')	S	03.02.2021 00:00		690617-006
AH-4 (0-1')	S	03.02.2021 00:00		690617-007
AH-4 (1.5'-2')	S	03.02.2021 00:00		690617-008
AH-5 (0-1')	S	03.02.2021 00:00		690617-009
AH-5 (1.5'-2')	S	03.02.2021 00:00		690617-010
AH-6 (0-1')	S	03.02.2021 00:00		690617-011
AH-6 (1.5'-2')	S	03.02.2021 00:00		690617-012
AH-7 (0-1')	S	03.02.2021 00:00		690617-013
AH-7 (1.5'-2')	S	03.02.2021 00:00		690617-014
AH-8 (0-1')	S	03.02.2021 00:00		690617-015
AH-8 (1.5'-2')	S	03.02.2021 00:00		690617-016



## CASE NARRATIVE

**Client Name: Tetra Tech- Midland**

**Project Name: Diamond 8 Com #4H**

Project ID: 212C-MD-02419 TASK:  
Work Order Number(s): 690617

Report Date: 03.15.2021  
Date Received: 03.05.2021

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### **Sample receipt non conformances and comments:**

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### **Sample receipt non conformances and comments per sample:**

None

### **Analytical non conformances and comments:**

Batch: LBA-3153406 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.

Samples affected are: 690617-014.



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-1 (0-1')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-001 Date Collected: 03.02.2021 00:00  
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P  
 Tech: SPC  
 Analyst: SPC Date Prep: 03.06.2021 14:30 % Moisture:  
 Seq Number: 3152765 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.8	4.95	mg/kg	03.06.2021 16:27		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P  
 Tech: DVM  
 Analyst: ARM Date Prep: 03.05.2021 17:00 % Moisture:  
 Seq Number: 3152841 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.06.2021 01:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.06.2021 01:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.06.2021 01:45	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.06.2021 01:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	03.06.2021 01:45	
o-Terphenyl	84-15-1	78	%	70-130	03.06.2021 01:45	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-1 (0-1')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-001 Date Collected: 03.02.2021 00:00  
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A  
 Tech: KTL  
 Analyst: KTL Date Prep: 03.11.2021 16:00 % Moisture:  
 Seq Number: 3153406 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.12.2021 09:30	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.12.2021 09:30	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.12.2021 09:30	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.12.2021 09:30	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.12.2021 09:30	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.12.2021 09:30	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.12.2021 09:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	03.12.2021 09:30	
1,4-Difluorobenzene	540-36-3	104	%	70-130	03.12.2021 09:30	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-1 (1.5'-2')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-002 Date Collected: 03.02.2021 00:00  
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P  
 Tech: SPC  
 Analyst: SPC Date Prep: 03.06.2021 14:30 % Moisture:  
 Seq Number: 3152765 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.97	5.02	mg/kg	03.06.2021 16:32		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P  
 Tech: DVM  
 Analyst: ARM Date Prep: 03.05.2021 17:00 % Moisture:  
 Seq Number: 3152841 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.06.2021 02:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.06.2021 02:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.06.2021 02:07	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.06.2021 02:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	03.06.2021 02:07	
o-Terphenyl	84-15-1	79	%	70-130	03.06.2021 02:07	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-1 (1.5'-2')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-002 Date Collected: 03.02.2021 00:00  
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A  
 Tech: KTL  
 Analyst: KTL Date Prep: 03.11.2021 16:00 % Moisture:  
 Seq Number: 3153406 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.12.2021 09:51	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.12.2021 09:51	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.12.2021 09:51	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.12.2021 09:51	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.12.2021 09:51	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.12.2021 09:51	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.12.2021 09:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	03.12.2021 09:51	
1,4-Difluorobenzene	540-36-3	104	%	70-130	03.12.2021 09:51	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-2 (0-1')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-003 Date Collected: 03.02.2021 00:00  
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P  
 Tech: SPC  
 Analyst: SPC Date Prep: 03.06.2021 14:30 % Moisture:  
 Seq Number: 3152765 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	29.4	5.03	mg/kg	03.06.2021 16:37		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P  
 Tech: DVM  
 Analyst: ARM Date Prep: 03.05.2021 17:00 % Moisture:  
 Seq Number: 3152841 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.06.2021 02:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.06.2021 02:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.06.2021 02:28	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.06.2021 02:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	03.06.2021 02:28	
o-Terphenyl	84-15-1	77	%	70-130	03.06.2021 02:28	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-2 (0-1')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-003 Date Collected: 03.02.2021 00:00  
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A  
 Tech: KTL  
 Analyst: KTL Date Prep: 03.11.2021 16:00 % Moisture:  
 Seq Number: 3153406 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.12.2021 10:11	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.12.2021 10:11	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.12.2021 10:11	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.12.2021 10:11	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.12.2021 10:11	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.12.2021 10:11	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.12.2021 10:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	03.12.2021 10:11	
4-Bromofluorobenzene	460-00-4	107	%	70-130	03.12.2021 10:11	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-2 (1.5'-2')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-004 Date Collected: 03.02.2021 00:00  
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P  
 Tech: SPC  
 Analyst: SPC Date Prep: 03.06.2021 14:30 % Moisture:  
 Seq Number: 3152765 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	17.6	5.04	mg/kg	03.06.2021 16:42		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P  
 Tech: DVM  
 Analyst: ARM Date Prep: 03.05.2021 17:00 % Moisture:  
 Seq Number: 3152841 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	03.06.2021 02:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	03.06.2021 02:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	03.06.2021 02:51	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	03.06.2021 02:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	03.06.2021 02:51	
o-Terphenyl	84-15-1	74	%	70-130	03.06.2021 02:51	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-2 (1.5'-2')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-004 Date Collected: 03.02.2021 00:00  
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A  
 Tech: KTL  
 Analyst: KTL Date Prep: 03.11.2021 16:00 % Moisture:  
 Seq Number: 3153406 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.12.2021 10:31	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.12.2021 10:31	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.12.2021 10:31	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	03.12.2021 10:31	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.12.2021 10:31	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.12.2021 10:31	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.12.2021 10:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	03.12.2021 10:31	
1,4-Difluorobenzene	540-36-3	102	%	70-130	03.12.2021 10:31	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-3 (0-1')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-005 Date Collected: 03.02.2021 00:00  
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P  
 Tech: SPC  
 Analyst: SPC Date Prep: 03.06.2021 14:30 % Moisture:  
 Seq Number: 3152765 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.64	5.00	mg/kg	03.06.2021 16:47		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P  
 Tech: DVM  
 Analyst: ARM Date Prep: 03.05.2021 17:00 % Moisture:  
 Seq Number: 3152841 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.06.2021 03:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.06.2021 03:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.06.2021 03:12	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.06.2021 03:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-130	03.06.2021 03:12	
o-Terphenyl	84-15-1	78	%	70-130	03.06.2021 03:12	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-3 (0-1')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-005 Date Collected: 03.02.2021 00:00  
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A  
 Tech: KTL  
 Analyst: KTL Date Prep: 03.11.2021 16:00 % Moisture:  
 Seq Number: 3153406 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.12.2021 10:52	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.12.2021 10:52	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.12.2021 10:52	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.12.2021 10:52	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.12.2021 10:52	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.12.2021 10:52	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.12.2021 10:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	03.12.2021 10:52	
1,4-Difluorobenzene	540-36-3	101	%	70-130	03.12.2021 10:52	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-3 (1.5'-2')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-006 Date Collected: 03.02.2021 00:00  
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P  
 Tech: SPC  
 Analyst: SPC Date Prep: 03.06.2021 14:30 % Moisture:  
 Seq Number: 3152765 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.7	5.00	mg/kg	03.06.2021 16:52		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P  
 Tech: DVM  
 Analyst: ARM Date Prep: 03.05.2021 17:00 % Moisture:  
 Seq Number: 3152841 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.06.2021 03:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.06.2021 03:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.06.2021 03:34	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.06.2021 03:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	03.06.2021 03:34	
o-Terphenyl	84-15-1	83	%	70-130	03.06.2021 03:34	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-3 (1.5'-2')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-006 Date Collected: 03.02.2021 00:00  
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A  
 Tech: KTL  
 Analyst: KTL Date Prep: 03.11.2021 16:00 % Moisture:  
 Seq Number: 3153406 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.12.2021 11:12	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.12.2021 11:12	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.12.2021 11:12	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	03.12.2021 11:12	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.12.2021 11:12	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.12.2021 11:12	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.12.2021 11:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	03.12.2021 11:12	
4-Bromofluorobenzene	460-00-4	109	%	70-130	03.12.2021 11:12	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-4 (0-1')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-007 Date Collected: 03.02.2021 00:00  
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P  
 Tech: SPC  
 Analyst: SPC Date Prep: 03.06.2021 14:30 % Moisture:  
 Seq Number: 3152765 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.8	5.00	mg/kg	03.06.2021 16:57		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P  
 Tech: DVM  
 Analyst: ARM Date Prep: 03.05.2021 17:00 % Moisture:  
 Seq Number: 3152841 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.06.2021 04:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.06.2021 04:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.06.2021 04:18	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.06.2021 04:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-130	03.06.2021 04:18	
o-Terphenyl	84-15-1	76	%	70-130	03.06.2021 04:18	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-4 (0-1')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-007 Date Collected: 03.02.2021 00:00  
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A  
 Tech: KTL  
 Analyst: KTL Date Prep: 03.11.2021 16:00 % Moisture:  
 Seq Number: 3153406 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.12.2021 11:33	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.12.2021 11:33	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.12.2021 11:33	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	03.12.2021 11:33	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.12.2021 11:33	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.12.2021 11:33	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.12.2021 11:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	03.12.2021 11:33	
1,4-Difluorobenzene	540-36-3	103	%	70-130	03.12.2021 11:33	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-4 (1.5'-2')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-008 Date Collected: 03.02.2021 00:00  
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P  
 Tech: SPC  
 Analyst: SPC Date Prep: 03.06.2021 15:00 % Moisture: Wet Weight  
 Seq Number: 3152766 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.9	5.02	mg/kg	03.06.2021 17:27		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P  
 Tech: DVM  
 Analyst: ARM Date Prep: 03.05.2021 17:00 % Moisture: Wet Weight  
 Seq Number: 3152841 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.06.2021 04:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.06.2021 04:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.06.2021 04:40	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.06.2021 04:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	03.06.2021 04:40	
o-Terphenyl	84-15-1	75	%	70-130	03.06.2021 04:40	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-4 (1.5'-2')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-008 Date Collected: 03.02.2021 00:00  
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A  
 Tech: KTL  
 Analyst: KTL Date Prep: 03.11.2021 16:00 % Moisture:  
 Seq Number: 3153406 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.12.2021 11:53	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.12.2021 11:53	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.12.2021 11:53	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	03.12.2021 11:53	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.12.2021 11:53	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.12.2021 11:53	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.12.2021 11:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	03.12.2021 11:53	
4-Bromofluorobenzene	460-00-4	106	%	70-130	03.12.2021 11:53	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-5 (0-1')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-009 Date Collected: 03.02.2021 00:00  
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P  
 Tech: SPC  
 Analyst: SPC Date Prep: 03.06.2021 15:00 % Moisture:  
 Seq Number: 3152766 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.3	5.04	mg/kg	03.06.2021 17:42		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P  
 Tech: DVM  
 Analyst: ARM Date Prep: 03.05.2021 17:00 % Moisture:  
 Seq Number: 3152841 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	03.06.2021 05:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	03.06.2021 05:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	03.06.2021 05:02	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	03.06.2021 05:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	03.06.2021 05:02	
o-Terphenyl	84-15-1	73	%	70-130	03.06.2021 05:02	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-5 (0-1')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-009 Date Collected: 03.02.2021 00:00  
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A  
 Tech: KTL  
 Analyst: KTL Date Prep: 03.11.2021 16:00 % Moisture:  
 Seq Number: 3153406 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.12.2021 12:13	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.12.2021 12:13	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.12.2021 12:13	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.12.2021 12:13	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.12.2021 12:13	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.12.2021 12:13	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.12.2021 12:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	03.12.2021 12:13	
1,4-Difluorobenzene	540-36-3	104	%	70-130	03.12.2021 12:13	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-5 (1.5'-2')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-010 Date Collected: 03.02.2021 00:00  
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P  
 Tech: SPC  
 Analyst: SPC Date Prep: 03.06.2021 15:00 % Moisture:  
 Seq Number: 3152766 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.2	4.96	mg/kg	03.06.2021 17:47		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P  
 Tech: DVM  
 Analyst: ARM Date Prep: 03.05.2021 17:00 % Moisture:  
 Seq Number: 3152841 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.06.2021 05:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.06.2021 05:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.06.2021 05:24	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.06.2021 05:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-130	03.06.2021 05:24	
o-Terphenyl	84-15-1	72	%	70-130	03.06.2021 05:24	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-5 (1.5'-2')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-010 Date Collected: 03.02.2021 00:00  
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A  
 Tech: KTL  
 Analyst: KTL Date Prep: 03.11.2021 16:00 % Moisture:  
 Seq Number: 3153406 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.12.2021 12:34	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.12.2021 12:34	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.12.2021 12:34	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.12.2021 12:34	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.12.2021 12:34	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	03.12.2021 12:34	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.12.2021 12:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	03.12.2021 12:34	
4-Bromofluorobenzene	460-00-4	111	%	70-130	03.12.2021 12:34	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-6 (0-1')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-011 Date Collected: 03.02.2021 00:00  
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P  
 Tech: SPC  
 Analyst: SPC Date Prep: 03.06.2021 15:00 % Moisture:  
 Seq Number: 3152766 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.76	5.00	mg/kg	03.06.2021 17:52		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P  
 Tech: DVM  
 Analyst: ARM Date Prep: 03.05.2021 17:00 % Moisture:  
 Seq Number: 3152841 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.06.2021 05:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.06.2021 05:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.06.2021 05:45	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.06.2021 05:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	03.06.2021 05:45	
o-Terphenyl	84-15-1	79	%	70-130	03.06.2021 05:45	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-6 (0-1')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-011 Date Collected: 03.02.2021 00:00  
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A  
 Tech: KTL  
 Analyst: KTL Date Prep: 03.11.2021 16:00 % Moisture:  
 Seq Number: 3153406 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.12.2021 14:24	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.12.2021 14:24	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.12.2021 14:24	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	03.12.2021 14:24	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.12.2021 14:24	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	03.12.2021 14:24	U	1
Total BTEX		<0.00198	0.00198	mg/kg	03.12.2021 14:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	03.12.2021 14:24	
4-Bromofluorobenzene	460-00-4	106	%	70-130	03.12.2021 14:24	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-6 (1.5'-2')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-012 Date Collected: 03.02.2021 00:00  
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P  
 Tech: SPC  
 Analyst: SPC Date Prep: 03.06.2021 15:00 % Moisture:  
 Seq Number: 3152766 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.77	4.99	mg/kg	03.06.2021 17:57		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P  
 Tech: DVM  
 Analyst: ARM Date Prep: 03.05.2021 17:00 % Moisture:  
 Seq Number: 3152841 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.06.2021 06:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.06.2021 06:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.06.2021 06:06	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.06.2021 06:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	03.06.2021 06:06	
o-Terphenyl	84-15-1	82	%	70-130	03.06.2021 06:06	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-6 (1.5'-2')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-012 Date Collected: 03.02.2021 00:00  
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A  
 Tech: KTL  
 Analyst: KTL Date Prep: 03.11.2021 16:00 % Moisture:  
 Seq Number: 3153406 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.12.2021 14:44	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.12.2021 14:44	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.12.2021 14:44	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	03.12.2021 14:44	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.12.2021 14:44	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.12.2021 14:44	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.12.2021 14:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	03.12.2021 14:44	
4-Bromofluorobenzene	460-00-4	108	%	70-130	03.12.2021 14:44	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-7 (0-1')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-013 Date Collected: 03.02.2021 00:00  
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P  
 Tech: SPC  
 Analyst: SPC Date Prep: 03.06.2021 15:00 % Moisture:  
 Seq Number: 3152766 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.28	4.96	mg/kg	03.06.2021 18:12		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P  
 Tech: DVM  
 Analyst: ARM Date Prep: 03.05.2021 17:00 % Moisture:  
 Seq Number: 3152841 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.06.2021 06:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.06.2021 06:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.06.2021 06:27	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.06.2021 06:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	03.06.2021 06:27	
o-Terphenyl	84-15-1	84	%	70-130	03.06.2021 06:27	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-7 (0-1')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-013 Date Collected: 03.02.2021 00:00  
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A  
 Tech: KTL  
 Analyst: KTL Date Prep: 03.11.2021 16:00 % Moisture:  
 Seq Number: 3153406 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	03.12.2021 15:05	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	03.12.2021 15:05	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	03.12.2021 15:05	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	03.12.2021 15:05	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	03.12.2021 15:05	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	03.12.2021 15:05	U	1
Total BTEX		<0.00202	0.00202	mg/kg	03.12.2021 15:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	03.12.2021 15:05	
1,4-Difluorobenzene	540-36-3	102	%	70-130	03.12.2021 15:05	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-7 (1.5'-2')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-014 Date Collected: 03.02.2021 00:00  
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P  
 Tech: SPC  
 Analyst: SPC Date Prep: 03.06.2021 15:00 % Moisture:  
 Seq Number: 3152766 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.53	4.98	mg/kg	03.06.2021 18:17		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P  
 Tech: DVM  
 Analyst: ARM Date Prep: 03.05.2021 17:00 % Moisture:  
 Seq Number: 3152841 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	03.06.2021 06:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	03.06.2021 06:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	03.06.2021 06:48	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	03.06.2021 06:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-130	03.06.2021 06:48	
o-Terphenyl	84-15-1	82	%	70-130	03.06.2021 06:48	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-7 (1.5'-2')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-014 Date Collected: 03.02.2021 00:00  
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A  
 Tech: KTL  
 Analyst: KTL Date Prep: 03.11.2021 16:00 % Moisture:  
 Seq Number: 3153406 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.12.2021 15:25	U	1
<b>Toluene</b>	108-88-3	<b>0.00308</b>	0.00201	mg/kg	03.12.2021 15:25		1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.12.2021 15:25	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.12.2021 15:25	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.12.2021 15:25	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	03.12.2021 15:25	U	1
<b>Total BTEX</b>		<b>0.00308</b>	0.00201	mg/kg	03.12.2021 15:25		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	347	%	70-130	03.12.2021 15:25	**
1,4-Difluorobenzene	540-36-3	105	%	70-130	03.12.2021 15:25	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-8 (0-1')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-015 Date Collected: 03.02.2021 00:00  
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P  
 Tech: SPC  
 Analyst: SPC Date Prep: 03.06.2021 15:00 % Moisture:  
 Seq Number: 3152766 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.24	5.05	mg/kg	03.06.2021 18:22		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P  
 Tech: DVM  
 Analyst: ARM Date Prep: 03.05.2021 17:00 % Moisture:  
 Seq Number: 3152841 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
<b>Gasoline Range Hydrocarbons (GRO)</b>	PHC610	<b>87.9</b>	49.9	mg/kg	03.06.2021 07:10		1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.06.2021 07:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.06.2021 07:10	U	1
<b>Total TPH</b>	PHC635	<b>87.9</b>	49.9	mg/kg	03.06.2021 07:10		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	03.06.2021 07:10	
o-Terphenyl	84-15-1	84	%	70-130	03.06.2021 07:10	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-8 (0-1')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-015 Date Collected: 03.02.2021 00:00  
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A  
 Tech: KTL  
 Analyst: KTL Date Prep: 03.11.2021 16:00 % Moisture:  
 Seq Number: 3153406 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	03.12.2021 15:46	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	03.12.2021 15:46	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	03.12.2021 15:46	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	03.12.2021 15:46	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	03.12.2021 15:46	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	03.12.2021 15:46	U	1
Total BTEX		<0.00202	0.00202	mg/kg	03.12.2021 15:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	03.12.2021 15:46	
4-Bromofluorobenzene	460-00-4	110	%	70-130	03.12.2021 15:46	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-8 (1.5'-2')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-016 Date Collected: 03.02.2021 00:00  
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P  
 Tech: SPC  
 Analyst: SPC Date Prep: 03.06.2021 15:00 % Moisture:  
 Seq Number: 3152766 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.91	5.03	mg/kg	03.06.2021 18:27		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P  
 Tech: DVM  
 Analyst: ARM Date Prep: 03.05.2021 17:00 % Moisture:  
 Seq Number: 3152841 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
<b>Gasoline Range Hydrocarbons (GRO)</b>	PHC610	<b>50.9</b>	49.9	mg/kg	03.06.2021 07:32		1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.06.2021 07:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.06.2021 07:32	U	1
<b>Total TPH</b>	PHC635	<b>50.9</b>	49.9	mg/kg	03.06.2021 07:32		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	03.06.2021 07:32	
o-Terphenyl	84-15-1	85	%	70-130	03.06.2021 07:32	



# Certificate of Analytical Results 690617

## Tetra Tech- Midland, Midland, TX Diamond 8 Com #4H

Sample Id: **AH-8 (1.5'-2')** Matrix: Soil Date Received: 03.05.2021 12:41  
 Lab Sample Id: 690617-016 Date Collected: 03.02.2021 00:00  
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A  
 Tech: KTL  
 Analyst: KTL Date Prep: 03.11.2021 16:00 % Moisture:  
 Seq Number: 3153406 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.12.2021 16:06	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.12.2021 16:06	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.12.2021 16:06	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.12.2021 16:06	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.12.2021 16:06	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.12.2021 16:06	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.12.2021 16:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	03.12.2021 16:06	
1,4-Difluorobenzene	540-36-3	105	%	70-130	03.12.2021 16:06	





**Tetra Tech- Midland**  
Diamond 8 Com #4H

**Analytical Method:** Inorganic Anions by EPA 300/300.1

Seq Number: 3152765

Matrix: Solid

Prep Method: E300P

Date Prep: 03.06.2021

MB Sample Id: 7722685-1-BLK

LCS Sample Id: 7722685-1-BKS

LCSD Sample Id: 7722685-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	251	100	251	100	90-110	0	20	mg/kg	03.06.2021 14:32	

**Analytical Method:** Inorganic Anions by EPA 300/300.1

Seq Number: 3152766

Matrix: Solid

Prep Method: E300P

Date Prep: 03.06.2021

MB Sample Id: 7722686-1-BLK

LCS Sample Id: 7722686-1-BKS

LCSD Sample Id: 7722686-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	254	102	254	102	90-110	0	20	mg/kg	03.06.2021 17:17	

**Analytical Method:** Inorganic Anions by EPA 300/300.1

Seq Number: 3152765

Matrix: Soil

Prep Method: E300P

Date Prep: 03.06.2021

Parent Sample Id: 690433-008

MS Sample Id: 690433-008 S

MSD Sample Id: 690433-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	117	248	361	98	361	98	90-110	0	20	mg/kg	03.06.2021 14:47	

**Analytical Method:** Inorganic Anions by EPA 300/300.1

Seq Number: 3152765

Matrix: Soil

Prep Method: E300P

Date Prep: 03.06.2021

Parent Sample Id: 690616-004

MS Sample Id: 690616-004 S

MSD Sample Id: 690616-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	8.23	250	262	102	262	102	90-110	0	20	mg/kg	03.06.2021 15:57	

**Analytical Method:** Inorganic Anions by EPA 300/300.1

Seq Number: 3152766

Matrix: Soil

Prep Method: E300P

Date Prep: 03.06.2021

Parent Sample Id: 690617-008

MS Sample Id: 690617-008 S

MSD Sample Id: 690617-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	13.9	251	264	100	263	99	90-110	0	20	mg/kg	03.06.2021 17:32	

**Analytical Method:** Inorganic Anions by EPA 300/300.1

Seq Number: 3152766

Matrix: Soil

Prep Method: E300P

Date Prep: 03.06.2021

Parent Sample Id: 690619-002

MS Sample Id: 690619-002 S

MSD Sample Id: 690619-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	7.73	250	256	99	256	99	90-110	0	20	mg/kg	03.06.2021 18:42	

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

[D] = 100\*(C-A) / B  
RPD = 200\* | (C-E) / (C+E) |  
[D] = 100 \* (C) / [B]  
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec



**Tetra Tech- Midland**  
Diamond 8 Com #4H

**Analytical Method:** TPH By SW8015 Mod

Seq Number: 3152841

MB Sample Id: 7722739-1-BLK

Matrix: Solid

LCS Sample Id: 7722739-1-BKS

Prep Method: SW8015P

Date Prep: 03.05.2021

LCSD Sample Id: 7722739-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1080	108	1140	114	70-130	5	20	mg/kg	03.05.2021 22:53	
Diesel Range Organics (DRO)	<50.0	1000	930	93	958	96	70-130	3	20	mg/kg	03.05.2021 22:53	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	82		90		94		70-130	%	03.05.2021 22:53
o-Terphenyl	74		86		87		70-130	%	03.05.2021 22:53

**Analytical Method:** TPH By SW8015 Mod

Seq Number: 3152841

MB Sample Id: 7722739-1-BLK

Matrix: Solid

MB Sample Id: 7722739-1-BLK

Prep Method: SW8015P

Date Prep: 03.05.2021

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.05.2021 22:31	

**Analytical Method:** TPH By SW8015 Mod

Seq Number: 3152841

Parent Sample Id: 690614-001

Matrix: Soil

MS Sample Id: 690614-001 S

Prep Method: SW8015P

Date Prep: 03.05.2021

MSD Sample Id: 690614-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	1090	109	1120	112	70-130	3	20	mg/kg	03.05.2021 23:58	
Diesel Range Organics (DRO)	<49.9	997	938	94	974	98	70-130	4	20	mg/kg	03.05.2021 23:58	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	89		92		70-130	%	03.05.2021 23:58
o-Terphenyl	82		84		70-130	%	03.05.2021 23:58

**Analytical Method:** BTEX by EPA 8021B

Seq Number: 3153406

MB Sample Id: 7723099-1-BLK

Matrix: Solid

LCS Sample Id: 7723099-1-BKS

Prep Method: SW5035A

Date Prep: 03.11.2021

LCSD Sample Id: 7723099-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.107	107	0.0998	100	70-130	7	35	mg/kg	03.12.2021 06:42	
Toluene	<0.00200	0.100	0.103	103	0.105	105	70-130	2	35	mg/kg	03.12.2021 06:42	
Ethylbenzene	<0.00200	0.100	0.103	103	0.104	104	70-130	1	35	mg/kg	03.12.2021 06:42	
m,p-Xylenes	<0.00400	0.200	0.205	103	0.208	104	70-130	1	35	mg/kg	03.12.2021 06:42	
o-Xylene	<0.00200	0.100	0.107	107	0.108	108	70-130	1	35	mg/kg	03.12.2021 06:42	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		97		100		70-130	%	03.12.2021 06:42
4-Bromofluorobenzene	99		99		98		70-130	%	03.12.2021 06:42

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

[D] = 100\*(C-A) / B  
RPD = 200\* | (C-E) / (C+E) |  
[D] = 100 \* (C) / [B]  
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec



# QC Summary 690617

## Tetra Tech- Midland

Diamond 8 Com #4H

**Analytical Method: BTEX by EPA 8021B**

Seq Number: 3153406

Parent Sample Id: 690617-001

Matrix: Soil

MS Sample Id: 690617-001 S

Prep Method: SW5035A

Date Prep: 03.11.2021

MSD Sample Id: 690617-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0990	0.0874	88	0.0929	93	70-130	6	35	mg/kg	03.12.2021 07:23	
Toluene	<0.00198	0.0990	0.0833	84	0.0866	87	70-130	4	35	mg/kg	03.12.2021 07:23	
Ethylbenzene	<0.00198	0.0990	0.0770	78	0.0798	80	70-130	4	35	mg/kg	03.12.2021 07:23	
m,p-Xylenes	<0.00396	0.198	0.154	78	0.160	80	70-130	4	35	mg/kg	03.12.2021 07:23	
o-Xylene	<0.00198	0.0990	0.0771	78	0.0787	79	70-130	2	35	mg/kg	03.12.2021 07:23	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		103		70-130	%	03.12.2021 07:23
4-Bromofluorobenzene	95		97		70-130	%	03.12.2021 07:23

MS/MSD Percent Recovery  
 Relative Percent Difference  
 LCS/LCSD Recovery  
 Log Difference

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$   
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample  
 A = Parent Result  
 C = MS/LCS Result  
 E = MSD/LCSD Result

MS = Matrix Spike  
 B = Spike Added  
 D = MSD/LCSD % Rec

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

Client Name: EOG

Site Manager: Chair Gonzales

Project Name: Diamond 8 Com #4H

Contact Info:

Project Location: Lea County, NM

Project #: 212C-MD-02419 Task: 1900

Invoice to: James Kennedy

Receiving Laboratory: Xenco

Sampler Signature: Devin Dominguez

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	
	DATE	TIME	YEAR: 2021	DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE			NONE
AH-1 (0-1')	03/02/21		03/02/21			X						1	N
AH-1 (1.5'-2')	03/02/21		03/02/21			X						1	N
AH-2 (0-1')	03/02/21		03/02/21			X						1	N
AH-2 (1.5'-2')	03/02/21		03/02/21			X						1	N
AH-3 (0-1')	03/02/21		03/02/21			X						1	N
AH-3 (1.5'-2')	03/02/21		03/02/21			X						1	N
AH-4 (0-1')	03/02/21		03/02/21			X						1	N
AH-4 (1.5'-2')	03/02/21		03/02/21			X						1	N
AH-5 (0-1')	03/02/21		03/02/21			X						1	N
AH-5 (1.5'-2')	03/02/21		03/02/21			X						1	N

Relinquished by: *[Signature]* Date: 3-5-21 Time: *[Time]*  
 Received by: *[Signature]* Date: 3/5/21 Time: *[Time]*

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

ORIGINAL COPY

ANALYSIS REQUEST  
(Circle or Specify Method No.)

<input type="checkbox"/>	BTEX 8260B
<input type="checkbox"/>	TPH TX1005 (Ext to C35)
<input type="checkbox"/>	TPH 8015M ( GRO - DRO - ORO - MRO)
<input type="checkbox"/>	PAH 8270C
<input type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg
<input type="checkbox"/>	TCLP Metals Ag As Ba Cd Cr Pb Se Hg
<input type="checkbox"/>	TCLP Volatiles
<input type="checkbox"/>	TCLP Semi Volatiles
<input type="checkbox"/>	RCI
<input type="checkbox"/>	GC/MS Vol. 8260B / 624
<input type="checkbox"/>	GC/MS Semi. Vol. 8270C/625
<input type="checkbox"/>	PCB's 8082 / 608
<input type="checkbox"/>	NORM
<input type="checkbox"/>	PLM (Asbestos)
<input type="checkbox"/>	Chloride 300.0
<input type="checkbox"/>	Chloride Sulfate TDS
<input type="checkbox"/>	General Water Chemistry (see attached list)
<input type="checkbox"/>	Anion/Cation Balance
<input type="checkbox"/>	TPH 8015R
<input type="checkbox"/>	HOLD

LAB USE ONLY  
 Sample Temperature: 15/2.0  
 REMARKS:  
 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 #:

1090617



# Tetra Tech, Inc.

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

Client Name: EOG

Site Manager: Clair Gonzales

Project Name: Diamond 8 Com #4H

Contact Info:

Project Location: Lea County, NM  
 (county, state)

Project #: 212C-MD-02419 Task: 1900

Invoice to: James Kennedy

Receiving Laboratory: Xenco

Sampler Signature: Devin Dominguez

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	
			YEAR: 2021	DATE	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE	NONE	FILTERED (Y/N)	
	AH-6 (0-1')		03/02/21		X		X				1	N
	AH-6 (1.5'-2')		03/02/21		X		X				1	N
	AH-7 (0-1')		03/02/21		X		X				1	N
	AH-7 (1.5'-2')		03/02/21		X		X				1	N
	AH-8 (0-1')		03/02/21		X		X				1	N
	AH-8 (1.5'-2')		03/02/21		X		X				1	N

Relinquished by: *[Signature]* Date: 3-5-21 Time: *[Blank]*  
 Received by: *[Signature]* Date: 3/5/21 Time: 12:41

Relinquished by: *[Signature]* Date: *[Blank]* Time: *[Blank]*  
 Received by: *[Signature]* Date: *[Blank]* Time: *[Blank]*

ORIGINAL COPY

## ANALYSIS REQUEST (Circle or Specify Method No.)

<input type="checkbox"/>	BTEX 8021B	<input type="checkbox"/>	BTEX 8260B
<input type="checkbox"/>	TPH TX1005 (Ext to C35)	<input type="checkbox"/>	
<input type="checkbox"/>	TPH 8015M (GRO - DRO - ORO - MRO)	<input type="checkbox"/>	
<input type="checkbox"/>	PAH 8270C	<input type="checkbox"/>	
<input type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg	<input type="checkbox"/>	
<input type="checkbox"/>	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	<input type="checkbox"/>	
<input type="checkbox"/>	TCLP Volatiles	<input type="checkbox"/>	
<input type="checkbox"/>	TCLP Semi Volatiles	<input type="checkbox"/>	
<input type="checkbox"/>	RCI	<input type="checkbox"/>	
<input type="checkbox"/>	GC/MS Vol. 8260B / 624	<input type="checkbox"/>	
<input type="checkbox"/>	GC/MS Semi. Vol. 8270C/625	<input type="checkbox"/>	
<input type="checkbox"/>	PCB's 8082 / 608	<input type="checkbox"/>	
<input type="checkbox"/>	NORM	<input type="checkbox"/>	
<input type="checkbox"/>	PLM (Asbestos)	<input type="checkbox"/>	
<input type="checkbox"/>	Chloride 300.0	<input type="checkbox"/>	
<input type="checkbox"/>	Chloride Sulfate TDS	<input type="checkbox"/>	
<input type="checkbox"/>	General Water Chemistry (see attached list)	<input type="checkbox"/>	
<input type="checkbox"/>	Anion/Cation Balance	<input type="checkbox"/>	
<input type="checkbox"/>	TPH 8015R	<input type="checkbox"/>	
<input type="checkbox"/>	HOLD	<input type="checkbox"/>	

LAB USE ONLY  
 Sample Temperature: 1.5/2.0

REMARKS:  
 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 #:

690617

# Eurofins Xenco, LLC

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** Tetra Tech- Midland

**Date/ Time Received:** 03.05.2021 12.41.00 PM

**Work Order #:** 690617

**Acceptable Temperature Range:** 0 - 6 degC

**Air and Metal samples Acceptable Range:** Ambient

**Temperature Measuring device used :** IR8

### Sample Receipt Checklist

### Comments

#1 *Temperature of cooler(s)?	2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6*Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

**\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

**Checklist completed by:**



Brianna Teel

Date: 03.05.2021

**Checklist reviewed by:**



Jessica Kramer

Date: 03.09.2021

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 565980

**QUESTIONS**

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 565980
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nSAD1326256905
Incident Name	NSAD1326256905 DIAMOND 8 FEDERAL COM #004H @ 30-025-40189
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-40189] DIAMOND 8 FEDERAL COM #004H

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	DIAMOND 8 FEDERAL COM #004H
Date Release Discovered	08/20/2012
Surface Owner	Federal

<b>Incident Details</b>	
<i>Please answer all the questions in this group.</i>	
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

<b>Nature and Volume of Release</b>	
<i>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.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Flow Line - Injection   Produced Water   Released: 20 BBL   Recovered: 0 BBL   Lost: 20 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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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 565980

**QUESTIONS (continued)**

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 565980
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

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

*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: Hadlie Stout Title: Environmental Representative II Email: Hadlie_stout@eogresources.com Date: 03/31/2026
--	--

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, Page 3

Action 565980

**QUESTIONS (continued)**

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 565980
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	30
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	88
GRO+DRO (EPA SW-846 Method 8015M)	50
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	03/02/2021
On what date will (or did) the final sampling or liner inspection occur	03/02/2021
On what date will (or was) the remediation complete(d)	03/02/2021
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	0
What is the estimated volume (in cubic yards) that will be remediated	0
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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, Page 4

Action 565980

**QUESTIONS (continued)**

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 565980
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**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 <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Not answered.
(Ex Situ) Excavation and <b>on-site</b> 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)	Yes
Other Non-listed Remedial Process. Please specify	No impacted soil identified during assessment activities

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: Hadlie Stout Title: Environmental Representative II Email: Hadlie_stout@eogresources.com Date: 03/31/2026
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 565980

**QUESTIONS (continued)**

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

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QUESTIONS, Page 6

Action 565980

**QUESTIONS (continued)**

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 565980
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>569566</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>03/02/2021</b>
What was the (estimated) number of samples that were to be gathered	<b>16</b>
What was the sampling surface area in square feet	<b>3900</b>

<b>Remediation Closure Request</b>	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	No impacted soil identified during assessment activities

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

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

I hereby agree and sign off to the above statement	Name: Hadlie Stout Title: Environmental Representative II Email: Hadlie_stout@eogresources.com Date: 03/31/2026
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Action 565980

**QUESTIONS (continued)**

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 565980
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Reclamation Report</b>	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 565980

**CONDITIONS**

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 565980
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
nvez	None	4/29/2026