# SITE INFORMATION

## Report Type: Work Plan nAPP2404354589

| General Site Information: | | | | | | |
|---|---|---|---|---|---|---|
| ***Site:*** | **Hayhurst NM Section 9 CTB** | | | | | |
| ***Company:*** | **Chevron U.S.A., Inc.** | | | | | |
| ***Section, Township and Range*** | **Unit P** | **Sec. 08** | **T 26S** | **R 27E** | | |
| ***Lease Number:*** | | | | | | |
| ***County:*** | **Eddy County** | | | | | |
| ***GPS:*** | **32.05254458** | | | **-104.2015445** | | |
| ***Surface Owner:*** | Federal | | | | | |
| ***Mineral Owner:*** | | | | | | |
| ***Directions:*** | From the intersection of Road Runner Road and Whites City Road, drive west on Whites City Road 0.9-miles. Turn left and drive south 0.63-miles. Turn right and drive west for approximately 1650-feet. Turn right and drive northeast for 300 ft. The center of the spill site is located at GPS coordinate point 32.052460, -104.201540. | | | | | |

| Release Data: | |
|---|---|
| *Date Released:* | 2.12.2024 |
| *Type Release:* | Produced Water |
| *Source of Contamination:* | Equipment failure at dump valve a |
| *Fluid Released:* | 52 bbls produced water |
| *Fluids Recovered:* | 35 bbls produced water |

| Official Communication: | | | |
|---|---|---|---|
| *Name:* | Kennedy Lincoln | | John Faught |
| *Company:* | Chevron U.S.A., Inc. | | Tetra Tech |
| *Address:* | 6301 Deauville Blvd | | 901 W. Wall St. |
| | | | Ste 100 |
| *City:* | Midland, Texas 79706 | | Midland, Texas, 79701 |
| *Phone number:* | (432) 813-5384 | | (432) 682-4559 |
| *Fax:* | | | |
| *Email:* | kennedy.lincoln@chevron.com | | john.faught1@tetratech.com |

| Site Characterization | |
|---|---|
| ***Depth to Groundwater:*** | *17.75' Below Ground Surface* |
| ***Karst Potential:*** | *Medium* |

| Recommended Remedial Action Levels (RRALs) | | | | |
|---|---|---|---|---|
| ***Benzene*** | ***Total BTEX*** | ***TPH (GRO+DRO)*** | ***TPH (GRO+DRO+MRO)*** | ***Chlorides*** |
| *10 mg/kg* | *50 mg/kg* | *100 mg/kg* | *100 mg/kg* | *600 mg/kg* |

TETRA TECH

April 9, 2024

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**RE: Remediation Work Plan**
**Chevron MCBU**
**Hayhurst NM Section 9 CTB**
**Eddy County, New Mexico**
**nAPP2404354589**

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contacted by Chevron U.S.A., Inc. (Chevron) to assess releases that occurred at the Hayhurst NM Section 9 CTB, Unit P, Section 8, Township 26 South, Range 27 East, Eddy County, New Mexico (Site). The spill Site coordinates are 32.05254458°, -104.20154454°. The Site location is shown on **Figures 1 and 2**.

## Background

*Initial Release*

According to the initial C-141 and based on the previously submitted work plan dated February 9, 2024, an initial release (nAPP2336158873) at the Site occurred due to a dump valve failure, causing the release of 10 barrels (bbls) of produced water, however, none of the fluids were recovered. The release impacted an area of approximately 3,500 square feet. On December 26, 2023, the release was discovered and reported to the New Mexico Oil Conservation Division (NMOCD). A workplan for the initial release was submitted to the NMOCD on February 13, 2024, and was approved on March 11, 2024. The C-141 is shown in **Appendix A**.

*Second Release*

According to the State of New Mexico Notice of Release report, a second release (nAPP2404354589) at the Site occurred due to a dump valve failure, causing the release of 52 bbls of produced water, of which 35 bbls of fluids were recovered. The release impacted an area of approximately 2,971 square feet, partially overlapping the initial release footprint at the Site. On February 12, 2024, the release was discovered and reported to the New Mexico Oil Conservation Division (NMOCD). The Notice of Release is shown in **Appendix A**.

## Site Characterization

*Significant Water Features*

According to the (National Flood Hazard Layer) NFHL Flood Data Application and the (United States Geological Survey) USGS National Water Information System Mapper, there were no watercourses, lakebeds, sinkholes, playa lakes, springs, wetlands, subsurfaces mines,

private domestic water wells, or floodplains located within the specified distances of the Site. However, the Site is located in a medium karst area. The NFHL Map and USGS Mapper are provided in **Appendix B**.

*Significant Boundaries*

According to Google Earth US Government City Boundaries and US School Districts, the lateral extents of the release were not within incorporated municipal boundaries, a defined municipal fresh water well field, or a school district. Additionally, there were no occupied permanent residences, schools, hospitals, institutions, or churches located within the specified distances of the lateral extents of the release.

*Groundwater Review*

Groundwater research was completed for the Site through the USGS National Water Information System and New Mexico Office of the State Engineer (NMOSE) Water Rights Reporting System. Results of groundwater research conducted through these two resources, show the three closest water wells within a 2-mile radius of the Site. Point of Diversion (POD) number C 02588 reported on the NMOSE Water Rights Reporting System is listed as having a total depth of 81 ft below ground surface (bgs), and measured water level of 19 ft bgs and is located approximately 1.88 miles from the Site. USGS well, number 320323104112901, reported on the USGS National Water Information System (NWIS) is listed as having a water level measured at 17.75 ft bgs and is approximately 0.64 miles from the Site. USGS well, number 320343104110201, reported on the USGS NWIS, is listed as having a water level measured at 8.94 ft bgs and is approximately 1.05 miles from the Site. The groundwater information is shown in **Appendix B**.

| Distance from Site | Date of Data | Resource of Information | Depth of Well | Depth to Water |
|---|---|---|---|---|
| 1.88 Miles | 6/3/1998 | NMOSE | 81’ | 19’ |
| 0.64 Miles | 1/28/2003 | USGS | N/A | 17.75’ |
| 1.05 Miles | 1/9/2013 | USGS | N/A | 8.94’ |

**Regulatory**

NMOCD Guidelines for Remediation of Leaks, Spills, and Releases, updated August 14, 2018, will be followed for the Site. The guidelines require a risk-based evaluation of the Site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene, and xylene (BTEX), total petroleum hydrocarbons (TPH), and chloride concentrations in the soil at the Site. The proposed RRALs for the Site were determined to be 10 milligrams per kilogram (mg/kg) for benzene, 50 mg/kg for total BTEX, 100 mg/kg for TPH and 600 mg/kg for Chloride in the soil.

**Site Assessment Activities**

Based on the information provided by Chevron, Tetra Tech conducted site assessment activities for both of the releases (nAPP2404354589) to determine vertical and horizontal delineation of the extent of the impact. The release areas are shown on **Figure 3**. The initial

assessment activities are documented in the previously approved workplan for nAPP2336158873.

*Second Release Assessment*

Tetra Tech conducted Site assessment activities on February 26, 2024. A total of four (4) hand auger borings (BH-1 through BH-4) were installed within the impacted area, to depths ranging from surface to 4 feet below ground surface (ft bgs) to attempt to assess and vertically delineate the impacted the area. Additionally, a total of four (4) hand auger borings (B-1 through B-4) were installed directly outside of the impact outline to total depth of 1.0 ft bgs, to horizontally delineate the impact. The extent of impact and delineation sample locations are shown on **Figure 4.**

The soil samples were submitted to Eurofins Laboratories in Midland, Texas to be analyzed for TPH by Method 8015 modified, BTEX by Method 8021B, and chloride by Method 300.0. The analytical results are summarized in **Table 1** and the analytical laboratory reports are included in **Appendix C**.

Referring to Table 1, hand auger borings BH-1, BH-3, and BH-4 indicated chloride concentrations above RRALs, with concentrations ranging from 868 mg/kg to 4,340 mg/kg, at depths ranging from surface to 1.0 ft bgs. Hand auger borings BH-1 through BH-4 did not indicate benzene, BTEX, or TPH concentrations above RRALs. Additionally, hand auger borings B-1 through B-3 did not indicate benzene, BTEX, TPH, or chloride concentrations above the determined RRALs for the Site, however, hand auger boring B-4 indicated a chloride concentration above RRALs with a concentration of 826 mg/kg, at surface depths. The release impacted area is vertically delineated at all of the vertical delineation sample points. However, the hand auger boring B-4 will be vertically delineated prior to remediation via a delineation trench, and five-point composite confirmation bottom hole and sidewall samples to confirm full impact removal.

**Remediation Work Plan**

Based on the C-141 (nAPP2336158873) and the previously approved work plan for the initial release, dated February 9, 2024, and the State of New Mexico Notice of Release report (nAPP2404354589), and information provided by Chevron, Tetra Tech performed Site characterization and groundwater research to determine groundwater depth, release impact proximity from significant water features, and proximity from specified populated entities to determine RRALs and assess the impacted area. Based on the OCD *Guidelines for Remediation of Leaks, Spills, and Releases*, updated August 14, 2018, according to the groundwater data found during research activities, the most stringent RRALs of 600 mg/kg for chlorides and 100 mg/kg for TPH will be followed for the Site. Based on Tetra Tech's assessment and delineation activities, laboratory results indicated chloride concentrations above RRALs at hand auger borings BH-1, BH-3, and BH-4, and B-4, at depths ranging from surface to 3.0 ft bgs.

Chevron proposes to excavate the impacted areas to the required depths as shown in **Table 1** and on **Figure 5**. The areas of hand auger borings BH-1, BH-3 and BH-4 will be excavated to depths of 1 ft bgs, however the final depths may vary based on field screening and

analytical results. Additionally, hand auger boring B-4 will be vertically and horizontally delineated, prior to remediation via a delineation trench, and 5-point composite confirmation bottom hole and sidewall samples to confirm full impact removal. Areas immediately adjacent to active equipment within the release extent will be excavated to 6-inches bgs or a safely allowable depth to avoid destabilizing the soil supporting the active equipment at the Site.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Five-point composite confirmation bottom and sidewall samples will be collected, representative of no more than approximately 200 square feet, for verification of remedial activities, and analyzed for TPH (Method 8015 Modified), BTEX (Method 8021B) and chloride (Method SM 4500-Cl B or equivalent). The estimated volume of material to be removed from the second release impact is approximately 150 cubic yards.

If you require any additional information or have any questions or comments, please contact Tetra Tech, Inc. at (432) 682-4559.

Respectfully submitted,
TETRA TECH

| | | |
|---|---|---|
| Brittany Long<br>Project Manager | John Faught, GIT<br>Project Manager | Clair Gonzales, P.G.<br>Senior Project Manager |

**Enclosures:**

Figure 1 – Site Location Map
Figure 2 – Topographic Map
Figure 3 – Release Extent Map
Figure 4 – Secondary Spill Assessment Map
Figure 5 – Proposed Excavation Map

Table 1 – Second Release Delineation Assessment Analytical Results

Photographic Documentation

Appendix A – C-141 and Notice of Release
Appendix B – Site Characterization
Appendix C – Analytical Laboratory Reports

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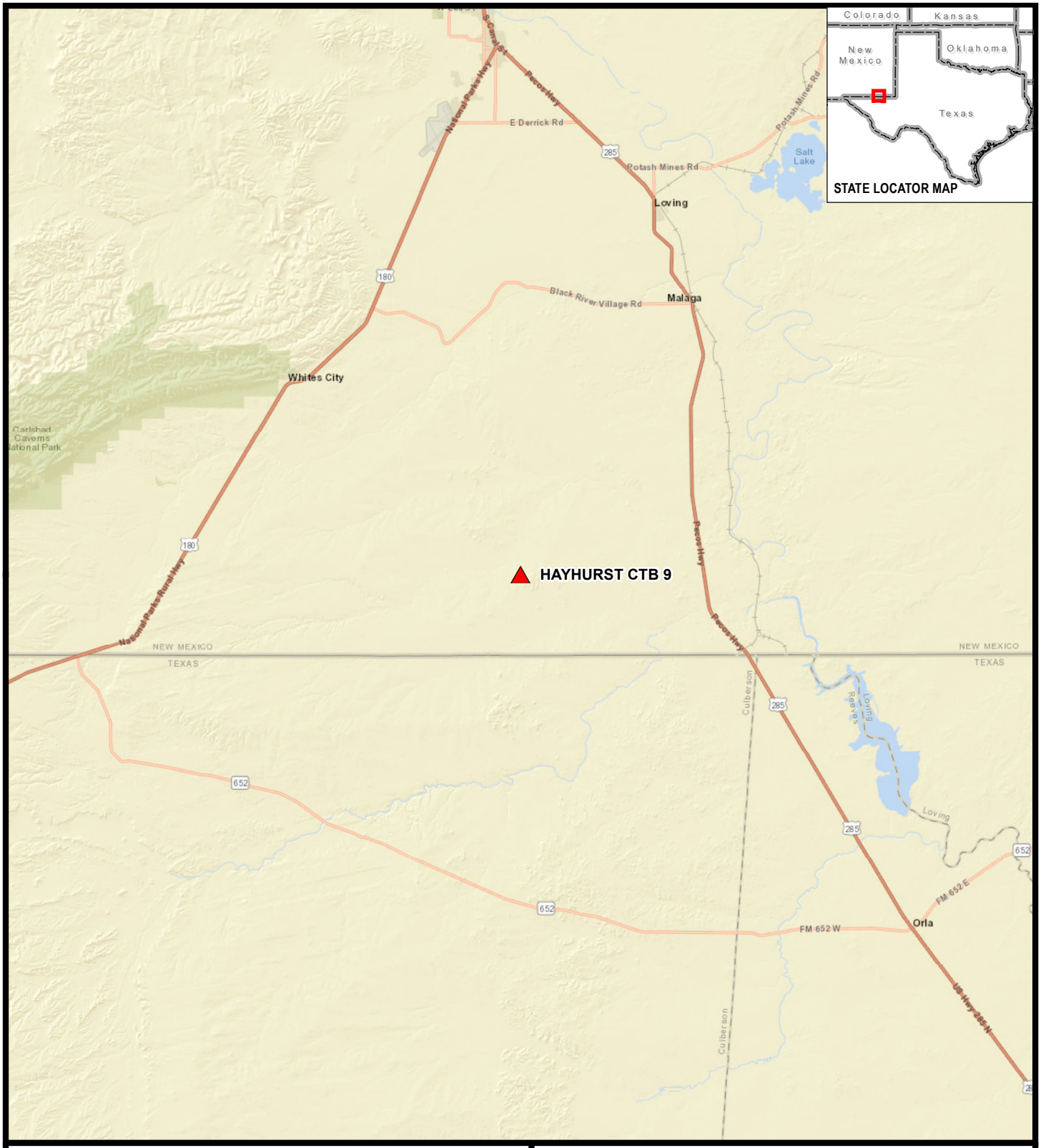
# Figures




SITE LOCATION MAP
HAYHURST CTB 9
32.05254458, -104.20154454
EDDY COUNTY, NEW MEXICO

Chevron

Project #:
212C-MD-03329

FIGURE
1

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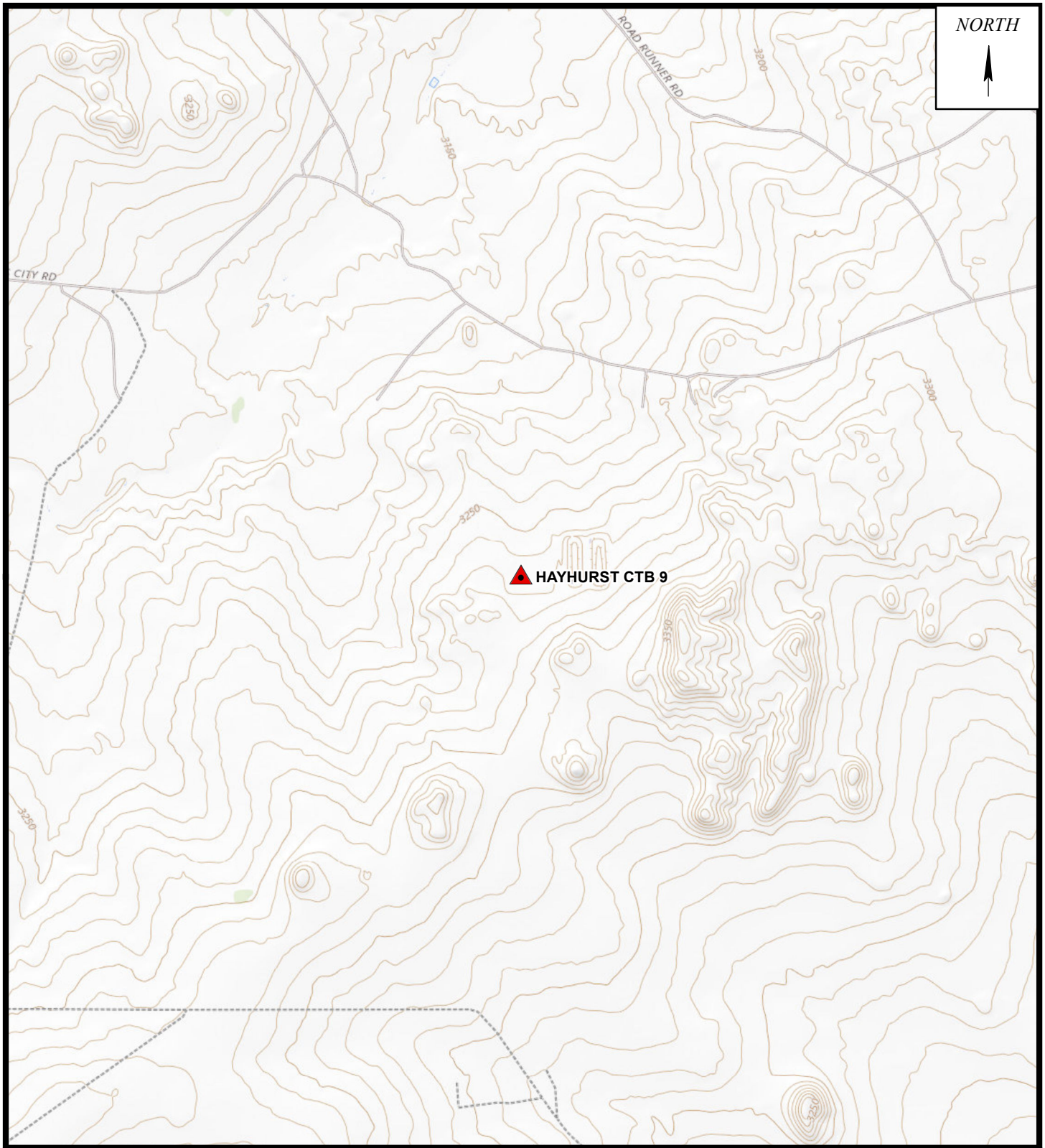


APPROXIMATE SITE LOCATION

SOURCE: USGS 7.5 MINUTE SERIES,
COTTONWOOD HILLS QUADRANGLE, TEXAS, 2024.

N
W E
S

0 1,000 2,000 Feet

Approximate Scale in Feet

TOPOGRAPHIC MAP
HAYHURST CTB 9
32.05254458, -104.20154454
EDDY COUNTY, NEW MEXICO

Chevron

Project #:
212C-MD-03329

FIGURE
2

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NORTH

0 30 60
Approximate Scale in Feet

- RELEASE POINT
- U.E.S.
- LIGHT POLE
- FLOWLINES
- SURFACE ELECTRICAL
- 16-LINE MANIFOLD
- HORIZONTAL SEPARATORS
- INITIAL RELEASE FOOTPRINT
- SECONDARY RELEASE FOOTPRINT

Chevron

FIGURE 3
RELEASE EXTENT MAP
HAYHURST NM SECTION 9 CTB
EDDY COUNTY, NEW MEXICO
32.0526030°, -104.2005392°

| | |
|---|---|
| Project: 212C-MD-03329 | |
| Date: 4/9/2024 | |
| Name: 03329 - Figure 3 - Hayhurst | |

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NORTH

B-1
B-2
BH-3
B-4
BH-4
BH-1
BH-2
B-3

0 30 60
Approximate Scale in Feet

BOREHOLE SAMPLE LOCATION
HORIZONTAL SAMPLE LOCATION
RELEASE POINT
U.E.S.
LIGHT POLE
FLOWLINES
SURFACE ELECTRICAL
16-LINE MANIFOLD
HORIZONTAL SEPARATORS
INITIAL RELEASE FOOTPRINT
SECONDARY RELEASE FOOTPRINT

Chevron

FIGURE 4
SECONDARY SPILL ASSESSMENT MAP
HAYHURST NM SECTION 9 CTB
EDDY COUNTY, NEW MEXICO
32.0526030°, -104.2005392°

| | |
|---|---|
| Project: 212C-MD-03329 | |
| Date: 4/9/2024 | |
| Name: 03329 - Figure 4 - Hayhurst | |

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NORTH

B-1
B-2
BH-3
B-4
BH-1
BH-4
BH-2
B-3

0 30 60
Approximate Scale in Feet

RELEASE POINT
U.E.S.
LIGHT POLE
HORIZONTAL SAMPLE LOCATION
BOREHOLE SAMPLE LOCATION
FLOWLINES
SURFACE ELECTRICAL
SURFACE SCRAPE PROPOSED
1.0' PROPOSED EXCAVATION
HORIZONTAL SEPARATORS
16-LINE MANIFOLD
SECONDARY RELEASE FOOTPRINT

Chevron

FIGURE 5
PROPOSED EXCAVATION MAP
HAYHURST NM SECTION 9 CTB
EDDY COUNTY, NEW MEXICO
32.0526030°, -104.2005392°

| | |
|---|---|
| Project: 212C-MD-03329 | |
| Date: 4/9/2024 | |
| Name: 03329 - Figure 5 - Hayhurst | |

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# Tables

**Table 1**
**Second Release Delineation Assessment Analytical Results**
**Chevron MCBU**
**Hayhurst NM Section 9 CTB**
**Eddy County, New Mexico**

| Sample ID | Sample Date | Excavtion Depth (ft) | Soil Status | | TPH (mg/kg) | | | | Benzene (mg/kg) | Toluene (mg/kg) | Ethlybenzene (mg/kg) | Xylene (mg/kg) | Total BTEX (mg/kg) | Chloride (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | In-Situ | Removed | GRO | DRO | MRO | Total | | | | | | |
| RRALs | | | | | | | | 100 mg/kg | 10 mg/kg | | | | 50 mg/kg | 600 mg/kg |
| BH-1 | 2/26/2024 | 0-1' | x | - | 42.9 | 52.4 | <15.0 | 95.3 | <0.000384 | <0.000455 | <0.000564 | <0.00101 | <0.00101 | **4170** |
| | 2/26/2024 | 1-2' | x | - | 47.5 | 32.9 | <15.0 | 80.4 | <0.000381 | <0.000451 | <0.000559 | <0.00100 | <0.00100 | 122 |
| | 2/26/2024 | 2-3' | x | - | 48.3 | 38.4 | <15.0 | 86.7 | <0.000387 | <0.000458 | <0.000567 | <0.00101 | <0.00101 | 78.2 |
| | 2/26/2024 | 3-4' | x | - | 45.8 | 39.2 | <15.1 | 85.0 | <0.000389 | <0.000461 | <0.000571 | <0.00102 | <0.00102 | 133 |
| BH-2 | 2/26/2024 | 0-1' | x | - | 45.8 | 40.4 | <15.2 | 86.2 | <0.000384 | <0.000455 | <0.000564 | <0.00101 | <0.00101 | 90.8 |
| | 2/26/2024 | 1-2' | x | - | 42.0 | 37.8 | <15.2 | 79.8 | <0.000381 | <0.000451 | <0.000559 | <0.00100 | <0.00100 | 167 |
| | 2/26/2024 | 2-3' | x | - | 40.6 | 34.4 | <14.9 | 75.0 | <0.000385 | <0.000456 | <0.000565 | <0.00101 | <0.00101 | 133 |
| | 2/26/2024 | 3-4' | x | - | 39.8 | 40.0 | <15.0 | 79.8 | <0.000383 | <0.000454 | <0.000563 | <0.00101 | <0.00101 | 77.6 |
| BH-3 | 2/26/2024 | 0-1' | x | - | 43.6 | 38.2 | <15.0 | 81.8 | <0.000387 | <0.000458 | <0.000567 | <0.00101 | <0.00101 | **4340** |
| | 2/26/2024 | 1-2' | x | - | 42.3 | 36.7 | <14.9 | 79.0 | <0.000388 | <0.000460 | <0.000570 | <0.00102 | <0.00102 | 517 |
| | 2/26/2024 | 2-3' | x | - | 40.9 | 33.5 | <15.0 | 74.4 | <0.000387 | <0.000459 | <0.000568 | <0.00102 | <0.00102 | 95.8 |
| | 2/26/2024 | 3-4' | x | - | 46.3 | 35.2 | <14.9 | 81.5 | <0.000387 | <0.000458 | <0.000567 | <0.00101 | <0.00101 | 129 |
| BH-4 | 2/26/2024 | 0-1' | x | - | 47.1 | 35.4 | <15.0 | 82.5 | <0.000383 | <0.000454 | <0.000563 | <0.00101 | <0.00101 | **868** |
| | 2/26/2024 | 1-2' | x | - | 48.9 | 35.0 | <15.1 | 83.9 | <0.000383 | <0.000453 | <0.000562 | <0.00100 | <0.00100 | 106 |
| | 2/26/2024 | 2-3' | x | - | 49.1 | 34.1 | <15.0 | 83.2 | <0.000381 | <0.000451 | <0.000559 | <0.00100 | <0.00100 | 136 |
| | 2/26/2024 | 3-4' | x | - | 48.9 | 30.2 | <15.1 | 79.1 | <0.000384 | <0.000455 | <0.000564 | <0.00101 | <0.00101 | 115 |
| B-1 | 2/26/2024 | 0-1' | x | - | 44.5 | 39.2 | <14.9 | 83.7 | <0.000383 | <0.000454 | <0.000563 | <0.00101 | <0.00101 | 281 |
| B-2 | 2/26/2024 | 0-1' | x | - | 38.8 | 43.4 | <15.2 | 82.2 | <0.000387 | <0.000458 | <0.000567 | <0.00101 | <0.00101 | 124 |
| B-3 | 2/26/2024 | 0-1' | x | - | 47.8 | 47.4 | <14.9 | 95.2 | <0.000388 | <0.000460 | <0.000570 | <0.00102 | <0.00102 | 71.8 |
| B-4 | 2/26/2024 | 0-1' | x | - | 42.0 | 110 | <15.0 | 152 | <0.000383 | <0.000453 | <0.000562 | <0.00100 | <0.00100 | **826** |

**NOTES**
RRALs (Recommended Remediation Action Levels) are based on NMOCD (New Mexico Oil Conservation Devision) *Guidelines for Remediation of Leaks, Spills, and Releases.*
All screening values and results are presented in milligrams per kilogram (mg/kg)
**Bolded cells represent a detected concentration above the respective screening value.**
< = analyte was not detected above the respective sample detection limit
ft = feet below ground surface
(-) = not analyzed for respective constituent
TPH = total petroleum hydrocarbons
BTEX = benzene, toluene, ethylbenzene, xylene
Exceedance

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# Photographic Documentation

# Photographic Log

Chevron MCBU

Hayhurst NM Section 9 CTB Initial Produced Water Release


Photo 1: Southwest facing view of the initial release footprint.

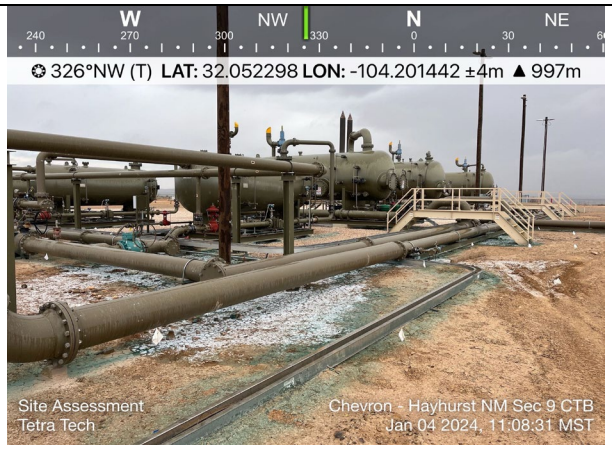


Photo 2: Northwest facing view of the initial release footprint.

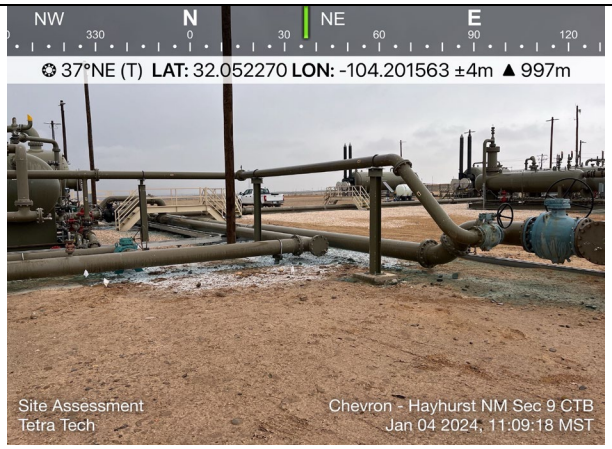


Photo 3: Northeast facing view of the initial release footprint.


Photo 4: East facing view of the initial release footprint.

| Job No. | Page No. | Client: | Site Name: | |
|---|---|---|---|---|
| 212C-MD-03329 | 1 of 1 | Chevron MCBU | Hayhurst NM Section 9 CTB Initial Produced Water Release | TETRA TECH |

# Photographic Log

Chevron MCBU

Hayhurst NM Section 9 CTB Second Produced Water Release

Photo 1: Northeast facing view of the second release footprint.

Photo 2: Northwest facing view of the second release footprint.

| Job No. | Page No. | Client: | Site Name: | |
|---|---|---|---|---|
| 212C-MD-03329 | 1 of 1 | Chevron MCBU | Hayhurst NM Section 9 CTB Second Produced Water Release | TETRA TECH |

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# Appendix A

C-141 Document

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

| | |
|---|---|
| Incident ID | [ nAPP2336158873] |
| District RP | |
| Facility ID | [fAPP2131341164] |
| Application ID | |

# Release Notification

## Responsible Party

| | |
|---|---|
| Responsible Party: Chevron U.S.A., Inc. | OGRID: 4323 |
| Contact Name: Kennedy Lincoln | Contact Telephone: 432-813-5384 |
| Contact email: kennedy.lincoln@chevron.com | Incident # nAPP2336158873 |
| Contact mailing address:6301 Deauville Blvd Midland, TX 79706 | |

## Location of Release Source

Latitude: 32.053061 Longitude: -104.205989
*(NAD 83 in decimal degrees to 5 decimal places)*

| | |
|---|---|
| Site Name: Hayhurst NM Section 9 CTB | Site Type: Produced Water |
| Date Release Discovered: 12/26/2023 | API# *(if applicable):* |

| Unit Letter | Section | Township | Range | County |
|---|---|---|---|---|
| P | 8 | 26S | 27E | Eddy |

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

## Nature and Volume of Release

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

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

Cause of Release:

A pinhole leak resulted in 10.047 bbl of produced water and 0.102 bbl of oil released to land.

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | nAPP2336158873 |
| District RP | |
| Facility ID | [fAPP2131341164] |
| Application ID | |

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

## Initial Response

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

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

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

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

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

Printed Name: Kennedy Lincoln Title: Lead Environmental Specialist, Field Support

Signature: _____ Date: 1/03/2024

email: kennedy.lincoln@chevron.com Telephone: 432-813-5384

**OCD Only**

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | nAPP2336158873 |
| District RP | |
| Facility ID | [fAPP2131341164] |
| Application ID | |

Spill Calculations:

| Area | Shape | Length (ft) | Width (ft) | Standing Depth (ft) | Soil Penetration (ft) | Standing Volume | In-Soil Volume | Total Volume |
|---|---|---|---|---|---|---|---|---|
| 1 | Rectangle | 30.0 | 54.0 | 0.0208 | 0.0104 | 6.00 | 0.45 | 6.45 |
| 2 | Rectangle | 24.0 | 72.0 | 0.0104 | 0.0104 | 3.20 | 0.48 | 3.68 |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | Circle | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| | | | | | | **Total Volume (bbl)** | | **10.13** |

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

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

QUESTIONS

Action 313484

## QUESTIONS

| | |
|---|---|
| Operator:<br>CHEVRON U S A INC<br>6301 Deauville Blvd<br>Midland, TX 79706 | OGRID:<br>4323 |
| | Action Number:<br>313484 |
| | Action Type:<br>[NOTIFY] Notification Of Release (NOR) |

**QUESTIONS**

| **Location of Release Source**<br>*Please answer all the questions in this group.* | |
|---|---|
| Site Name | Hayhurst NM Section 9 CTB |
| Date Release Discovered | 02/12/2024 |
| Surface Owner | Federal |

| **Incident Details**<br>*Please answer all the questions in this group.* | |
|---|---|
| Incident Type | Produced Water Release |
| Did this release result in a fire or is the result of a fire | No |
| Did this release result in any injuries | No |
| Has this release reached or does it have a reasonable probability of reaching a watercourse | No |
| Has this release endangered or does it have a reasonable probability of endangering public health | No |
| Has this release substantially damaged or will it substantially damage property or the environment | No |
| Is this release of a volume that is or may with reasonable probability be detrimental to fresh water | No |

| **Nature and Volume of Release**<br>*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.* | |
|---|---|
| Crude Oil Released (bbls) Details | *Not answered.* |
| Produced Water Released (bbls) Details | Cause: Equipment Failure \| Dump Valve \| Produced Water \| Released: 52 BBL \| Recovered: 35 BBL \| Lost: 17 BBL. |
| Is the concentration of chloride in the produced water >10,000 mg/l | Yes |
| Condensate Released (bbls) Details | *Not answered.* |
| Natural Gas Vented (Mcf) Details | *Not answered.* |
| Natural Gas Flared (Mcf) Details | *Not answered.* |
| Other Released Details | *Not answered.* |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | *Not answered.* |

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



## QUESTIONS (continued)

| | |
|---|---|
| Operator:<br>CHEVRON U S A INC<br>6301 Deauville Blvd<br>Midland, TX 79706 | OGRID:<br>4323 |
| | Action Number:<br>313484 |
| | Action Type:<br>[NOTIFY] Notification Of Release (NOR) |

**QUESTIONS**

| **Nature and Volume of Release (continued)** | |
|---|---|
| Is this a gas only submission (i.e. only significant Mcf values reported) | **No, according to supplied volumes this does not appear to be a "gas only" report.** |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC | **Yes** |
| Reasons why this would be considered a submission for a notification of a major release | **From paragraph A. "Major release" determine using:**<br>**(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.** |
| *With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.* | |

| **Initial Response** | |
|---|---|
| *The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.* | |
| The source of the release has been stopped | True |
| The impacted area has been secured to protect human health and the environment | True |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices | True |
| All free liquids and recoverable materials have been removed and managed appropriately | True |
| If all the actions described above have not been undertaken, explain why | *Not answered.* |
| *Per Paragraph 4 of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.* | |

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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



## ACKNOWLEDGMENTS

| | |
|---|---|
| Operator:<br>CHEVRON U S A INC<br>6301 Deauville Blvd<br>Midland, TX 79706 | OGRID:<br>4323 |
| | Action Number:<br>313484 |
| | Action Type:<br>[NOTIFY] Notification Of Release (NOR) |

**ACKNOWLEDGMENTS**

| | |
|---|---|
| ☑ | I acknowledge that I am authorized to submit notification of a release on behalf of my operator. |
| ☑ | I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29. |
| ☑ | I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29. |
| ☑ | 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. |
| ☑ | I acknowledge the fact that 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. |
| ☑ | I acknowledge the fact that, 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. |

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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

CONDITIONS

Action 313484

## CONDITIONS

| | |
|---|---|
| Operator:<br>CHEVRON U S A INC<br>6301 Deauville Blvd<br>Midland, TX 79706 | OGRID:<br>4323 |
| | Action Number:<br>313484 |
| | Action Type:<br>[NOTIFY] Notification Of Release (NOR) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| klincoln | When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141. | 2/12/2024 |

TETRA TECH

# Appendix B

Site Characterization Documents

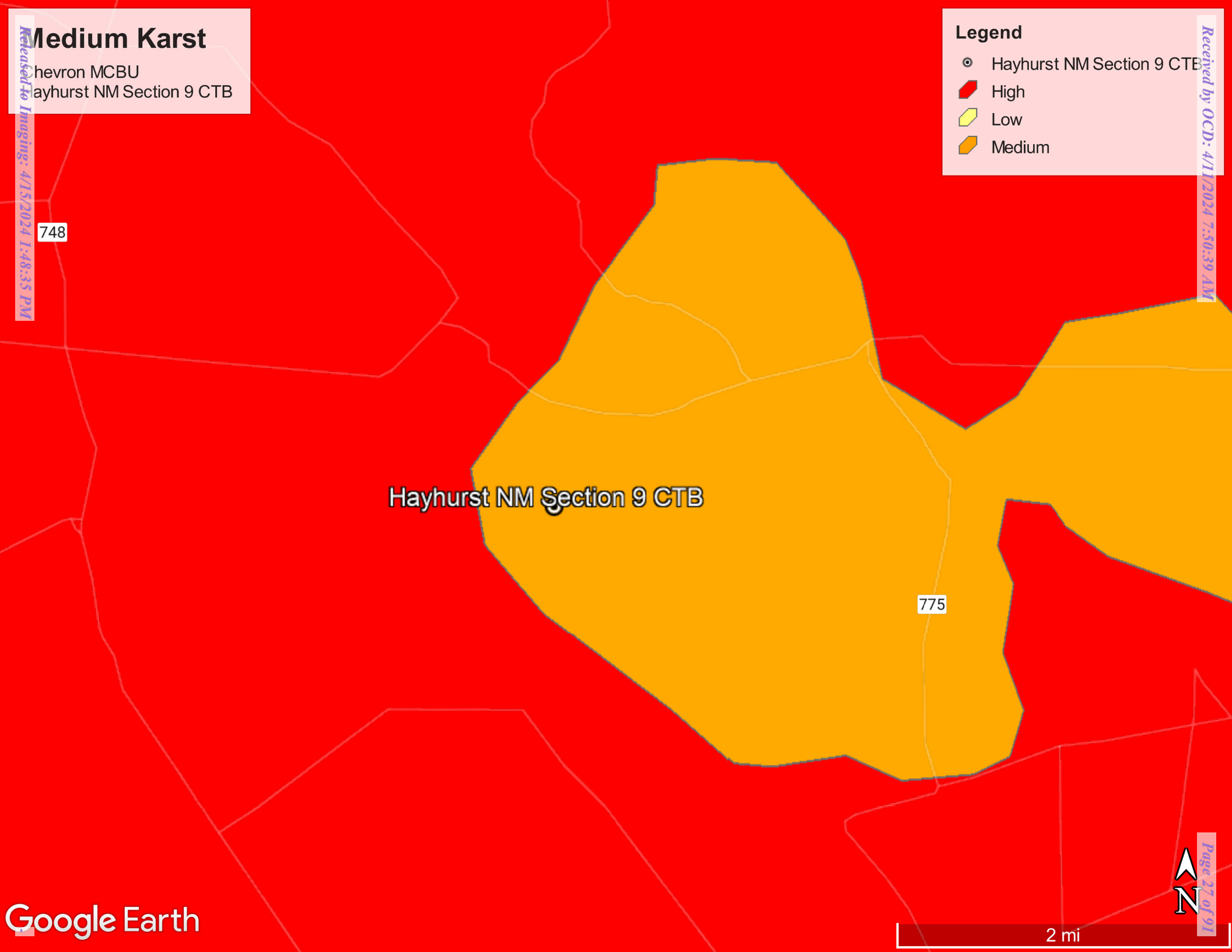
# Site Characterization Summary

**Site Information:**
Chevron MCBU
Hayhurst NM Section 9 CTB
Eddy County, New Mexico
T26S, R27E, Section 9, Unit M
(32.05254458°, -104.20154454°)

**Site Characterization:**
-Medium Karst
-No significant water features within specified distances
-Groundwater 19’ BGS 1.88 Miles North. (NMOSE, Section 33, 1998 Sample)
-Groundwater 17.75' BGS 0.64 Miles Northeast. (USGS, Section 7, 2003 Sample)
-Groundwater 8.94’ BGS 1.05 Miles Northwest. (USGS, Section 8, 2013 Sample)

**RRALs:**
-600 mg/kg Chlorides
-100 mg/kg Total TPH
-10 mg/kg Benzene
-50 mg/kg Total BTEX

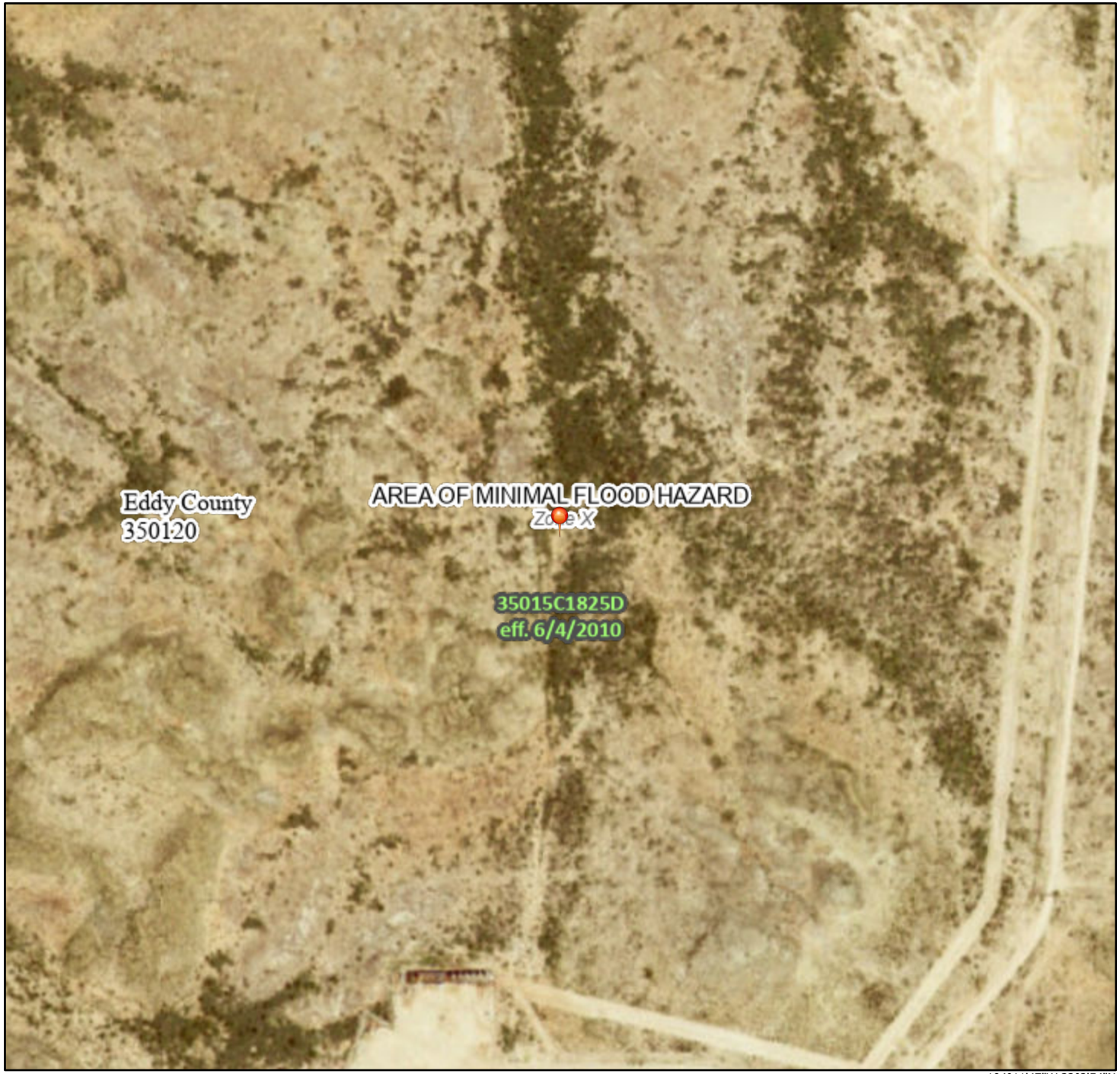
**Explanation:**
Due to inadequate groundwater information (distance further than ½ mile/data dated >25 years), Most stringent RRALs will be followed unless groundwater determination bore is drilled, and no water is found at depths of at least 55’ BGS or greater. However, based on the researched data, groundwater is reported shallow (below 50’) to the North, West, and East.



# National Flood Hazard Layer FIRMette

FEMA

104°12'24"W 32°3'24"N




104°11'47"W 32°2'54"N

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

1:6,000

Basemap Imagery Source: USGS National Map 2023

## Legend

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

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

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

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

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

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

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

N

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/18/2024 at 9:32 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.

# *New Mexico Office of the State Engineer*
# Point of Diversion Summary

| Well Tag | POD Number | (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64 | Q16 | Q4 | Sec | Tws | Rng | (NAD83 UTM in meters) X | Y |
|---|---|---|---|---|---|---|---|---|---|
| | C 02588 | 3 | 4 | 3 | 33 | 25S | 27E | 575645 | 3549575* |

| | | | | | |
|---|---|---|---|---|---|
| **Driller License:** | 1348 | **Driller Company:** | TAYLOR WATER WELL SERVICE | | |
| **Driller Name:** | | | | | |
| **Drill Start Date:** | 05/31/1998 | **Drill Finish Date:** | 06/03/1998 | **Plug Date:** | |
| **Log File Date:** | 08/24/1998 | **PCW Rcv Date:** | | **Source:** | Shallow |
| **Pump Type:** | | **Pipe Discharge Size:** | | **Estimated Yield:** | 2 GPM |
| **Casing Size:** | 5.00 | **Depth Well:** | 81 feet | **Depth Water:** | 19 feet |

| Water Bearing Stratifications: | Top | Bottom | Description |
|---|---|---|---|
| | 21 | 23 | Other/Unknown |
| | 52 | 81 | Other/Unknown |

| Casing Perforations: | Top | Bottom |
|---|---|---|
| | 53 | 81 |

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

# New Mexico Office of the State Engineer
# Point of Diversion Summary

| Well Tag | POD Number | (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64 | Q16 | Q4 | Sec | Tws | Rng | (NAD83 UTM in meters) X | Y |
|---|---|---|---|---|---|---|---|---|---|
| | C 02588 | 3 | 4 | 3 | 33 | 25S | 27E | 575645 | 3549575* |

| | | | | | |
|---|---|---|---|---|---|
| **Driller License:** | 1348 | **Driller Company:** | TAYLOR WATER WELL SERVICE | | |
| **Driller Name:** | | | | | |
| **Drill Start Date:** | 05/31/1998 | **Drill Finish Date:** | 06/03/1998 | **Plug Date:** | |
| **Log File Date:** | 08/24/1998 | **PCW Rcv Date:** | | **Source:** | Shallow |
| **Pump Type:** | | **Pipe Discharge Size:** | | **Estimated Yield:** | 2 GPM |
| **Casing Size:** | 5.00 | **Depth Well:** | 81 feet | **Depth Water:** | 19 feet |

| Water Bearing Stratifications: | Top | Bottom | Description |
|---|---|---|---|
| | 21 | 23 | Other/Unknown |
| | 52 | 81 | Other/Unknown |

| Casing Perforations: | Top | Bottom |
|---|---|---|
| | 53 | 81 |

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

# National Water Information System: Web Interface

USGS Water Resources

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

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

## Search Results -- 1 sites found

**Agency code =** usgs
**site_no list =**
- 320343104110201

**Minimum number of levels =** 1
Save file of selected sites to local disk for future upload

---

## USGS 320343104110201 26S.27E.08.13230

Eddy County, New Mexico
Latitude 32°03'32.4", Longitude 104°13'03.9" NAD83
Land-surface elevation 3,182.10 feet above NGVD29
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Castile Formation (312CSTL) local aquifer.

**Output formats**

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

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1978-01-03 | | D | 62610 | | 3164.52 | NGVD29 | 1 | Z | | | A |
| 1978-01-03 | | D | 62611 | | 3166.18 | NAVD88 | 1 | Z | | | A |
| 1978-01-03 | | D | 72019 | 17.58 | | | 1 | Z | | | A |
| 1983-01-05 | | D | 62610 | | 3166.54 | NGVD29 | 1 | Z | | | A |
| 1983-01-05 | | D | 62611 | | 3168.20 | NAVD88 | 1 | Z | | | A |
| 1983-01-05 | | D | 72019 | 15.56 | | | 1 | Z | | | A |
| 1987-10-08 | | D | 62610 | | 3167.72 | NGVD29 | 1 | Z | | | A |
| 1987-10-08 | | D | 62611 | | 3169.38 | NAVD88 | 1 | Z | | | A |
| 1987-10-08 | | D | 72019 | 14.38 | | | 1 | Z | | | A |
| 1992-11-04 | | D | 62610 | | 3165.85 | NGVD29 | 1 | S | | | A |
| 1992-11-04 | | D | 62611 | | 3167.51 | NAVD88 | 1 | S | | | A |
| 1992-11-04 | | D | 72019 | 16.25 | | | 1 | S | | | A |
| 1998-01-13 | | D | 62610 | | 3165.45 | NGVD29 | 1 | S | | | A |
| 1998-01-13 | | D | 62611 | | 3167.11 | NAVD88 | 1 | S | | | A |
| 1998-01-13 | | D | 72019 | 16.65 | | | 1 | S | | | A |
| 2003-01-28 | | D | 62610 | | 3164.88 | NGVD29 | 1 | S | USGS | S | A |
| 2003-01-28 | | D | 62611 | | 3166.54 | NAVD88 | 1 | S | USGS | S | A |
| 2003-01-28 | | D | 72019 | 17.22 | | | 1 | S | USGS | S | A |
| 2013-01-09 | 21:45 UTC | m | 62610 | | 3173.16 | NGVD29 | 1 | S | USGS | S | A |
| 2013-01-09 | 21:45 UTC | m | 62611 | | 3174.82 | NAVD88 | 1 | S | USGS | S | A |
| 2013-01-09 | 21:45 UTC | m | 72019 | 8.94 | | | 1 | 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 |

| Section | Code | Description |
|---|---|---|
| Referenced vertical datum | NAVD88 | North American Vertical Datum of 1988 |
| Referenced vertical datum | NGVD29 | National Geodetic Vertical Datum of 1929 |
| Status | 1 | Static |
| 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. |

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

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey
**Title: Groundwater for USA: Water Levels**
**URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?**

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2024-01-18 10:46:28 EST
0.29 0.25 nadww02

# National Water Information System: Web Interface

USGS Water Resources

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

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

## Search Results -- 1 sites found

**Agency code =** usgs
**site_no list =**
- 320323104112901

**Minimum number of levels =** 1
Save file of selected sites to local disk for future upload

---

## USGS 320323104112901 26S.27E.07.414444

Eddy County, New Mexico
Latitude 32°03'23", Longitude 104°11'29" NAD27
Land-surface elevation 3,268 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Castile Formation (312CSTL) local aquifer.

**Output formats**

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

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1978-01-25 | | D | 62610 | | 3257.04 | NGVD29 | 1 | Z | | | A |
| 1978-01-25 | | D | 62611 | | 3258.69 | NAVD88 | 1 | Z | | | A |
| 1978-01-25 | | D | 72019 | 9.31 | | | 1 | Z | | | A |
| 1983-01-25 | | D | 62610 | | 3258.77 | NGVD29 | P | Z | | | A |
| 1983-01-25 | | D | 62611 | | 3260.42 | NAVD88 | P | Z | | | A |
| 1983-01-25 | | D | 72019 | 7.58 | | | P | Z | | | A |
| 1987-10-08 | | D | 62610 | | 3258.70 | NGVD29 | 1 | Z | | | A |
| 1987-10-08 | | D | 62611 | | 3260.35 | NAVD88 | 1 | Z | | | A |
| 1987-10-08 | | D | 72019 | 7.65 | | | 1 | Z | | | A |
| 1988-04-07 | | D | 62610 | | 3259.93 | NGVD29 | 1 | Z | | | A |
| 1988-04-07 | | D | 62611 | | 3261.58 | NAVD88 | 1 | Z | | | A |
| 1988-04-07 | | D | 72019 | 6.42 | | | 1 | Z | | | A |
| 1992-11-18 | | D | 62610 | | 3257.57 | NGVD29 | 1 | S | | | A |
| 1992-11-18 | | D | 62611 | | 3259.22 | NAVD88 | 1 | S | | | A |
| 1992-11-18 | | D | 72019 | 8.78 | | | 1 | S | | | A |
| 1998-01-13 | | D | 62610 | | 3252.60 | NGVD29 | 1 | S | | | A |
| 1998-01-13 | | D | 62611 | | 3254.25 | NAVD88 | 1 | S | | | A |
| 1998-01-13 | | D | 72019 | 13.75 | | | 1 | S | | | A |
| 2003-01-28 | | D | 62610 | | 3248.60 | NGVD29 | 1 | S | USGS | S | A |
| 2003-01-28 | | D | 62611 | | 3250.25 | NAVD88 | 1 | S | USGS | S | A |
| 2003-01-28 | | D | 72019 | 17.75 | | | 1 | S | USGS | S | A |

**Explanation**

| Section | Code | Description |
|---|---|---|
| Water-level date-time accuracy | D | Date is accurate to the Day |
| 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 |

| Section | Code | Description |
|---|---|---|
| Referenced vertical datum | NGVD29 | National Geodetic Vertical Datum of 1929 |
| Status | 1 | Static |
| Status | P | Pumping |
| 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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Questions or Comments
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U.S. Department of the Interior | U.S. Geological Survey

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

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2024-01-18 10:41:44 EST
0.35 0.3 nadww01

USGS science for a changing world

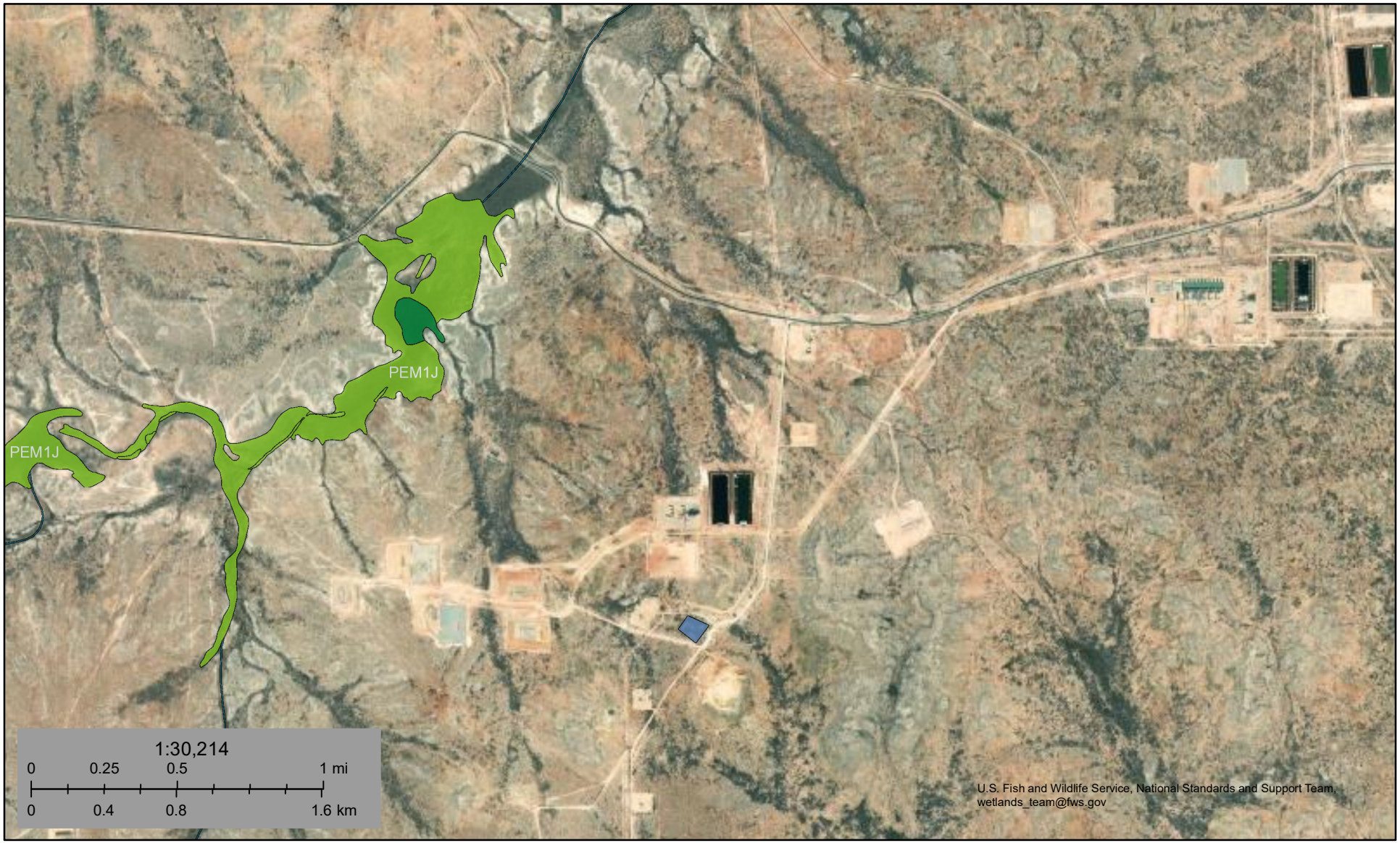
National Water Information System: Mapper




Site Information

U.S. Fish and Wildlife Service
National Wetlands Inventory

# Hayhurst 9 CTB




January 4, 2024

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

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

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

TETRA TECH

# Appendix C

Analytical Laboratory Reports

eurofins | Environment Testing



# ANALYTICAL REPORT

## PREPARED FOR

Attn: John Faught
Tetra Tech, Inc.
901 W Wall
Ste 100
Midland, Texas 79701

Generated 3/4/2024 9:28:45 AM

## JOB DESCRIPTION

HayHurst NM Section 9 CTB Release 2
Eddy County , TX

## JOB NUMBER

880-39935-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.





my EOL

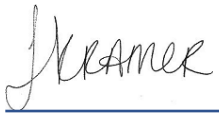
# Eurofins Midland

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



Generated
3/4/2024 9:28:45 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech, Inc.
Project/Site: HayHurst NM Section 9 CTB Release 2

Laboratory Job ID: 880-39935-1
SDG: Eddy County , TX

# Table of Contents

# Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 880-39935-1
Project/Site: HayHurst NM Section 9 CTB Release 2 SDG: Eddy County , TX

## Qualifiers

### GC VOA

| Qualifier | Qualifier Description |
|---|---|
| F1 | MS and/or MSD recovery exceeds control limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| U | Indicates the analyte was analyzed for but not detected. |

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| S1+ | Surrogate recovery exceeds control limits, high biased. |
| U | Indicates the analyte was analyzed for but not detected. |

### HPLC/IC

| Qualifier | Qualifier Description |
|---|---|
| U | Indicates the analyte was analyzed for but not detected. |

## Glossary

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

# Case Narrative

Client: Tetra Tech, Inc. Job ID: 880-39935-1
Project: HayHurst NM Section 9 CTB Release 2

## Job ID: 880-39935-1 Eurofins Midland

**Job Narrative**
**880-39935-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

**Receipt**
The samples were received on 2/27/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.3°C.

**Receipt Exceptions**
The following samples were received and analyzed from an unpreserved bulk soil jar: B-1 (0-1') (880-39935-1), B-2 (0-1') (880-39935-2), B-3 (0-1') (880-39935-3), B-4 (0-1') (880-39935-4), BH-1 (0-1') (880-39935-5), BH-1 (1-2') (880-39935-6), BH-1 (2-3') (880-39935-7), BH-1 (3-4') (880-39935-8), BH-2 (0-1') (880-39935-9), BH-2 (1-2') (880-39935-10), BH-2 (2-3') (880-39935-11), BH-2 (3-4') (880-39935-12), BH-3 (0-1') (880-39935-13), BH-3 1-2') (880-39935-14), BH-3 (2-3') (880-39935-15), BH-3 (3-4') (880-39935-16), BH-4 (0-1') (880-39935-17), BH-4 (1-2') (880-39935-18), BH-4 (2-3') (880-39935-19) and BH-4 (3-4') (880-39935-20).

**GC VOA**
Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-74189 and analytical batch 880-74314 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

**GC Semi VOA**
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-74298 and analytical batch 880-74322 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-2 (0-1') (880-39935-2), B-3 (0-1') (880-39935-3) and (880-39935-A-1-I MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-1 (0-1') (880-39935-5), BH-2 (0-1') (880-39935-9), BH-3 (2-3') (880-39935-15), BH-4 (2-3') (880-39935-19) and BH-4 (3-4') (880-39935-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-74298 and analytical batch 880-74322 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

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

# Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HayHurst NM Section 9 CTB Release 2

Job ID: 880-39935-1
SDG: Eddy County , TX

## Client Sample ID: B-1 (0-1')

**Date Collected: 02/26/24 15:02**
**Date Received: 02/27/24 08:00**

**Lab Sample ID: 880-39935-1**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000383 | U | 0.00199 | 0.000383 | mg/Kg | | 02/27/24 14:20 | 02/29/24 12:48 | 1 |
| Toluene | <0.000454 | U | 0.00199 | 0.000454 | mg/Kg | | 02/27/24 14:20 | 02/29/24 12:48 | 1 |
| Ethylbenzene | <0.000563 | U | 0.00199 | 0.000563 | mg/Kg | | 02/27/24 14:20 | 02/29/24 12:48 | 1 |
| m-Xylene & p-Xylene | <0.00101 | U | 0.00398 | 0.00101 | mg/Kg | | 02/27/24 14:20 | 02/29/24 12:48 | 1 |
| **o-Xylene** | **0.000414** | **J F1** | 0.00199 | 0.000343 | mg/Kg | | 02/27/24 14:20 | 02/29/24 12:48 | 1 |
| Xylenes, Total | <0.00101 | U | 0.00398 | 0.00101 | mg/Kg | | 02/27/24 14:20 | 02/29/24 12:48 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *91* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 12:48* | *1* |
| *1,4-Difluorobenzene (Surr)* | *109* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 12:48* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00101 | U | 0.00398 | 0.00101 | mg/Kg | | | 02/29/24 12:48 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **83.7** | | 49.6 | 14.9 | mg/Kg | | | 02/29/24 11:35 | 1 |

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO)-C6-C10** | **44.5** | **J B** | 49.6 | 14.9 | mg/Kg | | 02/28/24 17:03 | 02/29/24 11:35 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **39.2** | **J** | 49.6 | 14.9 | mg/Kg | | 02/28/24 17:03 | 02/29/24 11:35 | 1 |
| OII Range Organics (Over C28-C36) | <14.9 | U | 49.6 | 14.9 | mg/Kg | | 02/28/24 17:03 | 02/29/24 11:35 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *116* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 11:35* | *1* |
| *o-Terphenyl* | *125* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 11:35* | *1* |

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **281** | | 5.03 | 0.397 | mg/Kg | | | 03/01/24 12:20 | 1 |

## Client Sample ID: B-2 (0-1')

**Date Collected: 02/26/24 15:05**
**Date Received: 02/27/24 08:00**

**Lab Sample ID: 880-39935-2**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000387 | U | 0.00201 | 0.000387 | mg/Kg | | 02/27/24 14:20 | 02/29/24 13:09 | 1 |
| Toluene | <0.000458 | U | 0.00201 | 0.000458 | mg/Kg | | 02/27/24 14:20 | 02/29/24 13:09 | 1 |
| Ethylbenzene | <0.000567 | U | 0.00201 | 0.000567 | mg/Kg | | 02/27/24 14:20 | 02/29/24 13:09 | 1 |
| m-Xylene & p-Xylene | <0.00101 | U | 0.00402 | 0.00101 | mg/Kg | | 02/27/24 14:20 | 02/29/24 13:09 | 1 |
| o-Xylene | <0.000345 | U | 0.00201 | 0.000345 | mg/Kg | | 02/27/24 14:20 | 02/29/24 13:09 | 1 |
| Xylenes, Total | <0.00101 | U | 0.00402 | 0.00101 | mg/Kg | | 02/27/24 14:20 | 02/29/24 13:09 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *107* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 13:09* | *1* |
| *1,4-Difluorobenzene (Surr)* | *111* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 13:09* | *1* |

# Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HayHurst NM Section 9 CTB Release 2

Job ID: 880-39935-1
SDG: Eddy County , TX

## Client Sample ID: B-2 (0-1')

**Date Collected: 02/26/24 15:05**
**Date Received: 02/27/24 08:00**

**Lab Sample ID: 880-39935-2**
**Matrix: Solid**

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00101 | U | 0.00402 | 0.00101 | mg/Kg | | | 02/29/24 13:09 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **82.2** | | 50.5 | 15.2 | mg/Kg | | | 02/29/24 12:39 | 1 |

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO)-C6-C10** | **38.8** | **J B** | 50.5 | 15.2 | mg/Kg | | 02/28/24 17:03 | 02/29/24 12:39 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **43.4** | **J** | 50.5 | 15.2 | mg/Kg | | 02/28/24 17:03 | 02/29/24 12:39 | 1 |
| OII Range Organics (Over C28-C36) | <15.2 | U | 50.5 | 15.2 | mg/Kg | | 02/28/24 17:03 | 02/29/24 12:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *153* | *S1+* | *70 - 130* | *02/28/24 17:03* | *02/29/24 12:39* | *1* |
| *o-Terphenyl* | *165* | *S1+* | *70 - 130* | *02/28/24 17:03* | *02/29/24 12:39* | *1* |

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **124** | | 5.05 | 0.399 | mg/Kg | | | 03/01/24 12:36 | 1 |

## Client Sample ID: B-3 (0-1')

**Date Collected: 02/26/24 15:08**
**Date Received: 02/27/24 08:00**

**Lab Sample ID: 880-39935-3**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000388 | U | 0.00202 | 0.000388 | mg/Kg | | 02/27/24 14:20 | 02/29/24 13:29 | 1 |
| Toluene | <0.000460 | U | 0.00202 | 0.000460 | mg/Kg | | 02/27/24 14:20 | 02/29/24 13:29 | 1 |
| Ethylbenzene | <0.000570 | U | 0.00202 | 0.000570 | mg/Kg | | 02/27/24 14:20 | 02/29/24 13:29 | 1 |
| m-Xylene & p-Xylene | <0.00102 | U | 0.00403 | 0.00102 | mg/Kg | | 02/27/24 14:20 | 02/29/24 13:29 | 1 |
| o-Xylene | <0.000347 | U | 0.00202 | 0.000347 | mg/Kg | | 02/27/24 14:20 | 02/29/24 13:29 | 1 |
| Xylenes, Total | <0.00102 | U | 0.00403 | 0.00102 | mg/Kg | | 02/27/24 14:20 | 02/29/24 13:29 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *105* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 13:29* | *1* |
| *1,4-Difluorobenzene (Surr)* | *112* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 13:29* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00102 | U | 0.00403 | 0.00102 | mg/Kg | | | 02/29/24 13:29 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **95.2** | | 49.7 | 14.9 | mg/Kg | | | 02/29/24 13:01 | 1 |

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO)-C6-C10** | **47.8** | **J B** | 49.7 | 14.9 | mg/Kg | | 02/28/24 17:03 | 02/29/24 13:01 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **47.4** | **J** | 49.7 | 14.9 | mg/Kg | | 02/28/24 17:03 | 02/29/24 13:01 | 1 |

# Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HayHurst NM Section 9 CTB Release 2

Job ID: 880-39935-1
SDG: Eddy County , TX

## Client Sample ID: B-3 (0-1')

**Lab Sample ID: 880-39935-3**
**Matrix: Solid**
**Date Collected: 02/26/24 15:08**
**Date Received: 02/27/24 08:00**

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| OII Range Organics (Over C28-C36) | <14.9 | U | 49.7 | 14.9 | mg/Kg | | 02/28/24 17:03 | 02/29/24 13:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *127* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 13:01* | *1* |
| *o-Terphenyl* | *135* | *S1+* | *70 - 130* | *02/28/24 17:03* | *02/29/24 13:01* | *1* |

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **71.8** | | 5.04 | 0.398 | mg/Kg | | | 03/01/24 12:42 | 1 |

## Client Sample ID: B-4 (0-1')

**Lab Sample ID: 880-39935-4**
**Matrix: Solid**
**Date Collected: 02/26/24 15:12**
**Date Received: 02/27/24 08:00**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000383 | U | 0.00199 | 0.000383 | mg/Kg | | 02/27/24 14:20 | 02/29/24 13:49 | 1 |
| Toluene | <0.000453 | U | 0.00199 | 0.000453 | mg/Kg | | 02/27/24 14:20 | 02/29/24 13:49 | 1 |
| Ethylbenzene | <0.000562 | U | 0.00199 | 0.000562 | mg/Kg | | 02/27/24 14:20 | 02/29/24 13:49 | 1 |
| m-Xylene & p-Xylene | <0.00100 | U | 0.00398 | 0.00100 | mg/Kg | | 02/27/24 14:20 | 02/29/24 13:49 | 1 |
| o-Xylene | <0.000342 | U | 0.00199 | 0.000342 | mg/Kg | | 02/27/24 14:20 | 02/29/24 13:49 | 1 |
| Xylenes, Total | <0.00100 | U | 0.00398 | 0.00100 | mg/Kg | | 02/27/24 14:20 | 02/29/24 13:49 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *113* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 13:49* | *1* |
| *1,4-Difluorobenzene (Surr)* | *113* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 13:49* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00100 | U | 0.00398 | 0.00100 | mg/Kg | | | 02/29/24 13:49 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **152** | | 49.9 | 15.0 | mg/Kg | | | 02/29/24 13:22 | 1 |

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO)-C6-C10** | **42.0** | **J B** | 49.9 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 13:22 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **110** | | 49.9 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 13:22 | 1 |
| OII Range Organics (Over C28-C36) | <15.0 | U | 49.9 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 13:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *114* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 13:22* | *1* |
| *o-Terphenyl* | *117* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 13:22* | *1* |

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **826** | | 5.04 | 0.398 | mg/Kg | | | 03/01/24 12:47 | 1 |

# Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HayHurst NM Section 9 CTB Release 2

Job ID: 880-39935-1
SDG: Eddy County , TX

## Client Sample ID: BH-1 (0-1')

**Lab Sample ID: 880-39935-5**
**Matrix: Solid**
**Date Collected: 02/26/24 15:15**
**Date Received: 02/27/24 08:00**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000384 | U | 0.00200 | 0.000384 | mg/Kg | | 02/27/24 14:20 | 02/29/24 14:10 | 1 |
| Toluene | <0.000455 | U | 0.00200 | 0.000455 | mg/Kg | | 02/27/24 14:20 | 02/29/24 14:10 | 1 |
| Ethylbenzene | <0.000564 | U | 0.00200 | 0.000564 | mg/Kg | | 02/27/24 14:20 | 02/29/24 14:10 | 1 |
| m-Xylene & p-Xylene | <0.00101 | U | 0.00399 | 0.00101 | mg/Kg | | 02/27/24 14:20 | 02/29/24 14:10 | 1 |
| o-Xylene | <0.000343 | U | 0.00200 | 0.000343 | mg/Kg | | 02/27/24 14:20 | 02/29/24 14:10 | 1 |
| Xylenes, Total | <0.00101 | U | 0.00399 | 0.00101 | mg/Kg | | 02/27/24 14:20 | 02/29/24 14:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *112* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 14:10* | *1* |
| *1,4-Difluorobenzene (Surr)* | *111* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 14:10* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00101 | U | 0.00399 | 0.00101 | mg/Kg | | | 02/29/24 14:10 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **95.3** | | 49.9 | 15.0 | mg/Kg | | | 02/29/24 13:43 | 1 |

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO)-C6-C10** | **42.9** | **J B** | 49.9 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 13:43 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **52.4** | | 49.9 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 13:43 | 1 |
| OII Range Organics (Over C28-C36) | <15.0 | U | 49.9 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 13:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *126* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 13:43* | *1* |
| *o-Terphenyl* | *136* | *S1+* | *70 - 130* | *02/28/24 17:03* | *02/29/24 13:43* | *1* |

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **4170** | | 99.4 | 7.85 | mg/Kg | | | 03/01/24 12:53 | 20 |

## Client Sample ID: BH-1 (1-2')

**Lab Sample ID: 880-39935-6**
**Matrix: Solid**
**Date Collected: 02/26/24 15:19**
**Date Received: 02/27/24 08:00**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000381 | U | 0.00198 | 0.000381 | mg/Kg | | 02/27/24 14:20 | 02/29/24 14:30 | 1 |
| Toluene | <0.000451 | U | 0.00198 | 0.000451 | mg/Kg | | 02/27/24 14:20 | 02/29/24 14:30 | 1 |
| Ethylbenzene | <0.000559 | U | 0.00198 | 0.000559 | mg/Kg | | 02/27/24 14:20 | 02/29/24 14:30 | 1 |
| m-Xylene & p-Xylene | <0.00100 | U | 0.00396 | 0.00100 | mg/Kg | | 02/27/24 14:20 | 02/29/24 14:30 | 1 |
| **o-Xylene** | **0.000462** | **J** | 0.00198 | 0.000341 | mg/Kg | | 02/27/24 14:20 | 02/29/24 14:30 | 1 |
| Xylenes, Total | <0.00100 | U | 0.00396 | 0.00100 | mg/Kg | | 02/27/24 14:20 | 02/29/24 14:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *114* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 14:30* | *1* |
| *1,4-Difluorobenzene (Surr)* | *111* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 14:30* | *1* |

# Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HayHurst NM Section 9 CTB Release 2

Job ID: 880-39935-1
SDG: Eddy County , TX

## Client Sample ID: BH-1 (1-2')

**Lab Sample ID: 880-39935-6**
**Matrix: Solid**
**Date Collected: 02/26/24 15:19**
**Date Received: 02/27/24 08:00**

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00100 | U | 0.00396 | 0.00100 | mg/Kg | | | 02/29/24 14:30 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **80.4** | | 50.0 | 15.0 | mg/Kg | | | 02/29/24 14:05 | 1 |

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO)-C6-C10** | **47.5** | **J B** | 50.0 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 14:05 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **32.9** | **J** | 50.0 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 14:05 | 1 |
| OII Range Organics (Over C28-C36) | <15.0 | U | 50.0 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 14:05 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *116* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 14:05* | *1* |
| *o-Terphenyl* | *123* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 14:05* | *1* |

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **122** | | 4.95 | 0.391 | mg/Kg | | | 03/01/24 13:09 | 1 |

## Client Sample ID: BH-1 (2-3')

**Lab Sample ID: 880-39935-7**
**Matrix: Solid**
**Date Collected: 02/26/24 15:23**
**Date Received: 02/27/24 08:00**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000387 | U | 0.00201 | 0.000387 | mg/Kg | | 02/27/24 14:20 | 02/29/24 14:51 | 1 |
| Toluene | <0.000458 | U | 0.00201 | 0.000458 | mg/Kg | | 02/27/24 14:20 | 02/29/24 14:51 | 1 |
| Ethylbenzene | <0.000567 | U | 0.00201 | 0.000567 | mg/Kg | | 02/27/24 14:20 | 02/29/24 14:51 | 1 |
| m-Xylene & p-Xylene | <0.00101 | U | 0.00402 | 0.00101 | mg/Kg | | 02/27/24 14:20 | 02/29/24 14:51 | 1 |
| **o-Xylene** | **0.000447** | **J** | 0.00201 | 0.000345 | mg/Kg | | 02/27/24 14:20 | 02/29/24 14:51 | 1 |
| Xylenes, Total | <0.00101 | U | 0.00402 | 0.00101 | mg/Kg | | 02/27/24 14:20 | 02/29/24 14:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *101* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 14:51* | *1* |
| *1,4-Difluorobenzene (Surr)* | *109* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 14:51* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00101 | U | 0.00402 | 0.00101 | mg/Kg | | | 02/29/24 14:51 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **86.7** | | 50.1 | 15.0 | mg/Kg | | | 02/29/24 14:26 | 1 |

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO)-C6-C10** | **48.3** | **J B** | 50.1 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 14:26 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **38.4** | **J** | 50.1 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 14:26 | 1 |

Eurofins Midland

# Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HayHurst NM Section 9 CTB Release 2

Job ID: 880-39935-1
SDG: Eddy County , TX

## Client Sample ID: BH-1 (2-3')

**Lab Sample ID: 880-39935-7**

**Date Collected: 02/26/24 15:23**
**Matrix: Solid**
**Date Received: 02/27/24 08:00**

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| OII Range Organics (Over C28-C36) | <15.0 | U | 50.1 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 14:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *127* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 14:26* | *1* |
| *o-Terphenyl* | *129* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 14:26* | *1* |

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **78.2** | | 4.98 | 0.393 | mg/Kg | | | 03/01/24 13:15 | 1 |

## Client Sample ID: BH-1 (3-4')

**Lab Sample ID: 880-39935-8**

**Date Collected: 02/26/24 15:27**
**Matrix: Solid**
**Date Received: 02/27/24 08:00**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000389 | U | 0.00202 | 0.000389 | mg/Kg | | 02/27/24 14:20 | 02/29/24 15:12 | 1 |
| Toluene | <0.000461 | U | 0.00202 | 0.000461 | mg/Kg | | 02/27/24 14:20 | 02/29/24 15:12 | 1 |
| Ethylbenzene | <0.000571 | U | 0.00202 | 0.000571 | mg/Kg | | 02/27/24 14:20 | 02/29/24 15:12 | 1 |
| m-Xylene & p-Xylene | <0.00102 | U | 0.00404 | 0.00102 | mg/Kg | | 02/27/24 14:20 | 02/29/24 15:12 | 1 |
| **o-Xylene** | **0.000519** | **J** | 0.00202 | 0.000347 | mg/Kg | | 02/27/24 14:20 | 02/29/24 15:12 | 1 |
| Xylenes, Total | <0.00102 | U | 0.00404 | 0.00102 | mg/Kg | | 02/27/24 14:20 | 02/29/24 15:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *105* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 15:12* | *1* |
| *1,4-Difluorobenzene (Surr)* | *106* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 15:12* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00102 | U | 0.00404 | 0.00102 | mg/Kg | | | 02/29/24 15:12 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **85.0** | | 50.3 | 15.1 | mg/Kg | | | 02/29/24 14:47 | 1 |

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO)-C6-C10** | **45.8** | **J B** | 50.3 | 15.1 | mg/Kg | | 02/28/24 17:03 | 02/29/24 14:47 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **39.2** | **J** | 50.3 | 15.1 | mg/Kg | | 02/28/24 17:03 | 02/29/24 14:47 | 1 |
| OII Range Organics (Over C28-C36) | <15.1 | U | 50.3 | 15.1 | mg/Kg | | 02/28/24 17:03 | 02/29/24 14:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *116* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 14:47* | *1* |
| *o-Terphenyl* | *122* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 14:47* | *1* |

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **133** | | 5.03 | 0.397 | mg/Kg | | | 03/01/24 13:20 | 1 |

# Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HayHurst NM Section 9 CTB Release 2

Job ID: 880-39935-1
SDG: Eddy County , TX

## Client Sample ID: BH-2 (0-1')

**Lab Sample ID: 880-39935-9**
**Matrix: Solid**
**Date Collected: 02/26/24 15:30**
**Date Received: 02/27/24 08:00**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000384 | U | 0.00200 | 0.000384 | mg/Kg | | 02/27/24 14:20 | 02/29/24 15:32 | 1 |
| Toluene | <0.000455 | U | 0.00200 | 0.000455 | mg/Kg | | 02/27/24 14:20 | 02/29/24 15:32 | 1 |
| Ethylbenzene | <0.000564 | U | 0.00200 | 0.000564 | mg/Kg | | 02/27/24 14:20 | 02/29/24 15:32 | 1 |
| m-Xylene & p-Xylene | <0.00101 | U | 0.00399 | 0.00101 | mg/Kg | | 02/27/24 14:20 | 02/29/24 15:32 | 1 |
| o-Xylene | <0.000343 | U | 0.00200 | 0.000343 | mg/Kg | | 02/27/24 14:20 | 02/29/24 15:32 | 1 |
| Xylenes, Total | <0.00101 | U | 0.00399 | 0.00101 | mg/Kg | | 02/27/24 14:20 | 02/29/24 15:32 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *113* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 15:32* | *1* |
| *1,4-Difluorobenzene (Surr)* | *113* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 15:32* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00101 | U | 0.00399 | 0.00101 | mg/Kg | | | 02/29/24 15:32 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **86.2** | | 50.5 | 15.2 | mg/Kg | | | 02/29/24 15:09 | 1 |

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO)-C6-C10** | **45.8** | **J B** | 50.5 | 15.2 | mg/Kg | | 02/28/24 17:03 | 02/29/24 15:09 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **40.4** | **J** | 50.5 | 15.2 | mg/Kg | | 02/28/24 17:03 | 02/29/24 15:09 | 1 |
| OII Range Organics (Over C28-C36) | <15.2 | U | 50.5 | 15.2 | mg/Kg | | 02/28/24 17:03 | 02/29/24 15:09 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *126* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 15:09* | *1* |
| *o-Terphenyl* | *135* | *S1+* | *70 - 130* | *02/28/24 17:03* | *02/29/24 15:09* | *1* |

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **90.8** | | 5.02 | 0.397 | mg/Kg | | | 03/01/24 13:26 | 1 |

## Client Sample ID: BH-2 (1-2')

**Lab Sample ID: 880-39935-10**
**Matrix: Solid**
**Date Collected: 02/26/24 15:33**
**Date Received: 02/27/24 08:00**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000381 | U | 0.00198 | 0.000381 | mg/Kg | | 02/27/24 14:20 | 02/29/24 15:52 | 1 |
| Toluene | <0.000451 | U | 0.00198 | 0.000451 | mg/Kg | | 02/27/24 14:20 | 02/29/24 15:52 | 1 |
| Ethylbenzene | <0.000559 | U | 0.00198 | 0.000559 | mg/Kg | | 02/27/24 14:20 | 02/29/24 15:52 | 1 |
| m-Xylene & p-Xylene | <0.00100 | U | 0.00396 | 0.00100 | mg/Kg | | 02/27/24 14:20 | 02/29/24 15:52 | 1 |
| o-Xylene | <0.000341 | U | 0.00198 | 0.000341 | mg/Kg | | 02/27/24 14:20 | 02/29/24 15:52 | 1 |
| Xylenes, Total | <0.00100 | U | 0.00396 | 0.00100 | mg/Kg | | 02/27/24 14:20 | 02/29/24 15:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *106* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 15:52* | *1* |
| *1,4-Difluorobenzene (Surr)* | *106* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 15:52* | *1* |

# Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HayHurst NM Section 9 CTB Release 2

Job ID: 880-39935-1
SDG: Eddy County , TX

## Client Sample ID: BH-2 (1-2')

**Lab Sample ID: 880-39935-10**
**Matrix: Solid**
**Date Collected: 02/26/24 15:33**
**Date Received: 02/27/24 08:00**

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00100 | U | 0.00396 | 0.00100 | mg/Kg | | | 02/29/24 15:52 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **79.8** | | 50.5 | 15.2 | mg/Kg | | | 02/29/24 15:30 | 1 |

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO)-C6-C10** | **42.0** | **J B** | 50.5 | 15.2 | mg/Kg | | 02/28/24 17:03 | 02/29/24 15:30 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **37.8** | **J** | 50.5 | 15.2 | mg/Kg | | 02/28/24 17:03 | 02/29/24 15:30 | 1 |
| OII Range Organics (Over C28-C36) | <15.2 | U | 50.5 | 15.2 | mg/Kg | | 02/28/24 17:03 | 02/29/24 15:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *117* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 15:30* | *1* |
| *o-Terphenyl* | *124* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 15:30* | *1* |

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **167** | | 4.99 | 0.394 | mg/Kg | | | 03/01/24 13:31 | 1 |

## Client Sample ID: BH-2 (2-3')

**Lab Sample ID: 880-39935-11**
**Matrix: Solid**
**Date Collected: 02/26/24 15:35**
**Date Received: 02/27/24 08:00**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000385 | U | 0.00200 | 0.000385 | mg/Kg | | 02/27/24 14:20 | 02/29/24 17:43 | 1 |
| Toluene | <0.000456 | U | 0.00200 | 0.000456 | mg/Kg | | 02/27/24 14:20 | 02/29/24 17:43 | 1 |
| Ethylbenzene | <0.000565 | U | 0.00200 | 0.000565 | mg/Kg | | 02/27/24 14:20 | 02/29/24 17:43 | 1 |
| m-Xylene & p-Xylene | <0.00101 | U | 0.00400 | 0.00101 | mg/Kg | | 02/27/24 14:20 | 02/29/24 17:43 | 1 |
| **o-Xylene** | **0.000507** | **J** | 0.00200 | 0.000344 | mg/Kg | | 02/27/24 14:20 | 02/29/24 17:43 | 1 |
| Xylenes, Total | <0.00101 | U | 0.00400 | 0.00101 | mg/Kg | | 02/27/24 14:20 | 02/29/24 17:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *84* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 17:43* | *1* |
| *1,4-Difluorobenzene (Surr)* | *112* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 17:43* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00101 | U | 0.00400 | 0.00101 | mg/Kg | | | 02/29/24 17:43 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **75.0** | | 49.8 | 14.9 | mg/Kg | | | 02/29/24 16:12 | 1 |

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO)-C6-C10** | **40.6** | **J B** | 49.8 | 14.9 | mg/Kg | | 02/28/24 17:03 | 02/29/24 16:12 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **34.4** | **J** | 49.8 | 14.9 | mg/Kg | | 02/28/24 17:03 | 02/29/24 16:12 | 1 |

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# Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HayHurst NM Section 9 CTB Release 2

Job ID: 880-39935-1
SDG: Eddy County , TX

## Client Sample ID: BH-2 (2-3')

**Lab Sample ID: 880-39935-11**
**Matrix: Solid**
**Date Collected: 02/26/24 15:35**
**Date Received: 02/27/24 08:00**

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| OII Range Organics (Over C28-C36) | <14.9 | U | 49.8 | 14.9 | mg/Kg | | 02/28/24 17:03 | 02/29/24 16:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *107* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 16:12* | *1* |
| *o-Terphenyl* | *113* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 16:12* | *1* |

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **133** | | 4.96 | 0.392 | mg/Kg | | | 03/01/24 13:37 | 1 |

## Client Sample ID: BH-2 (3-4')

**Lab Sample ID: 880-39935-12**
**Matrix: Solid**
**Date Collected: 02/26/24 15:39**
**Date Received: 02/27/24 08:00**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000383 | U | 0.00199 | 0.000383 | mg/Kg | | 02/27/24 14:20 | 02/29/24 18:03 | 1 |
| Toluene | <0.000454 | U | 0.00199 | 0.000454 | mg/Kg | | 02/27/24 14:20 | 02/29/24 18:03 | 1 |
| Ethylbenzene | <0.000563 | U | 0.00199 | 0.000563 | mg/Kg | | 02/27/24 14:20 | 02/29/24 18:03 | 1 |
| m-Xylene & p-Xylene | <0.00101 | U | 0.00398 | 0.00101 | mg/Kg | | 02/27/24 14:20 | 02/29/24 18:03 | 1 |
| o-Xylene | <0.000343 | U | 0.00199 | 0.000343 | mg/Kg | | 02/27/24 14:20 | 02/29/24 18:03 | 1 |
| Xylenes, Total | <0.00101 | U | 0.00398 | 0.00101 | mg/Kg | | 02/27/24 14:20 | 02/29/24 18:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *100* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 18:03* | *1* |
| *1,4-Difluorobenzene (Surr)* | *115* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 18:03* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00101 | U | 0.00398 | 0.00101 | mg/Kg | | | 02/29/24 18:03 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **79.8** | | 49.9 | 15.0 | mg/Kg | | | 02/29/24 16:33 | 1 |

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO)-C6-C10** | **39.8** | **J B** | 49.9 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 16:33 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **40.0** | **J** | 49.9 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 16:33 | 1 |
| OII Range Organics (Over C28-C36) | <15.0 | U | 49.9 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 16:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *124* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 16:33* | *1* |
| *o-Terphenyl* | *130* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 16:33* | *1* |

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **77.6** | | 5.05 | 0.399 | mg/Kg | | | 03/01/24 13:53 | 1 |

# Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HayHurst NM Section 9 CTB Release 2

Job ID: 880-39935-1
SDG: Eddy County , TX

## Client Sample ID: BH-3 (0-1')

**Lab Sample ID: 880-39935-13**
**Matrix: Solid**
**Date Collected: 02/26/24 15:32**
**Date Received: 02/27/24 08:00**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000387 | U | 0.00201 | 0.000387 | mg/Kg | | 02/27/24 14:20 | 02/29/24 18:24 | 1 |
| Toluene | <0.000458 | U | 0.00201 | 0.000458 | mg/Kg | | 02/27/24 14:20 | 02/29/24 18:24 | 1 |
| Ethylbenzene | <0.000567 | U | 0.00201 | 0.000567 | mg/Kg | | 02/27/24 14:20 | 02/29/24 18:24 | 1 |
| m-Xylene & p-Xylene | <0.00101 | U | 0.00402 | 0.00101 | mg/Kg | | 02/27/24 14:20 | 02/29/24 18:24 | 1 |
| o-Xylene | <0.000345 | U | 0.00201 | 0.000345 | mg/Kg | | 02/27/24 14:20 | 02/29/24 18:24 | 1 |
| Xylenes, Total | <0.00101 | U | 0.00402 | 0.00101 | mg/Kg | | 02/27/24 14:20 | 02/29/24 18:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *97* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 18:24* | *1* |
| *1,4-Difluorobenzene (Surr)* | *113* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 18:24* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00101 | U | 0.00402 | 0.00101 | mg/Kg | | | 02/29/24 18:24 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **81.8** | | 50.0 | 15.0 | mg/Kg | | | 02/29/24 16:55 | 1 |

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO)-C6-C10** | **43.6** | **J B** | 50.0 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 16:55 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **38.2** | **J** | 50.0 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 16:55 | 1 |
| OII Range Organics (Over C28-C36) | <15.0 | U | 50.0 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 16:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *112* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 16:55* | *1* |
| *o-Terphenyl* | *118* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 16:55* | *1* |

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **4340** | | 100 | 7.90 | mg/Kg | | | 03/01/24 13:59 | 20 |

## Client Sample ID: BH-3 1-2')

**Lab Sample ID: 880-39935-14**
**Matrix: Solid**
**Date Collected: 02/26/24 15:34**
**Date Received: 02/27/24 08:00**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000388 | U | 0.00202 | 0.000388 | mg/Kg | | 02/27/24 14:20 | 02/29/24 18:44 | 1 |
| Toluene | <0.000460 | U | 0.00202 | 0.000460 | mg/Kg | | 02/27/24 14:20 | 02/29/24 18:44 | 1 |
| Ethylbenzene | <0.000570 | U | 0.00202 | 0.000570 | mg/Kg | | 02/27/24 14:20 | 02/29/24 18:44 | 1 |
| m-Xylene & p-Xylene | <0.00102 | U | 0.00403 | 0.00102 | mg/Kg | | 02/27/24 14:20 | 02/29/24 18:44 | 1 |
| **o-Xylene** | **0.000634** | **J** | 0.00202 | 0.000347 | mg/Kg | | 02/27/24 14:20 | 02/29/24 18:44 | 1 |
| Xylenes, Total | <0.00102 | U | 0.00403 | 0.00102 | mg/Kg | | 02/27/24 14:20 | 02/29/24 18:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *108* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 18:44* | *1* |
| *1,4-Difluorobenzene (Surr)* | *115* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 18:44* | *1* |

# Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HayHurst NM Section 9 CTB Release 2

Job ID: 880-39935-1
SDG: Eddy County , TX

## Client Sample ID: BH-3 1-2')

**Date Collected: 02/26/24 15:34**
**Date Received: 02/27/24 08:00**

## Lab Sample ID: 880-39935-14

**Matrix: Solid**

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00102 | U | 0.00403 | 0.00102 | mg/Kg | | | 02/29/24 18:44 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **79.0** | | 49.8 | 14.9 | mg/Kg | | | 02/29/24 17:17 | 1 |

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO)-C6-C10** | **42.3** | **J B** | 49.8 | 14.9 | mg/Kg | | 02/28/24 17:03 | 02/29/24 17:17 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **36.7** | **J** | 49.8 | 14.9 | mg/Kg | | 02/28/24 17:03 | 02/29/24 17:17 | 1 |
| OII Range Organics (Over C28-C36) | <14.9 | U | 49.8 | 14.9 | mg/Kg | | 02/28/24 17:03 | 02/29/24 17:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *109* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 17:17* | *1* |
| *o-Terphenyl* | *120* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 17:17* | *1* |

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **517** | | 5.05 | 0.399 | mg/Kg | | | 03/01/24 14:16 | 1 |

## Client Sample ID: BH-3 (2-3')

**Date Collected: 02/26/24 15:36**
**Date Received: 02/27/24 08:00**

## Lab Sample ID: 880-39935-15

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000387 | U | 0.00201 | 0.000387 | mg/Kg | | 02/27/24 14:20 | 02/29/24 19:05 | 1 |
| Toluene | <0.000459 | U | 0.00201 | 0.000459 | mg/Kg | | 02/27/24 14:20 | 02/29/24 19:05 | 1 |
| Ethylbenzene | <0.000568 | U | 0.00201 | 0.000568 | mg/Kg | | 02/27/24 14:20 | 02/29/24 19:05 | 1 |
| m-Xylene & p-Xylene | <0.00102 | U | 0.00402 | 0.00102 | mg/Kg | | 02/27/24 14:20 | 02/29/24 19:05 | 1 |
| **o-Xylene** | **0.000681** | **J** | 0.00201 | 0.000346 | mg/Kg | | 02/27/24 14:20 | 02/29/24 19:05 | 1 |
| Xylenes, Total | <0.00102 | U | 0.00402 | 0.00102 | mg/Kg | | 02/27/24 14:20 | 02/29/24 19:05 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 19:05* | *1* |
| *1,4-Difluorobenzene (Surr)* | *113* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 19:05* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00102 | U | 0.00402 | 0.00102 | mg/Kg | | | 02/29/24 19:05 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **74.4** | | 49.9 | 15.0 | mg/Kg | | | 02/29/24 17:38 | 1 |

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO)-C6-C10** | **40.9** | **J B** | 49.9 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 17:38 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **33.5** | **J** | 49.9 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 17:38 | 1 |

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# Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HayHurst NM Section 9 CTB Release 2

Job ID: 880-39935-1
SDG: Eddy County , TX

## Client Sample ID: BH-3 (2-3')

**Lab Sample ID: 880-39935-15**
**Matrix: Solid**
**Date Collected: 02/26/24 15:36**
**Date Received: 02/27/24 08:00**

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| OII Range Organics (Over C28-C36) | <15.0 | U | 49.9 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 17:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *132* | *S1+* | *70 - 130* | *02/28/24 17:03* | *02/29/24 17:38* | *1* |
| *o-Terphenyl* | *140* | *S1+* | *70 - 130* | *02/28/24 17:03* | *02/29/24 17:38* | *1* |

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **95.8** | | 4.96 | 0.392 | mg/Kg | | | 03/01/24 14:21 | 1 |

## Client Sample ID: BH-3 (3-4')

**Lab Sample ID: 880-39935-16**
**Matrix: Solid**
**Date Collected: 02/26/24 15:39**
**Date Received: 02/27/24 08:00**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000387 | U | 0.00201 | 0.000387 | mg/Kg | | 02/27/24 14:20 | 02/29/24 19:25 | 1 |
| Toluene | <0.000458 | U | 0.00201 | 0.000458 | mg/Kg | | 02/27/24 14:20 | 02/29/24 19:25 | 1 |
| Ethylbenzene | <0.000567 | U | 0.00201 | 0.000567 | mg/Kg | | 02/27/24 14:20 | 02/29/24 19:25 | 1 |
| m-Xylene & p-Xylene | <0.00101 | U | 0.00402 | 0.00101 | mg/Kg | | 02/27/24 14:20 | 02/29/24 19:25 | 1 |
| o-Xylene | <0.000345 | U | 0.00201 | 0.000345 | mg/Kg | | 02/27/24 14:20 | 02/29/24 19:25 | 1 |
| Xylenes, Total | <0.00101 | U | 0.00402 | 0.00101 | mg/Kg | | 02/27/24 14:20 | 02/29/24 19:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *112* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 19:25* | *1* |
| *1,4-Difluorobenzene (Surr)* | *109* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 19:25* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00101 | U | 0.00402 | 0.00101 | mg/Kg | | | 02/29/24 19:25 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **81.5** | | 49.6 | 14.9 | mg/Kg | | | 02/29/24 17:58 | 1 |

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO)-C6-C10** | **46.3** | **J B** | 49.6 | 14.9 | mg/Kg | | 02/28/24 17:03 | 02/29/24 17:58 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **35.2** | **J** | 49.6 | 14.9 | mg/Kg | | 02/28/24 17:03 | 02/29/24 17:58 | 1 |
| OII Range Organics (Over C28-C36) | <14.9 | U | 49.6 | 14.9 | mg/Kg | | 02/28/24 17:03 | 02/29/24 17:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *110* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 17:58* | *1* |
| *o-Terphenyl* | *118* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 17:58* | *1* |

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **129** | | 4.98 | 0.393 | mg/Kg | | | 03/01/24 14:27 | 1 |

# Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HayHurst NM Section 9 CTB Release 2

Job ID: 880-39935-1
SDG: Eddy County , TX

## Client Sample ID: BH-4 (0-1')

**Lab Sample ID: 880-39935-17**
**Matrix: Solid**
**Date Collected: 02/26/24 15:51**
**Date Received: 02/27/24 08:00**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000383 | U | 0.00199 | 0.000383 | mg/Kg | | 02/27/24 14:20 | 02/29/24 19:46 | 1 |
| Toluene | <0.000454 | U | 0.00199 | 0.000454 | mg/Kg | | 02/27/24 14:20 | 02/29/24 19:46 | 1 |
| Ethylbenzene | <0.000563 | U | 0.00199 | 0.000563 | mg/Kg | | 02/27/24 14:20 | 02/29/24 19:46 | 1 |
| m-Xylene & p-Xylene | <0.00101 | U | 0.00398 | 0.00101 | mg/Kg | | 02/27/24 14:20 | 02/29/24 19:46 | 1 |
| o-Xylene | <0.000343 | U | 0.00199 | 0.000343 | mg/Kg | | 02/27/24 14:20 | 02/29/24 19:46 | 1 |
| Xylenes, Total | <0.00101 | U | 0.00398 | 0.00101 | mg/Kg | | 02/27/24 14:20 | 02/29/24 19:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *101* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 19:46* | *1* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 19:46* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00101 | U | 0.00398 | 0.00101 | mg/Kg | | | 02/29/24 19:46 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **82.5** | | 50.2 | 15.0 | mg/Kg | | | 02/29/24 18:19 | 1 |

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO)-C6-C10** | **47.1** | **J B** | 50.2 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 18:19 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **35.4** | **J** | 50.2 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 18:19 | 1 |
| OII Range Organics (Over C28-C36) | <15.0 | U | 50.2 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 18:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *120* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 18:19* | *1* |
| *o-Terphenyl* | *127* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 18:19* | *1* |

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **868** | | 25.1 | 1.98 | mg/Kg | | | 03/01/24 14:32 | 5 |

## Client Sample ID: BH-4 (1-2')

**Lab Sample ID: 880-39935-18**
**Matrix: Solid**
**Date Collected: 02/26/24 15:53**
**Date Received: 02/27/24 08:00**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000383 | U | 0.00199 | 0.000383 | mg/Kg | | 02/27/24 14:20 | 02/29/24 20:06 | 1 |
| Toluene | <0.000453 | U | 0.00199 | 0.000453 | mg/Kg | | 02/27/24 14:20 | 02/29/24 20:06 | 1 |
| Ethylbenzene | <0.000562 | U | 0.00199 | 0.000562 | mg/Kg | | 02/27/24 14:20 | 02/29/24 20:06 | 1 |
| m-Xylene & p-Xylene | <0.00100 | U | 0.00398 | 0.00100 | mg/Kg | | 02/27/24 14:20 | 02/29/24 20:06 | 1 |
| o-Xylene | <0.000342 | U | 0.00199 | 0.000342 | mg/Kg | | 02/27/24 14:20 | 02/29/24 20:06 | 1 |
| Xylenes, Total | <0.00100 | U | 0.00398 | 0.00100 | mg/Kg | | 02/27/24 14:20 | 02/29/24 20:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *115* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 20:06* | *1* |
| *1,4-Difluorobenzene (Surr)* | *110* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 20:06* | *1* |

# Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HayHurst NM Section 9 CTB Release 2

Job ID: 880-39935-1
SDG: Eddy County , TX

## Client Sample ID: BH-4 (1-2')

**Lab Sample ID: 880-39935-18**
**Matrix: Solid**
**Date Collected: 02/26/24 15:53**
**Date Received: 02/27/24 08:00**

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00100 | U | 0.00398 | 0.00100 | mg/Kg | | | 02/29/24 20:06 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **83.9** | | 50.4 | 15.1 | mg/Kg | | | 02/29/24 18:40 | 1 |

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO)-C6-C10** | **48.9** | **J B** | 50.4 | 15.1 | mg/Kg | | 02/28/24 17:03 | 02/29/24 18:40 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **35.0** | **J** | 50.4 | 15.1 | mg/Kg | | 02/28/24 17:03 | 02/29/24 18:40 | 1 |
| OII Range Organics (Over C28-C36) | <15.1 | U | 50.4 | 15.1 | mg/Kg | | 02/28/24 17:03 | 02/29/24 18:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *117* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 18:40* | *1* |
| *o-Terphenyl* | *126* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 18:40* | *1* |

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **106** | | 5.04 | 0.398 | mg/Kg | | | 03/01/24 14:38 | 1 |

## Client Sample ID: BH-4 (2-3')

**Lab Sample ID: 880-39935-19**
**Matrix: Solid**
**Date Collected: 02/26/24 15:56**
**Date Received: 02/27/24 08:00**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000381 | U | 0.00198 | 0.000381 | mg/Kg | | 02/27/24 14:20 | 02/29/24 20:27 | 1 |
| Toluene | <0.000451 | U | 0.00198 | 0.000451 | mg/Kg | | 02/27/24 14:20 | 02/29/24 20:27 | 1 |
| Ethylbenzene | <0.000559 | U | 0.00198 | 0.000559 | mg/Kg | | 02/27/24 14:20 | 02/29/24 20:27 | 1 |
| m-Xylene & p-Xylene | <0.00100 | U | 0.00396 | 0.00100 | mg/Kg | | 02/27/24 14:20 | 02/29/24 20:27 | 1 |
| o-Xylene | <0.000341 | U | 0.00198 | 0.000341 | mg/Kg | | 02/27/24 14:20 | 02/29/24 20:27 | 1 |
| Xylenes, Total | <0.00100 | U | 0.00396 | 0.00100 | mg/Kg | | 02/27/24 14:20 | 02/29/24 20:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 20:27* | *1* |
| *1,4-Difluorobenzene (Surr)* | *108* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 20:27* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00100 | U | 0.00396 | 0.00100 | mg/Kg | | | 02/29/24 20:27 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **83.2** | | 50.1 | 15.0 | mg/Kg | | | 02/29/24 19:01 | 1 |

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO)-C6-C10** | **49.1** | **J B** | 50.1 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 19:01 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **34.1** | **J** | 50.1 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 19:01 | 1 |

Eurofins Midland

# Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HayHurst NM Section 9 CTB Release 2

Job ID: 880-39935-1
SDG: Eddy County , TX

## Client Sample ID: BH-4 (2-3')

**Lab Sample ID: 880-39935-19**
**Matrix: Solid**
**Date Collected: 02/26/24 15:56**
**Date Received: 02/27/24 08:00**

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| OII Range Organics (Over C28-C36) | <15.0 | U | 50.1 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 19:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *152* | *S1+* | *70 - 130* | *02/28/24 17:03* | *02/29/24 19:01* | *1* |
| *o-Terphenyl* | *164* | *S1+* | *70 - 130* | *02/28/24 17:03* | *02/29/24 19:01* | *1* |

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **136** | | 4.99 | 0.394 | mg/Kg | | | 03/01/24 14:43 | 1 |

## Client Sample ID: BH-4 (3-4')

**Lab Sample ID: 880-39935-20**
**Matrix: Solid**
**Date Collected: 02/26/24 15:59**
**Date Received: 02/27/24 08:00**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000384 | U | 0.00200 | 0.000384 | mg/Kg | | 02/27/24 14:20 | 02/29/24 20:47 | 1 |
| Toluene | <0.000455 | U | 0.00200 | 0.000455 | mg/Kg | | 02/27/24 14:20 | 02/29/24 20:47 | 1 |
| Ethylbenzene | <0.000564 | U | 0.00200 | 0.000564 | mg/Kg | | 02/27/24 14:20 | 02/29/24 20:47 | 1 |
| m-Xylene & p-Xylene | <0.00101 | U | 0.00399 | 0.00101 | mg/Kg | | 02/27/24 14:20 | 02/29/24 20:47 | 1 |
| **o-Xylene** | **0.000385** | **J** | 0.00200 | 0.000343 | mg/Kg | | 02/27/24 14:20 | 02/29/24 20:47 | 1 |
| Xylenes, Total | <0.00101 | U | 0.00399 | 0.00101 | mg/Kg | | 02/27/24 14:20 | 02/29/24 20:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *106* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 20:47* | *1* |
| *1,4-Difluorobenzene (Surr)* | *111* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 20:47* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00101 | U | 0.00399 | 0.00101 | mg/Kg | | | 02/29/24 20:47 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **79.1** | | 50.5 | 15.1 | mg/Kg | | | 02/29/24 19:21 | 1 |

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO)-C6-C10** | **48.9** | **J B** | 50.5 | 15.1 | mg/Kg | | 02/28/24 17:03 | 02/29/24 19:21 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **30.2** | **J** | 50.5 | 15.1 | mg/Kg | | 02/28/24 17:03 | 02/29/24 19:21 | 1 |
| OII Range Organics (Over C28-C36) | <15.1 | U | 50.5 | 15.1 | mg/Kg | | 02/28/24 17:03 | 02/29/24 19:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *129* | | *70 - 130* | *02/28/24 17:03* | *02/29/24 19:21* | *1* |
| *o-Terphenyl* | *139* | *S1+* | *70 - 130* | *02/28/24 17:03* | *02/29/24 19:21* | *1* |

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **115** | | 4.98 | 0.393 | mg/Kg | | | 03/01/24 14:49 | 1 |

# Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: HayHurst NM Section 9 CTB Release 2

Job ID: 880-39935-1
SDG: Eddy County , TX

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

**Matrix: Solid**

**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab Sample ID | Client Sample ID | BFB1 (70-130) | DFBZ1 (70-130) | | | | | | | | | | |
| 880-39935-1 | B-1 (0-1') | 91 | 109 | | | | | | | | | | |
| 880-39935-1 MS | B-1 (0-1') | 91 | 94 | | | | | | | | | | |
| 880-39935-1 MSD | B-1 (0-1') | 103 | 100 | | | | | | | | | | |
| 880-39935-2 | B-2 (0-1') | 107 | 111 | | | | | | | | | | |
| 880-39935-3 | B-3 (0-1') | 105 | 112 | | | | | | | | | | |
| 880-39935-4 | B-4 (0-1') | 113 | 113 | | | | | | | | | | |
| 880-39935-5 | BH-1 (0-1') | 112 | 111 | | | | | | | | | | |
| 880-39935-6 | BH-1 (1-2') | 114 | 111 | | | | | | | | | | |
| 880-39935-7 | BH-1 (2-3') | 101 | 109 | | | | | | | | | | |
| 880-39935-8 | BH-1 (3-4') | 105 | 106 | | | | | | | | | | |
| 880-39935-9 | BH-2 (0-1') | 113 | 113 | | | | | | | | | | |
| 880-39935-10 | BH-2 (1-2') | 106 | 106 | | | | | | | | | | |
| 880-39935-11 | BH-2 (2-3') | 84 | 112 | | | | | | | | | | |
| 880-39935-12 | BH-2 (3-4') | 100 | 115 | | | | | | | | | | |
| 880-39935-13 | BH-3 (0-1') | 97 | 113 | | | | | | | | | | |
| 880-39935-14 | BH-3 1-2') | 108 | 115 | | | | | | | | | | |
| 880-39935-15 | BH-3 (2-3') | 99 | 113 | | | | | | | | | | |
| 880-39935-16 | BH-3 (3-4') | 112 | 109 | | | | | | | | | | |
| 880-39935-17 | BH-4 (0-1') | 101 | 102 | | | | | | | | | | |
| 880-39935-18 | BH-4 (1-2') | 115 | 110 | | | | | | | | | | |
| 880-39935-19 | BH-4 (2-3') | 103 | 108 | | | | | | | | | | |
| 880-39935-20 | BH-4 (3-4') | 106 | 111 | | | | | | | | | | |
| LCS 880-74189/1-A | Lab Control Sample | 98 | 95 | | | | | | | | | | |
| LCSD 880-74189/2-A | Lab Control Sample Dup | 105 | 108 | | | | | | | | | | |
| MB 880-74189/5-A | Method Blank | 114 | 125 | | | | | | | | | | |

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

**Matrix: Solid**

**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) | | | | | | | | | | |
| 880-39935-1 | B-1 (0-1') | 116 | 125 | | | | | | | | | | |
| 880-39935-1 MS | B-1 (0-1') | 114 | 116 | | | | | | | | | | |
| 880-39935-1 MSD | B-1 (0-1') | 138 S1+ | 137 S1+ | | | | | | | | | | |
| 880-39935-2 | B-2 (0-1') | 153 S1+ | 165 S1+ | | | | | | | | | | |
| 880-39935-3 | B-3 (0-1') | 127 | 135 S1+ | | | | | | | | | | |
| 880-39935-4 | B-4 (0-1') | 114 | 117 | | | | | | | | | | |
| 880-39935-5 | BH-1 (0-1') | 126 | 136 S1+ | | | | | | | | | | |
| 880-39935-6 | BH-1 (1-2') | 116 | 123 | | | | | | | | | | |
| 880-39935-7 | BH-1 (2-3') | 127 | 129 | | | | | | | | | | |
| 880-39935-8 | BH-1 (3-4') | 116 | 122 | | | | | | | | | | |
| 880-39935-9 | BH-2 (0-1') | 126 | 135 S1+ | | | | | | | | | | |
| 880-39935-10 | BH-2 (1-2') | 117 | 124 | | | | | | | | | | |
| 880-39935-11 | BH-2 (2-3') | 107 | 113 | | | | | | | | | | |
| 880-39935-12 | BH-2 (3-4') | 124 | 130 | | | | | | | | | | |

# Surrogate Summary

Client: Tetra Tech, Inc.
Job ID: 880-39935-1
Project/Site: HayHurst NM Section 9 CTB Release 2
SDG: Eddy County , TX

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

**Matrix: Solid**
**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1CO1 | OTPH1 | | | | | | | | | | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | | | | | | | | | | |
| 880-39935-13 | BH-3 (0-1') | 112 | 118 | | | | | | | | | | |
| 880-39935-14 | BH-3 1-2') | 109 | 120 | | | | | | | | | | |
| 880-39935-15 | BH-3 (2-3') | 132 S1+ | 140 S1+ | | | | | | | | | | |
| 880-39935-16 | BH-3 (3-4') | 110 | 118 | | | | | | | | | | |
| 880-39935-17 | BH-4 (0-1') | 120 | 127 | | | | | | | | | | |
| 880-39935-18 | BH-4 (1-2') | 117 | 126 | | | | | | | | | | |
| 880-39935-19 | BH-4 (2-3') | 152 S1+ | 164 S1+ | | | | | | | | | | |
| 880-39935-20 | BH-4 (3-4') | 129 | 139 S1+ | | | | | | | | | | |
| LCS 880-74298/2-A | Lab Control Sample | 96 | 98 | | | | | | | | | | |
| LCSD 880-74298/3-A | Lab Control Sample Dup | 95 | 97 | | | | | | | | | | |
| MB 880-74298/1-A | Method Blank | 169 S1+ | 190 S1+ | | | | | | | | | | |

**Surrogate Legend**

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

# QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: HayHurst NM Section 9 CTB Release 2

Job ID: 880-39935-1
SDG: Eddy County , TX

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

**Lab Sample ID: MB 880-74189/5-A**
**Matrix: Solid**
**Analysis Batch: 74314**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 74189**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000385 | U | 0.00200 | 0.000385 | mg/Kg | | 02/27/24 14:20 | 02/29/24 12:19 | 1 |
| Toluene | <0.000456 | U | 0.00200 | 0.000456 | mg/Kg | | 02/27/24 14:20 | 02/29/24 12:19 | 1 |
| Ethylbenzene | <0.000565 | U | 0.00200 | 0.000565 | mg/Kg | | 02/27/24 14:20 | 02/29/24 12:19 | 1 |
| m-Xylene & p-Xylene | <0.00101 | U | 0.00400 | 0.00101 | mg/Kg | | 02/27/24 14:20 | 02/29/24 12:19 | 1 |
| o-Xylene | <0.000344 | U | 0.00200 | 0.000344 | mg/Kg | | 02/27/24 14:20 | 02/29/24 12:19 | 1 |
| Xylenes, Total | <0.00101 | U | 0.00400 | 0.00101 | mg/Kg | | 02/27/24 14:20 | 02/29/24 12:19 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *114* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 12:19* | *1* |
| *1,4-Difluorobenzene (Surr)* | *125* | | *70 - 130* | *02/27/24 14:20* | *02/29/24 12:19* | *1* |

**Lab Sample ID: LCS 880-74189/1-A**
**Matrix: Solid**
**Analysis Batch: 74314**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 74189**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.100 | 0.08246 | | mg/Kg | | 82 | 70 - 130 |
| Toluene | 0.100 | 0.08131 | | mg/Kg | | 81 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.09271 | | mg/Kg | | 93 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.1621 | | mg/Kg | | 81 | 70 - 130 |
| o-Xylene | 0.100 | 0.07464 | | mg/Kg | | 75 | 70 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *95* | | *70 - 130* |

**Lab Sample ID: LCSD 880-74189/2-A**
**Matrix: Solid**
**Analysis Batch: 74314**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 74189**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.100 | 0.1001 | | mg/Kg | | 100 | 70 - 130 | 19 | 35 |
| Toluene | 0.100 | 0.08773 | | mg/Kg | | 88 | 70 - 130 | 8 | 35 |
| Ethylbenzene | 0.100 | 0.09671 | | mg/Kg | | 97 | 70 - 130 | 4 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.1797 | | mg/Kg | | 90 | 70 - 130 | 10 | 35 |
| o-Xylene | 0.100 | 0.09326 | | mg/Kg | | 93 | 70 - 130 | 22 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *105* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *108* | | *70 - 130* |

**Lab Sample ID: 880-39935-1 MS**
**Matrix: Solid**
**Analysis Batch: 74314**

**Client Sample ID: B-1 (0-1')**
**Prep Type: Total/NA**
**Prep Batch: 74189**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000383 | U | 0.101 | 0.07935 | | mg/Kg | | 79 | 70 - 130 |
| Toluene | <0.000454 | U | 0.101 | 0.07310 | | mg/Kg | | 73 | 70 - 130 |

# QC Sample Results

Client: Tetra Tech, Inc. Job ID: 880-39935-1
Project/Site: HayHurst NM Section 9 CTB Release 2 SDG: Eddy County , TX

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

**Lab Sample ID: 880-39935-1 MS** **Client Sample ID: B-1 (0-1')**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 74314** **Prep Batch: 74189**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | <0.000563 | U | 0.101 | 0.08027 | | mg/Kg | | 80 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00101 | U | 0.202 | 0.1452 | | mg/Kg | | 72 | 70 - 130 |
| o-Xylene | 0.000414 | J F1 | 0.101 | 0.07000 | F1 | mg/Kg | | 69 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *91* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *94* | | *70 - 130* |

**Lab Sample ID: 880-39935-1 MSD** **Client Sample ID: B-1 (0-1')**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 74314** **Prep Batch: 74189**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.000383 | U | 0.100 | 0.09696 | | mg/Kg | | 97 | 70 - 130 | 20 | 35 |
| Toluene | <0.000454 | U | 0.100 | 0.09180 | | mg/Kg | | 92 | 70 - 130 | 23 | 35 |
| Ethylbenzene | <0.000563 | U | 0.100 | 0.09328 | | mg/Kg | | 93 | 70 - 130 | 15 | 35 |
| m-Xylene & p-Xylene | <0.00101 | U | 0.200 | 0.1701 | | mg/Kg | | 85 | 70 - 130 | 16 | 35 |
| o-Xylene | 0.000414 | J F1 | 0.100 | 0.09025 | | mg/Kg | | 90 | 70 - 130 | 25 | 35 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 880-74298/1-A** **Client Sample ID: Method Blank**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 74322** **Prep Batch: 74298**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 20.89 | J | 50.0 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 08:31 | 1 |
| Diesel Range Organics (Over C10-C28) | <15.0 | U | 50.0 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 08:31 | 1 |
| OII Range Organics (Over C28-C36) | <15.0 | U | 50.0 | 15.0 | mg/Kg | | 02/28/24 17:03 | 02/29/24 08:31 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *169* | *S1+* | *70 - 130* | *02/28/24 17:03* | *02/29/24 08:31* | *1* |
| *o-Terphenyl* | *190* | *S1+* | *70 - 130* | *02/28/24 17:03* | *02/29/24 08:31* | *1* |

**Lab Sample ID: LCS 880-74298/2-A** **Client Sample ID: Lab Control Sample**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 74322** **Prep Batch: 74298**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 940.2 | | mg/Kg | | 94 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1094 | | mg/Kg | | 109 | 70 - 130 |

Eurofins Midland

# QC Sample Results

Client: Tetra Tech, Inc. Job ID: 880-39935-1
Project/Site: HayHurst NM Section 9 CTB Release 2 SDG: Eddy County , TX

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: LCS 880-74298/2-A** **Client Sample ID: Lab Control Sample**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 74322** **Prep Batch: 74298**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane | 96 | | 70 - 130 |
| o-Terphenyl | 98 | | 70 - 130 |

**Lab Sample ID: LCSD 880-74298/3-A** **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 74322** **Prep Batch: 74298**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 918.7 | | mg/Kg | | 92 | 70 - 130 | 2 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1102 | | mg/Kg | | 110 | 70 - 130 | 1 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane | 95 | | 70 - 130 |
| o-Terphenyl | 97 | | 70 - 130 |

**Lab Sample ID: 880-39935-1 MS** **Client Sample ID: B-1 (0-1')**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 74322** **Prep Batch: 74298**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 44.5 | J B | 1000 | 978.0 | | mg/Kg | | 93 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | 39.2 | J | 1000 | 998.7 | | mg/Kg | | 96 | 70 - 130 | | |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane | 114 | | 70 - 130 |
| o-Terphenyl | 116 | | 70 - 130 |

**Lab Sample ID: 880-39935-1 MSD** **Client Sample ID: B-1 (0-1')**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 74322** **Prep Batch: 74298**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 44.5 | J B | 1000 | 1131 | | mg/Kg | | 108 | 70 - 130 | 15 | 20 |
| Diesel Range Organics (Over C10-C28) | 39.2 | J | 1000 | 1218 | | mg/Kg | | 118 | 70 - 130 | 20 | 20 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane | 138 | S1+ | 70 - 130 |
| o-Terphenyl | 137 | S1+ | 70 - 130 |

# QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: HayHurst NM Section 9 CTB Release 2

Job ID: 880-39935-1
SDG: Eddy County , TX

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 880-74137/1-A**
**Matrix: Solid**
**Analysis Batch: 74254**

**Client Sample ID: Method Blank**
**Prep Type: Soluble**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <0.395 | U | 5.00 | 0.395 | mg/Kg | | | 03/01/24 12:04 | 1 |

**Lab Sample ID: LCS 880-74137/2-A**
**Matrix: Solid**
**Analysis Batch: 74254**

**Client Sample ID: Lab Control Sample**
**Prep Type: Soluble**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 243.5 | | mg/Kg | | 97 | 90 - 110 | | |

**Lab Sample ID: LCSD 880-74137/3-A**
**Matrix: Solid**
**Analysis Batch: 74254**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Soluble**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 260.6 | | mg/Kg | | 104 | 90 - 110 | 7 | 20 |

**Lab Sample ID: 880-39935-1 MS**
**Matrix: Solid**
**Analysis Batch: 74254**

**Client Sample ID: B-1 (0-1')**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 281 | | 252 | 524.6 | | mg/Kg | | 97 | 90 - 110 | | |

**Lab Sample ID: 880-39935-1 MSD**
**Matrix: Solid**
**Analysis Batch: 74254**

**Client Sample ID: B-1 (0-1')**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 281 | | 252 | 542.3 | | mg/Kg | | 104 | 90 - 110 | 3 | 20 |

**Lab Sample ID: 880-39935-11 MS**
**Matrix: Solid**
**Analysis Batch: 74254**

**Client Sample ID: BH-2 (2-3')**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 133 | | 248 | 379.4 | | mg/Kg | | 99 | 90 - 110 | | |

**Lab Sample ID: 880-39935-11 MSD**
**Matrix: Solid**
**Analysis Batch: 74254**

**Client Sample ID: BH-2 (2-3')**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 133 | | 248 | 381.7 | | mg/Kg | | 100 | 90 - 110 | 1 | 20 |

# QC Association Summary

Client: Tetra Tech, Inc. Job ID: 880-39935-1
Project/Site: HayHurst NM Section 9 CTB Release 2 SDG: Eddy County , TX

## GC VOA

### Prep Batch: 74189

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-39935-1 | B-1 (0-1') | Total/NA | Solid | 5035 | |
| 880-39935-2 | B-2 (0-1') | Total/NA | Solid | 5035 | |
| 880-39935-3 | B-3 (0-1') | Total/NA | Solid | 5035 | |
| 880-39935-4 | B-4 (0-1') | Total/NA | Solid | 5035 | |
| 880-39935-5 | BH-1 (0-1') | Total/NA | Solid | 5035 | |
| 880-39935-6 | BH-1 (1-2') | Total/NA | Solid | 5035 | |
| 880-39935-7 | BH-1 (2-3') | Total/NA | Solid | 5035 | |
| 880-39935-8 | BH-1 (3-4') | Total/NA | Solid | 5035 | |
| 880-39935-9 | BH-2 (0-1') | Total/NA | Solid | 5035 | |
| 880-39935-10 | BH-2 (1-2') | Total/NA | Solid | 5035 | |
| 880-39935-11 | BH-2 (2-3') | Total/NA | Solid | 5035 | |
| 880-39935-12 | BH-2 (3-4') | Total/NA | Solid | 5035 | |
| 880-39935-13 | BH-3 (0-1') | Total/NA | Solid | 5035 | |
| 880-39935-14 | BH-3 1-2') | Total/NA | Solid | 5035 | |
| 880-39935-15 | BH-3 (2-3') | Total/NA | Solid | 5035 | |
| 880-39935-16 | BH-3 (3-4') | Total/NA | Solid | 5035 | |
| 880-39935-17 | BH-4 (0-1') | Total/NA | Solid | 5035 | |
| 880-39935-18 | BH-4 (1-2') | Total/NA | Solid | 5035 | |
| 880-39935-19 | BH-4 (2-3') | Total/NA | Solid | 5035 | |
| 880-39935-20 | BH-4 (3-4') | Total/NA | Solid | 5035 | |
| MB 880-74189/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-74189/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-74189/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-39935-1 MS | B-1 (0-1') | Total/NA | Solid | 5035 | |
| 880-39935-1 MSD | B-1 (0-1') | Total/NA | Solid | 5035 | |

### Analysis Batch: 74314

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-39935-1 | B-1 (0-1') | Total/NA | Solid | 8021B | 74189 |
| 880-39935-2 | B-2 (0-1') | Total/NA | Solid | 8021B | 74189 |
| 880-39935-3 | B-3 (0-1') | Total/NA | Solid | 8021B | 74189 |
| 880-39935-4 | B-4 (0-1') | Total/NA | Solid | 8021B | 74189 |
| 880-39935-5 | BH-1 (0-1') | Total/NA | Solid | 8021B | 74189 |
| 880-39935-6 | BH-1 (1-2') | Total/NA | Solid | 8021B | 74189 |
| 880-39935-7 | BH-1 (2-3') | Total/NA | Solid | 8021B | 74189 |
| 880-39935-8 | BH-1 (3-4') | Total/NA | Solid | 8021B | 74189 |
| 880-39935-9 | BH-2 (0-1') | Total/NA | Solid | 8021B | 74189 |
| 880-39935-10 | BH-2 (1-2') | Total/NA | Solid | 8021B | 74189 |
| 880-39935-11 | BH-2 (2-3') | Total/NA | Solid | 8021B | 74189 |
| 880-39935-12 | BH-2 (3-4') | Total/NA | Solid | 8021B | 74189 |
| 880-39935-13 | BH-3 (0-1') | Total/NA | Solid | 8021B | 74189 |
| 880-39935-14 | BH-3 1-2') | Total/NA | Solid | 8021B | 74189 |
| 880-39935-15 | BH-3 (2-3') | Total/NA | Solid | 8021B | 74189 |
| 880-39935-16 | BH-3 (3-4') | Total/NA | Solid | 8021B | 74189 |
| 880-39935-17 | BH-4 (0-1') | Total/NA | Solid | 8021B | 74189 |
| 880-39935-18 | BH-4 (1-2') | Total/NA | Solid | 8021B | 74189 |
| 880-39935-19 | BH-4 (2-3') | Total/NA | Solid | 8021B | 74189 |
| 880-39935-20 | BH-4 (3-4') | Total/NA | Solid | 8021B | 74189 |
| MB 880-74189/5-A | Method Blank | Total/NA | Solid | 8021B | 74189 |
| LCS 880-74189/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 74189 |
| LCSD 880-74189/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 74189 |

# QC Association Summary

Client: Tetra Tech, Inc. Job ID: 880-39935-1
Project/Site: HayHurst NM Section 9 CTB Release 2 SDG: Eddy County , TX

## GC VOA (Continued)

### Analysis Batch: 74314 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-39935-1 MS | B-1 (0-1') | Total/NA | Solid | 8021B | 74189 |
| 880-39935-1 MSD | B-1 (0-1') | Total/NA | Solid | 8021B | 74189 |

### Analysis Batch: 74479

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-39935-1 | B-1 (0-1') | Total/NA | Solid | Total BTEX | |
| 880-39935-2 | B-2 (0-1') | Total/NA | Solid | Total BTEX | |
| 880-39935-3 | B-3 (0-1') | Total/NA | Solid | Total BTEX | |
| 880-39935-4 | B-4 (0-1') | Total/NA | Solid | Total BTEX | |
| 880-39935-5 | BH-1 (0-1') | Total/NA | Solid | Total BTEX | |
| 880-39935-6 | BH-1 (1-2') | Total/NA | Solid | Total BTEX | |
| 880-39935-7 | BH-1 (2-3') | Total/NA | Solid | Total BTEX | |
| 880-39935-8 | BH-1 (3-4') | Total/NA | Solid | Total BTEX | |
| 880-39935-9 | BH-2 (0-1') | Total/NA | Solid | Total BTEX | |
| 880-39935-10 | BH-2 (1-2') | Total/NA | Solid | Total BTEX | |
| 880-39935-11 | BH-2 (2-3') | Total/NA | Solid | Total BTEX | |
| 880-39935-12 | BH-2 (3-4') | Total/NA | Solid | Total BTEX | |
| 880-39935-13 | BH-3 (0-1') | Total/NA | Solid | Total BTEX | |
| 880-39935-14 | BH-3 1-2') | Total/NA | Solid | Total BTEX | |
| 880-39935-15 | BH-3 (2-3') | Total/NA | Solid | Total BTEX | |
| 880-39935-16 | BH-3 (3-4') | Total/NA | Solid | Total BTEX | |
| 880-39935-17 | BH-4 (0-1') | Total/NA | Solid | Total BTEX | |
| 880-39935-18 | BH-4 (1-2') | Total/NA | Solid | Total BTEX | |
| 880-39935-19 | BH-4 (2-3') | Total/NA | Solid | Total BTEX | |
| 880-39935-20 | BH-4 (3-4') | Total/NA | Solid | Total BTEX | |

## GC Semi VOA

### Prep Batch: 74298

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-39935-1 | B-1 (0-1') | Total/NA | Solid | 8015NM Prep | |
| 880-39935-2 | B-2 (0-1') | Total/NA | Solid | 8015NM Prep | |
| 880-39935-3 | B-3 (0-1') | Total/NA | Solid | 8015NM Prep | |
| 880-39935-4 | B-4 (0-1') | Total/NA | Solid | 8015NM Prep | |
| 880-39935-5 | BH-1 (0-1') | Total/NA | Solid | 8015NM Prep | |
| 880-39935-6 | BH-1 (1-2') | Total/NA | Solid | 8015NM Prep | |
| 880-39935-7 | BH-1 (2-3') | Total/NA | Solid | 8015NM Prep | |
| 880-39935-8 | BH-1 (3-4') | Total/NA | Solid | 8015NM Prep | |
| 880-39935-9 | BH-2 (0-1') | Total/NA | Solid | 8015NM Prep | |
| 880-39935-10 | BH-2 (1-2') | Total/NA | Solid | 8015NM Prep | |
| 880-39935-11 | BH-2 (2-3') | Total/NA | Solid | 8015NM Prep | |
| 880-39935-12 | BH-2 (3-4') | Total/NA | Solid | 8015NM Prep | |
| 880-39935-13 | BH-3 (0-1') | Total/NA | Solid | 8015NM Prep | |
| 880-39935-14 | BH-3 1-2') | Total/NA | Solid | 8015NM Prep | |
| 880-39935-15 | BH-3 (2-3') | Total/NA | Solid | 8015NM Prep | |
| 880-39935-16 | BH-3 (3-4') | Total/NA | Solid | 8015NM Prep | |
| 880-39935-17 | BH-4 (0-1') | Total/NA | Solid | 8015NM Prep | |
| 880-39935-18 | BH-4 (1-2') | Total/NA | Solid | 8015NM Prep | |
| 880-39935-19 | BH-4 (2-3') | Total/NA | Solid | 8015NM Prep | |
| 880-39935-20 | BH-4 (3-4') | Total/NA | Solid | 8015NM Prep | |
| MB 880-74298/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |

# QC Association Summary

Client: Tetra Tech, Inc. Job ID: 880-39935-1
Project/Site: HayHurst NM Section 9 CTB Release 2 SDG: Eddy County , TX

## GC Semi VOA (Continued)

### Prep Batch: 74298 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 880-74298/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-74298/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-39935-1 MS | B-1 (0-1') | Total/NA | Solid | 8015NM Prep | |
| 880-39935-1 MSD | B-1 (0-1') | Total/NA | Solid | 8015NM Prep | |

### Analysis Batch: 74322

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-39935-1 | B-1 (0-1') | Total/NA | Solid | 8015B NM | 74298 |
| 880-39935-2 | B-2 (0-1') | Total/NA | Solid | 8015B NM | 74298 |
| 880-39935-3 | B-3 (0-1') | Total/NA | Solid | 8015B NM | 74298 |
| 880-39935-4 | B-4 (0-1') | Total/NA | Solid | 8015B NM | 74298 |
| 880-39935-5 | BH-1 (0-1') | Total/NA | Solid | 8015B NM | 74298 |
| 880-39935-6 | BH-1 (1-2') | Total/NA | Solid | 8015B NM | 74298 |
| 880-39935-7 | BH-1 (2-3') | Total/NA | Solid | 8015B NM | 74298 |
| 880-39935-8 | BH-1 (3-4') | Total/NA | Solid | 8015B NM | 74298 |
| 880-39935-9 | BH-2 (0-1') | Total/NA | Solid | 8015B NM | 74298 |
| 880-39935-10 | BH-2 (1-2') | Total/NA | Solid | 8015B NM | 74298 |
| 880-39935-11 | BH-2 (2-3') | Total/NA | Solid | 8015B NM | 74298 |
| 880-39935-12 | BH-2 (3-4') | Total/NA | Solid | 8015B NM | 74298 |
| 880-39935-13 | BH-3 (0-1') | Total/NA | Solid | 8015B NM | 74298 |
| 880-39935-14 | BH-3 1-2') | Total/NA | Solid | 8015B NM | 74298 |
| 880-39935-15 | BH-3 (2-3') | Total/NA | Solid | 8015B NM | 74298 |
| 880-39935-16 | BH-3 (3-4') | Total/NA | Solid | 8015B NM | 74298 |
| 880-39935-17 | BH-4 (0-1') | Total/NA | Solid | 8015B NM | 74298 |
| 880-39935-18 | BH-4 (1-2') | Total/NA | Solid | 8015B NM | 74298 |
| 880-39935-19 | BH-4 (2-3') | Total/NA | Solid | 8015B NM | 74298 |
| 880-39935-20 | BH-4 (3-4') | Total/NA | Solid | 8015B NM | 74298 |
| MB 880-74298/1-A | Method Blank | Total/NA | Solid | 8015B NM | 74298 |
| LCS 880-74298/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 74298 |
| LCSD 880-74298/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 74298 |
| 880-39935-1 MS | B-1 (0-1') | Total/NA | Solid | 8015B NM | 74298 |
| 880-39935-1 MSD | B-1 (0-1') | Total/NA | Solid | 8015B NM | 74298 |

### Analysis Batch: 74469

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-39935-1 | B-1 (0-1') | Total/NA | Solid | 8015 NM | |
| 880-39935-2 | B-2 (0-1') | Total/NA | Solid | 8015 NM | |
| 880-39935-3 | B-3 (0-1') | Total/NA | Solid | 8015 NM | |
| 880-39935-4 | B-4 (0-1') | Total/NA | Solid | 8015 NM | |
| 880-39935-5 | BH-1 (0-1') | Total/NA | Solid | 8015 NM | |
| 880-39935-6 | BH-1 (1-2') | Total/NA | Solid | 8015 NM | |
| 880-39935-7 | BH-1 (2-3') | Total/NA | Solid | 8015 NM | |
| 880-39935-8 | BH-1 (3-4') | Total/NA | Solid | 8015 NM | |
| 880-39935-9 | BH-2 (0-1') | Total/NA | Solid | 8015 NM | |
| 880-39935-10 | BH-2 (1-2') | Total/NA | Solid | 8015 NM | |
| 880-39935-11 | BH-2 (2-3') | Total/NA | Solid | 8015 NM | |
| 880-39935-12 | BH-2 (3-4') | Total/NA | Solid | 8015 NM | |
| 880-39935-13 | BH-3 (0-1') | Total/NA | Solid | 8015 NM | |
| 880-39935-14 | BH-3 1-2') | Total/NA | Solid | 8015 NM | |
| 880-39935-15 | BH-3 (2-3') | Total/NA | Solid | 8015 NM | |
| 880-39935-16 | BH-3 (3-4') | Total/NA | Solid | 8015 NM | |

# QC Association Summary

Client: Tetra Tech, Inc. Job ID: 880-39935-1
Project/Site: HayHurst NM Section 9 CTB Release 2 SDG: Eddy County , TX

## GC Semi VOA (Continued)

### Analysis Batch: 74469 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-39935-17 | BH-4 (0-1') | Total/NA | Solid | 8015 NM | |
| 880-39935-18 | BH-4 (1-2') | Total/NA | Solid | 8015 NM | |
| 880-39935-19 | BH-4 (2-3') | Total/NA | Solid | 8015 NM | |
| 880-39935-20 | BH-4 (3-4') | Total/NA | Solid | 8015 NM | |

## HPLC/IC

### Leach Batch: 74137

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-39935-1 | B-1 (0-1') | Soluble | Solid | DI Leach | |
| 880-39935-2 | B-2 (0-1') | Soluble | Solid | DI Leach | |
| 880-39935-3 | B-3 (0-1') | Soluble | Solid | DI Leach | |
| 880-39935-4 | B-4 (0-1') | Soluble | Solid | DI Leach | |
| 880-39935-5 | BH-1 (0-1') | Soluble | Solid | DI Leach | |
| 880-39935-6 | BH-1 (1-2') | Soluble | Solid | DI Leach | |
| 880-39935-7 | BH-1 (2-3') | Soluble | Solid | DI Leach | |
| 880-39935-8 | BH-1 (3-4') | Soluble | Solid | DI Leach | |
| 880-39935-9 | BH-2 (0-1') | Soluble | Solid | DI Leach | |
| 880-39935-10 | BH-2 (1-2') | Soluble | Solid | DI Leach | |
| 880-39935-11 | BH-2 (2-3') | Soluble | Solid | DI Leach | |
| 880-39935-12 | BH-2 (3-4') | Soluble | Solid | DI Leach | |
| 880-39935-13 | BH-3 (0-1') | Soluble | Solid | DI Leach | |
| 880-39935-14 | BH-3 1-2') | Soluble | Solid | DI Leach | |
| 880-39935-15 | BH-3 (2-3') | Soluble | Solid | DI Leach | |
| 880-39935-16 | BH-3 (3-4') | Soluble | Solid | DI Leach | |
| 880-39935-17 | BH-4 (0-1') | Soluble | Solid | DI Leach | |
| 880-39935-18 | BH-4 (1-2') | Soluble | Solid | DI Leach | |
| 880-39935-19 | BH-4 (2-3') | Soluble | Solid | DI Leach | |
| 880-39935-20 | BH-4 (3-4') | Soluble | Solid | DI Leach | |
| MB 880-74137/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-74137/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-74137/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-39935-1 MS | B-1 (0-1') | Soluble | Solid | DI Leach | |
| 880-39935-1 MSD | B-1 (0-1') | Soluble | Solid | DI Leach | |
| 880-39935-11 MS | BH-2 (2-3') | Soluble | Solid | DI Leach | |
| 880-39935-11 MSD | BH-2 (2-3') | Soluble | Solid | DI Leach | |

### Analysis Batch: 74254

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-39935-1 | B-1 (0-1') | Soluble | Solid | 300.0 | 74137 |
| 880-39935-2 | B-2 (0-1') | Soluble | Solid | 300.0 | 74137 |
| 880-39935-3 | B-3 (0-1') | Soluble | Solid | 300.0 | 74137 |
| 880-39935-4 | B-4 (0-1') | Soluble | Solid | 300.0 | 74137 |
| 880-39935-5 | BH-1 (0-1') | Soluble | Solid | 300.0 | 74137 |
| 880-39935-6 | BH-1 (1-2') | Soluble | Solid | 300.0 | 74137 |
| 880-39935-7 | BH-1 (2-3') | Soluble | Solid | 300.0 | 74137 |
| 880-39935-8 | BH-1 (3-4') | Soluble | Solid | 300.0 | 74137 |
| 880-39935-9 | BH-2 (0-1') | Soluble | Solid | 300.0 | 74137 |
| 880-39935-10 | BH-2 (1-2') | Soluble | Solid | 300.0 | 74137 |
| 880-39935-11 | BH-2 (2-3') | Soluble | Solid | 300.0 | 74137 |
| 880-39935-12 | BH-2 (3-4') | Soluble | Solid | 300.0 | 74137 |

# QC Association Summary

Client: Tetra Tech, Inc. Job ID: 880-39935-1
Project/Site: HayHurst NM Section 9 CTB Release 2 SDG: Eddy County , TX

## HPLC/IC (Continued)

### Analysis Batch: 74254 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-39935-13 | BH-3 (0-1') | Soluble | Solid | 300.0 | 74137 |
| 880-39935-14 | BH-3 1-2') | Soluble | Solid | 300.0 | 74137 |
| 880-39935-15 | BH-3 (2-3') | Soluble | Solid | 300.0 | 74137 |
| 880-39935-16 | BH-3 (3-4') | Soluble | Solid | 300.0 | 74137 |
| 880-39935-17 | BH-4 (0-1') | Soluble | Solid | 300.0 | 74137 |
| 880-39935-18 | BH-4 (1-2') | Soluble | Solid | 300.0 | 74137 |
| 880-39935-19 | BH-4 (2-3') | Soluble | Solid | 300.0 | 74137 |
| 880-39935-20 | BH-4 (3-4') | Soluble | Solid | 300.0 | 74137 |
| MB 880-74137/1-A | Method Blank | Soluble | Solid | 300.0 | 74137 |
| LCS 880-74137/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 74137 |
| LCSD 880-74137/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 74137 |
| 880-39935-1 MS | B-1 (0-1') | Soluble | Solid | 300.0 | 74137 |
| 880-39935-1 MSD | B-1 (0-1') | Soluble | Solid | 300.0 | 74137 |
| 880-39935-11 MS | BH-2 (2-3') | Soluble | Solid | 300.0 | 74137 |
| 880-39935-11 MSD | BH-2 (2-3') | Soluble | Solid | 300.0 | 74137 |

# Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 880-39935-1
Project/Site: HayHurst NM Section 9 CTB Release 2 SDG: Eddy County , TX

## Client Sample ID: B-1 (0-1') Lab Sample ID: 880-39935-1

**Date Collected: 02/26/24 15:02** **Matrix: Solid**
**Date Received: 02/27/24 08:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 74189 | 02/27/24 14:20 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 74314 | 02/29/24 12:48 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 74479 | 02/29/24 12:48 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 74469 | 02/29/24 11:35 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.09 g | 10 mL | 74298 | 02/28/24 17:03 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 74322 | 02/29/24 11:35 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 74137 | 02/27/24 10:20 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 74254 | 03/01/24 12:20 | CH | EET MID |

## Client Sample ID: B-2 (0-1') Lab Sample ID: 880-39935-2

**Date Collected: 02/26/24 15:05** **Matrix: Solid**
**Date Received: 02/27/24 08:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.98 g | 5 mL | 74189 | 02/27/24 14:20 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 74314 | 02/29/24 13:09 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 74479 | 02/29/24 13:09 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 74469 | 02/29/24 12:39 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.90 g | 10 mL | 74298 | 02/28/24 17:03 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 74322 | 02/29/24 12:39 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 74137 | 02/27/24 10:20 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 74254 | 03/01/24 12:36 | CH | EET MID |

## Client Sample ID: B-3 (0-1') Lab Sample ID: 880-39935-3

**Date Collected: 02/26/24 15:08** **Matrix: Solid**
**Date Received: 02/27/24 08:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 74189 | 02/27/24 14:20 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 74314 | 02/29/24 13:29 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 74479 | 02/29/24 13:29 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 74469 | 02/29/24 13:01 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.06 g | 10 mL | 74298 | 02/28/24 17:03 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 74322 | 02/29/24 13:01 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 74137 | 02/27/24 10:20 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 74254 | 03/01/24 12:42 | CH | EET MID |

## Client Sample ID: B-4 (0-1') Lab Sample ID: 880-39935-4

**Date Collected: 02/26/24 15:12** **Matrix: Solid**
**Date Received: 02/27/24 08:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 74189 | 02/27/24 14:20 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 74314 | 02/29/24 13:49 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 74479 | 02/29/24 13:49 | SM | EET MID |

# Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: HayHurst NM Section 9 CTB Release 2

Job ID: 880-39935-1
SDG: Eddy County , TX

## Client Sample ID: B-4 (0-1')

**Lab Sample ID: 880-39935-4**

**Date Collected: 02/26/24 15:12**
**Matrix: Solid**
**Date Received: 02/27/24 08:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8015 NM | | 1 | | | 74469 | 02/29/24 13:22 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 74298 | 02/28/24 17:03 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 74322 | 02/29/24 13:22 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 74137 | 02/27/24 10:20 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 74254 | 03/01/24 12:47 | CH | EET MID |

## Client Sample ID: BH-1 (0-1')

**Lab Sample ID: 880-39935-5**

**Date Collected: 02/26/24 15:15**
**Matrix: Solid**
**Date Received: 02/27/24 08:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 74189 | 02/27/24 14:20 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 74314 | 02/29/24 14:10 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 74479 | 02/29/24 14:10 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 74469 | 02/29/24 13:43 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 74298 | 02/28/24 17:03 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 74322 | 02/29/24 13:43 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 74137 | 02/27/24 10:20 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 20 | | | 74254 | 03/01/24 12:53 | CH | EET MID |

## Client Sample ID: BH-1 (1-2')

**Lab Sample ID: 880-39935-6**

**Date Collected: 02/26/24 15:19**
**Matrix: Solid**
**Date Received: 02/27/24 08:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.05 g | 5 mL | 74189 | 02/27/24 14:20 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 74314 | 02/29/24 14:30 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 74479 | 02/29/24 14:30 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 74469 | 02/29/24 14:05 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 74298 | 02/28/24 17:03 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 74322 | 02/29/24 14:05 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 74137 | 02/27/24 10:20 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 74254 | 03/01/24 13:09 | CH | EET MID |

## Client Sample ID: BH-1 (2-3')

**Lab Sample ID: 880-39935-7**

**Date Collected: 02/26/24 15:23**
**Matrix: Solid**
**Date Received: 02/27/24 08:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.98 g | 5 mL | 74189 | 02/27/24 14:20 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 74314 | 02/29/24 14:51 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 74479 | 02/29/24 14:51 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 74469 | 02/29/24 14:26 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.98 g | 10 mL | 74298 | 02/28/24 17:03 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 74322 | 02/29/24 14:26 | SM | EET MID |

# Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: HayHurst NM Section 9 CTB Release 2

Job ID: 880-39935-1
SDG: Eddy County , TX

## Client Sample ID: BH-1 (2-3')

**Lab Sample ID: 880-39935-7**
**Matrix: Solid**
**Date Collected: 02/26/24 15:23**
**Date Received: 02/27/24 08:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 74137 | 02/27/24 10:20 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 74254 | 03/01/24 13:15 | CH | EET MID |

## Client Sample ID: BH-1 (3-4')

**Lab Sample ID: 880-39935-8**
**Matrix: Solid**
**Date Collected: 02/26/24 15:27**
**Date Received: 02/27/24 08:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.95 g | 5 mL | 74189 | 02/27/24 14:20 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 74314 | 02/29/24 15:12 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 74479 | 02/29/24 15:12 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 74469 | 02/29/24 14:47 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.95 g | 10 mL | 74298 | 02/28/24 17:03 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 74322 | 02/29/24 14:47 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 74137 | 02/27/24 10:20 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 74254 | 03/01/24 13:20 | CH | EET MID |

## Client Sample ID: BH-2 (0-1')

**Lab Sample ID: 880-39935-9**
**Matrix: Solid**
**Date Collected: 02/26/24 15:30**
**Date Received: 02/27/24 08:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 74189 | 02/27/24 14:20 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 74314 | 02/29/24 15:32 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 74479 | 02/29/24 15:32 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 74469 | 02/29/24 15:09 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.90 g | 10 mL | 74298 | 02/28/24 17:03 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 74322 | 02/29/24 15:09 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 74137 | 02/27/24 10:20 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 74254 | 03/01/24 13:26 | CH | EET MID |

## Client Sample ID: BH-2 (1-2')

**Lab Sample ID: 880-39935-10**
**Matrix: Solid**
**Date Collected: 02/26/24 15:33**
**Date Received: 02/27/24 08:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.05 g | 5 mL | 74189 | 02/27/24 14:20 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 74314 | 02/29/24 15:52 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 74479 | 02/29/24 15:52 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 74469 | 02/29/24 15:30 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.90 g | 10 mL | 74298 | 02/28/24 17:03 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 74322 | 02/29/24 15:30 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 74137 | 02/27/24 10:20 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 74254 | 03/01/24 13:31 | CH | EET MID |

# Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: HayHurst NM Section 9 CTB Release 2

Job ID: 880-39935-1
SDG: Eddy County , TX

## Client Sample ID: BH-2 (2-3')
**Date Collected: 02/26/24 15:35**
**Date Received: 02/27/24 08:00**

## Lab Sample ID: 880-39935-11
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.00 g | 5 mL | 74189 | 02/27/24 14:20 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 74314 | 02/29/24 17:43 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 74479 | 02/29/24 17:43 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 74469 | 02/29/24 16:12 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 74298 | 02/28/24 17:03 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 74322 | 02/29/24 16:12 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 74137 | 02/27/24 10:20 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 74254 | 03/01/24 13:37 | CH | EET MID |

## Client Sample ID: BH-2 (3-4')
**Date Collected: 02/26/24 15:39**
**Date Received: 02/27/24 08:00**

## Lab Sample ID: 880-39935-12
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 74189 | 02/27/24 14:20 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 74314 | 02/29/24 18:03 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 74479 | 02/29/24 18:03 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 74469 | 02/29/24 16:33 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 74298 | 02/28/24 17:03 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 74322 | 02/29/24 16:33 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 74137 | 02/27/24 10:20 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 74254 | 03/01/24 13:53 | CH | EET MID |

## Client Sample ID: BH-3 (0-1')
**Date Collected: 02/26/24 15:32**
**Date Received: 02/27/24 08:00**

## Lab Sample ID: 880-39935-13
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.98 g | 5 mL | 74189 | 02/27/24 14:20 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 74314 | 02/29/24 18:24 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 74479 | 02/29/24 18:24 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 74469 | 02/29/24 16:55 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 74298 | 02/28/24 17:03 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 74322 | 02/29/24 16:55 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.00 g | 50 mL | 74137 | 02/27/24 10:20 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 20 | | | 74254 | 03/01/24 13:59 | CH | EET MID |

## Client Sample ID: BH-3 1-2')
**Date Collected: 02/26/24 15:34**
**Date Received: 02/27/24 08:00**

## Lab Sample ID: 880-39935-14
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 74189 | 02/27/24 14:20 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 74314 | 02/29/24 18:44 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 74479 | 02/29/24 18:44 | SM | EET MID |

# Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: HayHurst NM Section 9 CTB Release 2

Job ID: 880-39935-1
SDG: Eddy County , TX

## Client Sample ID: BH-3 1-2')

**Date Collected: 02/26/24 15:34**
**Date Received: 02/27/24 08:00**

## Lab Sample ID: 880-39935-14

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8015 NM | | 1 | | | 74469 | 02/29/24 17:17 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.05 g | 10 mL | 74298 | 02/28/24 17:03 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 74322 | 02/29/24 17:17 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 74137 | 02/27/24 10:20 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 74254 | 03/01/24 14:16 | CH | EET MID |

## Client Sample ID: BH-3 (2-3')

**Date Collected: 02/26/24 15:36**
**Date Received: 02/27/24 08:00**

## Lab Sample ID: 880-39935-15

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 74189 | 02/27/24 14:20 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 74314 | 02/29/24 19:05 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 74479 | 02/29/24 19:05 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 74469 | 02/29/24 17:38 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 74298 | 02/28/24 17:03 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 74322 | 02/29/24 17:38 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 74137 | 02/27/24 10:20 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 74254 | 03/01/24 14:21 | CH | EET MID |

## Client Sample ID: BH-3 (3-4')

**Date Collected: 02/26/24 15:39**
**Date Received: 02/27/24 08:00**

## Lab Sample ID: 880-39935-16

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.98 g | 5 mL | 74189 | 02/27/24 14:20 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 74314 | 02/29/24 19:25 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 74479 | 02/29/24 19:25 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 74469 | 02/29/24 17:58 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.09 g | 10 mL | 74298 | 02/28/24 17:03 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 74322 | 02/29/24 17:58 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 74137 | 02/27/24 10:20 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 74254 | 03/01/24 14:27 | CH | EET MID |

## Client Sample ID: BH-4 (0-1')

**Date Collected: 02/26/24 15:51**
**Date Received: 02/27/24 08:00**

## Lab Sample ID: 880-39935-17

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 74189 | 02/27/24 14:20 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 74314 | 02/29/24 19:46 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 74479 | 02/29/24 19:46 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 74469 | 02/29/24 18:19 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.97 g | 10 mL | 74298 | 02/28/24 17:03 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 74322 | 02/29/24 18:19 | SM | EET MID |

# Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: HayHurst NM Section 9 CTB Release 2

Job ID: 880-39935-1
SDG: Eddy County , TX

## Client Sample ID: BH-4 (0-1')
**Date Collected: 02/26/24 15:51**
**Date Received: 02/27/24 08:00**

## Lab Sample ID: 880-39935-17
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 74137 | 02/27/24 10:20 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 5 | | | 74254 | 03/01/24 14:32 | CH | EET MID |

## Client Sample ID: BH-4 (1-2')
**Date Collected: 02/26/24 15:53**
**Date Received: 02/27/24 08:00**

## Lab Sample ID: 880-39935-18
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 74189 | 02/27/24 14:20 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 74314 | 02/29/24 20:06 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 74479 | 02/29/24 20:06 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 74469 | 02/29/24 18:40 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.92 g | 10 mL | 74298 | 02/28/24 17:03 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 74322 | 02/29/24 18:40 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 74137 | 02/27/24 10:20 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 74254 | 03/01/24 14:38 | CH | EET MID |

## Client Sample ID: BH-4 (2-3')
**Date Collected: 02/26/24 15:56**
**Date Received: 02/27/24 08:00**

## Lab Sample ID: 880-39935-19
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.05 g | 5 mL | 74189 | 02/27/24 14:20 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 74314 | 02/29/24 20:27 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 74479 | 02/29/24 20:27 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 74469 | 02/29/24 19:01 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.99 g | 10 mL | 74298 | 02/28/24 17:03 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 74322 | 02/29/24 19:01 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 74137 | 02/27/24 10:20 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 74254 | 03/01/24 14:43 | CH | EET MID |

## Client Sample ID: BH-4 (3-4')
**Date Collected: 02/26/24 15:59**
**Date Received: 02/27/24 08:00**

## Lab Sample ID: 880-39935-20
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 74189 | 02/27/24 14:20 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 74314 | 02/29/24 20:47 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 74479 | 02/29/24 20:47 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 74469 | 02/29/24 19:21 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.91 g | 10 mL | 74298 | 02/28/24 17:03 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 74322 | 02/29/24 19:21 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 74137 | 02/27/24 10:20 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 74254 | 03/01/24 14:49 | CH | EET MID |

# Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: HayHurst NM Section 9 CTB Release 2

Job ID: 880-39935-1
SDG: Eddy County , TX

**Laboratory References:**

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Job ID: 880-39935-1
Project/Site: HayHurst NM Section 9 CTB Release 2
SDG: Eddy County , TX

## Laboratory: Eurofins Midland

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

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Texas | NELAP | T104704400-23-26 | 06-30-24 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| 8015 NM | | Solid | Total TPH |
| Total BTEX | | Solid | Total BTEX |

# Method Summary

Client: Tetra Tech, Inc. Job ID: 880-39935-1
Project/Site: HayHurst NM Section 9 CTB Release 2 SDG: Eddy County , TX

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8021B | Volatile Organic Compounds (GC) | SW846 | EET MID |
| Total BTEX | Total BTEX Calculation | TAL SOP | EET MID |
| 8015 NM | Diesel Range Organics (DRO) (GC) | SW846 | EET MID |
| 8015B NM | Diesel Range Organics (DRO) (GC) | SW846 | EET MID |
| 300.0 | Anions, Ion Chromatography | EPA | EET MID |
| 5035 | Closed System Purge and Trap | SW846 | EET MID |
| 8015NM Prep | Microextraction | SW846 | EET MID |
| DI Leach | Deionized Water Leaching Procedure | ASTM | EET MID |

**Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# Sample Summary

Client: Tetra Tech, Inc.
Project/Site: HayHurst NM Section 9 CTB Release 2

Job ID: 880-39935-1
SDG: Eddy County , TX

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 880-39935-1 | B-1 (0-1') | Solid | 02/26/24 15:02 | 02/27/24 08:00 |
| 880-39935-2 | B-2 (0-1') | Solid | 02/26/24 15:05 | 02/27/24 08:00 |
| 880-39935-3 | B-3 (0-1') | Solid | 02/26/24 15:08 | 02/27/24 08:00 |
| 880-39935-4 | B-4 (0-1') | Solid | 02/26/24 15:12 | 02/27/24 08:00 |
| 880-39935-5 | BH-1 (0-1') | Solid | 02/26/24 15:15 | 02/27/24 08:00 |
| 880-39935-6 | BH-1 (1-2') | Solid | 02/26/24 15:19 | 02/27/24 08:00 |
| 880-39935-7 | BH-1 (2-3') | Solid | 02/26/24 15:23 | 02/27/24 08:00 |
| 880-39935-8 | BH-1 (3-4') | Solid | 02/26/24 15:27 | 02/27/24 08:00 |
| 880-39935-9 | BH-2 (0-1') | Solid | 02/26/24 15:30 | 02/27/24 08:00 |
| 880-39935-10 | BH-2 (1-2') | Solid | 02/26/24 15:33 | 02/27/24 08:00 |
| 880-39935-11 | BH-2 (2-3') | Solid | 02/26/24 15:35 | 02/27/24 08:00 |
| 880-39935-12 | BH-2 (3-4') | Solid | 02/26/24 15:39 | 02/27/24 08:00 |
| 880-39935-13 | BH-3 (0-1') | Solid | 02/26/24 15:32 | 02/27/24 08:00 |
| 880-39935-14 | BH-3 1-2') | Solid | 02/26/24 15:34 | 02/27/24 08:00 |
| 880-39935-15 | BH-3 (2-3') | Solid | 02/26/24 15:36 | 02/27/24 08:00 |
| 880-39935-16 | BH-3 (3-4') | Solid | 02/26/24 15:39 | 02/27/24 08:00 |
| 880-39935-17 | BH-4 (0-1') | Solid | 02/26/24 15:51 | 02/27/24 08:00 |
| 880-39935-18 | BH-4 (1-2') | Solid | 02/26/24 15:53 | 02/27/24 08:00 |
| 880-39935-19 | BH-4 (2-3') | Solid | 02/26/24 15:56 | 02/27/24 08:00 |
| 880-39935-20 | BH-4 (3-4') | Solid | 02/26/24 15:59 | 02/27/24 08:00 |

**Analysis Request of Chain of Custody Record**



# Tetra Tech, Inc.

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

880-39935 Chain of Custody

| | |
|---|---|
| **Client Name** Chevron | **Site Manager** John Faught |
| **Project Name** Hayhurst NM Section 9 CTB Release 2 | |
| **Project Location (county, state)** Eddy County, TX | **Project #** 212C-MD-03389 |
| **Invoice to** john.faught1@tetratech com, OGA.ECS AccountsPayable@tetratech.com Req # 565141 | |
| **Receiving Laboratory** Eurofins Laboratories | **Sampler Signature** M Castrejon |

**Comments**

Email john faught1@tetratech com, clair gonzales@tetratech com

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

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR 2024 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B BTEX 8260B | TPH TX1005 (Ext to C35) | TPH 8015M ( GRO - DRO - ORO - MRO) | PAH 8270C | Total Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC/MS Vol 8260B / 624 | GC/MS Semi Vol 8270C/625 | PCB s 8082 / 608 | NORM | PLM (Asbestos) | Chloride 300 0 | Chloride Sulfate TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | | | | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | B-1 (0-1') | 2-26 | 1502 | | X | | | X | 1 | | X | | X | | | | | | | | | | | | X | | | | | | | |
| | B-2 (0-1') | | 1505 | | X | | | X | 1 | | X | | X | | | | | | | | | | | | X | | | | | | | |
| | B-3 (0-1') | | 1508 | | X | | | X | 1 | | X | | X | | | | | | | | | | | | X | | | | | | | |
| | B-4 (0-1') | | 1512 | | X | | | X | 1 | | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-1 (0-1') | | 1515 | | X | | | X | 1 | | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-1 (1-2') | | 1519 | | X | | | X | 1 | | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-1 (2-3') | | 1523 | | X | | | X | 1 | | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-1 (3-4') | | 1527 | | X | | | X | 1 | | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-2 (0-1') | | 1530 | | X | | | X | 1 | | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-2 (1-2') | | 1533 | | X | | | X | 1 | | X | | X | | | | | | | | | | | | X | | | | | | | |

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| Matthew Castrejon | 2-27-24 | 0800 | John Faught | 2/27/24 | 0800 |
| John Faught | 2/27/24 | 0815 | Jaime Ln | 02-27-24 | 08:00 |
| | | | | | |

**LAB USE ONLY**

Sample Temperature 2.4 | 2.3

**REMARKS**

- ☐ RUSH Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking # _____

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**Analysis Request of Chain of Custody Record**



# Tetra Tech, Inc.

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

880-39935 Chain of Custody

| | |
|---|---|
| **Client Name** Chevron | **Site Manager** John Faught |
| **Project Name:** Hayhurst NM Section 9 CTB Release 2 | |
| **Project Location (county, state)** Eddy County, TX | **Project #** 212C-MD-03389 |
| **Invoice to** john.faught1@tetratech com, OGA.ECS AccountsPayable@tetratech.com Req # 565141 | |
| **Receiving Laboratory** Eurofins Laboratories | **Sampler Signature** M. Castrejon |
| **Comments** Email john faught1@tetratech com, clair gonzales@tetratech com | |

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

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR 2024 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B BTEX 8260B | TPH TX1005 (Ext to C35) | TPH 8015M ( GRO DRO - ORO MRO) | PAH 8270C | Total Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC/MS Vol 8260B / 624 | GC/MS Semi Vol 8270C/625 | PCB s 8082 / 608 | NORM | PLM (Asbestos) | Chloride 300 0 | Chloride Sulfate TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | | | | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | B-1 (0-1') | 2-26 | 1502 | | X | | | | X | | 1 | | X | | X | | | | | | | | | | | | X | | | | | | | |
| | B-2 (0-1') | | 1505 | | X | | | | X | | 1 | | X | | X | | | | | | | | | | | | X | | | | | | | |
| | B-3 (0-1') | | 1508 | | X | | | | X | | 1 | | X | | X | | | | | | | | | | | | X | | | | | | | |
| | B-4 (0-1') | | 1512 | | X | | | | X | | 1 | | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-1 (0-1') | | 1515 | | X | | | | X | | 1 | | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-1 (1-2') | | 1519 | | X | | | | X | | 1 | | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-1 (2-3') | | 1523 | | X | | | | X | | 1 | | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-1 (3-4') | | 1527 | | X | | | | X | | 1 | | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-2 (0-1') | | 1530 | | X | | | | X | | 1 | | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-2 (1-2') | | 1533 | | X | | | | X | | 1 | | X | | X | | | | | | | | | | | | X | | | | | | | |

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| Matthew Castrejon | 2-27-24 | 0800 | John Faught | 2/27/24 | 0800 |
| John Faught | 2/27/24 | 0815 | Jaime Wu | 02-27-24 | 08:00 |
| Relinquished by | Date | Time | Received by | Date | Time |

**LAB USE ONLY**
Sample Temperature
2.4 | 2.3

**REMARKS:**
- ☐ RUSH Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking # _____

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**Analysis Request of Chain of Custody Record**



# Tetra Tech, Inc.

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

39935

| | |
|---|---|
| **Client Name** | Chevron |
| **Site Manager** | John Faught |
| **Project Name** | Hayhurst NM Section 9 CTB Release 2 |
| **Project Location (county, state)** | Eddy County, TX |
| **Project #** | 212C-MD-03389 |
| **Invoice to** | john.faught1@tetratech com, OGA ECS.AccountsPayable@tetratech com |
| **Receiving Laboratory** | Eurofins Laboratories |
| **Sampler Signature** | M Castrejon |
| **Comments** | Email john faught1@tetratech com, clair gonzales@tetratech com |

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

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR 2024 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B BTEX 8260B | TPH TX1005 (Ext to C35) | TPH 8015M ( GRO DRO - ORO MRO) | PAH 8270C | Total Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC/MS Vol 8260B / 624 | GC/MS Semi Vol 8270C/625 | PCB s 8082 / 608 | NORM | PLM (Asbestos) | Chloride 300 0 | Chloride Sulfate TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BH-2 (2-3') | 2-26 | 1535 | | X | | | X | 1 | | X | | X | | | | | | | | | | | | X | | | | |
| | BH-2 (3-4') | | 1539 | | X | | | X | 1 | | X | | X | | | | | | | | | | | | X | | | | |
| | BH-3 (0-1') | | 1532 | | X | | | X | 1 | | X | | X | | | | | | | | | | | | X | | | | |
| | BH-3 (1-2') | | 1534 | | X | | | X | 1 | | X | | X | | | | | | | | | | | | X | | | | |
| | BH-3 (2-3') | | 1536 | | X | | | X | 1 | | X | | X | | | | | | | | | | | | X | | | | |
| | BH-3 (3-4') | | 1539 | | X | | | X | 1 | | X | | X | | | | | | | | | | | | X | | | | |
| | BH-4 (0-1') | | 1551 | | X | | | X | 1 | | X | | X | | | | | | | | | | | | X | | | | |
| | BH-4 (1-2') | | 1553 | | X | | | X | 1 | | X | | X | | | | | | | | | | | | X | | | | |
| | BH-4 (2-3') | | 1556 | | X | | | X | 1 | | X | | X | | | | | | | | | | | | X | | | | |
| | BH-4 (3-4') | ✓ | 1559 | | X | | | X | 1 | | X | | X | | | | | | | | | | | | X | | | | |

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| Matthew Castrejon | 2-27-24 | 0800 | John Faught | 2/27/24 | 0800 |
| John Faught | 2/27/24 | 0813 | James Ure | 02-27-24 | 8.00 |
| Relinquished by | Date | Time | Received by | Date | Time |

**LAB USE ONLY**

Sample Temperature

2.4/2.3

**REMARKS:**

☐ RUSH Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking # _____

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3/4/2024

# Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-39935-1
SDG Number: Eddy County , TX

**Login Number: 39935**
**List Number: 1**
**Creator: Wheeler, Jazmine**

**List Source: Eurofins Midland**

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

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**District III**
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
**District IV**
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 331931

## QUESTIONS

| | |
|---|---|
| Operator:<br>CHEVRON U S A INC<br>6301 Deauville Blvd<br>Midland, TX 79706 | OGRID:<br>4323 |
| | Action Number:<br>331931 |
| | Action Type:<br>[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

**QUESTIONS**

| **Prerequisites** | |
|---|---|
| Incident ID (n#) | **nAPP2404354589** |
| Incident Name | **NAPP2404354589 HAYHURST NM SECTION 9 CTB @ 0** |
| Incident Type | **Produced Water Release** |
| Incident Status | **Remediation Plan Received** |
| Incident Facility | **[fAPP2131341164] Hayhurst NM Section 9 CTB** |

| **Location of Release Source** | |
|---|---|
| *Please answer all the questions in this group.* | |
| Site Name | Hayhurst NM Section 9 CTB |
| Date Release Discovered | 02/12/2024 |
| Surface Owner | Federal |

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

| **Nature and Volume of Release** | |
|---|---|
| *Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.* | |
| Crude Oil Released (bbls) Details | *Not answered.* |
| Produced Water Released (bbls) Details | Cause: Equipment Failure \| Dump Valve \| Produced Water \| Released: 52 BBL \| Recovered: 35 BBL \| Lost: 17 BBL. |
| Is the concentration of chloride in the produced water >10,000 mg/l | Yes |
| Condensate Released (bbls) Details | *Not answered.* |
| Natural Gas Vented (Mcf) Details | *Not answered.* |
| Natural Gas Flared (Mcf) Details | *Not answered.* |
| Other Released Details | *Not answered.* |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | *Not answered.* |

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1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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



## QUESTIONS (continued)

| | |
|---|---|
| Operator:<br>CHEVRON U S A INC<br>6301 Deauville Blvd<br>Midland, TX 79706 | OGRID:<br>4323 |
| | Action Number:<br>331931 |
| | Action Type:<br>[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

**QUESTIONS**

| **Nature and Volume of Release (continued)** | |
|---|---|
| Is this a gas only submission (i.e. only significant Mcf values reported) | **No, according to supplied volumes this does not appear to be a "gas only" report.** |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC | **Yes** |
| Reasons why this would be considered a submission for a notification of a major release | **From paragraph A. "Major release" determine using:**<br>**(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.** |
| *With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.* | |

| **Initial Response** | |
|---|---|
| *The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.* | |
| The source of the release has been stopped | True |
| The impacted area has been secured to protect human health and the environment | True |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices | True |
| All free liquids and recoverable materials have been removed and managed appropriately | True |
| If all the actions described above have not been undertaken, explain why | *Not answered.* |
| *Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.* | |

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

| | |
|---|---|
| I hereby agree and sign off to the above statement | Name: Kennedy Lincoln<br>Title: Environmental Specialist<br>Email: kennedy.lincoln@chevron.com<br>Date: 02/14/2024 |

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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 (continued)

| | |
|---|---|
| Operator:<br>CHEVRON U S A INC<br>6301 Deauville Blvd<br>Midland, TX 79706 | OGRID:<br>4323 |
| | Action Number:<br>331931 |
| | Action Type:<br>[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

**QUESTIONS**

| **Site Characterization** | |
|---|---|
| *Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.* | |
| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs) | Less than or equal 25 (ft.) |
| What method was used to determine the depth to ground water | U.S. Geological Survey |
| Did this release impact groundwater or surface water | No |
| **What is the minimum distance, between the closest lateral extents of the release and the following surface areas:** | |
| A continuously flowing watercourse or any other significant watercourse | Greater than 5 (mi.) |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) | Greater than 5 (mi.) |
| An occupied permanent residence, school, hospital, institution, or church | Greater than 5 (mi.) |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes | Between ½ and 1 (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 ½ and 1 (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 | Medium |
| A 100-year floodplain | Between ½ and 1 (mi.) |
| Did the release impact areas not on an exploration, development, production, or storage site | No |

| **Remediation Plan** | |
|---|---|
| *Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.* | |
| Requesting a remediation plan approval with this submission | Yes |
| *Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.* | |
| Have the lateral and vertical extents of contamination been fully delineated | Yes |
| Was this release entirely contained within a lined containment area | No |
| **Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.) | |
| Chloride (EPA 300.0 or SM4500 Cl B) | 4340 |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) | 152 |
| GRO+DRO (EPA SW-846 Method 8015M) | 152 |
| BTEX (EPA SW-846 Method 8021B or 8260B) | 0 |
| Benzene (EPA SW-846 Method 8021B or 8260B) | 0 |
| | |
| *Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.* | |
| On what estimated date will the remediation commence | 05/10/2024 |
| On what date will (or did) the final sampling or liner inspection occur | 05/20/2024 |
| On what date will (or was) the remediation complete(d) | 06/10/2024 |
| What is the estimated surface area (in square feet) that will be reclaimed | 2971 |
| What is the estimated volume (in cubic yards) that will be reclaimed | 150 |
| What is the estimated surface area (in square feet) that will be remediated | 2971 |
| What is the estimated volume (in cubic yards) that will be remediated | 150 |
| *These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.* | |
| *The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.* | |

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



## QUESTIONS (continued)

| | |
|---|---|
| Operator:<br>CHEVRON U S A INC<br>6301 Deauville Blvd<br>Midland, TX 79706 | OGRID:<br>4323 |
| | Action Number:<br>331931 |
| | Action Type:<br>[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

**QUESTIONS**

| | |
|---|---|
| **Remediation Plan (continued)** | |
| *Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.* | |
| **This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:** | |
| *(Select all answers below that apply.)* | |
| (Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.) | Yes |
| Which OCD approved facility will be used for **off-site** disposal | Sundance Services, Inc [fKJ1600527371] |
| **OR** which OCD approved well (API) will be used for **off-site** disposal | *Not answered.* |
| **OR** is the **off-site** disposal site, to be used, out-of-state | *Not answered.* |
| **OR** is the **off-site** disposal site, to be used, an NMED facility | *Not answered.* |
| (Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms) | *Not answered.* |
| (In Situ) Soil Vapor Extraction | *Not answered.* |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) | *Not answered.* |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) | *Not answered.* |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) | *Not answered.* |
| Ground Water Abatement pursuant to 19.15.30 NMAC | *Not answered.* |
| OTHER (Non-listed remedial process) | *Not answered.* |
| *Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.* | |
| | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | |
| I hereby agree and sign off to the above statement | Name: Kennedy Lincoln<br>Title: Environmental Specialist<br>Email: kennedy.lincoln@chevron.com<br>Date: 04/11/2024 |
| *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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**District II**
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Phone:(575) 748-1283 Fax:(575) 748-9720
**District III**
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
**District IV**
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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



## QUESTIONS (continued)

| | |
|---|---|
| Operator:<br>CHEVRON U S A INC<br>6301 Deauville Blvd<br>Midland, TX 79706 | OGRID:<br>4323 |
| | Action Number:<br>331931 |
| | Action Type:<br>[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

**QUESTIONS**

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

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## QUESTIONS (continued)

| | |
|---|---|
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**QUESTIONS**

| **Sampling Event Information** | |
|---|---|
| Last sampling notification (C-141N) recorded | ***{Unavailable.}*** |

| **Remediation Closure Request** | |
|---|---|
| *Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.* | |
| Requesting a remediation closure approval with this submission | No |

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CONDITIONS

Action 331931

## CONDITIONS

| | |
|---|---|
| Operator:<br>CHEVRON U S A INC<br>6301 Deauville Blvd<br>Midland, TX 79706 | OGRID:<br>4323 |
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**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| scwells | Remediation plan approved with conditions. As stated in plan, the area of sample point B-4 must be horizontally and vertically delineated before remediation. Submit remediation closure report to OCD by 7/14/2024. | 4/15/2024 |