TETRA TECH

October 1, 2024

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

Re: Remediation Work Plan
Chevron Mid Continent Business Unit
Cicada Unit #022H Flowline Release
Unit Letter D, Section 35, Township 25 South, Range 27 East
Eddy County, New Mexico
nAPP2414869489
DOR: 5/27/2024
Landowner: BLM

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by Chevron U.S.A., Inc. (Chevron) to assess a release that occurred at the Cicada Unit #022H (API 30-015-45423). The release footprint is located in Public Land Survey System (PLSS) Unit Letter D, Section 35, Township 25 South, and Range 27 East, in Eddy County, New Mexico (Site). The approximate release point coordinates are 32.093063°, -104.165862°. The Site location is shown on **Figures 1 and 2**.

BACKGROUND

According to the State of New Mexico Notice of Release report, the release was discovered on May 27, 2024. The release was caused by a pinhole leak from a 4-inch below grade flowline. Approximately 58.5 barrels (bbls) of produced water and 11.9 bbls of crude oil were released on the lease pad, of which approximately 4 bbls of produced water and 1 bbl of oil were recovered. The initial C-141 report was submitted to and approved by the New Mexico Oil Conservation Division (NMOCD) on May 30, 2024, and the release was assigned the Incident ID nAPP2414869489.

Chevron requested an extension from the NMOCD for the workplan submittal in an email dated August 14, 2024. The request was made after a second release occurred at the Cicada #022H lease pad (Incident ID nAPP2420727981), to allow for complete assessment and remediation planning for both releases. The extension request was approved by the NMOCD via email on August 14, 2024, for a new due date of November 12, 2024. A copy of the regulatory correspondence is included in Appendix A.

LAND OWNERSHIP

According to the NMOCD Oil and Gas Map, the Site is located on federal lands managed by the Bureau of Land Management (BLM). A copy of this remediation work plan will be provided to the BLM for approval prior to the initiation of the proposed remediation activities.

Tetra Tech
901 West Wall St., Suite 100, Midland, TX 79701
Tel 432.682.4559 Fax 432.682.3946 www.tetratech.com

SITE CHARACTERIZATION

A site characterization was performed in accordance with 19.15.29.11 New Mexico State Administrative Code (NMAC) and the guidance document Process Updates re: Submissions of Form C-141 Release Notification and Corrective Actions (12/01/2023). A summary of the site characterization is presented below:

Shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (feet bgs)	Between 51 and 75 ft
Method used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water?	No
What is the minimum distance between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
A (non-karst) unstable area	Greater than 5 (mi.)
Categorized risk of this well / site being in a karst geology	High
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site?	No

According to the New Mexico Office of the State Engineer (NMOSE) reporting system, there is one well within a ½-mile (800-meter) radius of the Site, located approximately 0.43 miles (692 meters) east of the release point. The depth to water is measured at 69 feet below ground surface (bgs). The site characterization data is included in Appendix B.

REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization, the remediation RRALs for the Site are as follows:

Constituent	RRAL
Chloride	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

SITE ASSESSMENT ACTIVITIES

Tetra Tech personnel were onsite on June 18, 2024, to conduct release assessment activities on behalf of Chevron. Three (3) hand auger borings (AH-1 through AH-3) were installed within the release footprint in order to vertically delineate the extent. Four hand auger borings (H-1 through H-4) were installed along the perimeter of the release to horizontally delineate the extent. Photographic documentation of the release extent is included in Appendix C.

Due to hand auger refusal encountered at 1.5 feet bgs, vertical delineation was not achieved as a result of the initial assessment activities. Additionally, horizontal delineation was not achieved to the north (H-1). Therefore, Tetra Tech personnel returned to the Site on August 12-13, 2024, to complete delineation of the release. Four trenches (TT-1 through TT-4) were installed within the release footprint, and three additional horizontal sampling locations (H-5 through H-7) were installed along the perimeter of the release. The sampling locations are presented on Figure 3.

A total of thirty-six (36) soil samples were collected during the June and August assessment events and submitted to Eurofins Testing in Midland, Texas to be analyzed for TPH by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300. Copies of the laboratory analytical reports and chain-of-custody documentation are included in Appendix D.

The laboratory analytical results are summarized in Table 1. Analytical results associated with soil sampling locations AH-1/TT-1, AH-2, AH-3, H-1, and TT-4 exceeded the chloride RRAL of 600 mg/kg in sampling intervals ranging from the surface to 1.5 feet bgs. Analytical results associated with sampling locations AH-2 and AH-3 also exceeded the Total TPH RRAL of 100 mg/kg at select sampling intervals from the surface to 1.5 feet bgs. There were no analytical results which exceeded the benzene or Total BTEX RRALs.

REMEDIATION WORK PLAN

Based on the collected analytical results, Chevron proposes to remove the impacted material as shown in Figure 4. Impacted soils in the vicinity of assessment borings AH-1/TT-1 and AH-3/TT-3 will be excavated using heavy equipment (backhoes, hoe rams, and track hoes) to a maximum total depth of 2 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation is below the RRALs. Impacted soils in the vicinity of borings TT-1, H-1, and AH-2 will be excavated to a total depth of 1 foot below the surrounding surface or until a representative sample is below the RRALs. Any area containing pressurized lines will be hand-dug to a depth of 2 feet or the maximum extent practicable and heavy equipment will come no more than 3 feet from any pressurized lines.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Chevron requests a variance to collect confirmation floor and sidewall samples every 300 square feet for verification of remedial activities, and analyzed for TPH, BTEX, and chlorides. The proposed excavation encompasses a surface area of approximately 3,510 square feet. Once results are received, NMOCD will be notified, and the excavation will then be backfilled with clean material to surface grade. The estimated volume of material to be remediated is approximately 155 cubic yards.

CONCLUSION

Chevron proposes to begin remediation activities at the Site within 90 days of NMOCD plan approval. Upon completion of the proposed work, a final closure report detailing the remediation activities and the results

of the confirmation sampling will be submitted to NMOCD. If you have any questions concerning the soil assessment or the proposed remediation activities for the Site, please contact Tetra Tech at (432) 682-4559.

Sincerely,
Tetra Tech, Inc.

John Faught, GIT
Project Manager

Clair Gonzales, PG
Senior Project Manager

Samantha Abbott, PG
Project Manager

cc:
Ms. Kennedy Lincoln – Chevron MCBU

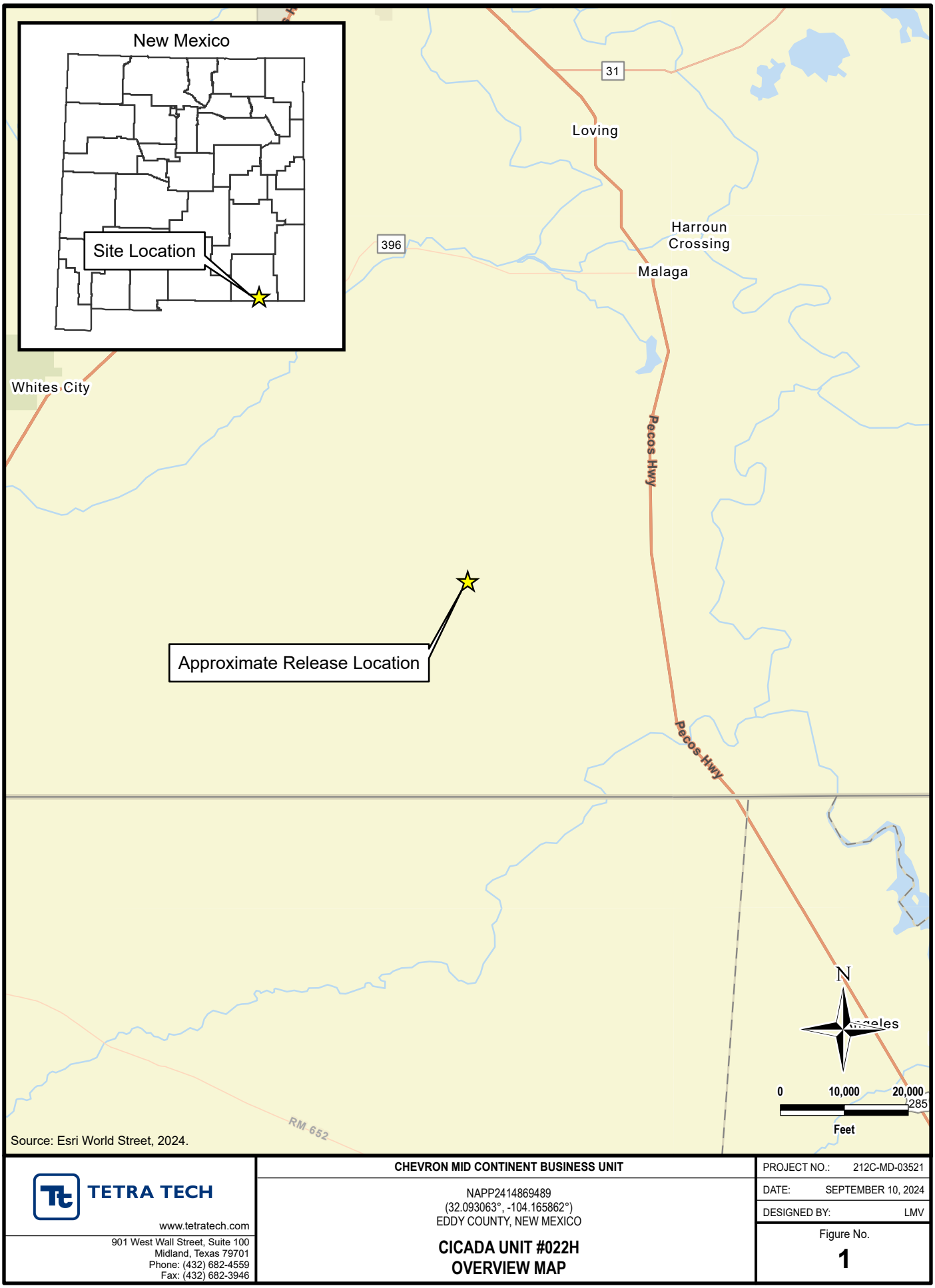
LIST OF ATTACHMENTS

Figures:

Tables:

Appendices:

FIGURES



DOCUMENT PATH: C:\USERS\LISSA.VILLAMIN\ONEDRIVE - TETRA TECH, INC\OGA_OTHER_WORK\MD\CHEVRON\212C-MD-03521_CICADA_22H\CICADA_22H.APRX

TETRA TECH

www.tetratech.com

901 West Wall Street, Suite 100
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Phone: (432) 682-4559
Fax: (432) 682-3946

CHEVRON MID CONTINENT BUSINESS UNIT

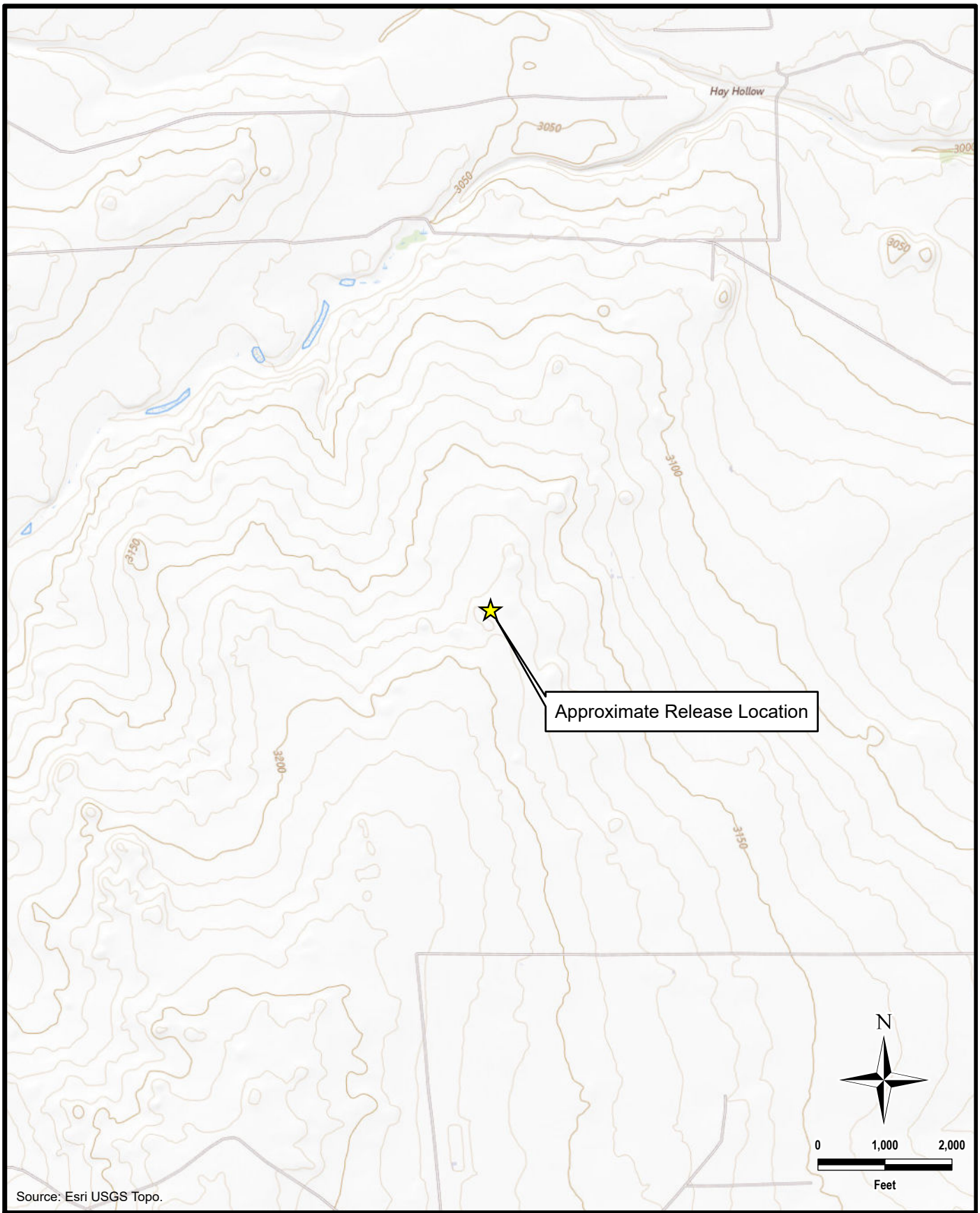
NAPP2414869489
(32.093063°, -104.165862°)
EDDY COUNTY, NEW MEXICO

CICADA UNIT #022H
OVERVIEW MAP

PROJECT NO.:	212C-MD-03521
DATE:	SEPTEMBER 10, 2024
DESIGNED BY:	LMV

Figure No.

1



DOCUMENT PATH: C:\USERS\LISSA.VILLAMIN\ONEDRIVE - TETRA TECH, INC\OGA_OTHER_WORK\MD\CHEVRON\212C-MD-03521_CICADA_22H\CICADA_22H.APRX

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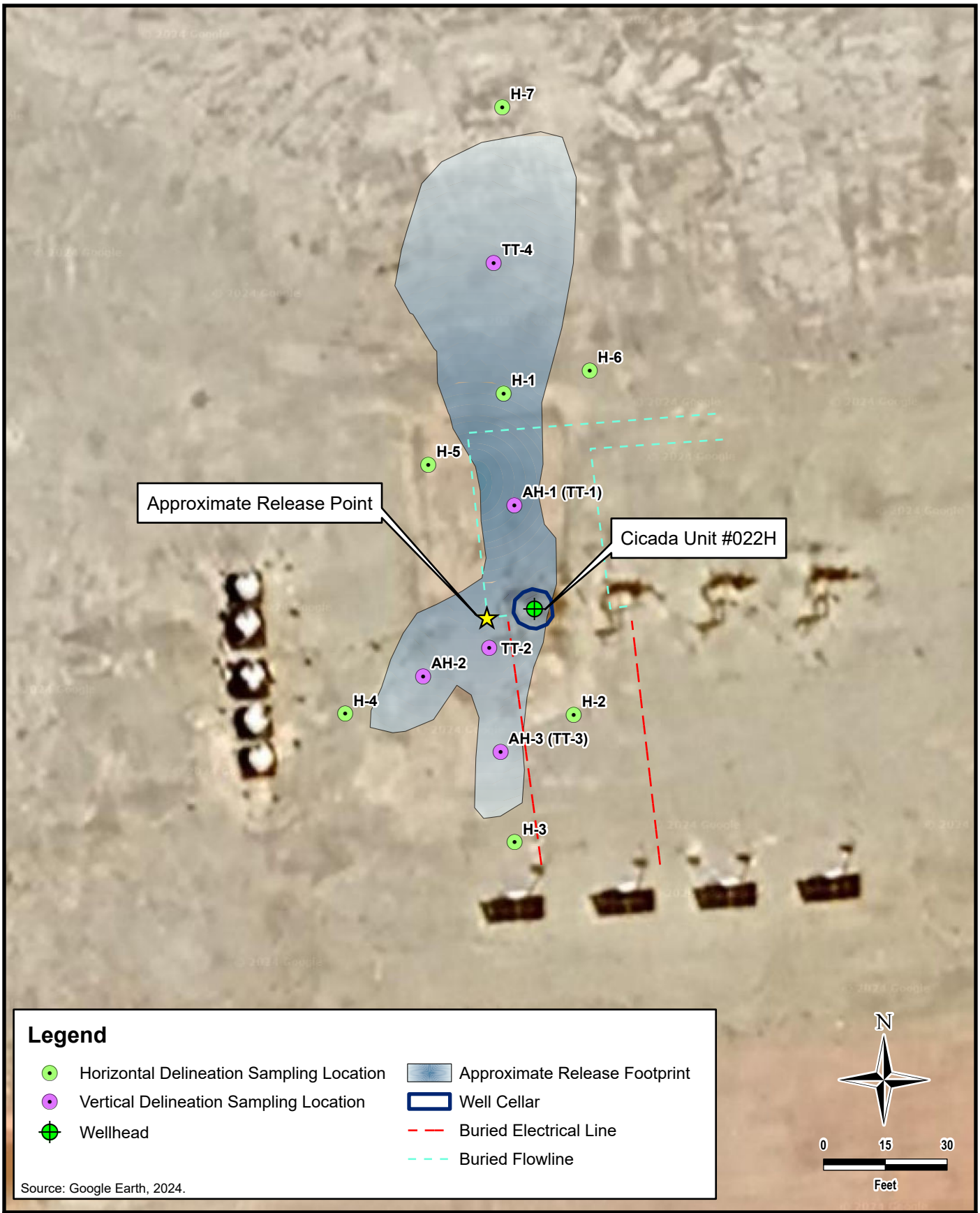
CHEVRON MID CONTINENT BUSINESS UNIT

NAPP2414869489
(32.093063°, -104.165862°)
EDDY COUNTY, NEW MEXICO

CICADA UNIT #022H
TOPOGRAPHIC MAP

PROJECT NO.:	212C-MD-03521
DATE:	SEPTEMBER 10, 2024
DESIGNED BY:	LMV

Figure No.
2



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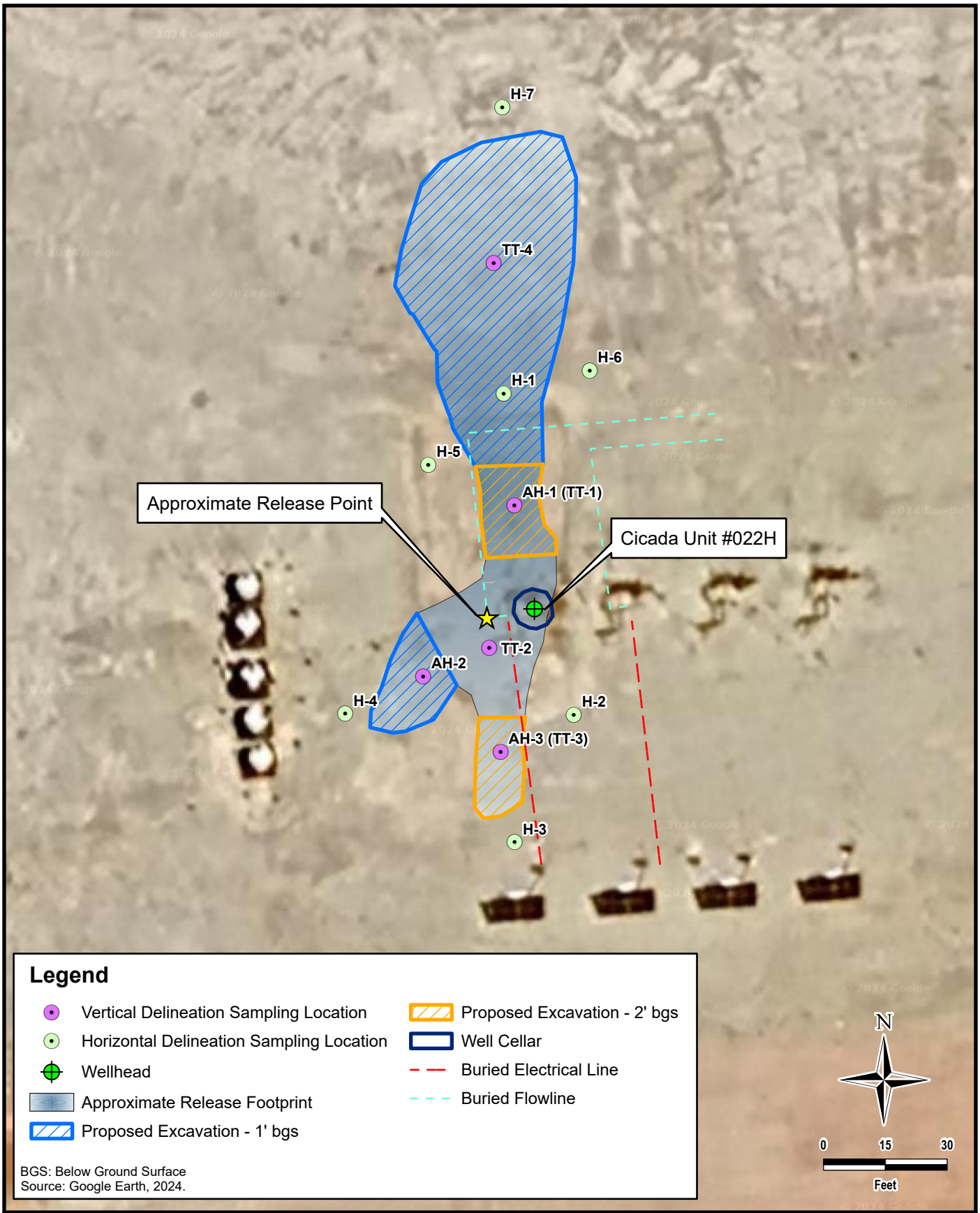
CHEVRON MID CONTINENT BUSINESS UNIT

NAPP2414869489
(32.093063°, -104.165862°)
EDDY COUNTY, NEW MEXICO

CICADA UNIT #022H
RELEASE ASSESSMENT MAP

PROJECT NO.:	212C-MD-03521
DATE:	SEPTEMBER 10, 2024
DESIGNED BY:	LMV

Figure No.
3



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CHEVRON MID CONTINENT BUSINESS UNIT

NAPP2414869489
(32.093063°, -104.165862°)
EDDY COUNTY, NEW MEXICO

CICADA UNIT #022H
PROPOSED REMEDIATION MAP

PROJECT NO.:	212C-MD-03521
DATE:	SEPTEMBER 17, 2024
DESIGNED BY:	LMV

Figure No.
4

TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT - nAPP2414869489 (DOR 5/27/2024)
CHEVRON MCBU
CICADA UNIT #022H
EDDY COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride[1]		BTEX[2]										TPH[3]									
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		MRO		Total TPH			
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q		
VERTICAL DELINEATION SAMPLES																								
AH-1	6/18/2024	0-1'	***1420***		<0.00138	U	<0.00198	U	<0.00108	U	<0.00226	U	<0.00226	U	20.4	J B	25.0	J B	<12.5	U	45.4	J		
		1'	***1200***		<0.00140	U	<0.00201	U	<0.00109	U	<0.00229	U	<0.00229	U	16.0	J B	22.4	J B	<12.5	U	38.4	J		
		1.5'	***1250***		<0.00139	U	<0.00200	U	<0.00109	U	<0.00228	U	<0.00228	U	12.8	J B	19.7	J B	<12.5	U	32.5	J		
TT-1	8/13/2024	0-0.5'	***643***		<0.00139	U	<0.00200	U	<0.00109	U	<0.00228	U	<0.00228	U	<14.7	U	<15.3	U	<15.3	U	<15.3	U		
		1'	419		<0.00139	U	<0.00200	U	<0.00109	U	<0.00228	U	<0.00228	U	<14.4	U	<15.0	U	<15.0	U	<15.0	U		
		2'	186		<0.00140	U	<0.00201	U	<0.00109	U	<0.00229	U	<0.00229	U	<14.5	U	<15.1	U	<15.1	U	<15.1	U		
		3'	182		<0.00138	U	<0.00199	U	<0.00108	U	<0.00227	U	<0.00227	U	<14.5	U	<15.1	U	<15.1	U	<15.1	U		
		4'	450		<0.00140	U	<0.00201	U	<0.00110	U	<0.00230	U	<0.00230	U	<14.5	U	59.6		<15.1	U	59.6			
AH-2	6/18/2024	0-1'	***623***		<0.00139	U	<0.00199	U	<0.00108	U	<0.00228	U	<0.00228	U	<10.9	U	153	B	<12.5	U	***153***			
		1'	481		<0.00138	U	<0.00199	U	<0.00108	U	<0.00227	U	<0.00227	U	12.6	J B	19.1	J B	<12.4	U	31.7	J		
		1.5'	265		<0.00138	U	<0.00198	U	<0.00108	U	<0.00227	U	<0.00227	U	35.1	J B	33.8	J B	<12.5	U	68.9			
TT-2	8/13/2024	0-0.5'	116		<0.00139	U	<0.00200	U	<0.00109	U	<0.00228	U	<0.00228	U	<14.6	U	<15.3	U	<15.3	U	<15.3	U		
		1'	153		<0.00139	U	<0.00200	U	<0.00109	U	<0.00229	U	<0.00229	U	<14.6	U	<15.2	U	<15.2	U	<15.2	U		
		2'	159		<0.00139	U	<0.00200	U	<0.00109	U	<0.00228	U	<0.00228	U	<14.4	U	<15.0	U	<15.0	U	<15.0	U		
		3'	222		<0.00138	U	<0.00199	U	<0.00108	U	<0.00227	U	<0.00227	U	<14.4	U	<15.0	U	<15.0	U	<15.0	U		
		4'	241		<0.00140	U	<0.00201	U	<0.00109	U	<0.00229	U	<0.00229	U	<14.5	U	<15.1	U	<15.1	U	<15.1	U		
AH-3	6/18/2024	0-1'	326		<0.00140	U	<0.00201	U	0.00780		<0.00229	U	0.00780		14.6	J B	496	B	<12.5	U	***511***			
		1'	***1270***		<0.00140	U	<0.00201	U	<0.00109	U	0.0244		0.0244		20.6	J B	39.7	J B	<12.5	U	60.3			
		1.5'	550		<0.00139	U	<0.00199	U	0.00309		<0.00228	U	0.00309	J	16.7	J B	366	B	<12.5	U	***383***			
TT-3	8/13/2024	0-0.5'	139		<0.00140	U	<0.00201	U	<0.00110	U	<0.00230	U	<0.00230	U	<14.5	U	<15.1	U	<15.1	U	<15.1	U		
		1'	185		<0.00138	U	<0.00199	U	<0.00108	U	<0.00227	U	<0.00227	U	<14.4	U	<15.0	U	<15.0	U	<15.0	U		
		2'	137		<0.00139	U	<0.00200	U	<0.00109	U	<0.00229	U	<0.00229	U	<14.6	U	<15.2	U	<15.2	U	<15.2	U		
		3'	130		<0.00140	U	<0.00201	U	0.00110	J	<0.00229	U	<0.00229	U	<14.6	U	<15.3	U	<15.3	U	<15.3	U		
		4'	119		<0.00139	U	<0.00200	U	<0.00109	U	<0.00228	U	<0.00228	U	<14.7	U	<15.3	U	<15.3	U	<15.3	U		
TT-4	8/12/2024	0-0.5'	***811***		<0.00138	U	<0.00199	U	<0.00108	U	0.00609		0.00609		<14.4	U	38.5	J	<15.0	U	38.5	J		
		1'	***745***		<0.00140	U	<0.00201	U	0.00165	J	0.00546		0.00711		<14.5	U	93.7		<15.1		93.7			
		2'	309		<0.00139	U	<0.00200	U	<0.00109	U	<0.00228	U	<0.00228	U	<14.4	U	<15.0	U	<15.0	U	<15.0	U		
		3'	192		<0.00139	U	<0.00200	U	<0.00109	U	0.0893		0.0893		<14.4	U	17.4	J	<15.0	U	17.4	J		
		4'	101	F1	<0.00139		<0.00200	U	<0.00109	U	0.00228	U	<0.00228	U	<14.5	U	<15.1	U	<15.1	U	<15.1	U		
H-1	6/18/2024	0-1'	**622**		<0.00139	U	<0.00199	U	<0.00108	U	<0.00228	U	<0.00228	U	<10.9	U	37.0	J B	<12.5	U	37.0	J		
HORIZONTAL DELINEATION SAMPLES																								
H-2	6/18/2024	0-1'	521		<0.00139	U	<0.00200	U	0.00148	J	0.0385		0.0400		<11.0	U	36.3	J B	<12.5	U	36.3	J		
H-3	6/18/2024	0-1'	430		<0.00139	U	<0.00200	U	<0.00109	U	<0.00229	U	<0.00229	U	14.9	J B	<14.9	U	<12.5	U	14.9	J		
H-4	6/18/2024	0-1'	574		<0.00141	U	<0.00202	U	<0.00110	U	<0.00231	U	<0.00231	U	16.0	J B	<15.0	U	<12.5	U	16.0	J		
H-5	8/13/2024	0-1'	184		<0.00140	U	<0.00201	U	<0.00109	U	<0.00229	U	<0.00229	U	<14.6	U	<15.2	U	<15.2	U	<15.2	U		
H-6	8/13/2024	0-1'	285		<0.00139	U	<0.00200	U	0.00183	J	0.00242	J	0.00425		<14.6	U	<15.2	U	<15.2	U	<15.2	U		
H-7	8/13/2024	0-1'	451		<0.00140	U	<0.00201	U	<0.00110	U	<0.00230	U	<0.00230	U	<14.6	U	<15.3	U	<15.3	U	<15.3	U		

NOTES:

ft. Feet
bgs Below ground surface
mg/kg Milligrams per kilogram
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics
MRO Motor Oil range organics
NS Sample not analyzed for parameter
1 EPA Method 300.0
2 EPA Method 8021B
3 Method SW8015 Mod

Shaded intervals are proposed for excavation

Qualifiers:
B Compound was found in the blank and sample.
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.

APPENDIX A
Regulatory Correspondence

From: Lincoln, Kennedy
To: Weigand, Russell; Faught, John
Subject: Fwd: Extension Approved - Request for Extension on Workplan Submittal: nAPP2414869489
Date: Wednesday, August 14, 2024 10:22:11 PM

Kennedy Lincoln
MCBU Environmental Specialist
Mid-Continent Business Unit (MCBU)
Chevron North America Exploration and Production Company
6301 Deauville Midland, TX
Mobile (432) 813-5384
Kennedy.Lincoln@chevron.com

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Wednesday, August 14, 2024 2:23 PM
To: Lincoln, Kennedy <Kennedy.Lincoln@chevron.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: [**EXTERNAL**] Extension Approved - Request for Extension on Workplan Submittal: nAPP2414869489

RE: Incident **#NAPP2414869489**

Kennedy,

Your request for a 90 day extension to **November 12th, 2024** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet ● Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, August 14, 2024 11:55 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Request for Extension on Workplan Submittal: nAPP2414869489

From: Lincoln, Kennedy <Kennedy.Lincoln@chevron.com>
Sent: Wednesday, August 14, 2024 11:44 AM
To: ocdonline, emnrd, EMNRD <emnrd.ocdonline@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Subject: [EXTERNAL] Request for Extension on Workplan Submittal: nAPP2414869489

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hello Shelly,

I am reaching out to request an extension for the workplan submittal for incident ID (n#) nAPP2414869489 at Cicada 022H. The reason I am requesting an extension for this incident number is because we have two spills (nAPP2414869489 and nAPP2420727981) on the same pad, and we would like to make a workplan that will allow the remediation of both areas to be done at the same time. We have currently delineated the impacted area for both spills and are waiting for the sampling information to come back from the lab.

Please let me know if you need any additional information to grant the extension.

Thanks,

Kennedy Lincoln
MCBU Environmental Specialist
Mid-Continent Business Unit (MCBU)
Chevron North America Exploration and Production Company
6301 Deauville Midland, TX
Mobile (432) 813-5384
Kennedy.Lincoln@chevron.com

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, May 30, 2024 5:55 PM
To: Lincoln, Kennedy <Kennedy.Lincoln@chevron.com>
Subject: [**EXTERNAL**] The Oil Conservation Division (OCD) has approved the application, Application ID: 349395

To whom it may concern (c/o Kennedy Lincoln for CHEVRON U S A INC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2414869489, with the following conditions:

- **None**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Shelly Wells
Environmental Specialist-A
505-469-7520
Shelly.Wells@emnrd.nm.gov

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

APPENDIX B
Site Characterization Data

Site Characterization Summary

Site Information:
Chevron MCBU
Cicada Unit 022H
Eddy County, New Mexico
T25S, R27E, Section 35, Unit D
(32.093063°, -104.165862°)

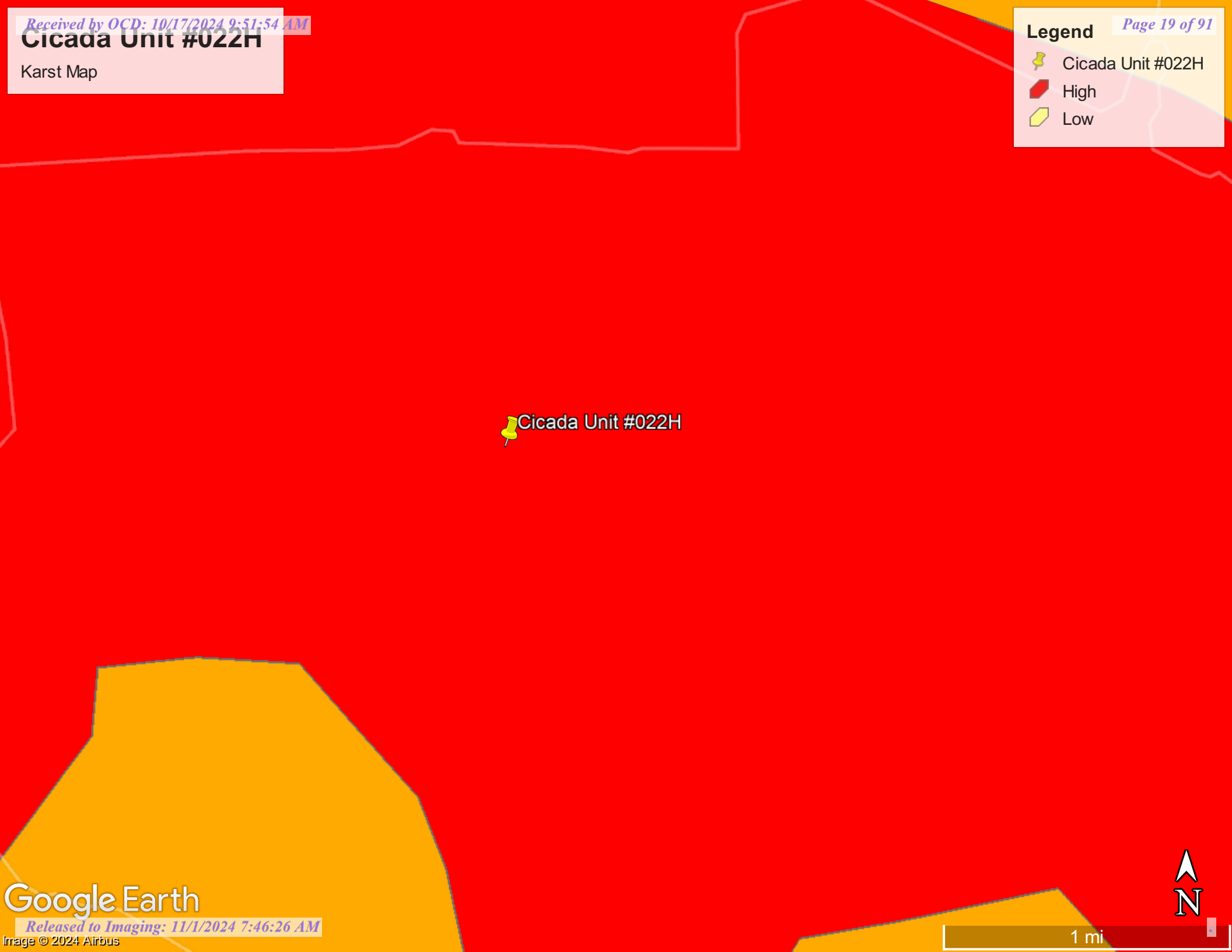
Site Characterization:
-High Karst
-No significant water features within specified distances
-Groundwater 69’ BGS 0.43 Miles Northeast. (NMOSE, POD C-04371-POD1, 2019 Sample)

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

Explanation:
Due to the Cicada Unit 022H location within a high karst area.

Cicada Unit #022H

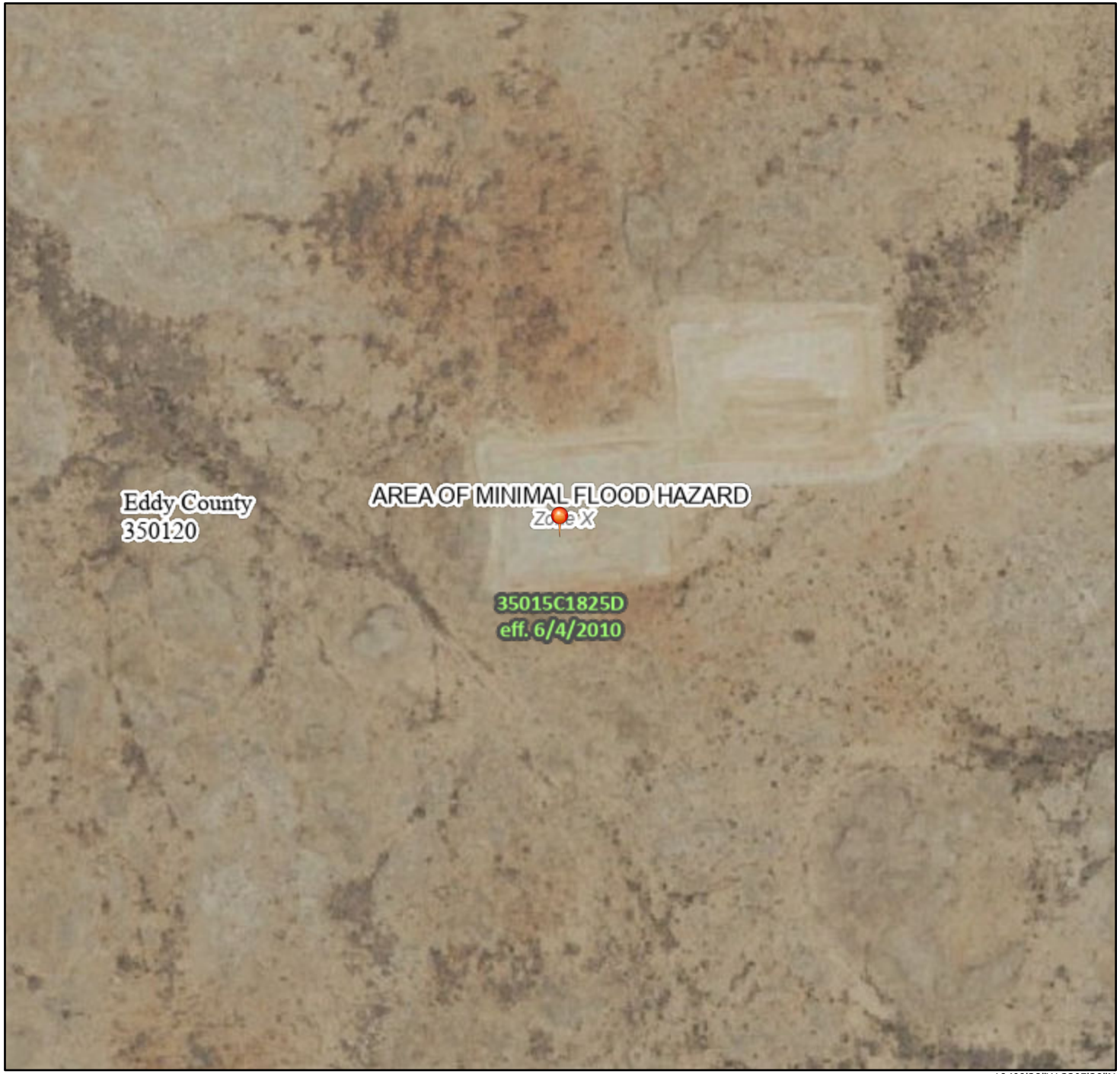
Karst Map



National Flood Hazard Layer FIRMette

FEMA

104°10'16"W 32°5'50"N



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

1:6,000

104°9'38"W 32°5'20"N

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 6/20/2024 at 4:34 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

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

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

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

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

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 04371 POD1	CUB	ED	3	3	4	26	25S	27E	579369	3551272	692	100	69	31

Average Depth to Water: **69 feet**

Minimum Depth: **69 feet**

Maximum Depth: **69 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 578711.206 **Northing (Y):** 3551054.94 **Radius:** 1600

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04371 POD1	3	3	4	26	25S	27E	579369	3551272

Driller License: 1456 **Driller Company:** WHITE DRILLING COMPANY

Driller Name: WHITE, JOHNNOWN.GENER

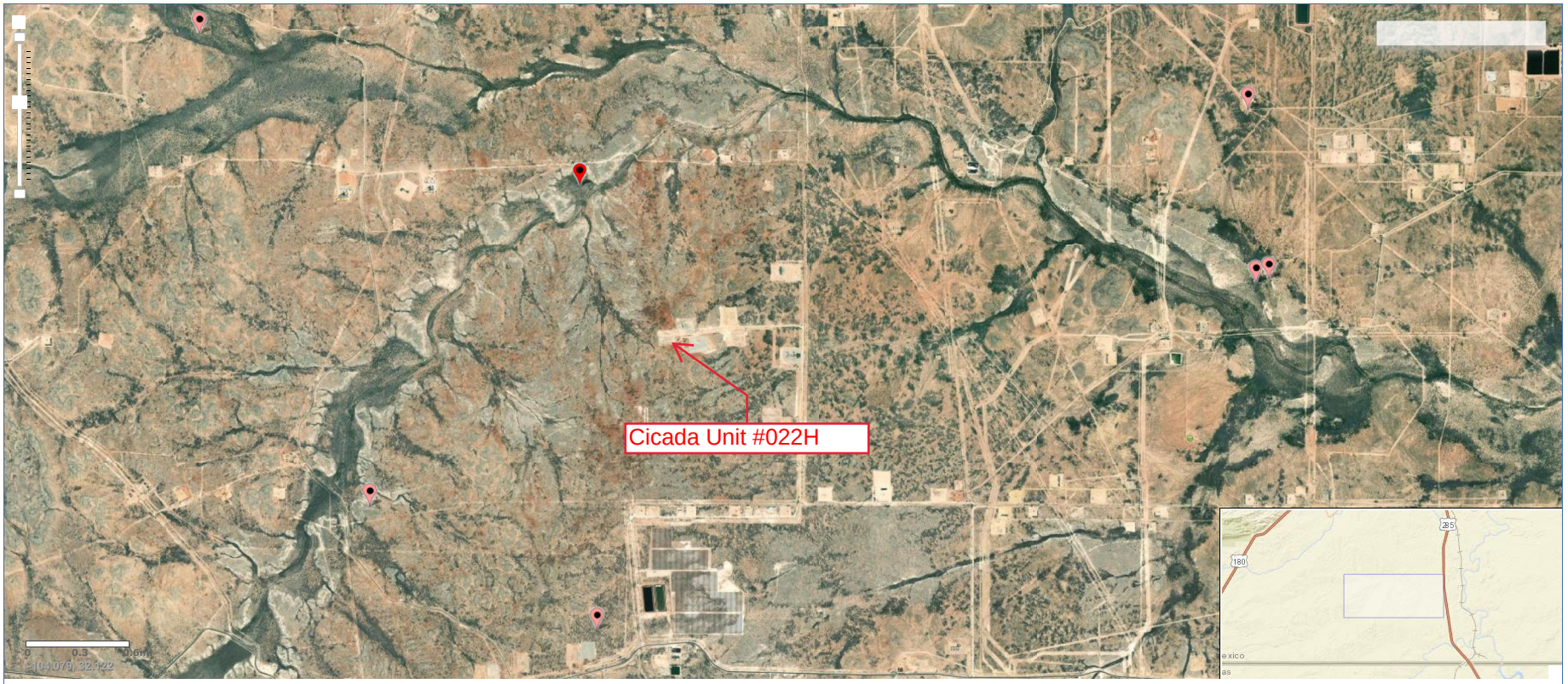
Drill Start Date:	10/17/2019	**Drill Finish Date:**	10/17/2019	**Plug Date:**	10/17/2019
Log File Date:	11/04/2019	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:		**Depth Well:**	100 feet	**Depth Water:**	69 feet

Water Bearing Stratifications:	Top	Bottom	Description
	5	100	Other/Unknown

USGS Home
Contact USGS
Search USGS

National Water Information System: Mapper

Help Info



Site Information

U.S. Fish and Wildlife Service
National Wetlands Inventory

Cicada Unit 022H

June 20, 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

APPENDIX C
Photographic Documentation

Photographic Log

Chevron U.S.A., Inc.
Cicada Unit #022H
nAPP2414869489 (DOR 5/27/2024)

Photo 1: View south-southeast of release extent (vicinity of H-1).

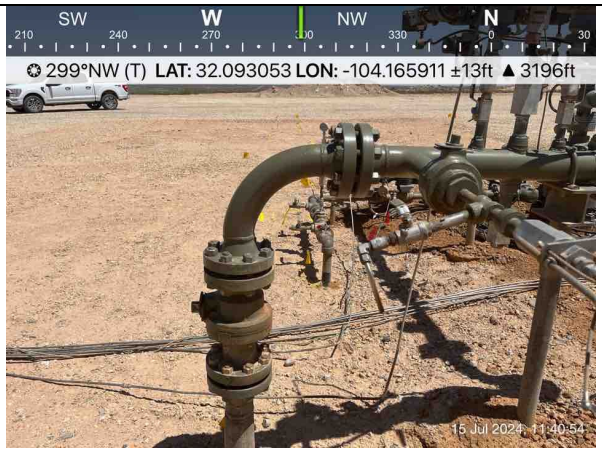


Photo 2: View west-northwest of approximate release point (vicinity of TT-2).

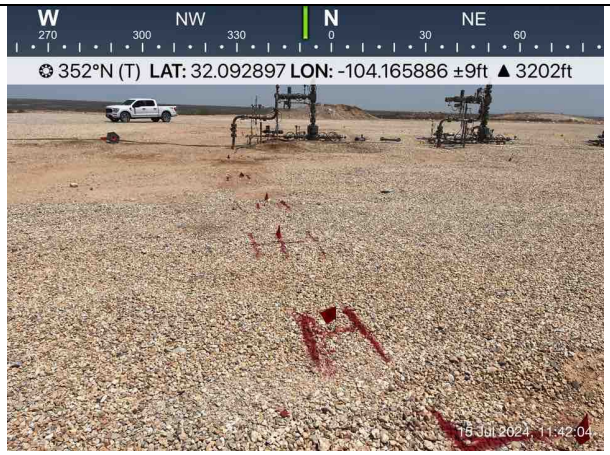


Photo 3: View north of release extent and buried electrical lines (vicinity of AH-3/TT-3).

Photo 4: View northwest of northern portion of release extent (vicinity of TT-4).

Date Taken	Job No.	Photographs Taken By:	Page No.	Client:	Site Name:	
07/15/2024	212C-MD-01875	Matt Castrejon	1 of 1	Chevron	Cicada #022H	TETRA TECH

APPENDIX D
Laboratory Analytical Data

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/25/2024 4:11:37 PM Revision 2

JOB DESCRIPTION

Cicada Unit 022H Delineation Assessment Release 1
Eddy County,

JOB NUMBER

880-47252-1

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
9/25/2024 4:11:37 PM
Revision 2

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

Table of Contents

Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

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
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, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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: 880-47252-1
Project: Cicada Unit 022H Delineation Assessment Release 1

Job ID: 880-47252-1 Eurofins Midland

Job Narrative
880-47252-1

REVISION

The report being provided is a revision of the original report sent on 8/20/2024. The report (revision 1) is being revised due to Revision required to include correct samples.

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 8/14/2024 2:20 PM. 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 -2.4°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: H-5 (0-1') (880-47252-1), H-6 (0-1') (880-47252-2), H-7 (0-1') (880-47252-3), TT-1 (0-0.5') (880-47252-4), TT-1 (1') (880-47252-5), TT-1 (2') (880-47252-6), TT-1 (3') (880-47252-7), TT-1 (4') (880-47252-8), TT-2 (0-0.5') (880-47252-9), TT-2 (1') (880-47252-10), TT-2 (3') (880-47252-11), TT-2 (4') (880-47252-12), TT-3 (0-0.5') (880-47252-13), TT-3 (1') (880-47252-14), TT-3 (2') (880-47252-15), TT-3 (3') (880-47252-16), TT-3 (4') (880-47252-17), TT-4 (0-0.5') (880-47252-18), TT-4 (1') (880-47252-19), TT-4 (2') (880-47252-20), TT-4 (4') (880-47252-21), TT-4 (5') (880-47252-22), TT-4 (6') (880-47252-23), TT-4 (7') (880-47252-24) and TT-2 (2') (880-47252-25).

GC VOA
Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-88479 and analytical batch 880-88473 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.

Diesel Range Organics
Method 8015MOD_NM: CCV was biased high for the diesel range organics. However, since another CCV was acceptable within a 12 hour analysis period the data was qualified and reported.

(CCV 880-88506/21)

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: TT-1 (3') (880-47252-7), TT-4 (1') (880-47252-19) and (MB 880-88454/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-88497 and analytical batch 880-88530 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: TT-2 (2') (880-47252-25), (880-47252-A-21-E), (880-47252-A-21-F MS) and (880-47252-A-21-G MSD).

Eurofins Midland

Case Narrative

Client: Tetra Tech Inc
Job ID: 880-47252-1
Project: Cicada Unit 022H Delineation Assessment Release 1

Job ID: 880-47252-1 (Continued)
Eurofins Midland

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

Case Narrative

Client: Tetra Tech Inc Job ID: 880-47252-1
Project: Cicada Unit 022H Delineation Assessment Release 1

Job ID: 880-47259-2 Eurofins Midland

Job Narrative
880-47259-2

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 8/14/2024 2:20 PM. 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 -2.4°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-1') (880-47259-1), H-2 (0-1') (880-47259-2), H-3 (0-1') (880-47259-3), H-4 (0-1') (880-47259-4), H-5 (0-1') (880-47259-5), TT-1 (4') (880-47259-6), TT-2 (0-0.5') (880-47259-7), TT-2 (1') (880-47259-8), TT-2 (2') (880-47259-9), TT-2 (3') (880-47259-10), TT-2 (4') (880-47259-11), TT-3 (0-0.5') (880-47259-12), TT-3 (1') (880-47259-13), TT-3 (2') (880-47259-14), TT-3 (3') (880-47259-15), TT-3 (4') (880-47259-16), TT-4 (0-0.5') (880-47259-17), TT-4 (1') (880-47259-18), TT-4 (2') (880-47259-19), TT-4 (3') (880-47259-20), TT-4 (3') (880-47259-21) and TT-4 (4') (880-47259-22).

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

Diesel Range Organics
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: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Client Sample ID: H-5 (0-1')

Date Collected: 08/13/24 11:50
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		08/15/24 09:15	08/15/24 12:48	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		08/15/24 09:15	08/15/24 12:48	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		08/15/24 09:15	08/15/24 12:48	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		08/15/24 09:15	08/15/24 12:48	1
o-Xylene	<0.00159	U F1	0.00201	0.00159	mg/Kg		08/15/24 09:15	08/15/24 12:48	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		08/15/24 09:15	08/15/24 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*08/15/24 09:15*	*08/15/24 12:48*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*08/15/24 09:15*	*08/15/24 12:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			08/15/24 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	<15.2	U	50.1	15.2	mg/Kg			08/15/24 18:07	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	<14.6	U	50.1	14.6	mg/Kg		08/14/24 17:23	08/15/24 18:07	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.1	15.2	mg/Kg		08/14/24 17:23	08/15/24 18:07	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.1	15.2	mg/Kg		08/14/24 17:23	08/15/24 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*08/14/24 17:23*	*08/15/24 18:07*	*1*
o-Terphenyl	*78*		*70 - 130*	*08/14/24 17:23*	*08/15/24 18:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**184**		4.98	0.393	mg/Kg			08/16/24 01:45	1

Client Sample ID: H-6 (0-1')

Date Collected: 08/12/24 11:10
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/15/24 09:15	08/15/24 13:08	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/15/24 09:15	08/15/24 13:08	1
Ethylbenzene	**0.00183**	**J**	0.00200	0.00109	mg/Kg		08/15/24 09:15	08/15/24 13:08	1
m-Xylene & p-Xylene	**0.00242**	**J**	0.00399	0.00228	mg/Kg		08/15/24 09:15	08/15/24 13:08	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		08/15/24 09:15	08/15/24 13:08	1
Xylenes, Total	**0.00242**	**J**	0.00399	0.00228	mg/Kg		08/15/24 09:15	08/15/24 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*08/15/24 09:15*	*08/15/24 13:08*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*08/15/24 09:15*	*08/15/24 13:08*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Client Sample ID: H-6 (0-1')

Lab Sample ID: 880-47252-2
Matrix: Solid
Date Collected: 08/12/24 11:10
Date Received: 08/14/24 14:20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00425**		0.00399	0.00228	mg/Kg			08/15/24 13:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.2	U	50.2	15.2	mg/Kg			08/15/24 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	<14.6	U	50.2	14.6	mg/Kg		08/14/24 17:23	08/15/24 19:01	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.2	15.2	mg/Kg		08/14/24 17:23	08/15/24 19:01	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.2	15.2	mg/Kg		08/14/24 17:23	08/15/24 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*08/14/24 17:23*	*08/15/24 19:01*	*1*
o-Terphenyl	*84*		*70 - 130*	*08/14/24 17:23*	*08/15/24 19:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**285**		4.98	0.393	mg/Kg			08/16/24 02:07	1

Client Sample ID: H-7 (0-1')

Lab Sample ID: 880-47252-3
Matrix: Solid
Date Collected: 08/12/24 11:32
Date Received: 08/14/24 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		08/15/24 09:15	08/15/24 13:29	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		08/15/24 09:15	08/15/24 13:29	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		08/15/24 09:15	08/15/24 13:29	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		08/15/24 09:15	08/15/24 13:29	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		08/15/24 09:15	08/15/24 13:29	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		08/15/24 09:15	08/15/24 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*08/15/24 09:15*	*08/15/24 13:29*	*1*
1,4-Difluorobenzene (Surr)	*126*		*70 - 130*	*08/15/24 09:15*	*08/15/24 13:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00402	0.00230	mg/Kg			08/15/24 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	<15.3	U	50.4	15.3	mg/Kg			08/15/24 19:19	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	<14.6	U	50.4	14.6	mg/Kg		08/14/24 17:23	08/15/24 19:19	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Client Sample ID: H-7 (0-1')
Date Collected: 08/12/24 11:32
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<15.3	U	50.4	15.3	mg/Kg		08/14/24 17:23	08/15/24 19:19	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.4	15.3	mg/Kg		08/14/24 17:23	08/15/24 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*08/14/24 17:23*	*08/15/24 19:19*	*1*
o-Terphenyl	*87*		*70 - 130*	*08/14/24 17:23*	*08/15/24 19:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**451**		5.01	0.396	mg/Kg			08/16/24 02:14	1

Client Sample ID: TT-1 (0-0.5')
Date Collected: 08/13/24 12:15
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/15/24 09:15	08/15/24 13:50	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/15/24 09:15	08/15/24 13:50	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		08/15/24 09:15	08/15/24 13:50	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		08/15/24 09:15	08/15/24 13:50	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		08/15/24 09:15	08/15/24 13:50	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		08/15/24 09:15	08/15/24 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*08/15/24 09:15*	*08/15/24 13:50*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*08/15/24 09:15*	*08/15/24 13:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			08/15/24 13:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.3	U	50.5	15.3	mg/Kg			08/15/24 19:37	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	<14.7	U	50.5	14.7	mg/Kg		08/14/24 17:23	08/15/24 19:37	1
Diesel Range Organics (Over C10-C28)	<15.3	U	50.5	15.3	mg/Kg		08/14/24 17:23	08/15/24 19:37	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.5	15.3	mg/Kg		08/14/24 17:23	08/15/24 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*08/14/24 17:23*	*08/15/24 19:37*	*1*
o-Terphenyl	*84*		*70 - 130*	*08/14/24 17:23*	*08/15/24 19:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**643**		5.03	0.397	mg/Kg			08/16/24 02:37	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Client Sample ID: TT-1 (1')

Lab Sample ID: 880-47252-5
Matrix: Solid
Date Collected: 08/13/24 12:17
Date Received: 08/14/24 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/15/24 09:15	08/15/24 14:10	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/15/24 09:15	08/15/24 14:10	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		08/15/24 09:15	08/15/24 14:10	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		08/15/24 09:15	08/15/24 14:10	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		08/15/24 09:15	08/15/24 14:10	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		08/15/24 09:15	08/15/24 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*08/15/24 09:15*	*08/15/24 14:10*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*08/15/24 09:15*	*08/15/24 14:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			08/15/24 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	<15.0	U	49.7	15.0	mg/Kg			08/15/24 19:54	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	<14.4	U	49.7	14.4	mg/Kg		08/14/24 17:23	08/15/24 19:54	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		08/14/24 17:23	08/15/24 19:54	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		08/14/24 17:23	08/15/24 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*08/14/24 17:23*	*08/15/24 19:54*	*1*
o-Terphenyl	*84*		*70 - 130*	*08/14/24 17:23*	*08/15/24 19:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**419**		4.96	0.392	mg/Kg			08/16/24 02:44	1

Client Sample ID: TT-1 (2')

Lab Sample ID: 880-47252-6
Matrix: Solid
Date Collected: 08/13/24 12:19
Date Received: 08/14/24 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		08/15/24 09:15	08/15/24 14:31	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		08/15/24 09:15	08/15/24 14:31	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		08/15/24 09:15	08/15/24 14:31	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		08/15/24 09:15	08/15/24 14:31	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		08/15/24 09:15	08/15/24 14:31	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		08/15/24 09:15	08/15/24 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*08/15/24 09:15*	*08/15/24 14:31*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*08/15/24 09:15*	*08/15/24 14:31*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Client Sample ID: TT-1 (2')
Date Collected: 08/13/24 12:19
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-6
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			08/15/24 14:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			08/15/24 20:11	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	<14.5	U	49.9	14.5	mg/Kg		08/14/24 17:23	08/15/24 20:11	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		08/14/24 17:23	08/15/24 20:11	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		08/14/24 17:23	08/15/24 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*08/14/24 17:23*	*08/15/24 20:11*	*1*
o-Terphenyl	*83*		*70 - 130*	*08/14/24 17:23*	*08/15/24 20:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**186**		4.95	0.391	mg/Kg			08/16/24 02:51	1

Client Sample ID: TT-1 (3')
Date Collected: 08/13/24 12:22
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		08/15/24 09:15	08/15/24 14:51	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		08/15/24 09:15	08/15/24 14:51	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		08/15/24 09:15	08/15/24 14:51	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		08/15/24 09:15	08/15/24 14:51	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		08/15/24 09:15	08/15/24 14:51	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		08/15/24 09:15	08/15/24 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*08/15/24 09:15*	*08/15/24 14:51*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*08/15/24 09:15*	*08/15/24 14:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			08/15/24 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	<15.1	U	49.8	15.1	mg/Kg			08/15/24 20:28	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	<14.5	U	49.8	14.5	mg/Kg		08/14/24 17:23	08/15/24 20:28	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Client Sample ID: TT-1 (3')
Date Collected: 08/13/24 12:22
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		08/14/24 17:23	08/15/24 20:28	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		08/14/24 17:23	08/15/24 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*189*	*S1+*	*70 - 130*	*08/14/24 17:23*	*08/15/24 20:28*	*1*
o-Terphenyl	*177*	*S1+*	*70 - 130*	*08/14/24 17:23*	*08/15/24 20:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**182**		4.97	0.393	mg/Kg			08/16/24 02:59	1

Client Sample ID: TT-1 (4')
Date Collected: 08/13/24 12:25
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		08/15/24 09:15	08/15/24 15:12	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		08/15/24 09:15	08/15/24 15:12	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		08/15/24 09:15	08/15/24 15:12	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		08/15/24 09:15	08/15/24 15:12	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		08/15/24 09:15	08/15/24 15:12	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		08/15/24 09:15	08/15/24 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*08/15/24 09:15*	*08/15/24 15:12*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*08/15/24 09:15*	*08/15/24 15:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00402	0.00230	mg/Kg			08/15/24 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	**59.6**		50.1	15.1	mg/Kg			08/15/24 20:45	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	<14.5	U	50.1	14.5	mg/Kg		08/14/24 17:23	08/15/24 20:45	1
Diesel Range Organics (Over C10-C28)	**59.6**		50.1	15.1	mg/Kg		08/14/24 17:23	08/15/24 20:45	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.1	15.1	mg/Kg		08/14/24 17:23	08/15/24 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*08/14/24 17:23*	*08/15/24 20:45*	*1*
o-Terphenyl	*87*		*70 - 130*	*08/14/24 17:23*	*08/15/24 20:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**450**		5.05	0.399	mg/Kg			08/16/24 03:06	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Client Sample ID: TT-2 (0-0.5')

Lab Sample ID: 880-47252-9
Matrix: Solid
Date Collected: 08/13/24 12:41
Date Received: 08/14/24 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/15/24 09:15	08/15/24 15:33	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/15/24 09:15	08/15/24 15:33	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		08/15/24 09:15	08/15/24 15:33	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		08/15/24 09:15	08/15/24 15:33	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		08/15/24 09:15	08/15/24 15:33	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		08/15/24 09:15	08/15/24 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*08/15/24 09:15*	*08/15/24 15:33*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*08/15/24 09:15*	*08/15/24 15:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			08/15/24 15:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.3	U	50.4	15.3	mg/Kg			08/15/24 21:02	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	<14.6	U	50.4	14.6	mg/Kg		08/14/24 17:23	08/15/24 21:02	1
Diesel Range Organics (Over C10-C28)	<15.3	U	50.4	15.3	mg/Kg		08/14/24 17:23	08/15/24 21:02	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.4	15.3	mg/Kg		08/14/24 17:23	08/15/24 21:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*08/14/24 17:23*	*08/15/24 21:02*	*1*
o-Terphenyl	*77*		*70 - 130*	*08/14/24 17:23*	*08/15/24 21:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**116**		5.02	0.397	mg/Kg			08/16/24 03:13	1

Client Sample ID: TT-2 (1')

Lab Sample ID: 880-47252-10
Matrix: Solid
Date Collected: 08/13/24 12:43
Date Received: 08/14/24 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/15/24 09:15	08/15/24 15:53	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/15/24 09:15	08/15/24 15:53	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		08/15/24 09:15	08/15/24 15:53	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		08/15/24 09:15	08/15/24 15:53	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		08/15/24 09:15	08/15/24 15:53	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		08/15/24 09:15	08/15/24 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*08/15/24 09:15*	*08/15/24 15:53*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*08/15/24 09:15*	*08/15/24 15:53*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Client Sample ID: TT-2 (1')

Lab Sample ID: 880-47252-10
Matrix: Solid
Date Collected: 08/13/24 12:43
Date Received: 08/14/24 14:20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00400	0.00229	mg/Kg			08/15/24 15:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.2	U	50.4	15.2	mg/Kg			08/15/24 21:19	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	<14.6	U	50.4	14.6	mg/Kg		08/14/24 17:23	08/15/24 21:19	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.4	15.2	mg/Kg		08/14/24 17:23	08/15/24 21:19	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.4	15.2	mg/Kg		08/14/24 17:23	08/15/24 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*08/14/24 17:23*	*08/15/24 21:19*	*1*
o-Terphenyl	*73*		*70 - 130*	*08/14/24 17:23*	*08/15/24 21:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**153**		5.05	0.399	mg/Kg			08/16/24 03:20	1

Client Sample ID: TT-2 (3')

Lab Sample ID: 880-47252-11
Matrix: Solid
Date Collected: 08/13/24 12:47
Date Received: 08/14/24 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		08/15/24 09:15	08/15/24 17:44	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		08/15/24 09:15	08/15/24 17:44	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		08/15/24 09:15	08/15/24 17:44	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		08/15/24 09:15	08/15/24 17:44	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		08/15/24 09:15	08/15/24 17:44	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		08/15/24 09:15	08/15/24 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*08/15/24 09:15*	*08/15/24 17:44*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/15/24 09:15*	*08/15/24 17:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			08/15/24 17:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.7	15.0	mg/Kg			08/15/24 21:51	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	<14.4	U	49.7	14.4	mg/Kg		08/14/24 17:23	08/15/24 21:51	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Client Sample ID: TT-2 (3')
Date Collected: 08/13/24 12:47
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		08/14/24 17:23	08/15/24 21:51	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		08/14/24 17:23	08/15/24 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*08/14/24 17:23*	*08/15/24 21:51*	*1*
o-Terphenyl	*78*		*70 - 130*	*08/14/24 17:23*	*08/15/24 21:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**222**		4.96	0.392	mg/Kg			08/16/24 20:15	1

Client Sample ID: TT-2 (4')
Date Collected: 08/13/24 12:52
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		08/15/24 09:15	08/15/24 18:05	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		08/15/24 09:15	08/15/24 18:05	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		08/15/24 09:15	08/15/24 18:05	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		08/15/24 09:15	08/15/24 18:05	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		08/15/24 09:15	08/15/24 18:05	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		08/15/24 09:15	08/15/24 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*08/15/24 09:15*	*08/15/24 18:05*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*	*08/15/24 09:15*	*08/15/24 18:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			08/15/24 18:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			08/15/24 22:08	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	<14.5	U	49.8	14.5	mg/Kg		08/14/24 17:23	08/15/24 22:08	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		08/14/24 17:23	08/15/24 22:08	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		08/14/24 17:23	08/15/24 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*08/14/24 17:23*	*08/15/24 22:08*	*1*
o-Terphenyl	*74*		*70 - 130*	*08/14/24 17:23*	*08/15/24 22:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**241**		4.96	0.392	mg/Kg			08/16/24 20:35	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Client Sample ID: TT-3 (0-0.5')

Lab Sample ID: 880-47252-13
Matrix: Solid
Date Collected: 08/13/24 13:10
Date Received: 08/14/24 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		08/15/24 09:15	08/15/24 18:26	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		08/15/24 09:15	08/15/24 18:26	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		08/15/24 09:15	08/15/24 18:26	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		08/15/24 09:15	08/15/24 18:26	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		08/15/24 09:15	08/15/24 18:26	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		08/15/24 09:15	08/15/24 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*08/15/24 09:15*	*08/15/24 18:26*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*08/15/24 09:15*	*08/15/24 18:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00402	0.00230	mg/Kg			08/15/24 18:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			08/15/24 22:24	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	<14.5	U	49.9	14.5	mg/Kg		08/14/24 17:23	08/15/24 22:24	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		08/14/24 17:23	08/15/24 22:24	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		08/14/24 17:23	08/15/24 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*08/14/24 17:23*	*08/15/24 22:24*	*1*
o-Terphenyl	*80*		*70 - 130*	*08/14/24 17:23*	*08/15/24 22:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**139**		4.96	0.392	mg/Kg			08/16/24 21:19	1

Client Sample ID: TT-3 (1')

Lab Sample ID: 880-47252-14
Matrix: Solid
Date Collected: 08/13/24 13:11
Date Received: 08/14/24 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		08/15/24 09:15	08/15/24 18:46	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		08/15/24 09:15	08/15/24 18:46	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		08/15/24 09:15	08/15/24 18:46	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		08/15/24 09:15	08/15/24 18:46	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		08/15/24 09:15	08/15/24 18:46	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		08/15/24 09:15	08/15/24 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*08/15/24 09:15*	*08/15/24 18:46*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*08/15/24 09:15*	*08/15/24 18:46*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Client Sample ID: TT-3 (1')
Date Collected: 08/13/24 13:11
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-14
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			08/15/24 18:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.6	15.0	mg/Kg			08/15/24 22:40	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	<14.4	U	49.6	14.4	mg/Kg		08/14/24 17:23	08/15/24 22:40	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.6	15.0	mg/Kg		08/14/24 17:23	08/15/24 22:40	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.6	15.0	mg/Kg		08/14/24 17:23	08/15/24 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*08/14/24 17:23*	*08/15/24 22:40*	*1*
o-Terphenyl	*84*		*70 - 130*	*08/14/24 17:23*	*08/15/24 22:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**185**		5.05	0.399	mg/Kg			08/16/24 21:26	1

Client Sample ID: TT-3 (2')
Date Collected: 08/13/24 13:15
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-15
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/15/24 09:15	08/15/24 19:07	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/15/24 09:15	08/15/24 19:07	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		08/15/24 09:15	08/15/24 19:07	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		08/15/24 09:15	08/15/24 19:07	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		08/15/24 09:15	08/15/24 19:07	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		08/15/24 09:15	08/15/24 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*08/15/24 09:15*	*08/15/24 19:07*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*08/15/24 09:15*	*08/15/24 19:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00400	0.00229	mg/Kg			08/15/24 19:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.2	U	50.2	15.2	mg/Kg			08/15/24 22:56	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	<14.6	U	50.2	14.6	mg/Kg		08/14/24 17:23	08/15/24 22:56	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Client Sample ID: TT-3 (2')
Date Collected: 08/13/24 13:15
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-15
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<15.2	U	50.2	15.2	mg/Kg		08/14/24 17:23	08/15/24 22:56	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.2	15.2	mg/Kg		08/14/24 17:23	08/15/24 22:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*08/14/24 17:23*	*08/15/24 22:56*	*1*
o-Terphenyl	*75*		*70 - 130*	*08/14/24 17:23*	*08/15/24 22:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**137**		4.98	0.393	mg/Kg			08/16/24 21:34	1

Client Sample ID: TT-3 (3')
Date Collected: 08/13/24 13:18
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-16
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		08/15/24 09:15	08/15/24 19:27	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		08/15/24 09:15	08/15/24 19:27	1
Ethylbenzene	**0.00110**	**J**	0.00201	0.00109	mg/Kg		08/15/24 09:15	08/15/24 19:27	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		08/15/24 09:15	08/15/24 19:27	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		08/15/24 09:15	08/15/24 19:27	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		08/15/24 09:15	08/15/24 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*08/15/24 09:15*	*08/15/24 19:27*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*08/15/24 09:15*	*08/15/24 19:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			08/15/24 19:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.3	U	50.4	15.3	mg/Kg			08/15/24 23:12	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	<14.6	U	50.4	14.6	mg/Kg		08/14/24 17:23	08/15/24 23:12	1
Diesel Range Organics (Over C10-C28)	<15.3	U	50.4	15.3	mg/Kg		08/14/24 17:23	08/15/24 23:12	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.4	15.3	mg/Kg		08/14/24 17:23	08/15/24 23:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*08/14/24 17:23*	*08/15/24 23:12*	*1*
o-Terphenyl	*72*		*70 - 130*	*08/14/24 17:23*	*08/15/24 23:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**		5.04	0.398	mg/Kg			08/16/24 21:56	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Client Sample ID: TT-3 (4')

Lab Sample ID: 880-47252-17
Matrix: Solid
Date Collected: 08/13/24 13:22
Date Received: 08/14/24 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/15/24 09:15	08/15/24 19:48	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/15/24 09:15	08/15/24 19:48	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		08/15/24 09:15	08/15/24 19:48	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		08/15/24 09:15	08/15/24 19:48	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		08/15/24 09:15	08/15/24 19:48	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		08/15/24 09:15	08/15/24 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*08/15/24 09:15*	*08/15/24 19:48*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*08/15/24 09:15*	*08/15/24 19:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			08/15/24 19:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.3	U	50.5	15.3	mg/Kg			08/15/24 23:28	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	<14.7	U	50.5	14.7	mg/Kg		08/14/24 17:23	08/15/24 23:28	1
Diesel Range Organics (Over C10-C28)	<15.3	U	50.5	15.3	mg/Kg		08/14/24 17:23	08/15/24 23:28	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.5	15.3	mg/Kg		08/14/24 17:23	08/15/24 23:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*08/14/24 17:23*	*08/15/24 23:28*	*1*
o-Terphenyl	*79*		*70 - 130*	*08/14/24 17:23*	*08/15/24 23:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**119**		4.99	0.394	mg/Kg			08/16/24 22:03	1

Client Sample ID: TT-4 (0-0.5')

Lab Sample ID: 880-47252-18
Matrix: Solid
Date Collected: 08/12/24 12:20
Date Received: 08/14/24 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		08/15/24 09:15	08/15/24 20:09	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		08/15/24 09:15	08/15/24 20:09	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		08/15/24 09:15	08/15/24 20:09	1
m-Xylene & p-Xylene	**0.00411**		0.00398	0.00227	mg/Kg		08/15/24 09:15	08/15/24 20:09	1
o-Xylene	**0.00198**	**J**	0.00199	0.00157	mg/Kg		08/15/24 09:15	08/15/24 20:09	1
Xylenes, Total	**0.00609**		0.00398	0.00227	mg/Kg		08/15/24 09:15	08/15/24 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*08/15/24 09:15*	*08/15/24 20:09*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*08/15/24 09:15*	*08/15/24 20:09*	*1*

Eurofins Midland

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Client Sample ID: TT-4 (0-0.5')

Lab Sample ID: 880-47252-18
Matrix: Solid
Date Collected: 08/12/24 12:20
Date Received: 08/14/24 14:20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00609**		0.00398	0.00227	mg/Kg			08/15/24 20:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**38.5**	**J**	49.7	15.0	mg/Kg			08/15/24 23:44	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	<14.4	U	49.7	14.4	mg/Kg		08/14/24 17:23	08/15/24 23:44	1
Diesel Range Organics (Over C10-C28)	**38.5**	**J**	49.7	15.0	mg/Kg		08/14/24 17:23	08/15/24 23:44	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		08/14/24 17:23	08/15/24 23:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*08/14/24 17:23*	*08/15/24 23:44*	*1*
o-Terphenyl	*95*		*70 - 130*	*08/14/24 17:23*	*08/15/24 23:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**811**		25.3	1.99	mg/Kg			08/16/24 22:11	5

Client Sample ID: TT-4 (1')

Lab Sample ID: 880-47252-19
Matrix: Solid
Date Collected: 08/12/24 12:22
Date Received: 08/14/24 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		08/15/24 09:15	08/15/24 20:29	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		08/15/24 09:15	08/15/24 20:29	1
Ethylbenzene	**0.00165**	**J**	0.00201	0.00110	mg/Kg		08/15/24 09:15	08/15/24 20:29	1
m-Xylene & p-Xylene	**0.00546**		0.00402	0.00230	mg/Kg		08/15/24 09:15	08/15/24 20:29	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		08/15/24 09:15	08/15/24 20:29	1
Xylenes, Total	**0.00546**		0.00402	0.00230	mg/Kg		08/15/24 09:15	08/15/24 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*08/15/24 09:15*	*08/15/24 20:29*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*08/15/24 09:15*	*08/15/24 20:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00711**		0.00402	0.00230	mg/Kg			08/15/24 20:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**93.7**		50.0	15.1	mg/Kg			08/16/24 00:01	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	<14.5	U	50.0	14.5	mg/Kg		08/14/24 17:23	08/16/24 00:01	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Client Sample ID: TT-4 (1')
Date Collected: 08/12/24 12:22
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-19
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	93.7		50.0	15.1	mg/Kg		08/14/24 17:23	08/16/24 00:01	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		08/14/24 17:23	08/16/24 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*155*	*S1+*	*70 - 130*	*08/14/24 17:23*	*08/16/24 00:01*	*1*
o-Terphenyl	*142*	*S1+*	*70 - 130*	*08/14/24 17:23*	*08/16/24 00:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	745		5.05	0.399	mg/Kg			08/16/24 22:18	1

Client Sample ID: TT-4 (2')
Date Collected: 08/12/24 12:25
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-20
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/15/24 09:15	08/15/24 20:50	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/15/24 09:15	08/15/24 20:50	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		08/15/24 09:15	08/15/24 20:50	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		08/15/24 09:15	08/15/24 20:50	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		08/15/24 09:15	08/15/24 20:50	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		08/15/24 09:15	08/15/24 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*08/15/24 09:15*	*08/15/24 20:50*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*08/15/24 09:15*	*08/15/24 20:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			08/15/24 20:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.6	15.0	mg/Kg			08/16/24 00:16	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	<14.4	U	49.6	14.4	mg/Kg		08/14/24 17:23	08/16/24 00:16	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.6	15.0	mg/Kg		08/14/24 17:23	08/16/24 00:16	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.6	15.0	mg/Kg		08/14/24 17:23	08/16/24 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*08/14/24 17:23*	*08/16/24 00:16*	*1*
o-Terphenyl	*86*		*70 - 130*	*08/14/24 17:23*	*08/16/24 00:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	309		5.05	0.399	mg/Kg			08/16/24 22:25	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Client Sample ID: TT-4 (4')

Date Collected: 08/12/24 14:21
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-21

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/15/24 09:19	08/15/24 23:59	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/15/24 09:19	08/15/24 23:59	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		08/15/24 09:19	08/15/24 23:59	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		08/15/24 09:19	08/15/24 23:59	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		08/15/24 09:19	08/15/24 23:59	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		08/15/24 09:19	08/15/24 23:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*08/15/24 09:19*	*08/15/24 23:59*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/15/24 09:19*	*08/15/24 23:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			08/15/24 23:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			08/14/24 18:09	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	<14.5	U	49.9	14.5	mg/Kg		08/14/24 17:21	08/14/24 18:09	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		08/14/24 17:21	08/14/24 18:09	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		08/14/24 17:21	08/14/24 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*08/14/24 17:21*	*08/14/24 18:09*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*08/14/24 17:21*	*08/14/24 18:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**101**	**F1**	4.96	0.392	mg/Kg			08/16/24 22:33	1

Client Sample ID: TT-2 (2')

Date Collected: 08/13/24 00:00
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-25

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/15/24 11:24	08/16/24 06:46	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/15/24 11:24	08/16/24 06:46	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		08/15/24 11:24	08/16/24 06:46	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		08/15/24 11:24	08/16/24 06:46	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		08/15/24 11:24	08/16/24 06:46	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		08/15/24 11:24	08/16/24 06:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*08/15/24 11:24*	*08/16/24 06:46*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*08/15/24 11:24*	*08/16/24 06:46*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Client Sample ID: TT-2 (2')

Lab Sample ID: 880-47252-25
Matrix: Solid
Date Collected: 08/13/24 00:00
Date Received: 08/14/24 14:20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			08/16/24 06:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.6	15.0	mg/Kg			08/14/24 19:33	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	<14.4	U	49.6	14.4	mg/Kg		08/14/24 17:21	08/14/24 19:33	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.6	15.0	mg/Kg		08/14/24 17:21	08/14/24 19:33	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.6	15.0	mg/Kg		08/14/24 17:21	08/14/24 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*08/14/24 17:21*	*08/14/24 19:33*	*1*
o-Terphenyl	*77*		*70 - 130*	*08/14/24 17:21*	*08/14/24 19:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**159**		4.98	0.393	mg/Kg			08/16/24 23:32	1

Client Sample ID: TT-4 (3')

Lab Sample ID: 880-47259-21
Matrix: Solid
Date Collected: 08/12/24 12:27
Date Received: 08/14/24 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/15/24 10:18	08/16/24 00:31	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/15/24 10:18	08/16/24 00:31	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		08/15/24 10:18	08/16/24 00:31	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		08/15/24 10:18	08/16/24 00:31	1
o-Xylene	**0.0893**		0.00200	0.00158	mg/Kg		08/15/24 10:18	08/16/24 00:31	1
Xylenes, Total	**0.0893**		0.00399	0.00228	mg/Kg		08/15/24 10:18	08/16/24 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*08/15/24 10:18*	*08/16/24 00:31*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*08/15/24 10:18*	*08/16/24 00:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0893**		0.00399	0.00228	mg/Kg			08/16/24 00:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**17.4**	**J**	49.7	15.0	mg/Kg			08/14/24 19:50	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	<14.4	U	49.7	14.4	mg/Kg		08/14/24 17:21	08/14/24 19:50	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Client Sample ID: TT-4 (3')

Date Collected: 08/12/24 12:27
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47259-21

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	**17.4**	**J**	49.7	15.0	mg/Kg		08/14/24 17:21	08/14/24 19:50	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		08/14/24 17:21	08/14/24 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*08/14/24 17:21*	*08/14/24 19:50*	*1*
o-Terphenyl	*73*		*70 - 130*	*08/14/24 17:21*	*08/14/24 19:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**192**		5.02	0.397	mg/Kg			08/17/24 04:23	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

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)
880-47252-1	H-5 (0-1')	89	117
880-47252-1 MS	H-5 (0-1')	100	100
880-47252-1 MSD	H-5 (0-1')	95	102
880-47252-2	H-6 (0-1')	99	116
880-47252-3	H-7 (0-1')	111	126
880-47252-4	TT-1 (0-0.5')	106	115
880-47252-5	TT-1 (1')	99	115
880-47252-6	TT-1 (2')	105	108
880-47252-7	TT-1 (3')	99	107
880-47252-8	TT-1 (4')	101	109
880-47252-9	TT-2 (0-0.5')	107	113
880-47252-10	TT-2 (1')	100	112
880-47252-11	TT-2 (3')	83	106
880-47252-12	TT-2 (4')	116	121
880-47252-13	TT-3 (0-0.5')	99	110
880-47252-14	TT-3 (1')	108	109
880-47252-15	TT-3 (2')	98	112
880-47252-16	TT-3 (3')	103	114
880-47252-17	TT-3 (4')	105	115
880-47252-18	TT-4 (0-0.5')	95	120
880-47252-19	TT-4 (1')	99	109
880-47252-20	TT-4 (2')	103	111
880-47252-21	TT-4 (4')	111	97
880-47252-21 MS	TT-4 (4')	107	99
880-47252-21 MSD	TT-4 (4')	107	99
880-47252-25	TT-2 (2')	118	103
880-47259-21	TT-4 (3')	125	118
LCS 880-88479/1-A	Lab Control Sample	94	103
LCS 880-88481/1-A	Lab Control Sample	102	98
LCSD 880-88479/2-A	Lab Control Sample Dup	93	102
LCSD 880-88481/2-A	Lab Control Sample Dup	101	98
MB 880-88470/8	Method Blank	106	90
MB 880-88479/5-A	Method Blank	125	98
MB 880-88481/5-A	Method Blank	108	91

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)
880-47215-A-1-H MS	Matrix Spike	88	87
880-47215-A-1-I MSD	Matrix Spike Duplicate	87	83
880-47252-1	H-5 (0-1')	84	78
880-47252-1 MS	H-5 (0-1')	72	79

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
880-47252-1 MSD	H-5 (0-1')	73	80								
880-47252-2	H-6 (0-1')	92	84								
880-47252-3	H-7 (0-1')	95	87								
880-47252-4	TT-1 (0-0.5')	91	84								
880-47252-5	TT-1 (1')	91	84								
880-47252-6	TT-1 (2')	90	83								
880-47252-7	TT-1 (3')	189 S1+	177 S1+								
880-47252-8	TT-1 (4')	94	87								
880-47252-9	TT-2 (0-0.5')	86	77								
880-47252-10	TT-2 (1')	80	73								
880-47252-11	TT-2 (3')	86	78								
880-47252-12	TT-2 (4')	82	74								
880-47252-13	TT-3 (0-0.5')	85	80								
880-47252-14	TT-3 (1')	92	84								
880-47252-15	TT-3 (2')	83	75								
880-47252-16	TT-3 (3')	80	72								
880-47252-17	TT-3 (4')	88	79								
880-47252-18	TT-4 (0-0.5')	106	95								
880-47252-19	TT-4 (1')	155 S1+	142 S1+								
880-47252-20	TT-4 (2')	92	86								
880-47252-21	TT-4 (4')	80	69 S1-								
880-47252-25	TT-2 (2')	88	77								
880-47259-21	TT-4 (3')	84	73								
LCS 880-88397/2-A	Lab Control Sample	104	103								
LCS 880-88454/2-A	Lab Control Sample	109	112								
LCSD 880-88397/3-A	Lab Control Sample Dup	133 S1+	104								
LCSD 880-88454/3-A	Lab Control Sample Dup	112	115								
MB 880-88397/1-A	Method Blank	118	105								
MB 880-88454/1-A	Method Blank	131 S1+	118								

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-88470/8
Matrix: Solid
Analysis Batch: 88470

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg			08/15/24 11:36	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg			08/15/24 11:36	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg			08/15/24 11:36	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg			08/15/24 11:36	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg			08/15/24 11:36	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg			08/15/24 11:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*08/15/24 11:36*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*		*08/15/24 11:36*	*1*

Lab Sample ID: MB 880-88479/5-A
Matrix: Solid
Analysis Batch: 88473

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88479

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/15/24 09:15	08/15/24 12:19	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/15/24 09:15	08/15/24 12:19	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		08/15/24 09:15	08/15/24 12:19	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		08/15/24 09:15	08/15/24 12:19	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		08/15/24 09:15	08/15/24 12:19	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		08/15/24 09:15	08/15/24 12:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*08/15/24 09:15*	*08/15/24 12:19*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/15/24 09:15*	*08/15/24 12:19*	*1*

Lab Sample ID: LCS 880-88479/1-A
Matrix: Solid
Analysis Batch: 88473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88479

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1196		mg/Kg		120	70 - 130
Toluene	0.100	0.1211		mg/Kg		121	70 - 130
Ethylbenzene	0.100	0.1060		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.2310		mg/Kg		116	70 - 130
o-Xylene	0.100	0.1279		mg/Kg		128	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

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

Lab Sample ID: LCSD 880-88479/2-A
Matrix: Solid
Analysis Batch: 88473

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88479

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1213		mg/Kg		121	70 - 130	1	35
Toluene			0.100	0.1255		mg/Kg		125	70 - 130	4	35
Ethylbenzene			0.100	0.1170		mg/Kg		117	70 - 130	10	35
m-Xylene & p-Xylene			0.200	0.2341		mg/Kg		117	70 - 130	1	35
o-Xylene			0.100	0.1272		mg/Kg		127	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 880-47252-1 MS
Matrix: Solid
Analysis Batch: 88473

Client Sample ID: H-5 (0-1')
Prep Type: Total/NA
Prep Batch: 88479

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00140	U	0.100	0.1184		mg/Kg		118	70 - 130
Toluene	<0.00201	U	0.100	0.1158		mg/Kg		116	70 - 130
Ethylbenzene	<0.00109	U	0.100	0.1045		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	<0.00229	U	0.200	0.2102		mg/Kg		105	70 - 130
o-Xylene	<0.00159	U F1	0.100	0.1305	F1	mg/Kg		131	70 - 130

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

Lab Sample ID: 880-47252-1 MSD
Matrix: Solid
Analysis Batch: 88473

Client Sample ID: H-5 (0-1')
Prep Type: Total/NA
Prep Batch: 88479

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00140	U	0.100	0.1190		mg/Kg		119	70 - 130	0	35
Toluene	<0.00201	U	0.100	0.1145		mg/Kg		115	70 - 130	1	35
Ethylbenzene	<0.00109	U	0.100	0.1047		mg/Kg		105	70 - 130	0	35
m-Xylene & p-Xylene	<0.00229	U	0.200	0.2190		mg/Kg		109	70 - 130	4	35
o-Xylene	<0.00159	U F1	0.100	0.1214		mg/Kg		121	70 - 130	7	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 880-88481/5-A
Matrix: Solid
Analysis Batch: 88470

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88481

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		08/15/24 09:19	08/15/24 23:37	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		08/15/24 09:19	08/15/24 23:37	1

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

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

Lab Sample ID: MB 880-88481/5-A
Matrix: Solid
Analysis Batch: 88470

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88481

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		08/15/24 09:19	08/15/24 23:37	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		08/15/24 09:19	08/15/24 23:37	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		08/15/24 09:19	08/15/24 23:37	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		08/15/24 09:19	08/15/24 23:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*08/15/24 09:19*	*08/15/24 23:37*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*08/15/24 09:19*	*08/15/24 23:37*	*1*

Lab Sample ID: LCS 880-88481/1-A
Matrix: Solid
Analysis Batch: 88470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88481

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1148		mg/Kg		115	70 - 130
Toluene	0.100	0.1024		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.1041		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.2199		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1094		mg/Kg		109	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-88481/2-A
Matrix: Solid
Analysis Batch: 88470

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88481

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1200		mg/Kg		120	70 - 130	4	35
Toluene	0.100	0.1072		mg/Kg		107	70 - 130	5	35
Ethylbenzene	0.100	0.1097		mg/Kg		110	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2312		mg/Kg		116	70 - 130	5	35
o-Xylene	0.100	0.1143		mg/Kg		114	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-47252-21 MS
Matrix: Solid
Analysis Batch: 88470

Client Sample ID: TT-4 (4')
Prep Type: Total/NA
Prep Batch: 88481

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00139	U	0.100	0.1117		mg/Kg		112	70 - 130
Toluene	<0.00200	U	0.100	0.09878		mg/Kg		99	70 - 130
Ethylbenzene	<0.00109	U	0.100	0.09991		mg/Kg		100	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

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

Lab Sample ID: 880-47252-21 MS
Matrix: Solid
Analysis Batch: 88470

Client Sample ID: TT-4 (4')
Prep Type: Total/NA
Prep Batch: 88481

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
m-Xylene & p-Xylene	<0.00228	U	0.200	0.2101		mg/Kg		105	70 - 130
o-Xylene	<0.00158	U	0.100	0.1034		mg/Kg		103	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 880-47252-21 MSD
Matrix: Solid
Analysis Batch: 88470

Client Sample ID: TT-4 (4')
Prep Type: Total/NA
Prep Batch: 88481

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00139	U	0.100	0.1121		mg/Kg		112	70 - 130	0	35
Toluene	<0.00200	U	0.100	0.09886		mg/Kg		99	70 - 130	0	35
Ethylbenzene	<0.00109	U	0.100	0.09921		mg/Kg		99	70 - 130	1	35
m-Xylene & p-Xylene	<0.00228	U	0.200	0.2097		mg/Kg		105	70 - 130	0	35
o-Xylene	<0.00158	U	0.100	0.1036		mg/Kg		104	70 - 130	0	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

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

Lab Sample ID: MB 880-88397/1-A
Matrix: Solid
Analysis Batch: 88413

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88397

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		08/14/24 08:05	08/14/24 08:46	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		08/14/24 08:05	08/14/24 08:46	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		08/14/24 08:05	08/14/24 08:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*08/14/24 08:05*	*08/14/24 08:46*	*1*
o-Terphenyl	*105*		*70 - 130*	*08/14/24 08:05*	*08/14/24 08:46*	*1*

Lab Sample ID: LCS 880-88397/2-A
Matrix: Solid
Analysis Batch: 88413

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88397

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1107		mg/Kg		111	70 - 130
Diesel Range Organics (Over C10-C28)	1000	979.1		mg/Kg		98	70 - 130

Eurofins Midland

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

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

Lab Sample ID: LCS 880-88397/2-A
Matrix: Solid
Analysis Batch: 88413

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88397

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: LCSD 880-88397/3-A
Matrix: Solid
Analysis Batch: 88413

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88397

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1123		mg/Kg		112	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	896.4		mg/Kg		90	70 - 130	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	133	S1+	70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 880-47215-A-1-H MS
Matrix: Solid
Analysis Batch: 88413

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 88397

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<14.6	U	1000	961.7		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	<15.3	U	1000	857.4		mg/Kg		85	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: 880-47215-A-1-I MSD
Matrix: Solid
Analysis Batch: 88413

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 88397

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	<14.6	U	1000	952.9		mg/Kg		95	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<15.3	U	1000	827.5		mg/Kg		82	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	83		70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

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

Lab Sample ID: MB 880-88454/1-A
Matrix: Solid
Analysis Batch: 88506

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88454

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		08/14/24 17:23	08/15/24 06:18	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		08/14/24 17:23	08/15/24 06:18	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		08/14/24 17:23	08/15/24 06:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*08/14/24 17:23*	*08/15/24 06:18*	*1*
o-Terphenyl	*118*		*70 - 130*	*08/14/24 17:23*	*08/15/24 06:18*	*1*

Lab Sample ID: LCS 880-88454/2-A
Matrix: Solid
Analysis Batch: 88506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88454

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1120		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1046		mg/Kg		105	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*109*		*70 - 130*
o-Terphenyl	*112*		*70 - 130*

Lab Sample ID: LCSD 880-88454/3-A
Matrix: Solid
Analysis Batch: 88506

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88454

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1174		mg/Kg		117	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	1053		mg/Kg		105	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*112*		*70 - 130*
o-Terphenyl	*115*		*70 - 130*

Lab Sample ID: 880-47252-1 MS
Matrix: Solid
Analysis Batch: 88506

Client Sample ID: H-5 (0-1')
Prep Type: Total/NA
Prep Batch: 88454

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<14.6	U	995	1060		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	<15.2	U	995	981.0		mg/Kg		99	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

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

Lab Sample ID: 880-47252-1 MS
Matrix: Solid
Analysis Batch: 88506

Client Sample ID: H-5 (0-1')
Prep Type: Total/NA
Prep Batch: 88454

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	72		70 - 130
o-Terphenyl	79		70 - 130

Lab Sample ID: 880-47252-1 MSD
Matrix: Solid
Analysis Batch: 88506

Client Sample ID: H-5 (0-1')
Prep Type: Total/NA
Prep Batch: 88454

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	<14.6	U	995	1092		mg/Kg		110	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<15.2	U	995	1010		mg/Kg		102	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	73		70 - 130
o-Terphenyl	80		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-88480/1-A
Matrix: Solid
Analysis Batch: 88495

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			08/15/24 23:41	1

Lab Sample ID: LCS 880-88480/2-A
Matrix: Solid
Analysis Batch: 88495

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	252.4		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-88480/3-A
Matrix: Solid
Analysis Batch: 88495

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	255.1		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 880-47252-1 MS
Matrix: Solid
Analysis Batch: 88495

Client Sample ID: H-5 (0-1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	184		249	423.8		mg/Kg		96	90 - 110

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-47252-1 MSD
Matrix: Solid
Analysis Batch: 88495

Client Sample ID: H-5 (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	184		249	423.1		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-47252-11 MS
Matrix: Solid
Analysis Batch: 88530

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	222		248	475.9		mg/Kg		102	90 - 110

Lab Sample ID: 880-47252-11 MSD
Matrix: Solid
Analysis Batch: 88530

Client Sample ID: TT-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	222		248	478.7		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 880-47252-21 MS
Matrix: Solid
Analysis Batch: 88530

Client Sample ID: TT-4 (4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	101	F1	248	320.4	F1	mg/Kg		88	90 - 110

Lab Sample ID: 880-47252-21 MSD
Matrix: Solid
Analysis Batch: 88530

Client Sample ID: TT-4 (4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	101	F1	248	320.2	F1	mg/Kg		88	90 - 110	0	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

GC VOA

Analysis Batch: 88470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47252-21	TT-4 (4')	Total/NA	Solid	8021B	88481
MB 880-88470/8	Method Blank	Total/NA	Solid	8021B	
MB 880-88481/5-A	Method Blank	Total/NA	Solid	8021B	88481
LCS 880-88481/1-A	Lab Control Sample	Total/NA	Solid	8021B	88481
LCSD 880-88481/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	88481
880-47252-21 MS	TT-4 (4')	Total/NA	Solid	8021B	88481
880-47252-21 MSD	TT-4 (4')	Total/NA	Solid	8021B	88481

Analysis Batch: 88471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47252-25	TT-2 (2')	Total/NA	Solid	8021B	88510

Analysis Batch: 88473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47252-1	H-5 (0-1')	Total/NA	Solid	8021B	88479
880-47252-2	H-6 (0-1')	Total/NA	Solid	8021B	88479
880-47252-3	H-7 (0-1')	Total/NA	Solid	8021B	88479
880-47252-4	TT-1 (0-0.5')	Total/NA	Solid	8021B	88479
880-47252-5	TT-1 (1')	Total/NA	Solid	8021B	88479
880-47252-6	TT-1 (2')	Total/NA	Solid	8021B	88479
880-47252-7	TT-1 (3')	Total/NA	Solid	8021B	88479
880-47252-8	TT-1 (4')	Total/NA	Solid	8021B	88479
880-47252-9	TT-2 (0-0.5')	Total/NA	Solid	8021B	88479
880-47252-10	TT-2 (1')	Total/NA	Solid	8021B	88479
880-47252-11	TT-2 (3')	Total/NA	Solid	8021B	88479
880-47252-12	TT-2 (4')	Total/NA	Solid	8021B	88479
880-47252-13	TT-3 (0-0.5')	Total/NA	Solid	8021B	88479
880-47252-14	TT-3 (1')	Total/NA	Solid	8021B	88479
880-47252-15	TT-3 (2')	Total/NA	Solid	8021B	88479
880-47252-16	TT-3 (3')	Total/NA	Solid	8021B	88479
880-47252-17	TT-3 (4')	Total/NA	Solid	8021B	88479
880-47252-18	TT-4 (0-0.5')	Total/NA	Solid	8021B	88479
880-47252-19	TT-4 (1')	Total/NA	Solid	8021B	88479
880-47252-20	TT-4 (2')	Total/NA	Solid	8021B	88479
MB 880-88479/5-A	Method Blank	Total/NA	Solid	8021B	88479
LCS 880-88479/1-A	Lab Control Sample	Total/NA	Solid	8021B	88479
LCSD 880-88479/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	88479
880-47252-1 MS	H-5 (0-1')	Total/NA	Solid	8021B	88479
880-47252-1 MSD	H-5 (0-1')	Total/NA	Solid	8021B	88479

Analysis Batch: 88475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47259-21	TT-4 (3')	Total/NA	Solid	8021B	88489

Prep Batch: 88479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47252-1	H-5 (0-1')	Total/NA	Solid	5035	
880-47252-2	H-6 (0-1')	Total/NA	Solid	5035	
880-47252-3	H-7 (0-1')	Total/NA	Solid	5035	
880-47252-4	TT-1 (0-0.5')	Total/NA	Solid	5035	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

GC VOA (Continued)

Prep Batch: 88479 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47252-5	TT-1 (1')	Total/NA	Solid	5035	
880-47252-6	TT-1 (2')	Total/NA	Solid	5035	
880-47252-7	TT-1 (3')	Total/NA	Solid	5035	
880-47252-8	TT-1 (4')	Total/NA	Solid	5035	
880-47252-9	TT-2 (0-0.5')	Total/NA	Solid	5035	
880-47252-10	TT-2 (1')	Total/NA	Solid	5035	
880-47252-11	TT-2 (3')	Total/NA	Solid	5035	
880-47252-12	TT-2 (4')	Total/NA	Solid	5035	
880-47252-13	TT-3 (0-0.5')	Total/NA	Solid	5035	
880-47252-14	TT-3 (1')	Total/NA	Solid	5035	
880-47252-15	TT-3 (2')	Total/NA	Solid	5035	
880-47252-16	TT-3 (3')	Total/NA	Solid	5035	
880-47252-17	TT-3 (4')	Total/NA	Solid	5035	
880-47252-18	TT-4 (0-0.5')	Total/NA	Solid	5035	
880-47252-19	TT-4 (1')	Total/NA	Solid	5035	
880-47252-20	TT-4 (2')	Total/NA	Solid	5035	
MB 880-88479/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-88479/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-88479/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-47252-1 MS	H-5 (0-1')	Total/NA	Solid	5035	
880-47252-1 MSD	H-5 (0-1')	Total/NA	Solid	5035	

Prep Batch: 88481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47252-21	TT-4 (4')	Total/NA	Solid	5035	
MB 880-88481/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-88481/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-88481/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-47252-21 MS	TT-4 (4')	Total/NA	Solid	5035	
880-47252-21 MSD	TT-4 (4')	Total/NA	Solid	5035	

Prep Batch: 88489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47259-21	TT-4 (3')	Total/NA	Solid	5035	

Prep Batch: 88510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47252-25	TT-2 (2')	Total/NA	Solid	5035	

Analysis Batch: 88606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47252-1	H-5 (0-1')	Total/NA	Solid	Total BTEX	
880-47252-2	H-6 (0-1')	Total/NA	Solid	Total BTEX	
880-47252-3	H-7 (0-1')	Total/NA	Solid	Total BTEX	
880-47252-4	TT-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-47252-5	TT-1 (1')	Total/NA	Solid	Total BTEX	
880-47252-6	TT-1 (2')	Total/NA	Solid	Total BTEX	
880-47252-7	TT-1 (3')	Total/NA	Solid	Total BTEX	
880-47252-8	TT-1 (4')	Total/NA	Solid	Total BTEX	
880-47252-9	TT-2 (0-0.5')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

GC VOA (Continued)

Analysis Batch: 88606 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47252-10	TT-2 (1')	Total/NA	Solid	Total BTEX	
880-47252-11	TT-2 (3')	Total/NA	Solid	Total BTEX	
880-47252-12	TT-2 (4')	Total/NA	Solid	Total BTEX	
880-47252-13	TT-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-47252-14	TT-3 (1')	Total/NA	Solid	Total BTEX	
880-47252-15	TT-3 (2')	Total/NA	Solid	Total BTEX	
880-47252-16	TT-3 (3')	Total/NA	Solid	Total BTEX	
880-47252-17	TT-3 (4')	Total/NA	Solid	Total BTEX	
880-47252-18	TT-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-47252-19	TT-4 (1')	Total/NA	Solid	Total BTEX	
880-47252-20	TT-4 (2')	Total/NA	Solid	Total BTEX	
880-47252-21	TT-4 (4')	Total/NA	Solid	Total BTEX	
880-47252-25	TT-2 (2')	Total/NA	Solid	Total BTEX	

Analysis Batch: 88616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47259-21	TT-4 (3')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 88397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47252-21	TT-4 (4')	Total/NA	Solid	8015NM Prep	
880-47252-25	TT-2 (2')	Total/NA	Solid	8015NM Prep	
880-47259-21	TT-4 (3')	Total/NA	Solid	8015NM Prep	
MB 880-88397/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-88397/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-88397/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-47215-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-47215-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 88413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47252-21	TT-4 (4')	Total/NA	Solid	8015B NM	88397
880-47252-25	TT-2 (2')	Total/NA	Solid	8015B NM	88397
880-47259-21	TT-4 (3')	Total/NA	Solid	8015B NM	88397
MB 880-88397/1-A	Method Blank	Total/NA	Solid	8015B NM	88397
LCS 880-88397/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	88397
LCSD 880-88397/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	88397
880-47215-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	88397
880-47215-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	88397

Prep Batch: 88454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47252-1	H-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-47252-2	H-6 (0-1')	Total/NA	Solid	8015NM Prep	
880-47252-3	H-7 (0-1')	Total/NA	Solid	8015NM Prep	
880-47252-4	TT-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-47252-5	TT-1 (1')	Total/NA	Solid	8015NM Prep	
880-47252-6	TT-1 (2')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

GC Semi VOA (Continued)

Prep Batch: 88454 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47252-7	TT-1 (3')	Total/NA	Solid	8015NM Prep	
880-47252-8	TT-1 (4')	Total/NA	Solid	8015NM Prep	
880-47252-9	TT-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-47252-10	TT-2 (1')	Total/NA	Solid	8015NM Prep	
880-47252-11	TT-2 (3')	Total/NA	Solid	8015NM Prep	
880-47252-12	TT-2 (4')	Total/NA	Solid	8015NM Prep	
880-47252-13	TT-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-47252-14	TT-3 (1')	Total/NA	Solid	8015NM Prep	
880-47252-15	TT-3 (2')	Total/NA	Solid	8015NM Prep	
880-47252-16	TT-3 (3')	Total/NA	Solid	8015NM Prep	
880-47252-17	TT-3 (4')	Total/NA	Solid	8015NM Prep	
880-47252-18	TT-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-47252-19	TT-4 (1')	Total/NA	Solid	8015NM Prep	
880-47252-20	TT-4 (2')	Total/NA	Solid	8015NM Prep	
MB 880-88454/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-88454/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-88454/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-47252-1 MS	H-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-47252-1 MSD	H-5 (0-1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 88506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47252-1	H-5 (0-1')	Total/NA	Solid	8015B NM	88454
880-47252-2	H-6 (0-1')	Total/NA	Solid	8015B NM	88454
880-47252-3	H-7 (0-1')	Total/NA	Solid	8015B NM	88454
880-47252-4	TT-1 (0-0.5')	Total/NA	Solid	8015B NM	88454
880-47252-5	TT-1 (1')	Total/NA	Solid	8015B NM	88454
880-47252-6	TT-1 (2')	Total/NA	Solid	8015B NM	88454
880-47252-7	TT-1 (3')	Total/NA	Solid	8015B NM	88454
880-47252-8	TT-1 (4')	Total/NA	Solid	8015B NM	88454
880-47252-9	TT-2 (0-0.5')	Total/NA	Solid	8015B NM	88454
880-47252-10	TT-2 (1')	Total/NA	Solid	8015B NM	88454
880-47252-11	TT-2 (3')	Total/NA	Solid	8015B NM	88454
880-47252-12	TT-2 (4')	Total/NA	Solid	8015B NM	88454
880-47252-13	TT-3 (0-0.5')	Total/NA	Solid	8015B NM	88454
880-47252-14	TT-3 (1')	Total/NA	Solid	8015B NM	88454
880-47252-15	TT-3 (2')	Total/NA	Solid	8015B NM	88454
880-47252-16	TT-3 (3')	Total/NA	Solid	8015B NM	88454
880-47252-17	TT-3 (4')	Total/NA	Solid	8015B NM	88454
880-47252-18	TT-4 (0-0.5')	Total/NA	Solid	8015B NM	88454
880-47252-19	TT-4 (1')	Total/NA	Solid	8015B NM	88454
880-47252-20	TT-4 (2')	Total/NA	Solid	8015B NM	88454
MB 880-88454/1-A	Method Blank	Total/NA	Solid	8015B NM	88454
LCS 880-88454/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	88454
LCSD 880-88454/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	88454
880-47252-1 MS	H-5 (0-1')	Total/NA	Solid	8015B NM	88454
880-47252-1 MSD	H-5 (0-1')	Total/NA	Solid	8015B NM	88454

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

GC Semi VOA

Analysis Batch: 88523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47252-1	H-5 (0-1')	Total/NA	Solid	8015 NM	
880-47252-2	H-6 (0-1')	Total/NA	Solid	8015 NM	
880-47252-3	H-7 (0-1')	Total/NA	Solid	8015 NM	
880-47252-4	TT-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-47252-5	TT-1 (1')	Total/NA	Solid	8015 NM	
880-47252-6	TT-1 (2')	Total/NA	Solid	8015 NM	
880-47252-7	TT-1 (3')	Total/NA	Solid	8015 NM	
880-47252-8	TT-1 (4')	Total/NA	Solid	8015 NM	
880-47252-9	TT-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-47252-10	TT-2 (1')	Total/NA	Solid	8015 NM	
880-47252-11	TT-2 (3')	Total/NA	Solid	8015 NM	
880-47252-12	TT-2 (4')	Total/NA	Solid	8015 NM	
880-47252-13	TT-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-47252-14	TT-3 (1')	Total/NA	Solid	8015 NM	
880-47252-15	TT-3 (2')	Total/NA	Solid	8015 NM	
880-47252-16	TT-3 (3')	Total/NA	Solid	8015 NM	
880-47252-17	TT-3 (4')	Total/NA	Solid	8015 NM	
880-47252-18	TT-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-47252-19	TT-4 (1')	Total/NA	Solid	8015 NM	
880-47252-20	TT-4 (2')	Total/NA	Solid	8015 NM	
880-47252-21	TT-4 (4')	Total/NA	Solid	8015 NM	
880-47252-25	TT-2 (2')	Total/NA	Solid	8015 NM	

Analysis Batch: 88524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47259-21	TT-4 (3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 88480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47252-1	H-5 (0-1')	Soluble	Solid	DI Leach	
880-47252-2	H-6 (0-1')	Soluble	Solid	DI Leach	
880-47252-3	H-7 (0-1')	Soluble	Solid	DI Leach	
880-47252-4	TT-1 (0-0.5')	Soluble	Solid	DI Leach	
880-47252-5	TT-1 (1')	Soluble	Solid	DI Leach	
880-47252-6	TT-1 (2')	Soluble	Solid	DI Leach	
880-47252-7	TT-1 (3')	Soluble	Solid	DI Leach	
880-47252-8	TT-1 (4')	Soluble	Solid	DI Leach	
880-47252-9	TT-2 (0-0.5')	Soluble	Solid	DI Leach	
880-47252-10	TT-2 (1')	Soluble	Solid	DI Leach	
MB 880-88480/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-88480/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-88480/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-47252-1 MS	H-5 (0-1')	Soluble	Solid	DI Leach	
880-47252-1 MSD	H-5 (0-1')	Soluble	Solid	DI Leach	

Analysis Batch: 88495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47252-1	H-5 (0-1')	Soluble	Solid	300.0	88480

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

HPLC/IC (Continued)

Analysis Batch: 88495 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47252-2	H-6 (0-1')	Soluble	Solid	300.0	88480
880-47252-3	H-7 (0-1')	Soluble	Solid	300.0	88480
880-47252-4	TT-1 (0-0.5')	Soluble	Solid	300.0	88480
880-47252-5	TT-1 (1')	Soluble	Solid	300.0	88480
880-47252-6	TT-1 (2')	Soluble	Solid	300.0	88480
880-47252-7	TT-1 (3')	Soluble	Solid	300.0	88480
880-47252-8	TT-1 (4')	Soluble	Solid	300.0	88480
880-47252-9	TT-2 (0-0.5')	Soluble	Solid	300.0	88480
880-47252-10	TT-2 (1')	Soluble	Solid	300.0	88480
MB 880-88480/1-A	Method Blank	Soluble	Solid	300.0	88480
LCS 880-88480/2-A	Lab Control Sample	Soluble	Solid	300.0	88480
LCSD 880-88480/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	88480
880-47252-1 MS	H-5 (0-1')	Soluble	Solid	300.0	88480
880-47252-1 MSD	H-5 (0-1')	Soluble	Solid	300.0	88480

Leach Batch: 88497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47252-11	TT-2 (3')	Soluble	Solid	DI Leach	
880-47252-12	TT-2 (4')	Soluble	Solid	DI Leach	
880-47252-13	TT-3 (0-0.5')	Soluble	Solid	DI Leach	
880-47252-14	TT-3 (1')	Soluble	Solid	DI Leach	
880-47252-15	TT-3 (2')	Soluble	Solid	DI Leach	
880-47252-16	TT-3 (3')	Soluble	Solid	DI Leach	
880-47252-17	TT-3 (4')	Soluble	Solid	DI Leach	
880-47252-18	TT-4 (0-0.5')	Soluble	Solid	DI Leach	
880-47252-19	TT-4 (1')	Soluble	Solid	DI Leach	
880-47252-20	TT-4 (2')	Soluble	Solid	DI Leach	
880-47252-21	TT-4 (4')	Soluble	Solid	DI Leach	
880-47252-25	TT-2 (2')	Soluble	Solid	DI Leach	
880-47252-11 MS	TT-2 (3')	Soluble	Solid	DI Leach	
880-47252-11 MSD	TT-2 (3')	Soluble	Solid	DI Leach	
880-47252-21 MS	TT-4 (4')	Soluble	Solid	DI Leach	
880-47252-21 MSD	TT-4 (4')	Soluble	Solid	DI Leach	

Leach Batch: 88499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47259-21	TT-4 (3')	Soluble	Solid	DI Leach	

Analysis Batch: 88530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47252-11	TT-2 (3')	Soluble	Solid	300.0	88497
880-47252-12	TT-2 (4')	Soluble	Solid	300.0	88497
880-47252-13	TT-3 (0-0.5')	Soluble	Solid	300.0	88497
880-47252-14	TT-3 (1')	Soluble	Solid	300.0	88497
880-47252-15	TT-3 (2')	Soluble	Solid	300.0	88497
880-47252-16	TT-3 (3')	Soluble	Solid	300.0	88497
880-47252-17	TT-3 (4')	Soluble	Solid	300.0	88497
880-47252-18	TT-4 (0-0.5')	Soluble	Solid	300.0	88497
880-47252-19	TT-4 (1')	Soluble	Solid	300.0	88497
880-47252-20	TT-4 (2')	Soluble	Solid	300.0	88497

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

HPLC/IC (Continued)

Analysis Batch: 88530 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47252-21	TT-4 (4')	Soluble	Solid	300.0	88497
880-47252-25	TT-2 (2')	Soluble	Solid	300.0	88497
880-47252-11 MS	TT-2 (3')	Soluble	Solid	300.0	88497
880-47252-11 MSD	TT-2 (3')	Soluble	Solid	300.0	88497
880-47252-21 MS	TT-4 (4')	Soluble	Solid	300.0	88497
880-47252-21 MSD	TT-4 (4')	Soluble	Solid	300.0	88497

Analysis Batch: 88693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47259-21	TT-4 (3')	Soluble	Solid	300.0	88499

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Client Sample ID: H-5 (0-1')
Date Collected: 08/13/24 11:50
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-1
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	88479	08/15/24 09:15	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88473	08/15/24 12:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88606	08/15/24 12:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			88523	08/15/24 18:07	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	88454	08/14/24 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88506	08/15/24 18:07	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	88480	08/15/24 09:18	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88495	08/16/24 01:45	CH	EET MID

Client Sample ID: H-6 (0-1')
Date Collected: 08/12/24 11:10
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-2
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	88479	08/15/24 09:15	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88473	08/15/24 13:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88606	08/15/24 13:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			88523	08/15/24 19:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	88454	08/14/24 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88506	08/15/24 19:01	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	88480	08/15/24 09:18	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88495	08/16/24 02:07	CH	EET MID

Client Sample ID: H-7 (0-1')
Date Collected: 08/12/24 11:32
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-3
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	88479	08/15/24 09:15	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88473	08/15/24 13:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88606	08/15/24 13:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			88523	08/15/24 19:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	88454	08/14/24 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88506	08/15/24 19:19	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	88480	08/15/24 09:18	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88495	08/16/24 02:14	CH	EET MID

Client Sample ID: TT-1 (0-0.5')
Date Collected: 08/13/24 12:15
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-4
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	88479	08/15/24 09:15	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88473	08/15/24 13:50	MNR	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Client Sample ID: TT-1 (0-0.5')
Date Collected: 08/13/24 12:15
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-4
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	Total BTEX		1			88606	08/15/24 13:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			88523	08/15/24 19:37	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	88454	08/14/24 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88506	08/15/24 19:37	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	88480	08/15/24 09:18	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88495	08/16/24 02:37	CH	EET MID

Client Sample ID: TT-1 (1')
Date Collected: 08/13/24 12:17
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-5
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	88479	08/15/24 09:15	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88473	08/15/24 14:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88606	08/15/24 14:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			88523	08/15/24 19:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	88454	08/14/24 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88506	08/15/24 19:54	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	88480	08/15/24 09:18	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88495	08/16/24 02:44	CH	EET MID

Client Sample ID: TT-1 (2')
Date Collected: 08/13/24 12:19
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-6
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	88479	08/15/24 09:15	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88473	08/15/24 14:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88606	08/15/24 14:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			88523	08/15/24 20:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	88454	08/14/24 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88506	08/15/24 20:11	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	88480	08/15/24 09:18	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88495	08/16/24 02:51	CH	EET MID

Client Sample ID: TT-1 (3')
Date Collected: 08/13/24 12:22
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-7
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	88479	08/15/24 09:15	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88473	08/15/24 14:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88606	08/15/24 14:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			88523	08/15/24 20:28	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Client Sample ID: TT-1 (3')
Date Collected: 08/13/24 12:22
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-7
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	8015NM Prep			10.04 g	10 mL	88454	08/14/24 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88506	08/15/24 20:28	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	88480	08/15/24 09:18	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88495	08/16/24 02:59	CH	EET MID

Client Sample ID: TT-1 (4')
Date Collected: 08/13/24 12:25
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-8
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	88479	08/15/24 09:15	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88473	08/15/24 15:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88606	08/15/24 15:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			88523	08/15/24 20:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	88454	08/14/24 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88506	08/15/24 20:45	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	88480	08/15/24 09:18	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88495	08/16/24 03:06	CH	EET MID

Client Sample ID: TT-2 (0-0.5')
Date Collected: 08/13/24 12:41
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-9
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	88479	08/15/24 09:15	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88473	08/15/24 15:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88606	08/15/24 15:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			88523	08/15/24 21:02	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	88454	08/14/24 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88506	08/15/24 21:02	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	88480	08/15/24 09:18	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88495	08/16/24 03:13	CH	EET MID

Client Sample ID: TT-2 (1')
Date Collected: 08/13/24 12:43
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-10
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	88479	08/15/24 09:15	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88473	08/15/24 15:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88606	08/15/24 15:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			88523	08/15/24 21:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	88454	08/14/24 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88506	08/15/24 21:19	AJ	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Client Sample ID: TT-2 (1')
Date Collected: 08/13/24 12:43
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-10
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			4.95 g	50 mL	88480	08/15/24 09:18	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88495	08/16/24 03:20	CH	EET MID

Client Sample ID: TT-2 (3')
Date Collected: 08/13/24 12:47
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-11
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			5.03 g	5 mL	88479	08/15/24 09:15	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88473	08/15/24 17:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88606	08/15/24 17:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			88523	08/15/24 21:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	88454	08/14/24 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88506	08/15/24 21:51	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	88497	08/15/24 10:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88530	08/16/24 20:15	SMC	EET MID

Client Sample ID: TT-2 (4')
Date Collected: 08/13/24 12:52
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-12
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			4.98 g	5 mL	88479	08/15/24 09:15	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88473	08/15/24 18:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88606	08/15/24 18:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			88523	08/15/24 22:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	88454	08/14/24 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88506	08/15/24 22:08	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	88497	08/15/24 10:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88530	08/16/24 20:35	SMC	EET MID

Client Sample ID: TT-3 (0-0.5')
Date Collected: 08/13/24 13:10
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-13
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			4.97 g	5 mL	88479	08/15/24 09:15	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88473	08/15/24 18:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88606	08/15/24 18:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			88523	08/15/24 22:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	88454	08/14/24 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88506	08/15/24 22:24	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	88497	08/15/24 10:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88530	08/16/24 21:19	SMC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Client Sample ID: TT-3 (1')
Date Collected: 08/13/24 13:11
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-14
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			5.03 g	5 mL	88479	08/15/24 09:15	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88473	08/15/24 18:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88606	08/15/24 18:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			88523	08/15/24 22:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	88454	08/14/24 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88506	08/15/24 22:40	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	88497	08/15/24 10:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88530	08/16/24 21:26	SMC	EET MID

Client Sample ID: TT-3 (2')
Date Collected: 08/13/24 13:15
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-15
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			5.00 g	5 mL	88479	08/15/24 09:15	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88473	08/15/24 19:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88606	08/15/24 19:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			88523	08/15/24 22:56	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	88454	08/14/24 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88506	08/15/24 22:56	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	88497	08/15/24 10:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88530	08/16/24 21:34	SMC	EET MID

Client Sample ID: TT-3 (3')
Date Collected: 08/13/24 13:18
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-16
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	88479	08/15/24 09:15	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88473	08/15/24 19:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88606	08/15/24 19:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			88523	08/15/24 23:12	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	88454	08/14/24 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88506	08/15/24 23:12	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	88497	08/15/24 10:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88530	08/16/24 21:56	SMC	EET MID

Client Sample ID: TT-3 (4')
Date Collected: 08/13/24 13:22
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-17
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			5.01 g	5 mL	88479	08/15/24 09:15	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88473	08/15/24 19:48	MNR	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Client Sample ID: TT-3 (4')
Date Collected: 08/13/24 13:22
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			88606	08/15/24 19:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			88523	08/15/24 23:28	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	88454	08/14/24 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88506	08/15/24 23:28	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	88497	08/15/24 10:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88530	08/16/24 22:03	SMC	EET MID

Client Sample ID: TT-4 (0-0.5')
Date Collected: 08/12/24 12:20
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-18
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	88479	08/15/24 09:15	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88473	08/15/24 20:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88606	08/15/24 20:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			88523	08/15/24 23:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	88454	08/14/24 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88506	08/15/24 23:44	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	88497	08/15/24 10:42	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	88530	08/16/24 22:11	SMC	EET MID

Client Sample ID: TT-4 (1')
Date Collected: 08/12/24 12:22
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-19
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			4.97 g	5 mL	88479	08/15/24 09:15	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88473	08/15/24 20:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88606	08/15/24 20:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			88523	08/16/24 00:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	88454	08/14/24 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88506	08/16/24 00:01	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	88497	08/15/24 10:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88530	08/16/24 22:18	SMC	EET MID

Client Sample ID: TT-4 (2')
Date Collected: 08/12/24 12:25
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-20
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	88479	08/15/24 09:15	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88473	08/15/24 20:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88606	08/15/24 20:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			88523	08/16/24 00:16	SM	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Client Sample ID: TT-4 (2')
Date Collected: 08/12/24 12:25
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-20
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	8015NM Prep			10.08 g	10 mL	88454	08/14/24 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88506	08/16/24 00:16	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	88497	08/15/24 10:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88530	08/16/24 22:25	SMC	EET MID

Client Sample ID: TT-4 (4')
Date Collected: 08/12/24 14:21
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-21
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	88481	08/15/24 09:19	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88470	08/15/24 23:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88606	08/15/24 23:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			88523	08/14/24 18:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	88397	08/14/24 17:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88413	08/14/24 18:09	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	88497	08/15/24 10:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88530	08/16/24 22:33	SMC	EET MID

Client Sample ID: TT-2 (2')
Date Collected: 08/13/24 00:00
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47252-25
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	88510	08/15/24 11:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88471	08/16/24 06:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88606	08/16/24 06:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			88523	08/14/24 19:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	88397	08/14/24 17:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88413	08/14/24 19:33	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	88497	08/15/24 10:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88530	08/16/24 23:32	SMC	EET MID

Client Sample ID: TT-4 (3')
Date Collected: 08/12/24 12:27
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47259-21
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	88489	08/15/24 10:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88475	08/16/24 00:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88616	08/16/24 00:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			88524	08/14/24 19:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	88397	08/14/24 17:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88413	08/14/24 19:50	TKC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Client Sample ID: TT-4 (3')
Date Collected: 08/12/24 12:27
Date Received: 08/14/24 14:20

Lab Sample ID: 880-47259-21
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	88499	08/15/24 10:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88693	08/17/24 04:23	SMC	EET MID

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

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

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	06-30-25

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
Project/Site: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

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: Cicada Unit 022H Delineation Assessment
Release 1

Job ID: 880-47252-1
SDG: Eddy County,

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-47252-1	H-5 (0-1')	Solid	08/13/24 11:50	08/14/24 14:20
880-47252-2	H-6 (0-1')	Solid	08/12/24 11:10	08/14/24 14:20
880-47252-3	H-7 (0-1')	Solid	08/12/24 11:32	08/14/24 14:20
880-47252-4	TT-1 (0-0.5')	Solid	08/13/24 12:15	08/14/24 14:20
880-47252-5	TT-1 (1')	Solid	08/13/24 12:17	08/14/24 14:20
880-47252-6	TT-1 (2')	Solid	08/13/24 12:19	08/14/24 14:20
880-47252-7	TT-1 (3')	Solid	08/13/24 12:22	08/14/24 14:20
880-47252-8	TT-1 (4')	Solid	08/13/24 12:25	08/14/24 14:20
880-47252-9	TT-2 (0-0.5')	Solid	08/13/24 12:41	08/14/24 14:20
880-47252-10	TT-2 (1')	Solid	08/13/24 12:43	08/14/24 14:20
880-47252-11	TT-2 (3')	Solid	08/13/24 12:47	08/14/24 14:20
880-47252-12	TT-2 (4')	Solid	08/13/24 12:52	08/14/24 14:20
880-47252-13	TT-3 (0-0.5')	Solid	08/13/24 13:10	08/14/24 14:20
880-47252-14	TT-3 (1')	Solid	08/13/24 13:11	08/14/24 14:20
880-47252-15	TT-3 (2')	Solid	08/13/24 13:15	08/14/24 14:20
880-47252-16	TT-3 (3')	Solid	08/13/24 13:18	08/14/24 14:20
880-47252-17	TT-3 (4')	Solid	08/13/24 13:22	08/14/24 14:20
880-47252-18	TT-4 (0-0.5')	Solid	08/12/24 12:20	08/14/24 14:20
880-47252-19	TT-4 (1')	Solid	08/12/24 12:22	08/14/24 14:20
880-47252-20	TT-4 (2')	Solid	08/12/24 12:25	08/14/24 14:20
880-47252-21	TT-4 (4')	Solid	08/12/24 14:21	08/14/24 14:20
880-47252-25	TT-2 (2')	Solid	08/13/24 00:00	08/14/24 14:20
880-47259-21	TT-4 (3')	Solid	08/12/24 12:27	08/14/24 14:20

Analysis Request of Chain of Custody Record

of 3

Tetra Tech, Inc.

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

Client Name: Chevron	**Site Manager:** John Faught
Project Name: Cicada Unit 022H Delineation Assessment	Release 1
Project Location: (county, state) Eddy County, TX	**Project #:** 212C-MD-03521
Invoice to: john.faught1@tetratech.com; OGA.ECS.AccountsPayable@tetratech.com	Req # 575506
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	TIME	MATRIX WATER	SOIL	PRESERVATIVE METHOD HCL	HNO_3	ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	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
	H-5 (0-1')	8/13	1150		X			X	1		X		X												X						
	H-6 (0-1')	8/12	1110																												
	H-7 (0-1')	8/12	1132																												
	FT-1 (0-0.5')	8/13	1215																												
	FT-1 (1')	8/13	1217																												
	FT-1 (2')	8/13	1219																												
	FT-1 (3')	8/13	1222																												
	FT-1 (4')	8/13	1225																												
	FT-2 (0-0.5')	8/13	1241																												
	FT-2 (1')	8/13	1243																												

Relinquished by: Matthew Gastaya	Date: 8/14/24	Time:	Received by:	Date: 8/14/24	Time: 1420
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY
Sample Temperature
-2.3/-2.4

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

Page 2 of 3

Tetra Tech, Inc.

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

47258

Client Name: Chevron	**Site Manager:** John Faught
Project Name: Cicada Unit 022H Delineation Assessment	Release 1
Project Location: (county, state) Eddy County, TX	**Project #:** 212C-MD-03521
Invoice to: john.faught1@tetratech.com; OGA.ECS.AccountsPayable@tetratech.com	**Req # 575506**
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	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
	TT-2 (3')	8/13	1217		X			X	1		X		X												X				
	TT-2 (4')	8/13	1252																										
	TT-3 (0-0.5')	8/13	1310																										
	TT-3 (1')	8/13	1311																										
	TT-3 (2')	8/13	1315																										
	TT-3 (3')	8/13	1318																										
	TT-3 (4')	8/13	1322																										
	TT-4 (0-0.5')	8/12	1220																										
	TT-4 (1')	8/12	1222																										
	TT-4 (2')	8/12	1225																										

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Matthew Gustafson	8/14/24			8/14/24	1420
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature

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

Page 3 of 3

Client Name: Chevron	**Site Manager:** John Faught
Project Name: Cicada Unit 02H Delineation Assessment	
Project Location: (county, state) Eddy County, TX	**Project #:** 212C-MD-03521
Invoice to: john.faught@tetratech.com; OGA.ECS.AccountsPayable@tetratech.com	**Req # 575506**
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** M. Castrejon
Comments: Email: john.faught@tetratech.com; clair.gonzales@tetratech.com	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	YEAR: 2024 DATE	TIME	SAMPLING	MATRIX: WATER	SOIL	PRESERVATIVE METHOD: HCL	HNO_3	ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	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
	TT-4 (3')	8/12	1227		X				X	1	N	X	X	X												X			
	TT-4 (4')	8/12	1230		X				X	1	N	X	X	X												X			
	TT-2 (2') (AA 8-22-24)	8/13	0000		X				X	1	N	X	X	X												X			

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date: 8/14/24	Time:	Received by:	Date: 8/14/24	Time: 1400
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature

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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Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 880-47252-1
SDG Number: Eddy County,

Login Number: 47252
List Number: 1
Creator: Vasquez, Julisa

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

QUESTIONS

Action 393381

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 393381
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2414869489**
Incident Name	**NAPP2414869489 CICADA UNIT #022H @ 30-015-45423**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Received**
Incident Well	**[30-015-45423] CICADA UNIT #022H**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	CICADA UNIT #022H
Date Release Discovered	05/27/2024
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	Cause: Corrosion | Flow Line - Production | Crude Oil | Released: 12 BBL | Recovered: 1 BBL | Lost: 11 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion | Flow Line - Production | Produced Water | Released: 59 BBL | Recovered: 4 BBL | Lost: 55 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 393381
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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

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

I hereby agree and sign off to the above statement	Name: Kennedy Lincoln Title: Environmental Specialist Email: kennedy.lincoln@chevron.com Date: 05/30/2024

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 393381
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	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 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 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	High
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)	1420
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	511
GRO+DRO (EPA SW-846 Method 8015M)	510
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	12/02/2024
On what date will (or did) the final sampling or liner inspection occur	12/13/2024
On what date will (or was) the remediation complete(d)	12/20/2024
What is the estimated surface area (in square feet) that will be reclaimed	3510
What is the estimated volume (in cubic yards) that will be reclaimed	155
What is the estimated surface area (in square feet) that will be remediated	3510
What is the estimated volume (in cubic yards) that will be remediated	155
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 393381
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	*Not answered.*
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	Yes
In which state is the disposal taking place	Texas
What is the name of the out-of-state facility	Red Bluff Facility
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 Title: Environmental Specialist Email: kennedy.lincoln@chevron.com Date: 10/17/2024

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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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 393381
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 393381
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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

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CONDITIONS

Action 393381

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 393381
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvelez	The remediation plan is approved as written. Responsible party has 90-days (January 30, 2025) to submit to OCD its appropriate or final remediation closure report.	11/1/2024