

SITE INFORMATION

Report Type: Closure Report NMLB0528541155

General Site Information:

Site:	Big Eddy Unit #079Y					
Company:	EOG Resources					
Section, Township and Range	Unit J	Sec. 21	T 21S	R 28E		
Lease Number:						
County:	Eddy County					
GPS:	32.4639549			-104.0894318		
Surface Owner:	Fee					
Mineral Owner:						
Directions:	From 62 & 603 head SW on 62 for 0.31 miles. Turn left onto lease road, follow for 1.08 miles. Turn left onto lease road, follow for 1.82 miles. Location on the left					

Release Data:

Date Released:	10/7/2005
Type Release:	Produced Water
Source of Contamination:	Tank Overflow
Fluid Released:	150 bbl water
Fluids Recovered:	150 bbl water

Official Communication:

Name:	James Kennedy		Clair Gonzales
Company:	EOG Resources		Tetra Tech
Address:	5509 Champions Dr.		901 W. Wall St.
			Ste 100
City:	Midland, Texas, 79706		Midland, Texas, 79701
Phone number:	(432) 258-4346		(432) 682-4559
Fax:			
Email:	James.Kennedy@eogresources.com		clair.gonzales@tetrattech.com

Site Characterization

Depth to Groundwater:	>55' below surface
Karst Potential:	medium

Recommended Remedial Action Levels (RRALs)

Benzene	Total BTEX	TPH (GRO+DRO)	TPH (GRO+DRO+MRO)	Chlorides
10 mg/kg	50 mg/kg	1,000 mg/kg	2,500 mg/kg	10,000 mg/kg

**TETRA TECH**

October 1, 2021

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

Re: Closure Report for the EOG Resources, Big Eddy Unit 079Y, Unit J, Section 21, Township 21 South, Range 28 East, Eddy County, New Mexico. NMLB052841155

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources (EOG) to assess and remediate a release that occurred at the EOG Resources, Big Eddy Unit 079Y, Unit J, Section 21, Township 21 South, Range 28 East, Eddy County, New Mexico (Site). The site coordinates are 32.4639549°, -104.0894318°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico Incident Detail Form, the release was discovered on October 7, 2005, and released approximately 150 barrels of produced water due to a tank overflow. Approximately 150 barrels of produced water were recovered. The release occurred in the berm of a tank battery. Additionally, visible contamination was mentioned in the sandy area South of the tank battery, in the area of the Northeast corner of location containing a decommissioned heater treater, and in an area West of the battery where contaminated soil was stockpiled onsite without the use of plastic. The New Mexico Incident Detail Form and C-141 form is included in Appendix A.

Site Characterization

A site characterization was performed for the site and no lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. However, the site is located in a medium karst potential area.

The nearest well is listed on the USGS National Water Information System is in section 17 approximately 1.17 miles from the site, and has a reported depth to groundwater of 45.78' below surface.

Additionally, during the investigation activities, one bore hole was drilled at the site to a

Tetra Tech

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**TETRA TECH**

total depth of 55' feet below surface, and no water was encountered during drilling activities. Additionally, 72 hours after drilling activities commenced, the bore hole was investigated for the presence of groundwater, no groundwater was detected at the site. The drilling log and site characterization data is included in Appendix B.

Regulatory

A risk-based evaluation was performed for the site following the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the site characterization, beyond the top 4.0' of soil, the proposed RRAL for TPH is 1,000 mg/kg (GRO + DRO) and 2,500 mg/kg (GRO + DRO + MRO). Additionally, based on the site characterization, beyond the top 4.0' of soil, the proposed RRAL for chlorides is 10,000 mg/kg.

Soil Assessment and Analytical Results

Initial Assessment

Between January 27, 2021 and May 26, 2021, Tetra Tech personnel were onsite to evaluate and sample the mentioned areas in the incident report. A total of seven (7) auger holes (AH-1 through AH-7) were installed in the release footprint with depths ranging from surface to 1.5' below surface. Due to the dense lithology in the area, refusal was hit shallow in all auger holes. Selected samples were submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The results of the sampling are summarized in Table 1. The sample locations are shown in Figure 3

Referring to Table 1, all samples submitted did not show benzene, total BTEX, or TPH concentrations above the RRALs. Additionally, the areas of auger holes (AH-1 through AH-4 and AH-7) showed chloride concentrations below RRALs. However, the areas of auger holes (AH-5 and AH-6) showed chloride concentrations above RRALs, with concentrations ranging from 1,140 mg/kg to 1,850 mg/kg, at depths ranging from surface to 1.5' below surface. Vertical delineation was not found in the areas of auger holes (AH-5 and AH-6) during site assessment activities.

Remediation and Reclamation Activities

Tetra Tech personnel were onsite March 12, 2021 through April 1, 2021, to supervise the remediation and collect confirmation samples. The impacted areas were excavated to depths ranging from 1.5' below surface and 8.0' below surface, as shown on Figure 4 and Table 2.

Confirmation bottom hole and sidewall samples were collected every 200 square feet, a total of 9 bottom hole samples (Bottom Hole 1 through Bottom Hole 9) and 10 sidewall samples (SW-1 through SW-10) were collected to ensure proper removal of the impacted soils. The samples were submitted to the laboratory to be analyzed for TPH method 8015 extended, BTEX method 8021B, and Chloride by EPA Method 300.0. The sampling results are summarized in

**TETRA TECH**

Table 1. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The excavation depths, and sample locations are shown in Figure 4.

Additionally, during remediation activities in March and prior to the drilling activities, select samples (BH-1 and BH-2, and SW-1 through SW-4) were collected and submitted to the laboratory to be analyzed for TPH method 8015 extended, BTEX method 8021B, and Chloride by EPA Method 300.0, to determine accurate concentrations and help determine remediation activities moving forward. The sampling results are shown in Table 2, highlighted in orange, and showing their respective locations. The sample locations are shown in Figure 4.

Referring to Table 1, all final confirmation samples collected showed benzene, total BTEX, and TPH concentrations below the laboratory reporting limits. Additionally, all final samples showed chloride concentrations below the RRAL and the 600 mg/kg threshold in the top 4.0' of soil.

Approximately 304 cubic yards of material was excavated and transported offsite for proper disposal. The areas were then backfilled with clean material to surface grade.

Conclusion

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

Respectfully submitted,
TETRA TECH

A handwritten signature in blue ink, appearing to read 'Brittany Long'.

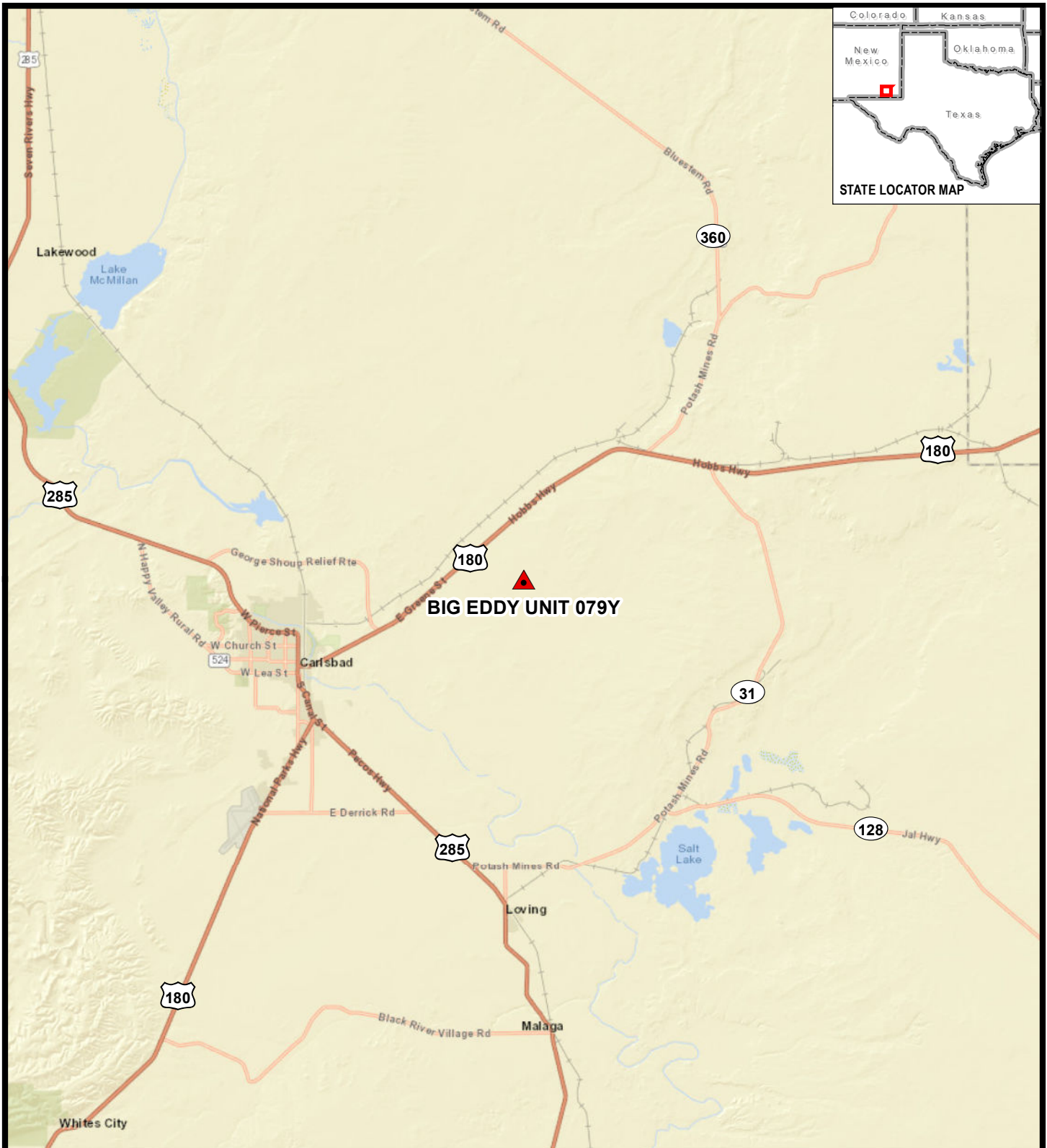
Brittany Long,
Project Manager

A handwritten signature in blue ink, appearing to read 'Clair Gonzales'.

Clair Gonzales, P.G.
Senior Project Manager



Figures



 SITE LOCATION



0 2.5 5
Miles
Approximate Scale in Miles

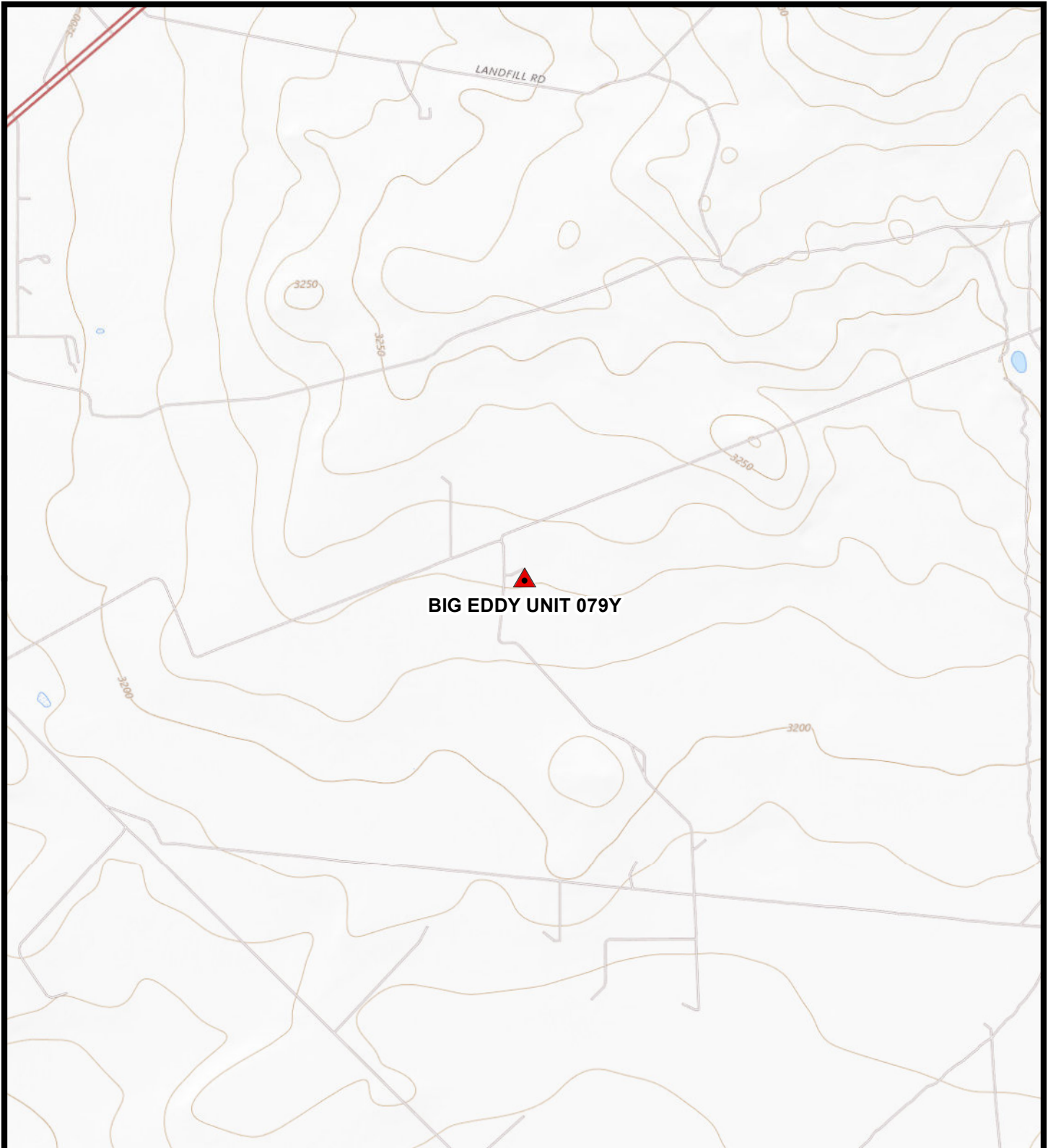
OVERVIEW MAP
BIG EDDY UNIT 079Y
Property Located at coordinates 32.463487°, -104.089334°
EDDY COUNTY, NEW MEXICO



Project #:
212C-MD-02421

FIGURE
1

Source: ESRI Basemap - Streets, 2021.



C:\GIS\EOG Resources\212C-MD-02421_BIGEDDY_UNIT079Y\212C-MD-02421_BIGEDDY_UNIT079Y_FIG2.mxd 5/10/2021 jpd.peters

 SITE LOCATION



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

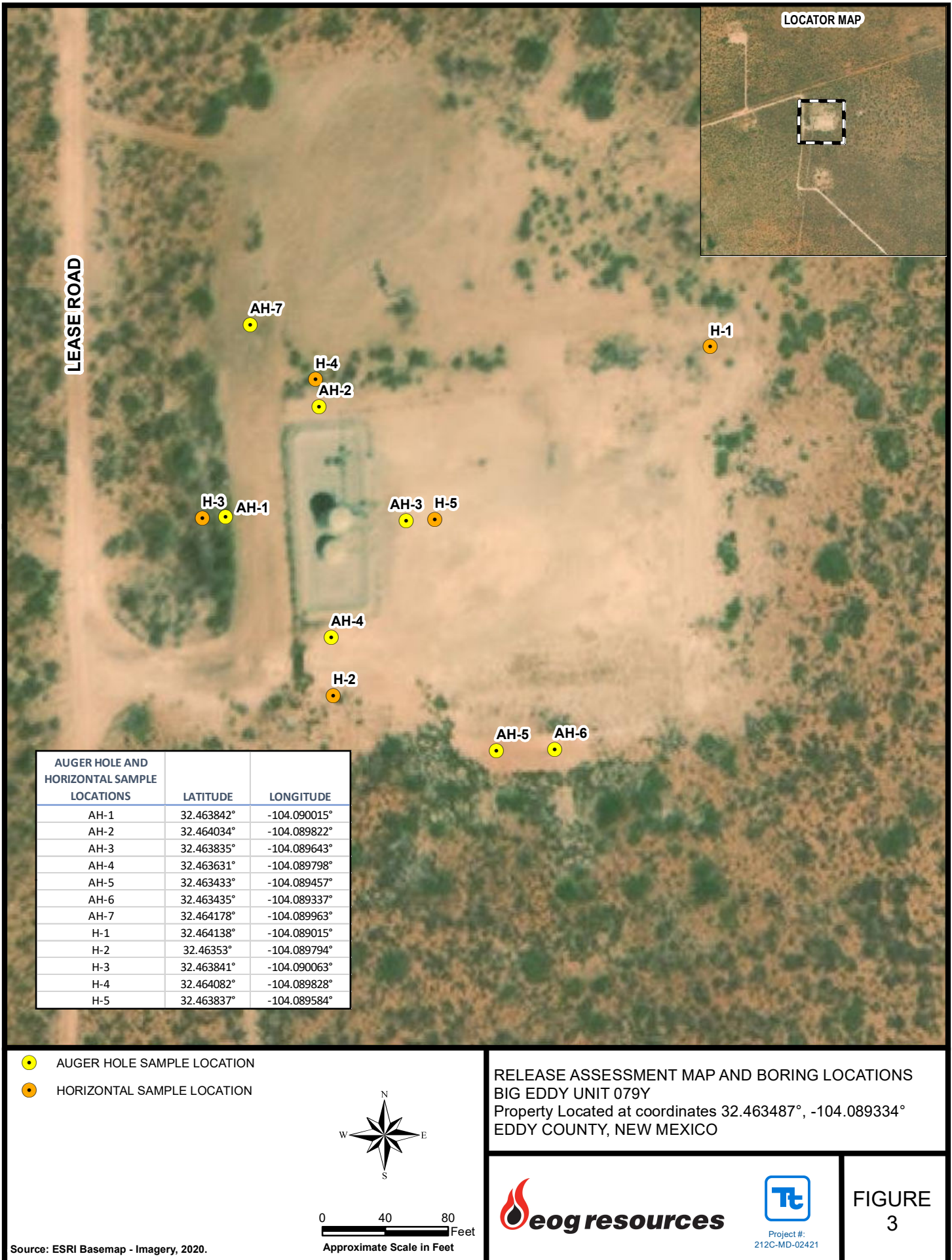
Source: USGS, The National Map,
Topo Base, 2021.

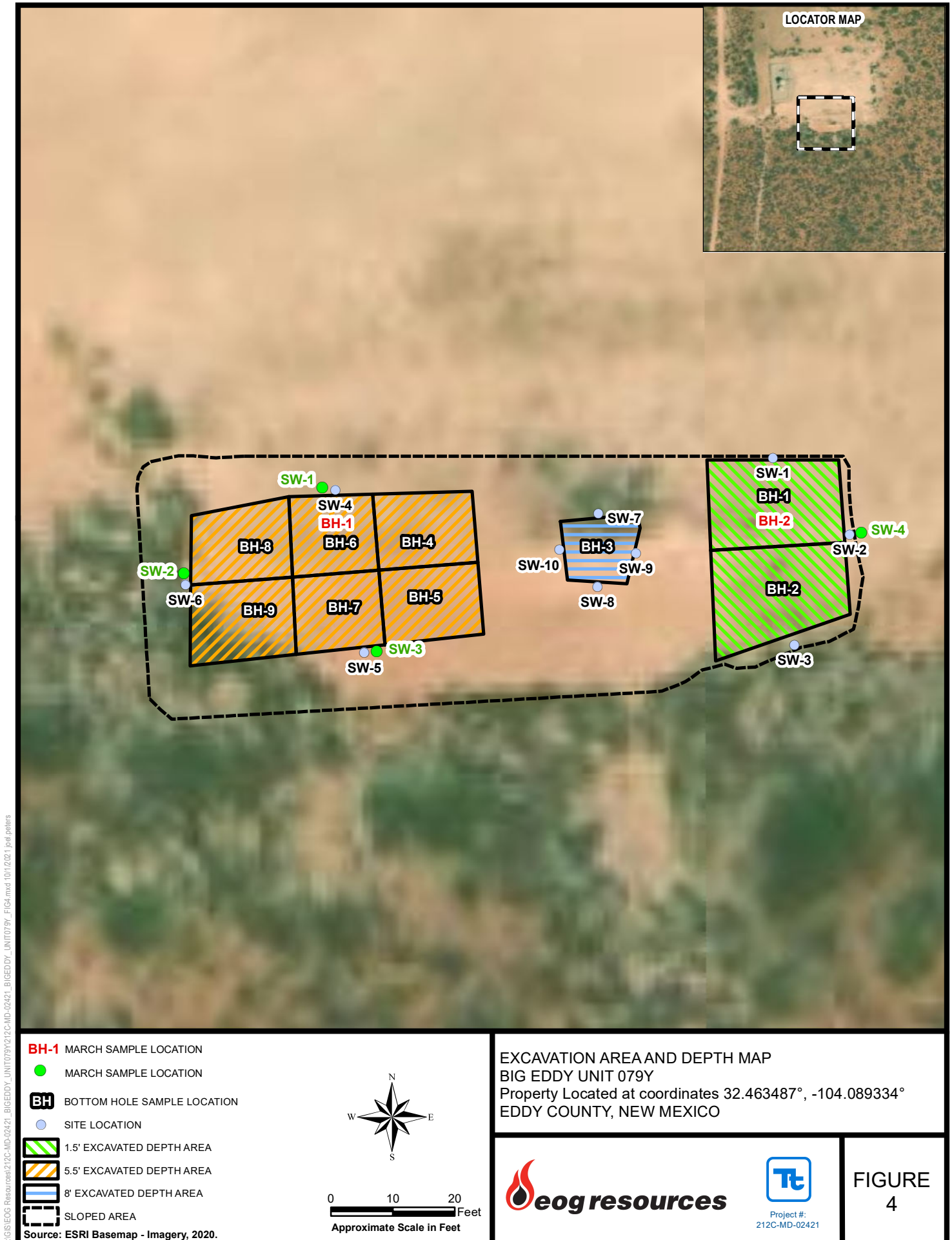
TOPOGRAPHIC MAP
BIG EDDY UNIT 079Y
Property Located at coordinates 32.463487°, -104.089334°
EDDY COUNTY, NEW MEXICO



Project #:
212C-MD-02421

FIGURE
2







Tables

Table 1
EOG Resources
Big Eddy Unit 079Y
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
AH-1	3/18/2021	0-1	X	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	169
	"	1-1.5	X	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	189
	5/26/2021	0-1	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	53.6
AH-2	3/18/2021	0-1	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	34.7
	"	1-1.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	29.5
	5/26/2021	0-1	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	86.5
AH-3	3/18/2021	0-1	X	-	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00403	<0.00202	70
	"	1-1.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	77.7
	5/26/2021	0-1	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	22.5
AH-4	5/26/2021	0-1	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	21.3
AH-5	1/27/2021	0-1	X		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	1,850
	"	1-1.5	X		<50.0	<50.0	<50.0	<50.0	<0.00198	0.00654	0.00313	0.0179	0.0276	1,140
AH-6	1/27/2021	0-1	X		<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	2,980
	"	1-1.5	X		<50.0	<50.0	<50.0	<50.0	<0.00199	0.00286	<0.00199	0.00531	0.00817	1,140
AH-7	1/27/2021	0-1	X		<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	563
H-1	5/26/2021	0-1	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	85.6
H-2	5/26/2021	0-1	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	21.4
H-3	5/26/2021	0-1	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	175
H-4	5/26/2021	0-1	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	63.1
H-5	5/26/2021	0-1	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	463

(-)

Not Analyzed

Proposed Excavation

Table 2
EOG Resources
Big Eddy Unit 079Y
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
BH-2 (In Area of BH-1)	3/18/2021	1.5'	X		<49.8	92.3	<49.8	92.3	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	16.6
BH-1	4/1/2021	1.5'	X		<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00198	155
BH-2	4/1/2021	1.5'	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	168
BH-3	4/1/2021	8'	X		<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	1,700
BH-4	4/1/2021	5.5'	X		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	2,540
BH-5	4/1/2021	5.5'	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	1,830
BH-1 (In Area of BH-6)	3/18/2021	4.5'		X	<50.2	110	<50.2	110	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	104
BH-6	4/1/2021	5.5'	X		<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00198	1,630
BH-7	4/1/2021	5.5'	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	0.00292	<0.00400	0.00292	2,030
BH-8	4/1/2021	5.5'	X		<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	1,410
BH-9	4/1/2021	5.5'	X		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	1,400
SW-1	4/1/2021	1.5'	X		72.6	<49.9	<49.9	72.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	166
SW-4 (In Area of SW-2)	3/18/2021	1.5'	X		<49.8	87.4	<49.8	87.4	<0.00202	0.00362	<0.00202	0.0199	0.0235	18.7
SW-2	4/1/2021	1.5'	X		<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<4.97
SW-3	4/1/2021	1.5'	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	171
SW-1 (In Area of SW-4)	3/18/2021	4.5'	X		<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	78.0
SW-4	4/1/2021	5.5'	X		<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00198	2,350
SW-3 (In Area of SW-5)	3/18/2021	4.5'	X		<49.9	51.7	<49.9	51.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	61.4
SW-5	4/1/2021	5.5'	X		<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	1,900

Table 2
EOG Resources
Big Eddy Unit 079Y
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
SW-2 (In Area of SW-6)	3/18/2021	4.5'	X		<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00202	260
SW-6	4/1/2021	5.5'	X		51.2	<49.7	<49.7	51.2	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	1,330
SW-7	4/1/2021	8.0'	X		<50.2	<50.2	<50.2	<50.2	0.00272	<0.00199	<0.00199	<0.00398	0.00272	267
SW-8	4/1/2021	8.0'	X		<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	5,250
SW-9	4/1/2021	8.0'	X		<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	0.00355	0.0164	0.0199	1,060
SW-10	4/1/2021	8.0'	X		<50.1	<50.1	<50.1	<50.1	<0.00201	0.00776	0.0258	0.0943	0.128	1,030

(-) Not Analyzed
Removed
Samples collected in March 2021, prior to
Drilling Activities



Photographic Documentation

EOG Resources
Big Eddy Unit 079Y
Eddy County, New Mexico



View of Remediation Activities – View East/Northeast



View of Remediation Activities – View Southwest

EOG Resources
Big Eddy Unit 079Y
Eddy County, New Mexico



View of Remediation Activities – View West



View of Remediation Activities – View Southeast



Appendix A

C-141 Document



OCD Permitting

[Home](#) > [Searches](#) > [Incidents](#) > [Incident Details](#)

NMLB0528541155 2005 MAJOR A SPL @ 30-015-23385

General Incident Information

Site Name:

Well: [\[30-015-23385\]](#) BIG EDDY UNIT #079Y

Facility:

Operator: [\[25561\]](#) YATES PET CORP

Status: Closure Not Approved

Severity: Major

Type: Release Other

Surface Owner:

District: Artesia

County: Eddy (15)

Incident Location: J-21-21S-28E 1980 FSL 1930 FEL

Lat/Long: 32.4639549,-104.0894318 NAD83

Directions:

Notes

Source of Referral: Industry Rep

Action / Escalation: Referred to Environmental Inspector

Resulted In Fire: ☐Will or Has Reached Watercourse: ☐Endangered Public Health: ☐Property Or Environmental Damage: ☐Fresh Water Contamination: ☐

Contact Details

Contact Name:

Contact Title:

Event Dates

Date of Discovery: 10/07/2005

OCD Notified of Major Release: 10/07/2005

Extension Date: 11/15/2018

Cancelled Date:

Initial C-141 Received:

Characterization Report Received:

Characterization Report Approved:

Remediation Plan Received:

Remediation Plan Approved:

Remediation Due:

Closure Report Received:

Closure Report Approved:

Incidents Materials

Cause	Source	Material	Volume				Units
			Unk.	Spilled	Recovered	Lost	
Overflow - Tank, Pit, Etc.	Water Tank	Other (Specify)	☐	150	150	0	BBL



Searches ▾ Operator Data ▾ Hearing Fee Application

10/27/2005	Release notification called in to District 2 office by Yates Pet rep, Dan Dolan. C-141 rec'd via fax 10/10/05. C-141 reports 150 bbls PW released with 150 bbls recovered. Per C-141: Cause of Problem and Remedial Action Taken listed as: "Due to Pump failure, a tank overflowed spilling 150bbl Water, and a small amount of tank bottom inside berm," Area Affected and Cleanup Action Taken listed as: "Inside Berm of tank battery, free fluid was picked up, the dirty soil was being picked up, the area will be tested for chlorides and TPH and brought to OCD levels. Ranking for this area is Depth to ground water-0, wellhead protection area-0, surface water-0" This C-141 was denied and a request made for an amended form to be submitted. An inspection of the site was made on 10/11/05 by an OCD field inspector. Heavy oil type fluids were still standing in the berm area at time of inspection. Photos taken showing pooled fluids. An inspection of site on 10/12/05 was made. Backhoe Services was on location removing top layer of contaminated soils on South side of Tank Battery. An excavation around the West fiberglass tank was made on the South side of the tank. Contaminates exposed indicate tank is leaking or has had multiple releases over a period of time. Heavy contamination was being encountered at the 1' bgs level. Sandy pasture area just South of Tank Battery has had a produced fluid release at some point. Contamination visible in several areas in the pasture. Area at Northeast corner of location has a decommissioned heater treater. Area surrounding vessel has contamination evident. Backhoe operator has removed an estimated 6-10 yds of heavily contaminated soils from release area. Materials are stockpiled on location at West end of Battery. Materials are not on plastic. Soils obtained at Northwest corner of location and Berm replaced around tanks. Dirt contractor then left location. Pressure limiting device on injection pump is set at 1200 psi. Valve is closed on device rendering it unable to limit pressures. Amended C-141 was received 10/18/2005. Reported release: 30 bbls oil/emulsion and 160 bbls water. Reported recovery: 15 bbl oil/emulsion and 150 bbls water.
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Orders

No Orders Found

New Mexico Energy, Minerals and Natural Resources Department | Copyright 2012
1220 South St. Francis Drive | Santa Fe, NM 87505 | P: (505) 476-3200 | F: (505) 476-3220

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Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

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

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

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

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: James Kennedy Date: _____

email: James_Kennedy@eogresources.com Telephone: (432) 258-4346

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: _____ Title: _____

Signature: James Kennedy Date: _____

email: James_Kennedy@eogresources.com Telephone: (432) 258-4346

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: Bradford Billings Date: 11/02/2021

Printed Name: Bradford Billings Title: Envi.Spec.A



Appendix B

Site Characterization Documents

Groundwater Determination Bore

OG Resources
Big Eddy Unit 079Y

Legend

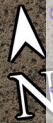
 1/2 Mile Radius

Released to Imaging: 11/2/2021 9:00:23 AM

Received by OCD: 10/7/2021 2:15:24 PM

EOG Big Eddy Unit 079Y

Groundwater Determination Bore





USGS Home
Contact USGS
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National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:

Click to hide News Bulletins

- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 322824104062301

Minimum number of levels = 1

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

USGS 322824104062301 21S.28E.17.34444

Eddy County, New Mexico

Latitude 32°28'24", Longitude 104°06'23" NAD27

Land-surface elevation 3,207 feet above NAVD88

The depth of the well is 500 feet below land surface.

This well is completed in the Capitan Limestone (313CPTN) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1965-12-02			D	72019	49.12					U
1976-12-14			D	72019	49.54					U
1983-01-19			D	72019	47.15					U
1987-10-15			D	72019	49.27					U
1988-03-18			D	72019	47.56					U
1993-01-13			D	72019	47.13					S
1998-01-28			D	72019	45.78					S

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	72019	Depth to water level, feet below land surface
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.

Section	Code	Description
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for New Mexico: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>



Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2021-02-04 12:56:48 EST

0.35 0.32 nadww01



(In feet)

Average Depth to Water:	116 feet
Minimum Depth:	50 feet
Maximum Depth:	151 feet

Radius: 2400

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

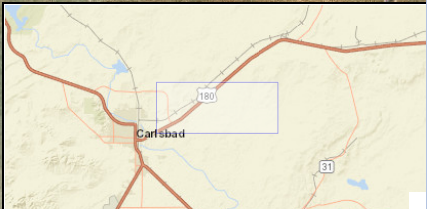
WATER COLUMN/ AVERAGE DEPTH TO WATER



National Water Information System: Mapper

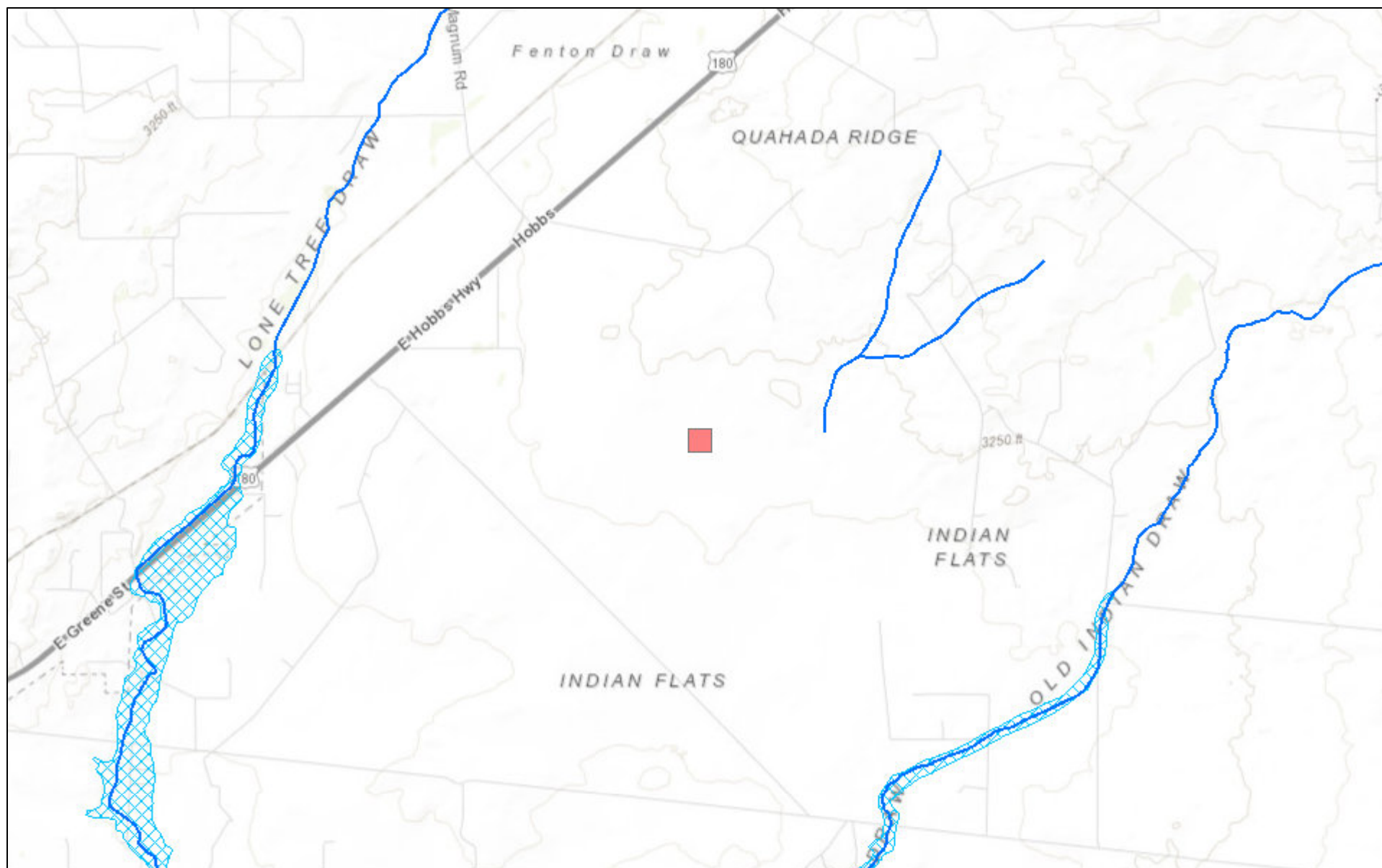
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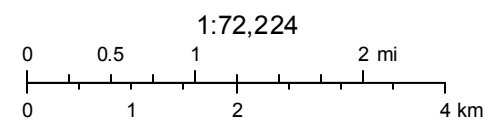


Site Information

New Mexico NFHL Data



February 4, 2021



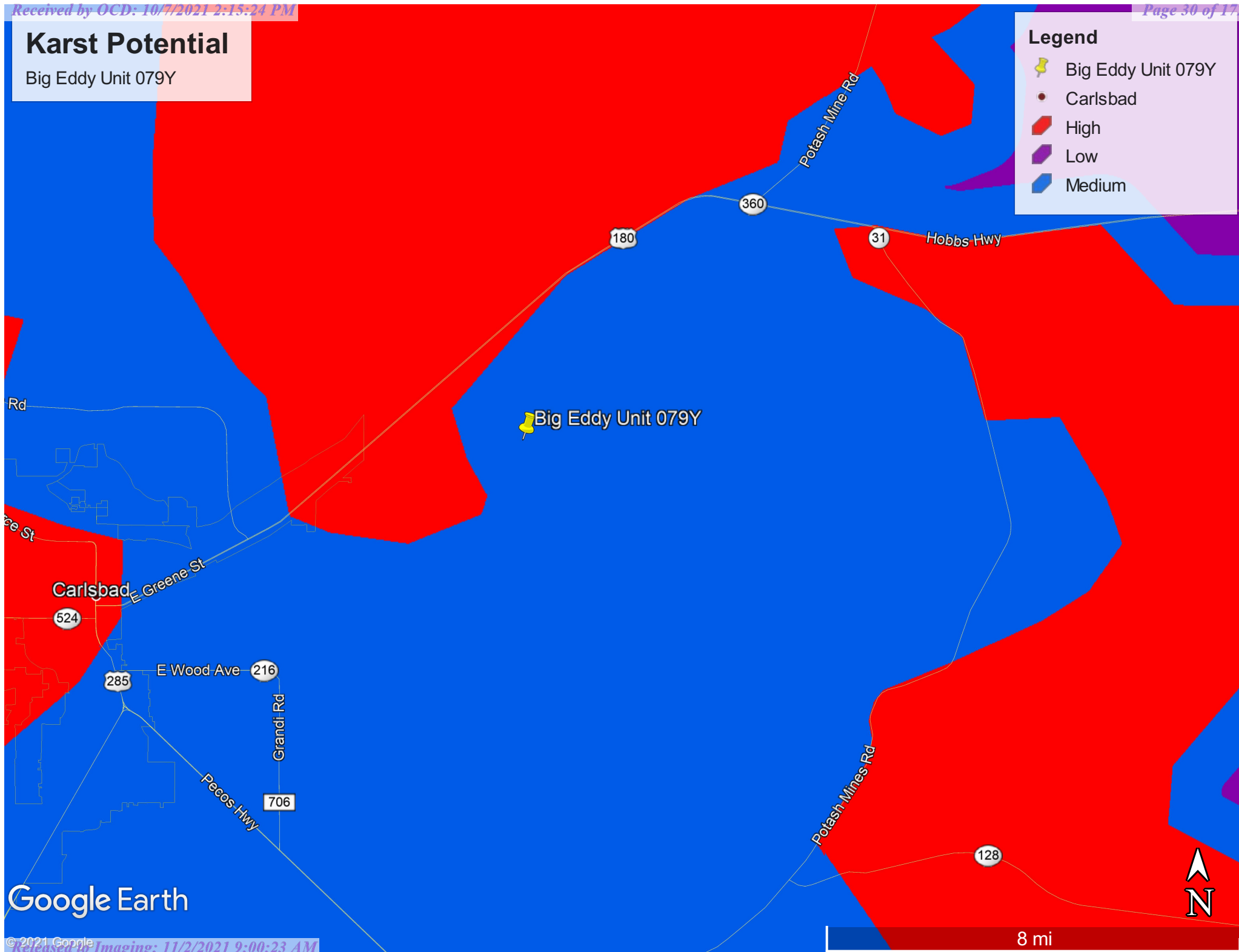
FEMA
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,

Karst Potential

Big Eddy Unit 079Y

Legend

-  Big Eddy Unit 079Y
-  Carlsbad
-  High
-  Low
-  Medium



Google Earth



Appendix C

Laboratory Reports



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-2539-1

Laboratory Sample Delivery Group: Eddy County, NM
Client Project/Site: EOG- Big Eddy Unit 079Y

For:

Tetra Tech, Inc.
901 W Wall
Ste 100
Midland, Texas 79701

Attn: Clair Gonzales

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

Authorized for release by:
5/31/2021 7:22:25 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

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results through

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Tetra Tech, Inc.
Project/Site: EOG- Big Eddy Unit 079Y

Laboratory Job ID: 880-2539-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: EOG- Big Eddy Unit 079Y

Job ID: 880-2539-1
SDG: Eddy County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
SQL	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.
Project/Site: EOG- Big Eddy Unit 079Y

Job ID: 880-2539-1
SDG: Eddy County, NM

Job ID: 880-2539-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-2539-1

Receipt

The samples were received on 5/27/2021 10:57 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.1°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: AH-3 (0'-1') (880-2539-3), H-2 (0'-1') (880-2539-6), H-3 (0'-1') (880-2539-7) and H-4 (0'-1') (880-2539-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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: EOG- Big Eddy Unit 079Y

Job ID: 880-2539-1
SDG: Eddy County, NM

Client Sample ID: AH-1 (0'-1')

Lab Sample ID: 880-2539-1

Date Collected: 05/26/21 12:00

Matrix: Solid

Date Received: 05/27/21 10:57

Sample Depth: 0' - 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/27/21 12:30	05/27/21 20:44	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/27/21 12:30	05/27/21 20:44	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/27/21 12:30	05/27/21 20:44	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/27/21 12:30	05/27/21 20:44	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/27/21 12:30	05/27/21 20:44	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/27/21 12:30	05/27/21 20:44	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		05/27/21 12:30	05/27/21 20:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	05/27/21 12:30	05/27/21 20:44	1
1,4-Difluorobenzene (Surr)	105		70 - 130	05/27/21 12:30	05/27/21 20:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/27/21 14:41	05/29/21 03:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/27/21 14:41	05/29/21 03:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/27/21 14:41	05/29/21 03:40	1
Total TPH	<49.8	U	49.8		mg/Kg		05/27/21 14:41	05/29/21 03:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	05/27/21 14:41	05/29/21 03:40	1
o-Terphenyl	87		70 - 130	05/27/21 14:41	05/29/21 03:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.6		4.99		mg/Kg			05/28/21 14:00	1

Client Sample ID: AH-2 (0'-1')

Lab Sample ID: 880-2539-2

Date Collected: 05/26/21 12:30

Matrix: Solid

Date Received: 05/27/21 10:57

Sample Depth: 0' - 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/27/21 12:30	05/27/21 21:05	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/27/21 12:30	05/27/21 21:05	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/27/21 12:30	05/27/21 21:05	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/27/21 12:30	05/27/21 21:05	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/27/21 12:30	05/27/21 21:05	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/27/21 12:30	05/27/21 21:05	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		05/27/21 12:30	05/27/21 21:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	05/27/21 12:30	05/27/21 21:05	1
1,4-Difluorobenzene (Surr)	124		70 - 130	05/27/21 12:30	05/27/21 21:05	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG- Big Eddy Unit 079Y

Job ID: 880-2539-1
SDG: Eddy County, NM

Client Sample ID: AH-2 (0'-1')

Lab Sample ID: 880-2539-2

Date Collected: 05/26/21 12:30

Matrix: Solid

Date Received: 05/27/21 10:57

Sample Depth: 0' - 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/27/21 14:41	05/29/21 04:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/27/21 14:41	05/29/21 04:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/27/21 14:41	05/29/21 04:02	1
Total TPH	<49.9	U	49.9		mg/Kg		05/27/21 14:41	05/29/21 04:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	05/27/21 14:41	05/29/21 04:02	1
o-Terphenyl	94		70 - 130	05/27/21 14:41	05/29/21 04:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.5		4.97		mg/Kg			05/28/21 14:15	1

Client Sample ID: AH-3 (0'-1')

Lab Sample ID: 880-2539-3

Date Collected: 05/26/21 13:00

Matrix: Solid

Date Received: 05/27/21 10:57

Sample Depth: 0' - 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/27/21 12:30	05/27/21 21:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/27/21 12:30	05/27/21 21:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/27/21 12:30	05/27/21 21:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/27/21 12:30	05/27/21 21:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/27/21 12:30	05/27/21 21:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/27/21 12:30	05/27/21 21:25	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/27/21 12:30	05/27/21 21:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	05/27/21 12:30	05/27/21 21:25	1
1,4-Difluorobenzene (Surr)	119		70 - 130	05/27/21 12:30	05/27/21 21:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/27/21 14:41	05/29/21 04:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/27/21 14:41	05/29/21 04:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/27/21 14:41	05/29/21 04:23	1
Total TPH	<50.0	U	50.0		mg/Kg		05/27/21 14:41	05/29/21 04:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	05/27/21 14:41	05/29/21 04:23	1
o-Terphenyl	86		70 - 130	05/27/21 14:41	05/29/21 04:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.5		4.95		mg/Kg			05/28/21 14:20	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG- Big Eddy Unit 079Y

Job ID: 880-2539-1
SDG: Eddy County, NM

Client Sample ID: AH-4 (0'-1')

Lab Sample ID: 880-2539-4

Date Collected: 05/26/21 13:30

Matrix: Solid

Date Received: 05/27/21 10:57

Sample Depth: 0' - 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/27/21 12:30	05/27/21 21:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/27/21 12:30	05/27/21 21:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/27/21 12:30	05/27/21 21:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/27/21 12:30	05/27/21 21:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/27/21 12:30	05/27/21 21:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/27/21 12:30	05/27/21 21:46	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/27/21 12:30	05/27/21 21:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	05/27/21 12:30	05/27/21 21:46	1
1,4-Difluorobenzene (Surr)	113		70 - 130	05/27/21 12:30	05/27/21 21:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/27/21 14:41	05/29/21 04:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/27/21 14:41	05/29/21 04:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/27/21 14:41	05/29/21 04:44	1
Total TPH	<49.9	U	49.9		mg/Kg		05/27/21 14:41	05/29/21 04:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	05/27/21 14:41	05/29/21 04:44	1
o-Terphenyl	98		70 - 130	05/27/21 14:41	05/29/21 04:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.3		5.02		mg/Kg			05/28/21 14:25	1

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

Lab Sample ID: 880-2539-5

Date Collected: 05/26/21 14:00

Matrix: Solid

Date Received: 05/27/21 10:57

Sample Depth: 0' - 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/27/21 12:30	05/27/21 22:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/27/21 12:30	05/27/21 22:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/27/21 12:30	05/27/21 22:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/27/21 12:30	05/27/21 22:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/27/21 12:30	05/27/21 22:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/27/21 12:30	05/27/21 22:07	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/27/21 12:30	05/27/21 22:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	05/27/21 12:30	05/27/21 22:07	1
1,4-Difluorobenzene (Surr)	120		70 - 130	05/27/21 12:30	05/27/21 22:07	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG- Big Eddy Unit 079Y

Job ID: 880-2539-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-2539-5

Date Collected: 05/26/21 14:00

Matrix: Solid

Date Received: 05/27/21 10:57

Sample Depth: 0' - 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/27/21 14:41	05/29/21 05:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/27/21 14:41	05/29/21 05:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/27/21 14:41	05/29/21 05:06	1
Total TPH	<50.0	U	50.0		mg/Kg		05/27/21 14:41	05/29/21 05:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	05/27/21 14:41	05/29/21 05:06	1
o-Terphenyl	99		70 - 130	05/27/21 14:41	05/29/21 05:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.6		5.02		mg/Kg			05/28/21 14:30	1

Client Sample ID: H-2 (0'-1')

Lab Sample ID: 880-2539-6

Date Collected: 05/26/21 14:30

Matrix: Solid

Date Received: 05/27/21 10:57

Sample Depth: 0' - 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/27/21 12:30	05/27/21 22:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/27/21 12:30	05/27/21 22:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/27/21 12:30	05/27/21 22:27	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/27/21 12:30	05/27/21 22:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/27/21 12:30	05/27/21 22:27	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/27/21 12:30	05/27/21 22:27	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		05/27/21 12:30	05/27/21 22:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	05/27/21 12:30	05/27/21 22:27	1
1,4-Difluorobenzene (Surr)	125		70 - 130	05/27/21 12:30	05/27/21 22:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/27/21 14:41	05/29/21 05:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/27/21 14:41	05/29/21 05:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/27/21 14:41	05/29/21 05:27	1
Total TPH	<50.0	U	50.0		mg/Kg		05/27/21 14:41	05/29/21 05:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	05/27/21 14:41	05/29/21 05:27	1
o-Terphenyl	93		70 - 130	05/27/21 14:41	05/29/21 05:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.4		4.98		mg/Kg			05/28/21 14:44	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG- Big Eddy Unit 079Y

Job ID: 880-2539-1
SDG: Eddy County, NM

Client Sample ID: H-3 (0'-1')

Lab Sample ID: 880-2539-7

Date Collected: 05/26/21 15:00

Matrix: Solid

Date Received: 05/27/21 10:57

Sample Depth: 0' - 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/27/21 12:30	05/27/21 22:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/27/21 12:30	05/27/21 22:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/27/21 12:30	05/27/21 22:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/27/21 12:30	05/27/21 22:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/27/21 12:30	05/27/21 22:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/27/21 12:30	05/27/21 22:48	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		05/27/21 12:30	05/27/21 22:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	05/27/21 12:30	05/27/21 22:48	1
1,4-Difluorobenzene (Surr)	117		70 - 130	05/27/21 12:30	05/27/21 22:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/27/21 14:41	05/29/21 06:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/27/21 14:41	05/29/21 06:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/27/21 14:41	05/29/21 06:10	1
Total TPH	<49.8	U	49.8		mg/Kg		05/27/21 14:41	05/29/21 06:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	05/27/21 14:41	05/29/21 06:10	1
o-Terphenyl	95		70 - 130	05/27/21 14:41	05/29/21 06:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	175		4.99		mg/Kg			05/28/21 14:49	1

Client Sample ID: H-4 (0'-1')

Lab Sample ID: 880-2539-8

Date Collected: 05/26/21 15:30

Matrix: Solid

Date Received: 05/27/21 10:57

Sample Depth: 0' - 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/27/21 12:30	05/27/21 23:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/27/21 12:30	05/27/21 23:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/27/21 12:30	05/27/21 23:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/27/21 12:30	05/27/21 23:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/27/21 12:30	05/27/21 23:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/27/21 12:30	05/27/21 23:09	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/27/21 12:30	05/27/21 23:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	05/27/21 12:30	05/27/21 23:09	1
1,4-Difluorobenzene (Surr)	124		70 - 130	05/27/21 12:30	05/27/21 23:09	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG- Big Eddy Unit 079Y

Job ID: 880-2539-1
SDG: Eddy County, NM

Client Sample ID: H-4 (0'-1')

Lab Sample ID: 880-2539-8

Date Collected: 05/26/21 15:30

Matrix: Solid

Date Received: 05/27/21 10:57

Sample Depth: 0' - 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/27/21 14:41	05/29/21 06:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/27/21 14:41	05/29/21 06:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/27/21 14:41	05/29/21 06:31	1
Total TPH	<49.9	U	49.9		mg/Kg		05/27/21 14:41	05/29/21 06:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	05/27/21 14:41	05/29/21 06:31	1
o-Terphenyl	89		70 - 130	05/27/21 14:41	05/29/21 06:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.1		5.00		mg/Kg			05/28/21 14:54	1

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

Lab Sample ID: 880-2539-9

Date Collected: 05/26/21 16:00

Matrix: Solid

Date Received: 05/27/21 10:57

Sample Depth: 0' - 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/27/21 12:30	05/27/21 23:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/27/21 12:30	05/27/21 23:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/27/21 12:30	05/27/21 23:29	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/27/21 12:30	05/27/21 23:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/27/21 12:30	05/27/21 23:29	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/27/21 12:30	05/27/21 23:29	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		05/27/21 12:30	05/27/21 23:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	05/27/21 12:30	05/27/21 23:29	1
1,4-Difluorobenzene (Surr)	118		70 - 130	05/27/21 12:30	05/27/21 23:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/27/21 14:41	05/29/21 06:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/27/21 14:41	05/29/21 06:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/27/21 14:41	05/29/21 06:54	1
Total TPH	<49.9	U	49.9		mg/Kg		05/27/21 14:41	05/29/21 06:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	05/27/21 14:41	05/29/21 06:54	1
o-Terphenyl	93		70 - 130	05/27/21 14:41	05/29/21 06:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	463		5.00		mg/Kg			05/28/21 14:59	1

Eurofins Xenco, Midland

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: EOG- Big Eddy Unit 079Y

Job ID: 880-2539-1
SDG: Eddy County, NM

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)
880-2539-1	AH-1 (0'-1')	96	105
880-2539-2	AH-2 (0'-1')	98	124
880-2539-3	AH-3 (0'-1')	103	119
880-2539-4	AH-4 (0'-1')	93	113
880-2539-5	H-1 (0'-1')	99	120
880-2539-6	H-2 (0'-1')	109	125
880-2539-7	H-3 (0'-1')	107	117
880-2539-8	H-4 (0'-1')	110	124
880-2539-9	H-5 (0'-1')	101	118
LCS 880-3570/1-A	Lab Control Sample	83	113
LCSD 880-3570/2-A	Lab Control Sample Dup	90	122
MB 880-3570/5-A	Method Blank	100	97
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)
880-2539-1	AH-1 (0'-1')	88	87
880-2539-2	AH-2 (0'-1')	98	94
880-2539-3	AH-3 (0'-1')	90	86
880-2539-4	AH-4 (0'-1')	104	98
880-2539-5	H-1 (0'-1')	108	99
880-2539-6	H-2 (0'-1')	104	93
880-2539-7	H-3 (0'-1')	99	95
880-2539-8	H-4 (0'-1')	93	89
880-2539-9	H-5 (0'-1')	104	93
LCS 880-3586/2-A	Lab Control Sample	100	89
LCSD 880-3586/3-A	Lab Control Sample Dup	99	88
MB 880-3586/1-A	Method Blank	101	98
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Xenco, Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG- Big Eddy Unit 079Y

Job ID: 880-2539-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3570/5-A

Matrix: Solid

Analysis Batch: 3571

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3570

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/27/21 11:00	05/27/21 15:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/27/21 11:00	05/27/21 15:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/27/21 11:00	05/27/21 15:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/27/21 11:00	05/27/21 15:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/27/21 11:00	05/27/21 15:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/27/21 11:00	05/27/21 15:46	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/27/21 11:00	05/27/21 15:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	05/27/21 11:00	05/27/21 15:46	1
1,4-Difluorobenzene (Surr)	97		70 - 130	05/27/21 11:00	05/27/21 15:46	1

Lab Sample ID: LCS 880-3570/1-A

Matrix: Solid

Analysis Batch: 3571

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3570

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09509		mg/Kg		95	70 - 130
Toluene	0.100	0.09670		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.09177		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.1821		mg/Kg		91	70 - 130
o-Xylene	0.100	0.08735		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: LCSD 880-3570/2-A

Matrix: Solid

Analysis Batch: 3571

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3570

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1037		mg/Kg		104	70 - 130	9	35
Toluene	0.100	0.1067		mg/Kg		107	70 - 130	10	35
Ethylbenzene	0.100	0.09644		mg/Kg		96	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1950		mg/Kg		97	70 - 130	7	35
o-Xylene	0.100	0.09500		mg/Kg		95	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	122		70 - 130

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG- Big Eddy Unit 079Y

Job ID: 880-2539-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-3586/1-A

Matrix: Solid

Analysis Batch: 3616

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3586

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/27/21 14:41	05/29/21 00:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/27/21 14:41	05/29/21 00:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/27/21 14:41	05/29/21 00:28	1
Total TPH	<50.0	U	50.0		mg/Kg		05/27/21 14:41	05/29/21 00:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	05/27/21 14:41	05/29/21 00:28	1
o-Terphenyl	98		70 - 130	05/27/21 14:41	05/29/21 00:28	1

Lab Sample ID: LCS 880-3586/2-A

Matrix: Solid

Analysis Batch: 3616

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3586

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	888.8		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	1000	945.8		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: LCSD 880-3586/3-A

Matrix: Solid

Analysis Batch: 3616

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3586

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	891.8		mg/Kg		89	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	937.7		mg/Kg		94	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	88		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3587/1-A

Matrix: Solid

Analysis Batch: 3608

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/28/21 13:46	1

Eurofins Xenco, Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG- Big Eddy Unit 079Y

Job ID: 880-2539-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-3587/2-A

Matrix: Solid

Analysis Batch: 3608

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	244.0		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-3587/3-A

Matrix: Solid

Analysis Batch: 3608

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	244.1		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-2539-1 MS

Matrix: Solid

Analysis Batch: 3608

Client Sample ID: AH-1 (0'-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	53.6		250	298.5		mg/Kg		98	90 - 110		

Lab Sample ID: 880-2539-1 MSD

Matrix: Solid

Analysis Batch: 3608

Client Sample ID: AH-1 (0'-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	53.6		250	298.4		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: EOG- Big Eddy Unit 079Y

Job ID: 880-2539-1
SDG: Eddy County, NM

GC VOA

Prep Batch: 3570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2539-1	AH-1 (0'-1')	Total/NA	Solid	5035	
880-2539-2	AH-2 (0'-1')	Total/NA	Solid	5035	
880-2539-3	AH-3 (0'-1')	Total/NA	Solid	5035	
880-2539-4	AH-4 (0'-1')	Total/NA	Solid	5035	
880-2539-5	H-1 (0'-1')	Total/NA	Solid	5035	
880-2539-6	H-2 (0'-1')	Total/NA	Solid	5035	
880-2539-7	H-3 (0'-1')	Total/NA	Solid	5035	
880-2539-8	H-4 (0'-1')	Total/NA	Solid	5035	
880-2539-9	H-5 (0'-1')	Total/NA	Solid	5035	
MB 880-3570/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3570/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3570/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 3571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2539-1	AH-1 (0'-1')	Total/NA	Solid	8021B	3570
880-2539-2	AH-2 (0'-1')	Total/NA	Solid	8021B	3570
880-2539-3	AH-3 (0'-1')	Total/NA	Solid	8021B	3570
880-2539-4	AH-4 (0'-1')	Total/NA	Solid	8021B	3570
880-2539-5	H-1 (0'-1')	Total/NA	Solid	8021B	3570
880-2539-6	H-2 (0'-1')	Total/NA	Solid	8021B	3570
880-2539-7	H-3 (0'-1')	Total/NA	Solid	8021B	3570
880-2539-8	H-4 (0'-1')	Total/NA	Solid	8021B	3570
880-2539-9	H-5 (0'-1')	Total/NA	Solid	8021B	3570
MB 880-3570/5-A	Method Blank	Total/NA	Solid	8021B	3570
LCS 880-3570/1-A	Lab Control Sample	Total/NA	Solid	8021B	3570
LCSD 880-3570/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3570

GC Semi VOA

Prep Batch: 3586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2539-1	AH-1 (0'-1')	Total/NA	Solid	8015NM Prep	
880-2539-2	AH-2 (0'-1')	Total/NA	Solid	8015NM Prep	
880-2539-3	AH-3 (0'-1')	Total/NA	Solid	8015NM Prep	
880-2539-4	AH-4 (0'-1')	Total/NA	Solid	8015NM Prep	
880-2539-5	H-1 (0'-1')	Total/NA	Solid	8015NM Prep	
880-2539-6	H-2 (0'-1')	Total/NA	Solid	8015NM Prep	
880-2539-7	H-3 (0'-1')	Total/NA	Solid	8015NM Prep	
880-2539-8	H-4 (0'-1')	Total/NA	Solid	8015NM Prep	
880-2539-9	H-5 (0'-1')	Total/NA	Solid	8015NM Prep	
MB 880-3586/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3586/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3586/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 3616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2539-1	AH-1 (0'-1')	Total/NA	Solid	8015B NM	3586
880-2539-2	AH-2 (0'-1')	Total/NA	Solid	8015B NM	3586
880-2539-3	AH-3 (0'-1')	Total/NA	Solid	8015B NM	3586
880-2539-4	AH-4 (0'-1')	Total/NA	Solid	8015B NM	3586

Eurofins Xenco, Midland

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: EOG- Big Eddy Unit 079Y

Job ID: 880-2539-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 3616 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2539-5	H-1 (0'-1')	Total/NA	Solid	8015B NM	3586
880-2539-6	H-2 (0'-1')	Total/NA	Solid	8015B NM	3586
880-2539-7	H-3 (0'-1')	Total/NA	Solid	8015B NM	3586
880-2539-8	H-4 (0'-1')	Total/NA	Solid	8015B NM	3586
880-2539-9	H-5 (0'-1')	Total/NA	Solid	8015B NM	3586
MB 880-3586/1-A	Method Blank	Total/NA	Solid	8015B NM	3586
LCS 880-3586/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3586
LCSD 880-3586/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3586

HPLC/IC

Leach Batch: 3587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2539-1	AH-1 (0'-1')	Soluble	Solid	DI Leach	
880-2539-2	AH-2 (0'-1')	Soluble	Solid	DI Leach	
880-2539-3	AH-3 (0'-1')	Soluble	Solid	DI Leach	
880-2539-4	AH-4 (0'-1')	Soluble	Solid	DI Leach	
880-2539-5	H-1 (0'-1')	Soluble	Solid	DI Leach	
880-2539-6	H-2 (0'-1')	Soluble	Solid	DI Leach	
880-2539-7	H-3 (0'-1')	Soluble	Solid	DI Leach	
880-2539-8	H-4 (0'-1')	Soluble	Solid	DI Leach	
880-2539-9	H-5 (0'-1')	Soluble	Solid	DI Leach	
MB 880-3587/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3587/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3587/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-2539-1 MS	AH-1 (0'-1')	Soluble	Solid	DI Leach	
880-2539-1 MSD	AH-1 (0'-1')	Soluble	Solid	DI Leach	

Analysis Batch: 3608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2539-1	AH-1 (0'-1')	Soluble	Solid	300.0	3587
880-2539-2	AH-2 (0'-1')	Soluble	Solid	300.0	3587
880-2539-3	AH-3 (0'-1')	Soluble	Solid	300.0	3587
880-2539-4	AH-4 (0'-1')	Soluble	Solid	300.0	3587
880-2539-5	H-1 (0'-1')	Soluble	Solid	300.0	3587
880-2539-6	H-2 (0'-1')	Soluble	Solid	300.0	3587
880-2539-7	H-3 (0'-1')	Soluble	Solid	300.0	3587
880-2539-8	H-4 (0'-1')	Soluble	Solid	300.0	3587
880-2539-9	H-5 (0'-1')	Soluble	Solid	300.0	3587
MB 880-3587/1-A	Method Blank	Soluble	Solid	300.0	3587
LCS 880-3587/2-A	Lab Control Sample	Soluble	Solid	300.0	3587
LCSD 880-3587/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3587
880-2539-1 MS	AH-1 (0'-1')	Soluble	Solid	300.0	3587
880-2539-1 MSD	AH-1 (0'-1')	Soluble	Solid	300.0	3587

Eurofins Xenco, Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: EOG- Big Eddy Unit 079Y

Job ID: 880-2539-1
SDG: Eddy County, NM

Client Sample ID: AH-1 (0'-1')

Lab Sample ID: 880-2539-1

Date Collected: 05/26/21 12:00

Matrix: Solid

Date Received: 05/27/21 10:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	3570	05/27/21 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3571	05/27/21 20:44	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3586	05/27/21 14:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3616	05/29/21 03:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	3587	05/27/21 14:55	CH	XEN MID
Soluble	Analysis	300.0		1			3608	05/28/21 14:00	SC	XEN MID

Client Sample ID: AH-2 (0'-1')

Lab Sample ID: 880-2539-2

Date Collected: 05/26/21 12:30

Matrix: Solid

Date Received: 05/27/21 10:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	3570	05/27/21 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3571	05/27/21 21:05	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	3586	05/27/21 14:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3616	05/29/21 04:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	3587	05/27/21 14:55	CH	XEN MID
Soluble	Analysis	300.0		1			3608	05/28/21 14:15	SC	XEN MID

Client Sample ID: AH-3 (0'-1')

Lab Sample ID: 880-2539-3

Date Collected: 05/26/21 13:00

Matrix: Solid

Date Received: 05/27/21 10:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	3570	05/27/21 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3571	05/27/21 21:25	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3586	05/27/21 14:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3616	05/29/21 04:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	3587	05/27/21 14:55	CH	XEN MID
Soluble	Analysis	300.0		1			3608	05/28/21 14:20	SC	XEN MID

Client Sample ID: AH-4 (0'-1')

Lab Sample ID: 880-2539-4

Date Collected: 05/26/21 13:30

Matrix: Solid

Date Received: 05/27/21 10:57

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	3570	05/27/21 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3571	05/27/21 21:46	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	3586	05/27/21 14:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3616	05/29/21 04:44	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	3587	05/27/21 14:55	CH	XEN MID
Soluble	Analysis	300.0		1			3608	05/28/21 14:25	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: EOG- Big Eddy Unit 079Y

Job ID: 880-2539-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-2539-5

Date Collected: 05/26/21 14:00

Matrix: Solid

Date Received: 05/27/21 10:57

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	3570	05/27/21 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3571	05/27/21 22:07	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3586	05/27/21 14:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3616	05/29/21 05:06	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	3587	05/27/21 14:55	CH	XEN MID
Soluble	Analysis	300.0		1			3608	05/28/21 14:30	SC	XEN MID

Client Sample ID: H-2 (0'-1')

Lab Sample ID: 880-2539-6

Date Collected: 05/26/21 14:30

Matrix: Solid

Date Received: 05/27/21 10:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	3570	05/27/21 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3571	05/27/21 22:27	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	3586	05/27/21 14:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3616	05/29/21 05:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	3587	05/27/21 14:55	CH	XEN MID
Soluble	Analysis	300.0		1			3608	05/28/21 14:44	SC	XEN MID

Client Sample ID: H-3 (0'-1')

Lab Sample ID: 880-2539-7

Date Collected: 05/26/21 15:00

Matrix: Solid

Date Received: 05/27/21 10:57

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	3570	05/27/21 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3571	05/27/21 22:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	3586	05/27/21 14:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3616	05/29/21 06:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	3587	05/27/21 14:55	CH	XEN MID
Soluble	Analysis	300.0		1			3608	05/28/21 14:49	SC	XEN MID

Client Sample ID: H-4 (0'-1')

Lab Sample ID: 880-2539-8

Date Collected: 05/26/21 15:30

Matrix: Solid

Date Received: 05/27/21 10:57

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	3570	05/27/21 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3571	05/27/21 23:09	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3586	05/27/21 14:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3616	05/29/21 06:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.0 g	50 mL	3587	05/27/21 14:55	CH	XEN MID
Soluble	Analysis	300.0		1			3608	05/28/21 14:54	SC	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: EOG- Big Eddy Unit 079Y

Job ID: 880-2539-1
SDG: Eddy County, NM

Client Sample ID: H-5 (0'-1')
Date Collected: 05/26/21 16:00
Date Received: 05/27/21 10:57

Lab Sample ID: 880-2539-9
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			4.99 g	5 mL	3570	05/27/21 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3571	05/27/21 23:29	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3586	05/27/21 14:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3616	05/29/21 06:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.0 g	50 mL	3587	05/27/21 14:55	CH	XEN MID
Soluble	Analysis	300.0		1			3608	05/28/21 14:59	SC	XEN MID

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: EOG- Big Eddy Unit 079Y

Job ID: 880-2539-1
SDG: Eddy County, NM

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

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
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
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- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Tetra Tech, Inc.
Project/Site: EOG- Big Eddy Unit 079Y

Job ID: 880-2539-1
SDG: Eddy County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

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

Eurofins Xenco, Midland

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: EOG- Big Eddy Unit 079Y

Job ID: 880-2539-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-2539-1	AH-1 (0'-1')	Solid	05/26/21 12:00	05/27/21 10:57	0' - 1'
880-2539-2	AH-2 (0'-1')	Solid	05/26/21 12:30	05/27/21 10:57	0' - 1'
880-2539-3	AH-3 (0'-1')	Solid	05/26/21 13:00	05/27/21 10:57	0' - 1'
880-2539-4	AH-4 (0'-1')	Solid	05/26/21 13:30	05/27/21 10:57	0' - 1'
880-2539-5	H-1 (0'-1')	Solid	05/26/21 14:00	05/27/21 10:57	0' - 1'
880-2539-6	H-2 (0'-1')	Solid	05/26/21 14:30	05/27/21 10:57	0' - 1'
880-2539-7	H-3 (0'-1')	Solid	05/26/21 15:00	05/27/21 10:57	0' - 1'
880-2539-8	H-4 (0'-1')	Solid	05/26/21 15:30	05/27/21 10:57	0' - 1'
880-2539-9	H-5 (0'-1')	Solid	05/26/21 16:00	05/27/21 10:57	0' - 1'

Analysis Request of Chain of Custody Record

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14**Tetra Tech, Inc.**901 W
N

880-2539 Chain of Custody

Fax (704) 442-0070



880-2539

Page 1 of 1

5/31/2021

Client Name: EOG

Site Manager:

Brittany Long

Project Name: Big Eddy Unit 079Y

Contact Info:

Email: Brittany.Long@tetratech.com
Phone: (432) 682-4559Project Location: Eddy County, New Mexico
(county, state)

Project #:

212C-MD-02421

Invoice to: James Kennedy (EOG)

Receiving Laboratory: Xenco Labs

Sampler Signature:

Andrew Garcia

Comments:

SAMPLE IDENTIFICATION

LAB #
(LAB USE ONLY)

SAMPLING

YEAR 2021

MATRIX

PRESERVATIVE METHOD

WATER
SOIL
HCL
HNO₃
ICE
NONE# CONTAINERS
FILTERED (Y/N)

BTX 8021B BTX 8260B

TPH TX1005 (Ext to C35)

TPH 8015M (GRO DRO ORO - MRO)

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol 8260B / 624

GC/MS Semi Vol 8270C/625

PCBs 8082 / 608

NORM

PLM (Asbestos)

Chloride 300 O

Chloride Sulfate TDS

General Water Chemistry (see attached list)

Anion/Cation Balance

TPH 8015R

HOLD

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	DATE	TIME	MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
AH-1 (0-1')	05/27/21	1200	X	X	1	N
AH-2 (0-1')	05/27/21	1230	X	X	1	N
AH-3 (0-1')	05/27/21	1300	X	X	1	N
AH-4 (0-1')	05/27/21	1330	X	X	1	N
H-1 (0-1')	05/27/21	1400	X	X	1	N
H-2 (0-1')	05/27/21	1430	X	X	1	N
H-3 (0-1')	05/27/21	1500	X	X	1	N
H-4 (0-1')	05/27/21	1530	X	X	1	N
H-5 (0-1')	05/27/21	1600	X	X	1	N

BTX 8021B	BTX 8260B
TPH TX1005 (Ext to C35)	
TPH 8015M (GRO DRO ORO - MRO)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol 8260B / 624	
GC/MS Semi Vol 8270C/625	
PCBs 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride 300 O	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	
TPH 8015R	
HOLD	

LAB USE ONLY

REMARKS:

LAB USE ONLY

REMARKS:

72HR

Sample Temperature

3.6/4.1

+0.5

Standard

RUSH Same Day 24 hr 48 hr

2hr

Rush Charges Authorized

Special Report Limits or TRRP Report

Relinquished by

Date Time

Relinquished by

Date Time

Relinquished by

Date Time

Received by

Date

Received by

Date

Received by

Date

Date Time

Date Time

Date Time

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-2539-1

SDG Number: Eddy County, NM

Login Number: 2539

List Number: 1

Creator: Phillips, Kerianna

List Source: Eurofins Xenco, 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.	True	
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	

Certificate of Analysis Summary 686479

Tetra Tech- Midland, Midland, TX

Project Name: Big Eddy Unit 079Y

Project Id:

Contact: Brittany Long

Project Location: Eddy County, New Mexico

Date Received in Lab: Thu 01.28.2021 15:16

Report Date: 02.02.2021 09:37

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	686479-001	686479-002	686479-003	686479-004	686479-005	
	<i>Field Id:</i>	AH-5 (0-1')	AH-5 (1'-1.5')	AH-6 (0-1')	AH-6 (1'-1.5')	AH-7 (0-1')	
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	
	<i>Sampled:</i>	01.27.2021 00:00	01.27.2021 00:00	01.27.2021 00:00	01.27.2021 00:00	01.27.2021 00:00	
BTEX by EPA 8021B	<i>Extracted:</i>	01.29.2021 17:45	01.29.2021 17:45	01.29.2021 17:45	01.29.2021 17:45	01.29.2021 17:45	
	<i>Analyzed:</i>	01.30.2021 16:34	01.30.2021 16:55	01.30.2021 17:15	01.30.2021 17:36	01.30.2021 17:56	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Benzene		<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202	
Toluene		<0.00199 0.00199	0.00654 0.00198	<0.00198 0.00198	0.00286 0.00199	<0.00202 0.00202	
Ethylbenzene		<0.00199 0.00199	0.00313 0.00198	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202	
m,p-Xylenes		<0.00398 0.00398	0.0130 0.00397	<0.00396 0.00396	0.00531 0.00398	<0.00403 0.00403	
o-Xylene		<0.00199 0.00199	0.00493 0.00198	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202	
Total Xylenes		<0.00199 0.00199	0.0179 0.00198	<0.00198 0.00198	0.00531 0.00199	<0.00202 0.00202	
Total BTEX		<0.00199 0.00199	0.0276 0.00198	<0.00198 0.00198	0.00817 0.00199	<0.00202 0.00202	
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	01.29.2021 10:25	01.29.2021 10:25	01.29.2021 10:25	01.29.2021 10:25	01.29.2021 10:25	
	<i>Analyzed:</i>	01.31.2021 14:51	01.31.2021 14:56	01.31.2021 15:01	01.31.2021 15:06	01.31.2021 15:12	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		1850 25.1	1140 25.0	2980 25.0	1140 25.2	563 24.9	
TPH By SW8015 Mod	<i>Extracted:</i>	01.29.2021 17:00	01.29.2021 17:00	01.29.2021 17:00	01.29.2021 17:00	01.29.2021 17:00	
	<i>Analyzed:</i>	01.30.2021 00:46	01.29.2021 23:42	01.30.2021 01:08	01.30.2021 01:29	01.30.2021 01:51	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	
Total TPH		<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	

BRL - Below Reporting Limit

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



Analytical Report 686479

for

Tetra Tech- Midland

Project Manager: Brittany Long

Big Eddy Unit 079Y

02.02.2021

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

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

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

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



02.02.2021

Project Manager: **Brittany Long**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **686479**

Big Eddy Unit 079Y

Project Address: Eddy County, New Mexico

Brittany Long:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 686479. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 686479 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

**Sample Cross Reference 686479****Tetra Tech- Midland, Midland, TX**

Big Eddy Unit 079Y

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
AH-5 (0-1')	S	01.27.2021 00:00		686479-001
AH-5 (1'-1.5')	S	01.27.2021 00:00		686479-002
AH-6 (0-1')	S	01.27.2021 00:00		686479-003
AH-6 (1'-1.5')	S	01.27.2021 00:00		686479-004
AH-7 (0-1')	S	01.27.2021 00:00		686479-005

**CASE NARRATIVE****Client Name: Tetra Tech- Midland****Project Name: Big Eddy Unit 079Y**Project ID:
Work Order Number(s): 686479Report Date: 02.02.2021
Date Received: 01.28.2021**Sample receipt non conformances and comments:****Sample receipt non conformances and comments per sample:**

None

Analytical non conformances and comments:

Batch: LBA-3149481 BTEX by EPA 8021B

Lab Sample ID 686479-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 686479-001, -002, -003, -004, -005.

The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene Relative Percent Difference (RPD) between matrix spike and duplicate were above quality control limits.

Samples in the analytical batch are: 686479-001, -002, -003, -004, -005



Certificate of Analytical Results 686479

Tetra Tech- Midland, Midland, TX

Big Eddy Unit 079Y

Sample Id: **AH-5 (0-1')**

Matrix: Soil

Date Received: 01.28.2021 15:16

Lab Sample Id: 686479-001

Date Collected: 01.27.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 01.29.2021 10:25

% Moisture:

Seq Number: 3149493

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1850	25.1	mg/kg	01.31.2021 14:51		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 01.29.2021 17:00

% Moisture:

Seq Number: 3149602

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.30.2021 00:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.30.2021 00:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.30.2021 00:46	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.30.2021 00:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-130	01.30.2021 00:46	
o-Terphenyl	84-15-1	115	%	70-130	01.30.2021 00:46	



Certificate of Analytical Results 686479

Tetra Tech- Midland, Midland, TX

Big Eddy Unit 079Y

Sample Id: **AH-5 (0-1')**

Matrix: Soil

Date Received: 01.28.2021 15:16

Lab Sample Id: 686479-001

Date Collected: 01.27.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 01.29.2021 17:45

% Moisture:

Seq Number: 3149481

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.30.2021 16:34	UXF	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.30.2021 16:34	UXF	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.30.2021 16:34	UXF	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.30.2021 16:34	UXF	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.30.2021 16:34	UXF	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.30.2021 16:34	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.30.2021 16:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	85	%	70-130	01.30.2021 16:34	
4-Bromofluorobenzene	460-00-4	113	%	70-130	01.30.2021 16:34	



Certificate of Analytical Results 686479

Tetra Tech- Midland, Midland, TX

Big Eddy Unit 079Y

Sample Id: **AH-5 (1'-1.5')**

Matrix: Soil

Date Received: 01.28.2021 15:16

Lab Sample Id: 686479-002

Date Collected: 01.27.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 01.29.2021 10:25

% Moisture:

Seq Number: 3149493

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1140	25.0	mg/kg	01.31.2021 14:56		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 01.29.2021 17:00

% Moisture:

Seq Number: 3149602

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.29.2021 23:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.29.2021 23:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.29.2021 23:42	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.29.2021 23:42	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	114	%	70-130	01.29.2021 23:42		
o-Terphenyl	84-15-1	117	%	70-130	01.29.2021 23:42		



Certificate of Analytical Results 686479

Tetra Tech- Midland, Midland, TX

Big Eddy Unit 079Y

Sample Id: **AH-5 (1'-1.5')**

Matrix: Soil

Date Received: 01.28.2021 15:16

Lab Sample Id: 686479-002

Date Collected: 01.27.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 01.29.2021 17:45

% Moisture:

Seq Number: 3149481

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.30.2021 16:55	U	1
Toluene	108-88-3	0.00654	0.00198	mg/kg	01.30.2021 16:55		1
Ethylbenzene	100-41-4	0.00313	0.00198	mg/kg	01.30.2021 16:55		1
m,p-Xylenes	179601-23-1	0.0130	0.00397	mg/kg	01.30.2021 16:55		1
o-Xylene	95-47-6	0.00493	0.00198	mg/kg	01.30.2021 16:55		1
Total Xylenes	1330-20-7	0.0179	0.00198	mg/kg	01.30.2021 16:55		1
Total BTEX		0.0276	0.00198	mg/kg	01.30.2021 16:55		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	01.30.2021 16:55		
1,4-Difluorobenzene	540-36-3	88	%	70-130	01.30.2021 16:55		



Certificate of Analytical Results 686479

Tetra Tech- Midland, Midland, TX

Big Eddy Unit 079Y

Sample Id: **AH-6 (0-1')**

Matrix: Soil

Date Received: 01.28.2021 15:16

Lab Sample Id: 686479-003

Date Collected: 01.27.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 01.29.2021 10:25

% Moisture:

Seq Number: 3149493

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2980	25.0	mg/kg	01.31.2021 15:01		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 01.29.2021 17:00

% Moisture:

Seq Number: 3149602

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.30.2021 01:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.30.2021 01:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.30.2021 01:08	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.30.2021 01:08	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	116	%	70-130	01.30.2021 01:08		
o-Terphenyl	84-15-1	110	%	70-130	01.30.2021 01:08		



Certificate of Analytical Results 686479

Tetra Tech- Midland, Midland, TX

Big Eddy Unit 079Y

Sample Id: **AH-6 (0-1')**

Matrix: Soil

Date Received: 01.28.2021 15:16

Lab Sample Id: 686479-003

Date Collected: 01.27.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 01.29.2021 17:45

% Moisture:

Seq Number: 3149481

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.30.2021 17:15	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.30.2021 17:15	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.30.2021 17:15	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	01.30.2021 17:15	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.30.2021 17:15	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.30.2021 17:15	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.30.2021 17:15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	109	%	70-130	01.30.2021 17:15		
1,4-Difluorobenzene	540-36-3	97	%	70-130	01.30.2021 17:15		



Certificate of Analytical Results 686479

Tetra Tech- Midland, Midland, TX

Big Eddy Unit 079Y

Sample Id: **AH-6 (1'-1.5')**

Matrix: Soil

Date Received: 01.28.2021 15:16

Lab Sample Id: 686479-004

Date Collected: 01.27.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 01.29.2021 10:25

% Moisture:

Seq Number: 3149493

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1140	25.2	mg/kg	01.31.2021 15:06		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 01.29.2021 17:00

% Moisture:

Seq Number: 3149602

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.30.2021 01:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.30.2021 01:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.30.2021 01:29	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.30.2021 01:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-130	01.30.2021 01:29	
o-Terphenyl	84-15-1	101	%	70-130	01.30.2021 01:29	



Certificate of Analytical Results 686479

Tetra Tech- Midland, Midland, TX

Big Eddy Unit 079Y

Sample Id: **AH-6 (1'-1.5')**

Matrix: Soil

Date Received: 01.28.2021 15:16

Lab Sample Id: 686479-004

Date Collected: 01.27.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 01.29.2021 17:45

% Moisture:

Seq Number: 3149481

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.30.2021 17:36	U	1
Toluene	108-88-3	0.00286	0.00199	mg/kg	01.30.2021 17:36		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.30.2021 17:36	U	1
m,p-Xylenes	179601-23-1	0.00531	0.00398	mg/kg	01.30.2021 17:36		1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.30.2021 17:36	U	1
Total Xylenes	1330-20-7	0.00531	0.00199	mg/kg	01.30.2021 17:36		1
Total BTEX		0.00817	0.00199	mg/kg	01.30.2021 17:36		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	01.30.2021 17:36		
1,4-Difluorobenzene	540-36-3	87	%	70-130	01.30.2021 17:36		



Certificate of Analytical Results 686479

Tetra Tech- Midland, Midland, TX

Big Eddy Unit 079Y

Sample Id: **AH-7 (0-1')**

Matrix: Soil

Date Received: 01.28.2021 15:16

Lab Sample Id: 686479-005

Date Collected: 01.27.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 01.29.2021 10:25

% Moisture:

Seq Number: 3149493

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	563	24.9	mg/kg	01.31.2021 15:12		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 01.29.2021 17:00

% Moisture:

Seq Number: 3149602

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.30.2021 01:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.30.2021 01:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.30.2021 01:51	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.30.2021 01:51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	112	%	70-130	01.30.2021 01:51		
o-Terphenyl	84-15-1	102	%	70-130	01.30.2021 01:51		



Certificate of Analytical Results 686479

Tetra Tech- Midland, Midland, TX

Big Eddy Unit 079Y

Sample Id: **AH-7 (0-1')**

Matrix: Soil

Date Received: 01.28.2021 15:16

Lab Sample Id: 686479-005

Date Collected: 01.27.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 01.29.2021 17:45

% Moisture:

Seq Number: 3149481

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.30.2021 17:56	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.30.2021 17:56	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.30.2021 17:56	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.30.2021 17:56	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.30.2021 17:56	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.30.2021 17:56	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.30.2021 17:56	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	96	%	70-130	01.30.2021 17:56		
4-Bromofluorobenzene	460-00-4	107	%	70-130	01.30.2021 17:56		

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Tetra Tech- Midland

Big Eddy Unit 079Y

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3149493

Matrix: Solid

Prep Method: E300P

Date Prep: 01.29.2021

MB Sample Id: 7720290-1-BLK

LCS Sample Id: 7720290-1-BKS

LCSD Sample Id: 7720290-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	242	97	241	96	90-110	0	20	mg/kg	01.31.2021 12:46	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3149493

Matrix: Soil

Prep Method: E300P

Date Prep: 01.29.2021

Parent Sample Id: 686243-043

MS Sample Id: 686243-043 S

MSD Sample Id: 686243-043 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	16.4	249	281	106	278	105	90-110	1	20	mg/kg	01.31.2021 13:02	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3149493

Matrix: Soil

Prep Method: E300P

Date Prep: 01.29.2021

Parent Sample Id: 686243-053

MS Sample Id: 686243-053 S

MSD Sample Id: 686243-053 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	10.1	251	288	111	274	105	90-110	5	20	mg/kg	01.31.2021 14:14	X

Analytical Method: TPH By SW8015 Mod

Seq Number: 3149602

Matrix: Solid

Prep Method: SW8015P

Date Prep: 01.29.2021

MB Sample Id: 7720491-1-BLK

LCS Sample Id: 7720491-1-BKS

LCSD Sample Id: 7720491-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	940	94	1000	100	70-130	6	20	mg/kg	01.29.2021 22:58	
Diesel Range Organics (DRO)	<50.0	1000	972	97	975	98	70-130	0	20	mg/kg	01.29.2021 22:58	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	109		119		119		70-130	%	01.29.2021 22:58
o-Terphenyl	104		105		106		70-130	%	01.29.2021 22:58

Analytical Method: TPH By SW8015 Mod

Seq Number: 3149602

Matrix: Solid

Prep Method: SW8015P

Date Prep: 01.29.2021

MB Sample Id: 7720491-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.29.2021 22:37	

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

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

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

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



Tetra Tech- Midland

Big Eddy Unit 079Y

Analytical Method: TPH By SW8015 Mod

Seq Number: 3149602

Parent Sample Id: 686479-002

Matrix: Soil

MS Sample Id: 686479-002 S

Prep Method: SW8015P

Date Prep: 01.29.2021

MSD Sample Id: 686479-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	1070	107	989	99	70-130	8	20	mg/kg	01.30.2021 00:03	
Diesel Range Organics (DRO)	<49.9	997	1090	109	961	96	70-130	13	20	mg/kg	01.30.2021 00:03	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	117		106		70-130	%	01.30.2021 00:03
o-Terphenyl	107		95		70-130	%	01.30.2021 00:03

Analytical Method: BTEX by EPA 8021B

Seq Number: 3149481

MB Sample Id: 7720419-1-BLK

Matrix: Solid

LCS Sample Id: 7720419-1-BKS

Prep Method: SW5035A

Date Prep: 01.29.2021

LCSD Sample Id: 7720419-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0966	97	0.0992	99	70-130	3	35	mg/kg	01.30.2021 14:13	
Toluene	<0.00200	0.100	0.0903	90	0.0926	93	70-130	3	35	mg/kg	01.30.2021 14:13	
Ethylbenzene	<0.00200	0.100	0.0910	91	0.0933	93	70-130	2	35	mg/kg	01.30.2021 14:13	
m,p-Xylenes	<0.00400	0.200	0.181	91	0.183	92	70-130	1	35	mg/kg	01.30.2021 14:13	
o-Xylene	<0.00200	0.100	0.0909	91	0.0918	92	70-130	1	35	mg/kg	01.30.2021 14:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	93		102		101		70-130	%	01.30.2021 14:13
4-Bromofluorobenzene	111		96		96		70-130	%	01.30.2021 14:13

Analytical Method: BTEX by EPA 8021B

Seq Number: 3149481

Parent Sample Id: 686479-001

Matrix: Soil

MS Sample Id: 686479-001 S

Prep Method: SW5035A

Date Prep: 01.29.2021

MSD Sample Id: 686479-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0506	51	0.0878	88	70-130	54	35	mg/kg	01.30.2021 14:54	XF
Toluene	<0.00200	0.0998	0.0491	49	0.0800	80	70-130	48	35	mg/kg	01.30.2021 14:54	XF
Ethylbenzene	<0.00200	0.0998	0.0474	47	0.0767	77	70-130	47	35	mg/kg	01.30.2021 14:54	XF
m,p-Xylenes	<0.00399	0.200	0.0962	48	0.152	76	70-130	45	35	mg/kg	01.30.2021 14:54	XF
o-Xylene	<0.00200	0.0998	0.0493	49	0.0745	75	70-130	41	35	mg/kg	01.30.2021 14:54	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		102		70-130	%	01.30.2021 14:54
4-Bromofluorobenzene	100		103		70-130	%	01.30.2021 14:54

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

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

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

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

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Page 1 of 1

Client Name:

EOG

Site Manager:

Brittany Long

Project Name:

Big Eddy Unit 079Y

Project Location:

Eddy County, New Mexico

Project #:

Invoice to:

James Kennedy

Receiving Laboratory:

Xenco

Sampler Signature:

Devin Dominguez

Comments:

[illegible]

ORIGINAL COPY

ANALYSIS REQUEST
(Circle or Specify Method No.)

1086479

☐ STANDARD
☒ RUSH: Same Day 24 hr 48 hr 72 hr
☐ Push Charges Authorized
☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 01.28.2021 03.16.00 PM

Work Order #: 686479

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3.2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Brianna Teel

Date: 01.28.2021

Checklist reviewed by:



Jessica Kramer

Date: 01.29.2021



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-480-1

Laboratory Sample Delivery Group: Eddy County
Client Project/Site: Big Eddy Unit 079Y 212C-MD-02421

For:

Tetra Tech, Inc.
901 W Wall
Ste 100
Midland, Texas 79701

Attn: Clair Gonzales

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

Authorized for release by:
4/6/2021 5:23:59 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

Review your project
results through

TotalAccess

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Laboratory Job ID: 890-480-1
SDG: Eddy County

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD 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.
α	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.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

Job ID: 890-480-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-480-1

Receipt

The samples were received on 4/2/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: BH-1 (1.5') (890-480-1), BH-2 (1.5') (890-480-2), BH-3 (8') (890-480-3), BH-4 (5.5') (890-480-4), BH-5 (5.5') (890-480-5), BH-6 (5.5') (890-480-6), BH-7 (5.5') (890-480-7), BH-8 (5.5') (890-480-8), BH-9 (5.5') (890-480-9), SW-1 (1.5') (890-480-10), SW-2 (1.5') (890-480-11), SW-3 (1.5') (890-480-12), SW-4 (5.5') (890-480-13), SW-5 (5.5') (890-480-14), SW-6 (5.5') (890-480-15), SW-7 (8') (890-480-16) and SW-8 (8') (890-480-17).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH-7 (5.5') (890-480-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed. .

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

Client Sample ID: BH-1 (1.5')

Lab Sample ID: 890-480-1

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/02/21 13:15	04/03/21 01:21	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/02/21 13:15	04/03/21 01:21	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/02/21 13:15	04/03/21 01:21	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/02/21 13:15	04/03/21 01:21	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/02/21 13:15	04/03/21 01:21	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/02/21 13:15	04/03/21 01:21	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		04/02/21 13:15	04/03/21 01:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	04/02/21 13:15	04/03/21 01:21	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/02/21 13:15	04/03/21 01:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/03/21 22:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/03/21 22:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/03/21 22:25	1
Total TPH	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/03/21 22:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	04/03/21 11:21	04/03/21 22:25	1
o-Terphenyl	80		70 - 130	04/03/21 11:21	04/03/21 22:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	155		5.00		mg/Kg			04/05/21 19:50	1

Client Sample ID: BH-2 (1.5')

Lab Sample ID: 890-480-2

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:15	04/03/21 01:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:15	04/03/21 01:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:15	04/03/21 01:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/02/21 13:15	04/03/21 01:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:15	04/03/21 01:42	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/02/21 13:15	04/03/21 01:42	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/02/21 13:15	04/03/21 01:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/02/21 13:15	04/03/21 01:42	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/02/21 13:15	04/03/21 01:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/03/21 23:29	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

Client Sample ID: BH-2 (1.5')

Lab Sample ID: 890-480-2

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Method: 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)	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/03/21 23:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/03/21 23:29	1
Total TPH	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/03/21 23:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	51	S1-	70 - 130				04/03/21 11:21	04/03/21 23:29	1
o-Terphenyl	41	S1-	70 - 130				04/03/21 11:21	04/03/21 23:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	168		4.99		mg/Kg			04/05/21 19:55	1

Client Sample ID: BH-3 (8')

Lab Sample ID: 890-480-3

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/02/21 13:15	04/03/21 02:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/02/21 13:15	04/03/21 02:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/02/21 13:15	04/03/21 02:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/02/21 13:15	04/03/21 02:02	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/02/21 13:15	04/03/21 02:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/02/21 13:15	04/03/21 02:02	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		04/02/21 13:15	04/03/21 02:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				04/02/21 13:15	04/03/21 02:02	1
1,4-Difluorobenzene (Surr)	99		70 - 130				04/02/21 13:15	04/03/21 02:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/03/21 23:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/03/21 23:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/03/21 23:49	1
Total TPH	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/03/21 23:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				04/03/21 11:21	04/03/21 23:49	1
o-Terphenyl	92		70 - 130				04/03/21 11:21	04/03/21 23:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1700		25.0		mg/Kg			04/04/21 01:51	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

Client Sample ID: BH-4 (5.5')

Lab Sample ID: 890-480-4

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/02/21 13:15	04/03/21 02:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/02/21 13:15	04/03/21 02:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/02/21 13:15	04/03/21 02:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/02/21 13:15	04/03/21 02:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/02/21 13:15	04/03/21 02:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/02/21 13:15	04/03/21 02:23	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		04/02/21 13:15	04/03/21 02:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	04/02/21 13:15	04/03/21 02:23	1
1,4-Difluorobenzene (Surr)	103		70 - 130	04/02/21 13:15	04/03/21 02:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/03/21 11:21	04/04/21 00:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/03/21 11:21	04/04/21 00:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/03/21 11:21	04/04/21 00:10	1
Total TPH	<50.0	U	50.0		mg/Kg		04/03/21 11:21	04/04/21 00:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	04/03/21 11:21	04/04/21 00:10	1
o-Terphenyl	81		70 - 130	04/03/21 11:21	04/04/21 00:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2540		25.0		mg/Kg			04/04/21 01:56	5

Client Sample ID: BH-5 (5.5')

Lab Sample ID: 890-480-5

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:15	04/03/21 02:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:15	04/03/21 02:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:15	04/03/21 02:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/02/21 13:15	04/03/21 02:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:15	04/03/21 02:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/02/21 13:15	04/03/21 02:43	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/02/21 13:15	04/03/21 02:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	04/02/21 13:15	04/03/21 02:43	1
1,4-Difluorobenzene (Surr)	100		70 - 130	04/02/21 13:15	04/03/21 02:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/03/21 11:21	04/04/21 00:31	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

Client Sample ID: BH-5 (5.5')

Lab Sample ID: 890-480-5

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Method: 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)	<50.0	U	50.0		mg/Kg		04/03/21 11:21	04/04/21 00:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/03/21 11:21	04/04/21 00:31	1
Total TPH	<50.0	U	50.0		mg/Kg		04/03/21 11:21	04/04/21 00:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				04/03/21 11:21	04/04/21 00:31	1
o-Terphenyl	83		70 - 130				04/03/21 11:21	04/04/21 00:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1830		25.0		mg/Kg			04/04/21 02:02	5

Client Sample ID: BH-6 (5.5')

Lab Sample ID: 890-480-6

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/02/21 13:15	04/03/21 03:04	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/02/21 13:15	04/03/21 03:04	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/02/21 13:15	04/03/21 03:04	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		04/02/21 13:15	04/03/21 03:04	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/02/21 13:15	04/03/21 03:04	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		04/02/21 13:15	04/03/21 03:04	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		04/02/21 13:15	04/03/21 03:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				04/02/21 13:15	04/03/21 03:04	1
1,4-Difluorobenzene (Surr)	101		70 - 130				04/02/21 13:15	04/03/21 03:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/04/21 00:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/04/21 00:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/04/21 00:52	1
Total TPH	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/04/21 00:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				04/03/21 11:21	04/04/21 00:52	1
o-Terphenyl	79		70 - 130				04/03/21 11:21	04/04/21 00:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1630	F2	25.0		mg/Kg			04/04/21 02:07	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

Client Sample ID: BH-7 (5.5)

Lab Sample ID: 890-480-7

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:15	04/03/21 03:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:15	04/03/21 03:24	1
Ethylbenzene	0.00292		0.00200		mg/Kg		04/02/21 13:15	04/03/21 03:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/02/21 13:15	04/03/21 03:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:15	04/03/21 03:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/02/21 13:15	04/03/21 03:24	1
Total BTEX	0.00292		0.00200		mg/Kg		04/02/21 13:15	04/03/21 03:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	04/02/21 13:15	04/03/21 03:24	1
1,4-Difluorobenzene (Surr)	91		70 - 130	04/02/21 13:15	04/03/21 03:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/04/21 01:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/04/21 01:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/04/21 01:13	1
Total TPH	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/04/21 01:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	04/03/21 11:21	04/04/21 01:13	1
o-Terphenyl	71		70 - 130	04/03/21 11:21	04/04/21 01:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2030		25.2		mg/Kg			04/04/21 02:24	5

Client Sample ID: BH-8 (5.5)

Lab Sample ID: 890-480-8

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/02/21 13:15	04/03/21 03:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/02/21 13:15	04/03/21 03:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/02/21 13:15	04/03/21 03:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/02/21 13:15	04/03/21 03:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/02/21 13:15	04/03/21 03:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/02/21 13:15	04/03/21 03:45	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		04/02/21 13:15	04/03/21 03:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	04/02/21 13:15	04/03/21 03:45	1
1,4-Difluorobenzene (Surr)	100		70 - 130	04/02/21 13:15	04/03/21 03:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/03/21 11:21	04/04/21 01:33	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

Client Sample ID: BH-8 (5.5)

Lab Sample ID: 890-480-8

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Method: 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)	<49.8	U	49.8		mg/Kg		04/03/21 11:21	04/04/21 01:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/03/21 11:21	04/04/21 01:33	1
Total TPH	<49.8	U	49.8		mg/Kg		04/03/21 11:21	04/04/21 01:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				04/03/21 11:21	04/04/21 01:33	1
o-Terphenyl	89		70 - 130				04/03/21 11:21	04/04/21 01:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1410		25.1		mg/Kg			04/04/21 02:29	5

Client Sample ID: BH-9 (5.5)

Lab Sample ID: 890-480-9

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/02/21 13:15	04/03/21 04:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/02/21 13:15	04/03/21 04:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/02/21 13:15	04/03/21 04:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/02/21 13:15	04/03/21 04:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/02/21 13:15	04/03/21 04:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/02/21 13:15	04/03/21 04:05	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		04/02/21 13:15	04/03/21 04:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				04/02/21 13:15	04/03/21 04:05	1
1,4-Difluorobenzene (Surr)	100		70 - 130				04/02/21 13:15	04/03/21 04:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/03/21 11:21	04/04/21 01:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/03/21 11:21	04/04/21 01:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/03/21 11:21	04/04/21 01:54	1
Total TPH	<50.0	U	50.0		mg/Kg		04/03/21 11:21	04/04/21 01:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				04/03/21 11:21	04/04/21 01:54	1
o-Terphenyl	81		70 - 130				04/03/21 11:21	04/04/21 01:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400		25.3		mg/Kg			04/04/21 02:46	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

Client Sample ID: SW-1 (1.5')

Lab Sample ID: 890-480-10

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/02/21 13:15	04/03/21 04:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/02/21 13:15	04/03/21 04:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/02/21 13:15	04/03/21 04:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/02/21 13:15	04/03/21 04:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/02/21 13:15	04/03/21 04:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/02/21 13:15	04/03/21 04:26	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		04/02/21 13:15	04/03/21 04:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/02/21 13:15	04/03/21 04:26	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/02/21 13:15	04/03/21 04:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	72.6		49.9		mg/Kg		04/03/21 11:21	04/04/21 02:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/04/21 02:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/04/21 02:15	1
Total TPH	72.6		49.9		mg/Kg		04/03/21 11:21	04/04/21 02:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	04/03/21 11:21	04/04/21 02:15	1
o-Terphenyl	78		70 - 130	04/03/21 11:21	04/04/21 02:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	166		5.05		mg/Kg			04/04/21 02:51	1

Client Sample ID: SW-2 (1.5')

Lab Sample ID: 890-480-11

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:42	04/03/21 17:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:42	04/03/21 17:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:42	04/03/21 17:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/02/21 13:42	04/03/21 17:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:42	04/03/21 17:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/02/21 13:42	04/03/21 17:34	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/02/21 13:42	04/03/21 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	04/02/21 13:42	04/03/21 17:34	1
1,4-Difluorobenzene (Surr)	94		70 - 130	04/02/21 13:42	04/03/21 17:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/03/21 11:21	04/04/21 02:57	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

Client Sample ID: SW-2 (1.5')

Lab Sample ID: 890-480-11

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Method: 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)	<49.7	U	49.7		mg/Kg		04/03/21 11:21	04/04/21 02:57	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/03/21 11:21	04/04/21 02:57	1
Total TPH	<49.7	U	49.7		mg/Kg		04/03/21 11:21	04/04/21 02:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				04/03/21 11:21	04/04/21 02:57	1
o-Terphenyl	81		70 - 130				04/03/21 11:21	04/04/21 02:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			04/04/21 02:57	1

Client Sample ID: SW-3 (1.5')

Lab Sample ID: 890-480-12

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:42	04/03/21 17:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:42	04/03/21 17:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:42	04/03/21 17:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/02/21 13:42	04/03/21 17:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:42	04/03/21 17:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/02/21 13:42	04/03/21 17:55	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/02/21 13:42	04/03/21 17:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				04/02/21 13:42	04/03/21 17:55	1
1,4-Difluorobenzene (Surr)	108		70 - 130				04/02/21 13:42	04/03/21 17:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/04/21 03:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/04/21 03:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/04/21 03:18	1
Total TPH	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/04/21 03:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				04/03/21 11:21	04/04/21 03:18	1
o-Terphenyl	84		70 - 130				04/03/21 11:21	04/04/21 03:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	171		4.99		mg/Kg			04/04/21 03:03	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

Client Sample ID: SW-4 (5.5')

Lab Sample ID: 890-480-13

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/02/21 13:42	04/03/21 18:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/02/21 13:42	04/03/21 18:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/02/21 13:42	04/03/21 18:15	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		04/02/21 13:42	04/03/21 18:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/02/21 13:42	04/03/21 18:15	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		04/02/21 13:42	04/03/21 18:15	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		04/02/21 13:42	04/03/21 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/02/21 13:42	04/03/21 18:15	1
1,4-Difluorobenzene (Surr)	106		70 - 130	04/02/21 13:42	04/03/21 18:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/03/21 11:21	04/04/21 03:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/03/21 11:21	04/04/21 03:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/03/21 11:21	04/04/21 03:39	1
Total TPH	<49.8	U	49.8		mg/Kg		04/03/21 11:21	04/04/21 03:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	04/03/21 11:21	04/04/21 03:39	1
o-Terphenyl	83		70 - 130	04/03/21 11:21	04/04/21 03:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2350		24.8		mg/Kg			04/04/21 03:08	5

Client Sample ID: SW-5 (5.5')

Lab Sample ID: 890-480-14

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/02/21 13:42	04/03/21 18:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/02/21 13:42	04/03/21 18:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/02/21 13:42	04/03/21 18:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/02/21 13:42	04/03/21 18:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/02/21 13:42	04/03/21 18:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/02/21 13:42	04/03/21 18:36	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		04/02/21 13:42	04/03/21 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	04/02/21 13:42	04/03/21 18:36	1
1,4-Difluorobenzene (Surr)	111		70 - 130	04/02/21 13:42	04/03/21 18:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/04/21 04:00	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

Client Sample ID: SW-5 (5.5')

Lab Sample ID: 890-480-14

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Method: 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)	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/04/21 04:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/04/21 04:00	1
Total TPH	<49.9	U	49.9		mg/Kg		04/03/21 11:21	04/04/21 04:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				04/03/21 11:21	04/04/21 04:00	1
o-Terphenyl	79		70 - 130				04/03/21 11:21	04/04/21 04:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1900		24.8		mg/Kg			04/05/21 15:38	5

Client Sample ID: SW-6 (5.5')

Lab Sample ID: 890-480-15

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:42	04/03/21 18:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:42	04/03/21 18:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:42	04/03/21 18:57	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/02/21 13:42	04/03/21 18:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:42	04/03/21 18:57	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/02/21 13:42	04/03/21 18:57	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/02/21 13:42	04/03/21 18:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				04/02/21 13:42	04/03/21 18:57	1
1,4-Difluorobenzene (Surr)	98		70 - 130				04/02/21 13:42	04/03/21 18:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	51.2		49.7		mg/Kg		04/03/21 11:21	04/04/21 04:21	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/03/21 11:21	04/04/21 04:21	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/03/21 11:21	04/04/21 04:21	1
Total TPH	51.2		49.7		mg/Kg		04/03/21 11:21	04/04/21 04:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				04/03/21 11:21	04/04/21 04:21	1
o-Terphenyl	97		70 - 130				04/03/21 11:21	04/04/21 04:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1330		25.0		mg/Kg			04/05/21 15:43	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

Client Sample ID: SW-7 (8')

Lab Sample ID: 890-480-16

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00272		0.00199		mg/Kg		04/02/21 13:42	04/03/21 19:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/02/21 13:42	04/03/21 19:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/02/21 13:42	04/03/21 19:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/02/21 13:42	04/03/21 19:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/02/21 13:42	04/03/21 19:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/02/21 13:42	04/03/21 19:17	1
Total BTEX	0.00272		0.00199		mg/Kg		04/02/21 13:42	04/03/21 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	04/02/21 13:42	04/03/21 19:17	1
1,4-Difluorobenzene (Surr)	111		70 - 130	04/02/21 13:42	04/03/21 19:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		04/03/21 11:21	04/04/21 04:42	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		04/03/21 11:21	04/04/21 04:42	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		04/03/21 11:21	04/04/21 04:42	1
Total TPH	<50.2	U	50.2		mg/Kg		04/03/21 11:21	04/04/21 04:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	04/03/21 11:21	04/04/21 04:42	1
o-Terphenyl	69	S1-	70 - 130	04/03/21 11:21	04/04/21 04:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	267		4.99		mg/Kg			04/05/21 15:48	1

Client Sample ID: SW-8 (8')

Lab Sample ID: 890-480-17

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/02/21 13:42	04/03/21 19:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/02/21 13:42	04/03/21 19:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/02/21 13:42	04/03/21 19:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/02/21 13:42	04/03/21 19:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/02/21 13:42	04/03/21 19:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/02/21 13:42	04/03/21 19:38	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		04/02/21 13:42	04/03/21 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/02/21 13:42	04/03/21 19:38	1
1,4-Difluorobenzene (Surr)	108		70 - 130	04/02/21 13:42	04/03/21 19:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/03/21 11:21	04/04/21 05:03	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

Client Sample ID: SW-8 (8')

Lab Sample ID: 890-480-17

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Method: 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)	<50.1	U	50.1		mg/Kg		04/03/21 11:21	04/04/21 05:03	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/03/21 11:21	04/04/21 05:03	1
Total TPH	<50.1	U	50.1		mg/Kg		04/03/21 11:21	04/04/21 05:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				04/03/21 11:21	04/04/21 05:03	1
o-Terphenyl	77		70 - 130				04/03/21 11:21	04/04/21 05:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5250		25.0		mg/Kg			04/05/21 15:53	5

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
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	DFBZ1
		(70-130)	(70-130)
890-480-1	BH-1 (1.5')	113	101
890-480-2	BH-2 (1.5')	108	101
890-480-3	BH-3 (8')	115	99
890-480-4	BH-4 (5.5')	111	103
890-480-5	BH-5 (5.5')	113	100
890-480-6	BH-6 (5.5')	113	101
890-480-7	BH-7 (5.5)	125	91
890-480-8	BH-8 (5.5)	111	100
890-480-9	BH-9 (5.5)	111	100
890-480-10	SW-1 (1.5')	108	101
890-480-11	SW-2 (1.5')	92	94
890-480-11 MS	SW-2 (1.5')	92	99
890-480-11 MSD	SW-2 (1.5')	90	102
890-480-12	SW-3 (1.5')	102	108
890-480-13	SW-4 (5.5')	105	106
890-480-14	SW-5 (5.5')	104	111
890-480-15	SW-6 (5.5')	101	98
890-480-16	SW-7 (8')	107	111
890-480-17	SW-8 (8')	108	108
LCS 880-1247/1-A	Lab Control Sample	110	100
LCS 880-1248/1-A	Lab Control Sample	97	115
LCSD 880-1247/2-A	Lab Control Sample Dup	105	100
LCSD 880-1248/2-A	Lab Control Sample Dup	88	96
MB 880-1102/5-A	Method Blank	106	96
MB 880-1212/5-A	Method Blank	115	94
MB 880-1239/73	Method Blank	117	100
MB 880-1247/5-A	Method Blank	105	101
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	OTPH1
		(70-130)	(70-130)
890-480-1	BH-1 (1.5')	88	80
890-480-1 MS	BH-1 (1.5')	92	77
890-480-1 MSD	BH-1 (1.5')	94	79
890-480-2	BH-2 (1.5')	51 S1-	41 S1-
890-480-3	BH-3 (8')	104	92
890-480-4	BH-4 (5.5')	91	81
890-480-5	BH-5 (5.5')	93	83
890-480-6	BH-6 (5.5')	92	79
890-480-7	BH-7 (5.5)	84	71
890-480-8	BH-8 (5.5)	97	89
890-480-9	BH-9 (5.5)	91	81
890-480-10	SW-1 (1.5')	90	78

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
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)
890-480-11	SW-2 (1.5')	93	81
890-480-12	SW-3 (1.5')	97	84
890-480-13	SW-4 (5.5')	94	83
890-480-14	SW-5 (5.5')	90	79
890-480-15	SW-6 (5.5')	112	97
890-480-16	SW-7 (8')	77	69 S1-
890-480-17	SW-8 (8')	85	77
LCS 880-1277/2-A	Lab Control Sample	103	92
LCSD 880-1277/3-A	Lab Control Sample Dup	101	89
MB 880-1277/1-A	Method Blank	119	114

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1102/5-A

Matrix: Solid

Analysis Batch: 1205

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1102

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/31/21 11:41	04/02/21 07:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/31/21 11:41	04/02/21 07:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/31/21 11:41	04/02/21 07:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/31/21 11:41	04/02/21 07:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/31/21 11:41	04/02/21 07:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/31/21 11:41	04/02/21 07:26	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/31/21 11:41	04/02/21 07:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/31/21 11:41	04/02/21 07:26	1
1,4-Difluorobenzene (Surr)	96		70 - 130	03/31/21 11:41	04/02/21 07:26	1

Lab Sample ID: MB 880-1212/5-A

Matrix: Solid

Analysis Batch: 1239

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1212

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/01/21 16:39	04/03/21 06:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/01/21 16:39	04/03/21 06:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/01/21 16:39	04/03/21 06:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/01/21 16:39	04/03/21 06:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/01/21 16:39	04/03/21 06:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/01/21 16:39	04/03/21 06:13	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/01/21 16:39	04/03/21 06:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	04/01/21 16:39	04/03/21 06:13	1
1,4-Difluorobenzene (Surr)	94		70 - 130	04/01/21 16:39	04/03/21 06:13	1

Lab Sample ID: MB 880-1239/73

Matrix: Solid

Analysis Batch: 1239

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			04/03/21 17:12	1
Toluene	<0.00200	U	0.00200		mg/Kg			04/03/21 17:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			04/03/21 17:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			04/03/21 17:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			04/03/21 17:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			04/03/21 17:12	1
Total BTEX	<0.00200	U	0.00200		mg/Kg			04/03/21 17:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130		04/03/21 17:12	1
1,4-Difluorobenzene (Surr)	100		70 - 130		04/03/21 17:12	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

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

Lab Sample ID: MB 880-1247/5-A

Matrix: Solid

Analysis Batch: 1205

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1247

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:15	04/02/21 20:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:15	04/02/21 20:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:15	04/02/21 20:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/02/21 13:15	04/02/21 20:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:15	04/02/21 20:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/02/21 13:15	04/02/21 20:28	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/02/21 13:15	04/02/21 20:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/02/21 13:15	04/02/21 20:28	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/02/21 13:15	04/02/21 20:28	1

Lab Sample ID: LCS 880-1247/1-A

Matrix: Solid

Analysis Batch: 1205

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09975		mg/Kg		100	70 - 130
Toluene	0.100	0.1045		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1120		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2267		mg/Kg		113	70 - 130
o-Xylene	0.100	0.1126		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-1247/2-A

Matrix: Solid

Analysis Batch: 1205

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1247

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1001		mg/Kg		100	70 - 130	0	35
Toluene	0.100	0.1027		mg/Kg		103	70 - 130	2	35
Ethylbenzene	0.100	0.1092		mg/Kg		109	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2209		mg/Kg		110	70 - 130	3	35
o-Xylene	0.100	0.1074		mg/Kg		107	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCS 880-1248/1-A

Matrix: Solid

Analysis Batch: 1239

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1248

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1099		mg/Kg		110	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

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

Lab Sample ID: LCS 880-1248/1-A

Matrix: Solid

Analysis Batch: 1239

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1248

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	0.100	0.1084		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1028		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2094		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1040		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: LCSD 880-1248/2-A

Matrix: Solid

Analysis Batch: 1239

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1248

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09489		mg/Kg		95	70 - 130	15	35
Toluene	0.100	0.09916		mg/Kg		99	70 - 130	9	35
Ethylbenzene	0.100	0.09331		mg/Kg		93	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1859		mg/Kg		93	70 - 130	12	35
o-Xylene	0.100	0.09199		mg/Kg		92	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-480-11 MS

Matrix: Solid

Analysis Batch: 1239

Client Sample ID: SW-2 (1.5')

Prep Type: Total/NA

Prep Batch: 1248

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.101	0.09036		mg/Kg		89	70 - 130
Toluene	<0.00200	U	0.101	0.09239		mg/Kg		92	70 - 130
Ethylbenzene	<0.00200	U	0.101	0.08497		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.201	0.1718		mg/Kg		85	70 - 130
o-Xylene	<0.00200	U	0.101	0.08346		mg/Kg		83	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-480-11 MSD

Matrix: Solid

Analysis Batch: 1239

Client Sample ID: SW-2 (1.5')

Prep Type: Total/NA

Prep Batch: 1248

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09318		mg/Kg		92	70 - 130	3	35
Toluene	<0.00200	U	0.100	0.09288		mg/Kg		93	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.08908		mg/Kg		89	70 - 130	5	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1702		mg/Kg		85	70 - 130	1	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

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

Lab Sample ID: 890-480-11 MSD

Matrix: Solid

Analysis Batch: 1239

Client Sample ID: SW-2 (1.5')

Prep Type: Total/NA

Prep Batch: 1248

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	<0.00200	U	0.100	0.08334		mg/Kg		83	70 - 130	0	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	90		70 - 130								
1,4-Difluorobenzene (Surr)	102		70 - 130								

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

Lab Sample ID: MB 880-1277/1-A

Matrix: Solid

Analysis Batch: 1269

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1277

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/03/21 11:21	04/03/21 21:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/03/21 11:21	04/03/21 21:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/03/21 11:21	04/03/21 21:22	1
Total TPH	<50.0	U	50.0		mg/Kg		04/03/21 11:21	04/03/21 21:22	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				04/03/21 11:21	04/03/21 21:22	1
o-Terphenyl	114		70 - 130				04/03/21 11:21	04/03/21 21:22	1

Lab Sample ID: LCS 880-1277/2-A

Matrix: Solid

Analysis Batch: 1269

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	998.9		mg/Kg		100	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	887.5		mg/Kg		89	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	103		70 - 130						
o-Terphenyl	92		70 - 130						

Lab Sample ID: LCSD 880-1277/3-A

Matrix: Solid

Analysis Batch: 1269

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1277

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	975.7		mg/Kg		98	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	860.3		mg/Kg		86	70 - 130	3	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

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

Lab Sample ID: LCSD 880-1277/3-A

Matrix: Solid

Analysis Batch: 1269

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1277

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: 890-480-1 MS

Matrix: Solid

Analysis Batch: 1269

Client Sample ID: BH-1 (1.5')

Prep Type: Total/NA

Prep Batch: 1277

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	933.3		mg/Kg		90	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	819.9		mg/Kg		80	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	92		70 - 130							
o-Terphenyl	77		70 - 130							

Lab Sample ID: 890-480-1 MSD

Matrix: Solid

Analysis Batch: 1269

Client Sample ID: BH-1 (1.5')

Prep Type: Total/NA

Prep Batch: 1277

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1037		mg/Kg		101	70 - 130	11	20	
Diesel Range Organics (Over C10-C28)	<49.9	U	998	841.0		mg/Kg		82	70 - 130	3	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	94		70 - 130									
o-Terphenyl	79		70 - 130									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1259/1-A

Matrix: Solid

Analysis Batch: 1279

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.00	U	5.00		mg/Kg			04/04/21 00:33	1	

Lab Sample ID: LCS 880-1259/2-A

Matrix: Solid

Analysis Batch: 1279

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS						%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	250	266.9		mg/Kg		107	90 - 110			

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-1259/3-A

Matrix: Solid

Analysis Batch: 1279

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	266.8		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 890-480-6 MS

Matrix: Solid

Analysis Batch: 1279

Client Sample ID: BH-6 (5.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD
Chloride	1630	F2	2.50	29.66	4	mg/Kg		-6412 6	90 - 110	

Lab Sample ID: 890-480-6 MSD

Matrix: Solid

Analysis Batch: 1279

Client Sample ID: BH-6 (5.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1630	F2	250	2969	4 F2	mg/Kg		535	90 - 110	196	20

Lab Sample ID: MB 880-1299/1-A

Matrix: Solid

Analysis Batch: 1329

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/05/21 14:27	1

Lab Sample ID: LCS 880-1299/2-A

Matrix: Solid

Analysis Batch: 1329

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD
Chloride	250	251.3		mg/Kg		101	90 - 110	

Lab Sample ID: LCSD 880-1299/3-A

Matrix: Solid

Analysis Batch: 1329

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	251.5		mg/Kg		101	90 - 110	0	20

Lab Sample ID: MB 880-1316/1-A

Matrix: Solid

Analysis Batch: 1331

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/05/21 17:27	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-1316/2-A

Matrix: Solid

Analysis Batch: 1331

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	254.4		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-1316/3-A

Matrix: Solid

Analysis Batch: 1331

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	254.7		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

GC VOA

Prep Batch: 1102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-1102/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 1205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-480-1	BH-1 (1.5')	Total/NA	Solid	8021B	1247
890-480-2	BH-2 (1.5')	Total/NA	Solid	8021B	1247
890-480-3	BH-3 (8')	Total/NA	Solid	8021B	1247
890-480-4	BH-4 (5.5')	Total/NA	Solid	8021B	1247
890-480-5	BH-5 (5.5')	Total/NA	Solid	8021B	1247
890-480-6	BH-6 (5.5')	Total/NA	Solid	8021B	1247
890-480-7	BH-7 (5.5)	Total/NA	Solid	8021B	1247
890-480-8	BH-8 (5.5)	Total/NA	Solid	8021B	1247
890-480-9	BH-9 (5.5)	Total/NA	Solid	8021B	1247
890-480-10	SW-1 (1.5')	Total/NA	Solid	8021B	1247
MB 880-1102/5-A	Method Blank	Total/NA	Solid	8021B	1102
MB 880-1247/5-A	Method Blank	Total/NA	Solid	8021B	1247
LCS 880-1247/1-A	Lab Control Sample	Total/NA	Solid	8021B	1247
LCSD 880-1247/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1247

Prep Batch: 1212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-1212/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 1239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-480-11	SW-2 (1.5')	Total/NA	Solid	8021B	1248
890-480-12	SW-3 (1.5')	Total/NA	Solid	8021B	1248
890-480-13	SW-4 (5.5')	Total/NA	Solid	8021B	1248
890-480-14	SW-5 (5.5')	Total/NA	Solid	8021B	1248
890-480-15	SW-6 (5.5')	Total/NA	Solid	8021B	1248
890-480-16	SW-7 (8')	Total/NA	Solid	8021B	1248
890-480-17	SW-8 (8')	Total/NA	Solid	8021B	1248
MB 880-1212/5-A	Method Blank	Total/NA	Solid	8021B	1212
MB 880-1239/73	Method Blank	Total/NA	Solid	8021B	
LCS 880-1248/1-A	Lab Control Sample	Total/NA	Solid	8021B	1248
LCSD 880-1248/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1248
890-480-11 MS	SW-2 (1.5')	Total/NA	Solid	8021B	1248
890-480-11 MSD	SW-2 (1.5')	Total/NA	Solid	8021B	1248

Prep Batch: 1247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-480-1	BH-1 (1.5')	Total/NA	Solid	5035	
890-480-2	BH-2 (1.5')	Total/NA	Solid	5035	
890-480-3	BH-3 (8')	Total/NA	Solid	5035	
890-480-4	BH-4 (5.5')	Total/NA	Solid	5035	
890-480-5	BH-5 (5.5')	Total/NA	Solid	5035	
890-480-6	BH-6 (5.5')	Total/NA	Solid	5035	
890-480-7	BH-7 (5.5)	Total/NA	Solid	5035	
890-480-8	BH-8 (5.5)	Total/NA	Solid	5035	
890-480-9	BH-9 (5.5)	Total/NA	Solid	5035	
890-480-10	SW-1 (1.5')	Total/NA	Solid	5035	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

GC VOA (Continued)

Prep Batch: 1247 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-1247/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1247/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1247/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 1248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-480-11	SW-2 (1.5')	Total/NA	Solid	5035	
890-480-12	SW-3 (1.5')	Total/NA	Solid	5035	
890-480-13	SW-4 (5.5')	Total/NA	Solid	5035	
890-480-14	SW-5 (5.5')	Total/NA	Solid	5035	
890-480-15	SW-6 (5.5')	Total/NA	Solid	5035	
890-480-16	SW-7 (8')	Total/NA	Solid	5035	
890-480-17	SW-8 (8')	Total/NA	Solid	5035	
LCS 880-1248/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1248/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-480-11 MS	SW-2 (1.5')	Total/NA	Solid	5035	
890-480-11 MSD	SW-2 (1.5')	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 1269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-480-1	BH-1 (1.5')	Total/NA	Solid	8015B NM	1277
890-480-2	BH-2 (1.5')	Total/NA	Solid	8015B NM	1277
890-480-3	BH-3 (8')	Total/NA	Solid	8015B NM	1277
890-480-4	BH-4 (5.5')	Total/NA	Solid	8015B NM	1277
890-480-5	BH-5 (5.5')	Total/NA	Solid	8015B NM	1277
890-480-6	BH-6 (5.5')	Total/NA	Solid	8015B NM	1277
890-480-7	BH-7 (5.5)	Total/NA	Solid	8015B NM	1277
890-480-8	BH-8 (5.5)	Total/NA	Solid	8015B NM	1277
890-480-9	BH-9 (5.5)	Total/NA	Solid	8015B NM	1277
890-480-10	SW-1 (1.5')	Total/NA	Solid	8015B NM	1277
890-480-11	SW-2 (1.5')	Total/NA	Solid	8015B NM	1277
890-480-12	SW-3 (1.5')	Total/NA	Solid	8015B NM	1277
890-480-13	SW-4 (5.5')	Total/NA	Solid	8015B NM	1277
890-480-14	SW-5 (5.5')	Total/NA	Solid	8015B NM	1277
890-480-15	SW-6 (5.5')	Total/NA	Solid	8015B NM	1277
890-480-16	SW-7 (8')	Total/NA	Solid	8015B NM	1277
890-480-17	SW-8 (8')	Total/NA	Solid	8015B NM	1277
MB 880-1277/1-A	Method Blank	Total/NA	Solid	8015B NM	1277
LCS 880-1277/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1277
LCSD 880-1277/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1277
890-480-1 MS	BH-1 (1.5')	Total/NA	Solid	8015B NM	1277
890-480-1 MSD	BH-1 (1.5')	Total/NA	Solid	8015B NM	1277

Prep Batch: 1277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-480-1	BH-1 (1.5')	Total/NA	Solid	8015NM Prep	
890-480-2	BH-2 (1.5')	Total/NA	Solid	8015NM Prep	
890-480-3	BH-3 (8')	Total/NA	Solid	8015NM Prep	
890-480-4	BH-4 (5.5')	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

GC Semi VOA (Continued)

Prep Batch: 1277 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-480-5	BH-5 (5.5')	Total/NA	Solid	8015NM Prep	
890-480-6	BH-6 (5.5')	Total/NA	Solid	8015NM Prep	
890-480-7	BH-7 (5.5)	Total/NA	Solid	8015NM Prep	
890-480-8	BH-8 (5.5)	Total/NA	Solid	8015NM Prep	
890-480-9	BH-9 (5.5)	Total/NA	Solid	8015NM Prep	
890-480-10	SW-1 (1.5')	Total/NA	Solid	8015NM Prep	
890-480-11	SW-2 (1.5')	Total/NA	Solid	8015NM Prep	
890-480-12	SW-3 (1.5')	Total/NA	Solid	8015NM Prep	
890-480-13	SW-4 (5.5')	Total/NA	Solid	8015NM Prep	
890-480-14	SW-5 (5.5')	Total/NA	Solid	8015NM Prep	
890-480-15	SW-6 (5.5')	Total/NA	Solid	8015NM Prep	
890-480-16	SW-7 (8')	Total/NA	Solid	8015NM Prep	
890-480-17	SW-8 (8')	Total/NA	Solid	8015NM Prep	
MB 880-1277/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1277/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1277/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-480-1 MS	BH-1 (1.5')	Total/NA	Solid	8015NM Prep	
890-480-1 MSD	BH-1 (1.5')	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 1259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-480-3	BH-3 (8')	Soluble	Solid	DI Leach	
890-480-4	BH-4 (5.5')	Soluble	Solid	DI Leach	
890-480-5	BH-5 (5.5')	Soluble	Solid	DI Leach	
890-480-6	BH-6 (5.5')	Soluble	Solid	DI Leach	
890-480-7	BH-7 (5.5)	Soluble	Solid	DI Leach	
890-480-8	BH-8 (5.5)	Soluble	Solid	DI Leach	
890-480-9	BH-9 (5.5)	Soluble	Solid	DI Leach	
890-480-10	SW-1 (1.5')	Soluble	Solid	DI Leach	
890-480-11	SW-2 (1.5')	Soluble	Solid	DI Leach	
890-480-12	SW-3 (1.5')	Soluble	Solid	DI Leach	
890-480-13	SW-4 (5.5')	Soluble	Solid	DI Leach	
MB 880-1259/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1259/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1259/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-480-6 MS	BH-6 (5.5')	Soluble	Solid	DI Leach	
890-480-6 MSD	BH-6 (5.5')	Soluble	Solid	DI Leach	

Analysis Batch: 1279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-480-3	BH-3 (8')	Soluble	Solid	300.0	1259
890-480-4	BH-4 (5.5')	Soluble	Solid	300.0	1259
890-480-5	BH-5 (5.5')	Soluble	Solid	300.0	1259
890-480-6	BH-6 (5.5')	Soluble	Solid	300.0	1259
890-480-7	BH-7 (5.5)	Soluble	Solid	300.0	1259
890-480-8	BH-8 (5.5)	Soluble	Solid	300.0	1259
890-480-9	BH-9 (5.5)	Soluble	Solid	300.0	1259
890-480-10	SW-1 (1.5')	Soluble	Solid	300.0	1259
890-480-11	SW-2 (1.5')	Soluble	Solid	300.0	1259

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

HPLC/IC (Continued)

Analysis Batch: 1279 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-480-12	SW-3 (1.5')	Soluble	Solid	300.0	1259
890-480-13	SW-4 (5.5')	Soluble	Solid	300.0	1259
MB 880-1259/1-A	Method Blank	Soluble	Solid	300.0	1259
LCS 880-1259/2-A	Lab Control Sample	Soluble	Solid	300.0	1259
LCSD 880-1259/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1259
890-480-6 MS	BH-6 (5.5')	Soluble	Solid	300.0	1259
890-480-6 MSD	BH-6 (5.5')	Soluble	Solid	300.0	1259

Leach Batch: 1299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-480-14	SW-5 (5.5')	Soluble	Solid	DI Leach	
890-480-15	SW-6 (5.5')	Soluble	Solid	DI Leach	
890-480-16	SW-7 (8')	Soluble	Solid	DI Leach	
890-480-17	SW-8 (8')	Soluble	Solid	DI Leach	
MB 880-1299/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1299/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1299/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 1316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-480-1	BH-1 (1.5')	Soluble	Solid	DI Leach	
890-480-2	BH-2 (1.5')	Soluble	Solid	DI Leach	
MB 880-1316/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1316/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1316/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 1329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-480-14	SW-5 (5.5')	Soluble	Solid	300.0	1299
890-480-15	SW-6 (5.5')	Soluble	Solid	300.0	1299
890-480-16	SW-7 (8')	Soluble	Solid	300.0	1299
890-480-17	SW-8 (8')	Soluble	Solid	300.0	1299
MB 880-1299/1-A	Method Blank	Soluble	Solid	300.0	1299
LCS 880-1299/2-A	Lab Control Sample	Soluble	Solid	300.0	1299
LCSD 880-1299/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1299

Analysis Batch: 1331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-480-1	BH-1 (1.5')	Soluble	Solid	300.0	1316
890-480-2	BH-2 (1.5')	Soluble	Solid	300.0	1316
MB 880-1316/1-A	Method Blank	Soluble	Solid	300.0	1316
LCS 880-1316/2-A	Lab Control Sample	Soluble	Solid	300.0	1316
LCSD 880-1316/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1316

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Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

Client Sample ID: BH-1 (1.5')

Lab Sample ID: 890-480-1

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1247	04/02/21 13:15	KL	XM
Total/NA	Analysis	8021B		1	1205	04/03/21 01:21	MR	XM
Total/NA	Prep	8015NM Prep			1277	04/03/21 11:21	DM	XM
Total/NA	Analysis	8015B NM		1	1269	04/03/21 22:25	AJ	XM
Soluble	Leach	DI Leach			1316	04/05/21 12:04	SC	XM
Soluble	Analysis	300.0		1	1331	04/05/21 19:50	CH	XM

Client Sample ID: BH-2 (1.5')

Lab Sample ID: 890-480-2

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1247	04/02/21 13:15	KL	XM
Total/NA	Analysis	8021B		1	1205	04/03/21 01:42	MR	XM
Total/NA	Prep	8015NM Prep			1277	04/03/21 11:21	DM	XM
Total/NA	Analysis	8015B NM		1	1269	04/03/21 23:29	AJ	XM
Soluble	Leach	DI Leach			1316	04/05/21 12:04	SC	XM
Soluble	Analysis	300.0		1	1331	04/05/21 19:55	CH	XM

Client Sample ID: BH-3 (8')

Lab Sample ID: 890-480-3

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1247	04/02/21 13:15	KL	XM
Total/NA	Analysis	8021B		1	1205	04/03/21 02:02	MR	XM
Total/NA	Prep	8015NM Prep			1277	04/03/21 11:21	DM	XM
Total/NA	Analysis	8015B NM		1	1269	04/03/21 23:49	AJ	XM
Soluble	Leach	DI Leach			1259	04/02/21 15:06	SC	XM
Soluble	Analysis	300.0		5	1279	04/04/21 01:51	CH	XM

Client Sample ID: BH-4 (5.5')

Lab Sample ID: 890-480-4

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1247	04/02/21 13:15	KL	XM
Total/NA	Analysis	8021B		1	1205	04/03/21 02:23	MR	XM
Total/NA	Prep	8015NM Prep			1277	04/03/21 11:21	DM	XM
Total/NA	Analysis	8015B NM		1	1269	04/04/21 00:10	AJ	XM
Soluble	Leach	DI Leach			1259	04/02/21 15:06	SC	XM
Soluble	Analysis	300.0		5	1279	04/04/21 01:56	CH	XM

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Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

Client Sample ID: BH-5 (5.5')

Lab Sample ID: 890-480-5

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1247	04/02/21 13:15	KL	XM
Total/NA	Analysis	8021B		1	1205	04/03/21 02:43	MR	XM
Total/NA	Prep	8015NM Prep			1277	04/03/21 11:21	DM	XM
Total/NA	Analysis	8015B NM		1	1269	04/04/21 00:31	AJ	XM
Soluble	Leach	DI Leach			1259	04/02/21 15:06	SC	XM
Soluble	Analysis	300.0		5	1279	04/04/21 02:02	CH	XM

Client Sample ID: BH-6 (5.5')

Lab Sample ID: 890-480-6

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1247	04/02/21 13:15	KL	XM
Total/NA	Analysis	8021B		1	1205	04/03/21 03:04	MR	XM
Total/NA	Prep	8015NM Prep			1277	04/03/21 11:21	DM	XM
Total/NA	Analysis	8015B NM		1	1269	04/04/21 00:52	AJ	XM
Soluble	Leach	DI Leach			1259	04/02/21 15:06	SC	XM
Soluble	Analysis	300.0		5	1279	04/04/21 02:07	CH	XM

Client Sample ID: BH-7 (5.5)

Lab Sample ID: 890-480-7

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1247	04/02/21 13:15	KL	XM
Total/NA	Analysis	8021B		1	1205	04/03/21 03:24	MR	XM
Total/NA	Prep	8015NM Prep			1277	04/03/21 11:21	DM	XM
Total/NA	Analysis	8015B NM		1	1269	04/04/21 01:13	AJ	XM
Soluble	Leach	DI Leach			1259	04/02/21 15:06	SC	XM
Soluble	Analysis	300.0		5	1279	04/04/21 02:24	CH	XM

Client Sample ID: BH-8 (5.5)

Lab Sample ID: 890-480-8

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1247	04/02/21 13:15	KL	XM
Total/NA	Analysis	8021B		1	1205	04/03/21 03:45	MR	XM
Total/NA	Prep	8015NM Prep			1277	04/03/21 11:21	DM	XM
Total/NA	Analysis	8015B NM		1	1269	04/04/21 01:33	AJ	XM
Soluble	Leach	DI Leach			1259	04/02/21 15:06	SC	XM
Soluble	Analysis	300.0		5	1279	04/04/21 02:29	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

Client Sample ID: BH-9 (5.5)

Lab Sample ID: 890-480-9

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1247	04/02/21 13:15	KL	XM
Total/NA	Analysis	8021B		1	1205	04/03/21 04:05	MR	XM
Total/NA	Prep	8015NM Prep			1277	04/03/21 11:21	DM	XM
Total/NA	Analysis	8015B NM		1	1269	04/04/21 01:54	AJ	XM
Soluble	Leach	DI Leach			1259	04/02/21 15:06	SC	XM
Soluble	Analysis	300.0		5	1279	04/04/21 02:46	CH	XM

Client Sample ID: SW-1 (1.5')

Lab Sample ID: 890-480-10

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1247	04/02/21 13:15	KL	XM
Total/NA	Analysis	8021B		1	1205	04/03/21 04:26	MR	XM
Total/NA	Prep	8015NM Prep			1277	04/03/21 11:21	DM	XM
Total/NA	Analysis	8015B NM		1	1269	04/04/21 02:15	AJ	XM
Soluble	Leach	DI Leach			1259	04/02/21 15:06	SC	XM
Soluble	Analysis	300.0		1	1279	04/04/21 02:51	CH	XM

Client Sample ID: SW-2 (1.5')

Lab Sample ID: 890-480-11

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1248	04/02/21 13:42	KL	XM
Total/NA	Analysis	8021B		1	1239	04/03/21 17:34	KL	XM
Total/NA	Prep	8015NM Prep			1277	04/03/21 11:21	DM	XM
Total/NA	Analysis	8015B NM		1	1269	04/04/21 02:57	AJ	XM
Soluble	Leach	DI Leach			1259	04/02/21 15:06	SC	XM
Soluble	Analysis	300.0		1	1279	04/04/21 02:57	CH	XM

Client Sample ID: SW-3 (1.5')

Lab Sample ID: 890-480-12

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1248	04/02/21 13:42	KL	XM
Total/NA	Analysis	8021B		1	1239	04/03/21 17:55	KL	XM
Total/NA	Prep	8015NM Prep			1277	04/03/21 11:21	DM	XM
Total/NA	Analysis	8015B NM		1	1269	04/04/21 03:18	AJ	XM
Soluble	Leach	DI Leach			1259	04/02/21 15:06	SC	XM
Soluble	Analysis	300.0		1	1279	04/04/21 03:03	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

Client Sample ID: SW-4 (5.5')

Lab Sample ID: 890-480-13

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1248	04/02/21 13:42	KL	XM
Total/NA	Analysis	8021B		1	1239	04/03/21 18:15	KL	XM
Total/NA	Prep	8015NM Prep			1277	04/03/21 11:21	DM	XM
Total/NA	Analysis	8015B NM		1	1269	04/04/21 03:39	AJ	XM
Soluble	Leach	DI Leach			1259	04/02/21 15:06	SC	XM
Soluble	Analysis	300.0		5	1279	04/04/21 03:08	CH	XM

Client Sample ID: SW-5 (5.5')

Lab Sample ID: 890-480-14

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1248	04/02/21 13:42	KL	XM
Total/NA	Analysis	8021B		1	1239	04/03/21 18:36	KL	XM
Total/NA	Prep	8015NM Prep			1277	04/03/21 11:21	DM	XM
Total/NA	Analysis	8015B NM		1	1269	04/04/21 04:00	AJ	XM
Soluble	Leach	DI Leach			1299	04/04/21 15:20	SC	XM
Soluble	Analysis	300.0		5	1329	04/05/21 15:38	CH	XM

Client Sample ID: SW-6 (5.5')

Lab Sample ID: 890-480-15

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1248	04/02/21 13:42	KL	XM
Total/NA	Analysis	8021B		1	1239	04/03/21 18:57	KL	XM
Total/NA	Prep	8015NM Prep			1277	04/03/21 11:21	DM	XM
Total/NA	Analysis	8015B NM		1	1269	04/04/21 04:21	AJ	XM
Soluble	Leach	DI Leach			1299	04/04/21 15:20	SC	XM
Soluble	Analysis	300.0		5	1329	04/05/21 15:43	CH	XM

Client Sample ID: SW-7 (8')

Lab Sample ID: 890-480-16

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1248	04/02/21 13:42	KL	XM
Total/NA	Analysis	8021B		1	1239	04/03/21 19:17	KL	XM
Total/NA	Prep	8015NM Prep			1277	04/03/21 11:21	DM	XM
Total/NA	Analysis	8015B NM		1	1269	04/04/21 04:42	AJ	XM
Soluble	Leach	DI Leach			1299	04/04/21 15:20	SC	XM
Soluble	Analysis	300.0		1	1329	04/05/21 15:48	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

Client Sample ID: SW-8 (8') Lab Sample ID: 890-480-17
Date Collected: 04/01/21 00:00 Matrix: Solid
Date Received: 04/02/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1248	04/02/21 13:42	KL	XM
Total/NA	Analysis	8021B		1	1239	04/03/21 19:38	KL	XM
Total/NA	Prep	8015NM Prep			1277	04/03/21 11:21	DM	XM
Total/NA	Analysis	8015B NM		1	1269	04/04/21 05:03	AJ	XM
Soluble	Leach	DI Leach			1299	04/04/21 15:20	SC	XM
Soluble	Analysis	300.0		5	1329	04/05/21 15:53	CH	XM

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

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
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XM
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
300.0	Anions, Ion Chromatography	MCAWW	XM
5035	Closed System Purge and Trap	SW846	XM
8015NM Prep	Microextraction	SW846	XM
DI Leach	Deionized Water Leaching Procedure	ASTM	XM

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-480-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-480-1	BH-1 (1.5')	Solid	04/01/21 00:00	04/02/21 08:00	
890-480-2	BH-2 (1.5')	Solid	04/01/21 00:00	04/02/21 08:00	
890-480-3	BH-3 (8')	Solid	04/01/21 00:00	04/02/21 08:00	
890-480-4	BH-4 (5.5')	Solid	04/01/21 00:00	04/02/21 08:00	
890-480-5	BH-5 (5.5')	Solid	04/01/21 00:00	04/02/21 08:00	
890-480-6	BH-6 (5.5')	Solid	04/01/21 00:00	04/02/21 08:00	
890-480-7	BH-7 (5.5')	Solid	04/01/21 00:00	04/02/21 08:00	
890-480-8	BH-8 (5.5')	Solid	04/01/21 00:00	04/02/21 08:00	
890-480-9	BH-9 (5.5')	Solid	04/01/21 00:00	04/02/21 08:00	
890-480-10	SW-1 (1.5')	Solid	04/01/21 00:00	04/02/21 08:00	
890-480-11	SW-2 (1.5')	Solid	04/01/21 00:00	04/02/21 08:00	
890-480-12	SW-3 (1.5')	Solid	04/01/21 00:00	04/02/21 08:00	
890-480-13	SW-4 (5.5')	Solid	04/01/21 00:00	04/02/21 08:00	
890-480-14	SW-5 (5.5')	Solid	04/01/21 00:00	04/02/21 08:00	
890-480-15	SW-6 (5.5')	Solid	04/01/21 00:00	04/02/21 08:00	
890-480-16	SW-7 (8')	Solid	04/01/21 00:00	04/02/21 08:00	
890-480-17	SW-8 (8')	Solid	04/01/21 00:00	04/02/21 08:00	

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

 907W Walnut Street, Ste 100
 Midland, Texas 79705
 Tel (432) 682-4559
 Fax (432) 682-3946


890-480 Chain of Custody

Page 1 of 2

4/6/2021

Client Name:		EOG		Site Manager:		Brittany Long	
Project Name:		Big Eddy Unit 079Y					
Project Location: (county, state)		Eddy County		Project #:		212C-MD-02421	
Invoice to:		James Kennedy		Sampler Signature:		<i>James Kennedy</i>	
Receiving Laboratory:		Xenco					
Comments:							

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None				
										YEAR: 2020			
	BH-1 (1.5)	4/1/2021		X				X					
	BH-2 (1.5)	4/1/2021		X				X					
	BH-3 (8')	4/1/2021		X				X					
	BH-4 (5.5)	4/1/2021		X				X					
	BH-5 (5.5)	4/1/2021		X				X					
	BH-6 (5.5)	4/1/2021		X				X					
	BH-7 (5.5)	4/1/2021		X				X					
	BH-8 (5.5)	4/1/2021		X				X					
	BH-9 (5.5)	4/1/2021		X				X					
	SW-1 (1.5)	4/1/2021		X				X					

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<i>James Kennedy</i>			<i>Joe Wup</i>	4-2-21	0758
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS:
☐ STANDARD ☒ RUSH ☐ Special Report Limits or TRRP Report	Sample Temperature: 3.4 / 3.4 (Circle) HAND DELIVERED FEDEX UPS Tracking #:

ANALYSIS REQUEST (Circle or Specify Method No.)
BTX 8021B BTX 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 Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance
Hold

ORIGINAL COPY

Analysis Request of Chain of Custody Record

Page 2 of 2



Tetra Tech, Inc.

 301 W. Main Street, Ste 100
 Midland, Texas 79705
 Tel (432) 682-4559
 Fax (432) 682-3946

Client Name: EOG		Site Manager: Brittany Long	
Project Name: Big Eddy Unit 079Y		Project #: 212C-MD-02421	
Project Location: Eddy County		Project #: 212C-MD-02421	
Invoice to: James Kennedy		Sampler Signature: <i>James Kennedy</i>	
Receiving Laboratory: Xenco		Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)		
		DATE	TIME	WATER	SOIL	HCL	HNO ₃			ICE	None
	SW-2 (1.5)	4/1/2021		X				X			
	SW-3 (1.5)	4/1/2021		X				X			
	SW-4 (5.5)	4/1/2021		X				X			
	SW-5 (5.5)	4/1/2021		X				X			
	SW-6 (5.5)	4/1/2021		X				X			
	SW-7 (8)	4/1/2021		X				X			
	SW-8 (8)	4/1/2021		X				X			

LAB USE ONLY	REMARKS:
☐ STANDARD	
☒ RUSH: Same Day 24 hr 48 hr 72 hr	
☐ Rush Charges Authorized	
☐ Special Report Limits or TRRP Report	

ANALYSIS REQUEST

(Circle or Specify Method No.)

 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
 Chloride Sulfate TDS
 General Water Chemistry (see attached list)
 Anion/Cation Balance
 Hold

ORIGINAL COPY

Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad, NM 86220

Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No	
Client Contact:		Phone:	Kramer Jessica		890-147 1	
Shipping/Receiving		E-Mail:	jessica.kramer@eurofins.com	State of Origin	Page: 1 of 2	
Company	Eurofins Xenco		Accreditations Required (See note)	New Mexico		
Address	1211 W Florida Ave	Due Date Requested:	NELAP - Louisiana NELAP - Texas		Job #:	
City	Midland	4/5/2021			890-480-1	
State, Zip:	TX, 79701	TAT Requested (days)			Preservation Codes	
Phone:	432-704-5440(Tel)	PO #:			A. HCL B. NaOH C. Zn Acetate D. Nitric Acid E. NaHSO4 F. MeOH G. Ammonia H. Ascorbic Acid I. Ice J. DI Water K. EDTA L. EDA Other	
Email		WO #:			M. Hexane N. None O. AsnO2 P. Na2O4S Q. Na2SO3 R. Na2S2O3 S. H2SO4 T. TSP Dodecahydrate U. Acetone V. MCAA W. pH 4-5 Z. other (specify)	
Project Name:	Big Eddy Unit 079Y	Project #:				
Site:	SSOV#	88000013				
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)
BH-1 (1 5) (890-480-1)		4/1/21	Mountain		Solid	Perform MS/MSD (Yes or No)
BH-2 (1 5) (890-480-2)		4/1/21	Mountain		Solid	300_ORGFM_28D/DI_LEACH Chloride
BH-3 (8) (890-480-3)		4/1/21	Mountain		Solid	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH GRO-DRO-MRO
BH-4 (5 5) (890-480-4)		4/1/21	Mountain		Solid	8021B/6035FP_Calc BTEX
BH-5 (5 5) (890-480-5)		4/1/21	Mountain		Solid	
BH-6 (5 5) (890-480-6)		4/1/21	Mountain		Solid	
BH-7 (5 5) (890-480-7)		4/1/21	Mountain		Solid	
BH-8 (5 5) (890-480-8)		4/1/21	Mountain		Solid	
BH-9 (5 5) (890-480-9)		4/1/21	Mountain		Solid	
						Total Number of containers
						Special Instructions/Note
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.						
Possible Hazard Identification						
Unconfirmed						
Deliverable Requested I, II, III IV Other (specify)						
Primary Deliverable Rank 2						
Empty Kit Relinquished by						
Relinquished by: <i>Ciao</i> Date: <i>4-2-21</i>						
Relinquished by: Date/Time: Company						
Relinquished by: Date/Time: Company						
Custody Seals Intact Custody Seal No						
Delta Yes Delta No						
Cooler Temperature(s) °C and Other Remarks:						

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-480-1

SDG Number: Eddy County

Login Number: 480

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-480-1

SDG Number: Eddy County

Login Number: 480

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Midland

List Creation: 04/02/21 02:29 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	True	
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").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-479-1

Laboratory Sample Delivery Group: Eddy County

Client Project/Site: Big Eddy Unit 079Y 212C-MD-02421

For:

Tetra Tech, Inc.
901 W Wall
Ste 100
Midland, Texas 79701

Attn: Clair Gonzales

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

Authorized for release by:
4/6/2021 5:21:55 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Laboratory Job ID: 890-479-1
SDG: Eddy County

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-479-1
SDG: Eddy County

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
SQL	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.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-479-1
SDG: Eddy County

Job ID: 890-479-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-479-1

Receipt

The samples were received on 4/2/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

Receipt Exceptions

The following samples analyzed for method BTEX were received and analyzed from an unpreserved bulk soil jar: SW-9 (8') (890-479-1) and SW-10 (8') (890-479-2).

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-479-1
SDG: Eddy County

Client Sample ID: SW-9 (8')

Lab Sample ID: 890-479-1

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/02/21 13:15	04/02/21 22:30	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/02/21 13:15	04/02/21 22:30	1
Ethylbenzene	0.00355		0.00202		mg/Kg		04/02/21 13:15	04/02/21 22:30	1
m-Xylene & p-Xylene	0.0103		0.00403		mg/Kg		04/02/21 13:15	04/02/21 22:30	1
o-Xylene	0.00605		0.00202		mg/Kg		04/02/21 13:15	04/02/21 22:30	1
Xylenes, Total	0.0164		0.00403		mg/Kg		04/02/21 13:15	04/02/21 22:30	1
Total BTEX	0.0199		0.00202		mg/Kg		04/02/21 13:15	04/02/21 22:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	04/02/21 13:15	04/02/21 22:30	1
1,4-Difluorobenzene (Surr)	102		70 - 130	04/02/21 13:15	04/02/21 22:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/03/21 11:21	04/04/21 05:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/03/21 11:21	04/04/21 05:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/03/21 11:21	04/04/21 05:45	1
Total TPH	<50.0	U	50.0		mg/Kg		04/03/21 11:21	04/04/21 05:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	04/03/21 11:21	04/04/21 05:45	1
o-Terphenyl	83		70 - 130	04/03/21 11:21	04/04/21 05:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1060		5.05		mg/Kg			04/05/21 19:45	1

Client Sample ID: SW-10 (8')

Lab Sample ID: 890-479-2

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/02/21 13:15	04/02/21 22:51	1
Toluene	0.00776		0.00201		mg/Kg		04/02/21 13:15	04/02/21 22:51	1
Ethylbenzene	0.0258		0.00201		mg/Kg		04/02/21 13:15	04/02/21 22:51	1
m-Xylene & p-Xylene	0.0389		0.00402		mg/Kg		04/02/21 13:15	04/02/21 22:51	1
o-Xylene	0.0554		0.00201		mg/Kg		04/02/21 13:15	04/02/21 22:51	1
Xylenes, Total	0.0943		0.00402		mg/Kg		04/02/21 13:15	04/02/21 22:51	1
Total BTEX	0.128		0.00201		mg/Kg		04/02/21 13:15	04/02/21 22:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	04/02/21 13:15	04/02/21 22:51	1
1,4-Difluorobenzene (Surr)	84		70 - 130	04/02/21 13:15	04/02/21 22:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/03/21 11:21	04/04/21 06:06	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-479-1
SDG: Eddy County

Client Sample ID: SW-10 (8')

Lab Sample ID: 890-479-2

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Method: 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)	<50.1	U	50.1		mg/Kg		04/03/21 11:21	04/04/21 06:06	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/03/21 11:21	04/04/21 06:06	1
Total TPH	<50.1	U	50.1		mg/Kg		04/03/21 11:21	04/04/21 06:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	04/03/21 11:21	04/04/21 06:06	1
o-Terphenyl	83		70 - 130	04/03/21 11:21	04/04/21 06:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1030		4.96		mg/Kg			04/04/21 01:45	1

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-479-1
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)
890-479-1	SW-9 (8')	117	102
890-479-2	SW-10 (8')	128	84
LCS 880-1247/1-A	Lab Control Sample	110	100
LCSD 880-1247/2-A	Lab Control Sample Dup	105	100
MB 880-1102/5-A	Method Blank	106	96
MB 880-1247/5-A	Method Blank	105	101
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)
890-479-1	SW-9 (8')	92	83
890-479-2	SW-10 (8')	94	83
LCS 880-1277/2-A	Lab Control Sample	103	92
LCSD 880-1277/3-A	Lab Control Sample Dup	101	89
MB 880-1277/1-A	Method Blank	119	114
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-479-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1102/5-A

Matrix: Solid

Analysis Batch: 1205

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1102

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/31/21 11:41	04/02/21 07:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/31/21 11:41	04/02/21 07:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/31/21 11:41	04/02/21 07:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/31/21 11:41	04/02/21 07:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/31/21 11:41	04/02/21 07:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/31/21 11:41	04/02/21 07:26	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/31/21 11:41	04/02/21 07:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/31/21 11:41	04/02/21 07:26	1
1,4-Difluorobenzene (Surr)	96		70 - 130	03/31/21 11:41	04/02/21 07:26	1

Lab Sample ID: MB 880-1247/5-A

Matrix: Solid

Analysis Batch: 1205

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1247

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:15	04/02/21 20:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:15	04/02/21 20:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:15	04/02/21 20:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/02/21 13:15	04/02/21 20:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/02/21 13:15	04/02/21 20:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/02/21 13:15	04/02/21 20:28	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/02/21 13:15	04/02/21 20:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/02/21 13:15	04/02/21 20:28	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/02/21 13:15	04/02/21 20:28	1

Lab Sample ID: LCS 880-1247/1-A

Matrix: Solid

Analysis Batch: 1205

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09975		mg/Kg		100	70 - 130
Toluene	0.100	0.1045		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1120		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2267		mg/Kg		113	70 - 130
o-Xylene	0.100	0.1126		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-479-1
SDG: Eddy County

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

Lab Sample ID: LCSD 880-1247/2-A

Matrix: Solid

Analysis Batch: 1205

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1247

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1001		mg/Kg		100	70 - 130	0	35
Toluene	0.100	0.1027		mg/Kg		103	70 - 130	2	35
Ethylbenzene	0.100	0.1092		mg/Kg		109	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2209		mg/Kg		110	70 - 130	3	35
o-Xylene	0.100	0.1074		mg/Kg		107	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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

Lab Sample ID: MB 880-1277/1-A

Matrix: Solid

Analysis Batch: 1269

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1277

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/03/21 11:21	04/03/21 21:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/03/21 11:21	04/03/21 21:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/03/21 11:21	04/03/21 21:22	1
Total TPH	<50.0	U	50.0		mg/Kg		04/03/21 11:21	04/03/21 21:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	04/03/21 11:21	04/03/21 21:22	1
o-Terphenyl	114		70 - 130	04/03/21 11:21	04/03/21 21:22	1

Lab Sample ID: LCS 880-1277/2-A

Matrix: Solid

Analysis Batch: 1269

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	998.9		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	1000	887.5		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: LCSD 880-1277/3-A

Matrix: Solid

Analysis Batch: 1269

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1277

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	975.7		mg/Kg		98	70 - 130	2	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-479-1
SDG: Eddy County

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

Lab Sample ID: LCSD 880-1277/3-A

Matrix: Solid

Analysis Batch: 1269

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1277

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	1000	860.3		mg/Kg		86	70 - 130	3	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	101		70 - 130						
o-Terphenyl	89		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1259/1-A

Matrix: Solid

Analysis Batch: 1279

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/04/21 00:33	1

Lab Sample ID: LCS 880-1259/2-A

Matrix: Solid

Analysis Batch: 1279

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	250	266.9		mg/Kg		107	90 - 110		

Lab Sample ID: LCSD 880-1259/3-A

Matrix: Solid

Analysis Batch: 1279

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	266.8		mg/Kg		107	90 - 110	0	20

Lab Sample ID: MB 880-1316/1-A

Matrix: Solid

Analysis Batch: 1331

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/05/21 17:27	1

Lab Sample ID: LCS 880-1316/2-A

Matrix: Solid

Analysis Batch: 1331

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	250	254.4		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-1316/3-A

Matrix: Solid

Analysis Batch: 1331

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	254.7		mg/Kg		102	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-479-1
SDG: Eddy County

GC VOA

Prep Batch: 1102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-1102/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 1205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-479-1	SW-9 (8')	Total/NA	Solid	8021B	1247
890-479-2	SW-10 (8')	Total/NA	Solid	8021B	1247
MB 880-1102/5-A	Method Blank	Total/NA	Solid	8021B	1102
MB 880-1247/5-A	Method Blank	Total/NA	Solid	8021B	1247
LCS 880-1247/1-A	Lab Control Sample	Total/NA	Solid	8021B	1247
LCSD 880-1247/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1247

Prep Batch: 1247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-479-1	SW-9 (8')	Total/NA	Solid	5035	
890-479-2	SW-10 (8')	Total/NA	Solid	5035	
MB 880-1247/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1247/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1247/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 1269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-479-1	SW-9 (8')	Total/NA	Solid	8015B NM	1277
890-479-2	SW-10 (8')	Total/NA	Solid	8015B NM	1277
MB 880-1277/1-A	Method Blank	Total/NA	Solid	8015B NM	1277
LCS 880-1277/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1277
LCSD 880-1277/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1277

Prep Batch: 1277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-479-1	SW-9 (8')	Total/NA	Solid	8015NM Prep	
890-479-2	SW-10 (8')	Total/NA	Solid	8015NM Prep	
MB 880-1277/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1277/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1277/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 1259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-479-2	SW-10 (8')	Soluble	Solid	DI Leach	
MB 880-1259/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1259/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1259/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 1279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-479-2	SW-10 (8')	Soluble	Solid	300.0	1259
MB 880-1259/1-A	Method Blank	Soluble	Solid	300.0	1259
LCS 880-1259/2-A	Lab Control Sample	Soluble	Solid	300.0	1259
LCSD 880-1259/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1259

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-479-1
SDG: Eddy County

HPLC/IC

Leach Batch: 1316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-479-1	SW-9 (8')	Soluble	Solid	DI Leach	
MB 880-1316/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1316/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1316/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 1331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-479-1	SW-9 (8')	Soluble	Solid	300.0	1316
MB 880-1316/1-A	Method Blank	Soluble	Solid	300.0	1316
LCS 880-1316/2-A	Lab Control Sample	Soluble	Solid	300.0	1316
LCSD 880-1316/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1316

Lab Chronicle

Client: Tetra Tech, Inc.
 Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-479-1
 SDG: Eddy County

Client Sample ID: SW-9 (8')

Lab Sample ID: 890-479-1

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1247	04/02/21 13:15	KL	XM
Total/NA	Analysis	8021B		1	1205	04/02/21 22:30	MR	XM
Total/NA	Prep	8015NM Prep			1277	04/03/21 11:21	DM	XM
Total/NA	Analysis	8015B NM		1	1269	04/04/21 05:45	AJ	XM
Soluble	Leach	DI Leach			1316	04/05/21 12:04	SC	XM
Soluble	Analysis	300.0		1	1331	04/05/21 19:45	CH	XM

Client Sample ID: SW-10 (8')

Lab Sample ID: 890-479-2

Date Collected: 04/01/21 00:00

Matrix: Solid

Date Received: 04/02/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1247	04/02/21 13:15	KL	XM
Total/NA	Analysis	8021B		1	1205	04/02/21 22:51	MR	XM
Total/NA	Prep	8015NM Prep			1277	04/03/21 11:21	DM	XM
Total/NA	Analysis	8015B NM		1	1269	04/04/21 06:06	AJ	XM
Soluble	Leach	DI Leach			1259	04/02/21 15:06	SC	XM
Soluble	Analysis	300.0		1	1279	04/04/21 01:45	CH	XM

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-479-1
SDG: Eddy County

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

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
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-479-1
SDG: Eddy County

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XM
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
300.0	Anions, Ion Chromatography	MCAWW	XM
5035	Closed System Purge and Trap	SW846	XM
8015NM Prep	Microextraction	SW846	XM
DI Leach	Deionized Water Leaching Procedure	ASTM	XM

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Big Eddy Unit 079Y 212C-MD-02421

Job ID: 890-479-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-479-1	SW-9 (8')	Solid	04/01/21 00:00	04/02/21 08:00	
890-479-2	SW-10 (8')	Solid	04/01/21 00:00	04/02/21 08:00	

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Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559

890-479 Chain of Custody

Page 1 of 1

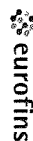
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ORIGINAL COPY

Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing America

[illegible]

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-479-1

SDG Number: Eddy County

Login Number: 479

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-479-1

SDG Number: Eddy County

Login Number: 479

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Midland

List Creation: 04/02/21 02:24 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	True	
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").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-456-1

Client Project/Site: EOG-Big Eddy Unit 079Y

For:

Tetra Tech, Inc.
901 W Wall
Ste 100
Midland, Texas 79701

Attn: Clair Gonzales

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

Authorized for release by:
3/29/2021 3:37:48 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y

Laboratory Job ID: 880-456-1

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y

Job ID: 880-456-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
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.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Eurofins Xenco, Midland

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y

Job ID: 880-456-1

Job ID: 880-456-1**Laboratory: Eurofins Xenco, Midland****Narrative****Job Narrative
880-456-1****Receipt**

The samples were received on 3/18/2021 2:52 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 1.8°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-647 and analytical batch 880-734 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y

Job ID: 880-456-1

Client Sample ID: SW-1

Lab Sample ID: 880-456-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	78.0		4.98		mg/Kg	1		300.0	Soluble

Client Sample ID: AH-3 (0-1')

Lab Sample ID: 880-456-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	70.0		4.99		mg/Kg	1		300.0	Soluble

Client Sample ID: AH-3 (1-1.5')

Lab Sample ID: 880-456-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	77.7		5.01		mg/Kg	1		300.0	Soluble

Client Sample ID: AH-1 (0-1')

Lab Sample ID: 880-456-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	169		5.03		mg/Kg	1		300.0	Soluble

Client Sample ID: AH-1 (1-1.5')

Lab Sample ID: 880-456-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	189		4.98		mg/Kg	1		300.0	Soluble

Client Sample ID: AH-2 (0-1')

Lab Sample ID: 880-456-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	34.7		4.97		mg/Kg	1		300.0	Soluble

Client Sample ID: AH-2 (1-1.5')

Lab Sample ID: 880-456-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	29.5		5.00		mg/Kg	1		300.0	Soluble

Client Sample ID: BH-1

Lab Sample ID: 880-456-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (Over C10-C28)	110		50.2		mg/Kg	1		8015B NM	Total/NA
Total TPH	110		50.2		mg/Kg	1		8015B NM	Total/NA
Chloride	104		4.99		mg/Kg	1		300.0	Soluble

Client Sample ID: BH-2

Lab Sample ID: 880-456-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (Over C10-C28)	92.3		49.8		mg/Kg	1		8015B NM	Total/NA
Total TPH	92.3		49.8		mg/Kg	1		8015B NM	Total/NA
Chloride	16.6		4.97		mg/Kg	1		300.0	Soluble

Client Sample ID: SW-2

Lab Sample ID: 880-456-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	260		4.99		mg/Kg	1		300.0	Soluble

This Detection Summary does not include radiochemical test results.

Eurofins Xenco, Midland

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y

Job ID: 880-456-1

Client Sample ID: SW-3

Lab Sample ID: 880-456-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (Over C10-C28)	51.7		49.9		mg/Kg	1		8015B NM	Total/NA
Total TPH	51.7		49.9		mg/Kg	1		8015B NM	Total/NA
Chloride	61.4		5.00		mg/Kg	1		300.0	Soluble

Client Sample ID: SW-4

Lab Sample ID: 880-456-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.00362		0.00202		mg/Kg	1		8021B	Total/NA
Total BTEX	0.0235		0.00202		mg/Kg	1		8021B	Total/NA
Xylenes, Total	0.0199		0.00403		mg/Kg	1		8021B	Total/NA
m-Xylene & p-Xylene	0.00927		0.00403		mg/Kg	1		8021B	Total/NA
o-Xylene	0.0106		0.00202		mg/Kg	1		8021B	Total/NA
Diesel Range Organics (Over C10-C28)	87.4		49.8		mg/Kg	1		8015B NM	Total/NA
Total TPH	87.4		49.8		mg/Kg	1		8015B NM	Total/NA
Chloride	18.7		4.98		mg/Kg	1		300.0	Soluble

This Detection Summary does not include radiochemical test results.

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y

Job ID: 880-456-1

Client Sample ID: SW-1

Lab Sample ID: 880-456-1

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		03/21/21 11:57	03/23/21 22:08	1
Ethylbenzene	<0.00200	U F2 F1	0.00200		mg/Kg		03/21/21 11:57	03/23/21 22:08	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		03/21/21 11:57	03/23/21 22:08	1
Total BTEX	<0.00200	U F1	0.00200		mg/Kg		03/21/21 11:57	03/23/21 22:08	1
Xylenes, Total	<0.00401	U F1	0.00401		mg/Kg		03/21/21 11:57	03/23/21 22:08	1
m-Xylene & p-Xylene	<0.00401	U F1	0.00401		mg/Kg		03/21/21 11:57	03/23/21 22:08	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		03/21/21 11:57	03/23/21 22:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	03/21/21 11:57	03/23/21 22:08	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/21/21 11:57	03/23/21 22:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *+	50.1		mg/Kg		03/18/21 17:00	03/19/21 20:49	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/18/21 17:00	03/19/21 20:49	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/18/21 17:00	03/19/21 20:49	1
Total TPH	<50.1	U	50.1		mg/Kg		03/18/21 17:00	03/19/21 20:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	03/18/21 17:00	03/19/21 20:49	1
o-Terphenyl	106		70 - 130	03/18/21 17:00	03/19/21 20:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.0		4.98		mg/Kg			03/22/21 14:14	1

Client Sample ID: AH-3 (0-1')

Lab Sample ID: 880-456-2

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/21/21 11:57	03/23/21 22:28	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/21/21 11:57	03/23/21 22:28	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/21/21 11:57	03/23/21 22:28	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/21/21 11:57	03/23/21 22:28	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/21/21 11:57	03/23/21 22:28	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/21/21 11:57	03/23/21 22:28	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/21/21 11:57	03/23/21 22:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	03/21/21 11:57	03/23/21 22:28	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/21/21 11:57	03/23/21 22:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *+	49.7		mg/Kg		03/18/21 17:00	03/19/21 21:10	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y

Job ID: 880-456-1

Client Sample ID: AH-3 (0-1')

Lab Sample ID: 880-456-2

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Method: 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)	<49.7	U	49.7		mg/Kg		03/18/21 17:00	03/19/21 21:10	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/18/21 17:00	03/19/21 21:10	1
Total TPH	<49.7	U	49.7		mg/Kg		03/18/21 17:00	03/19/21 21:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				03/18/21 17:00	03/19/21 21:10	1
o-Terphenyl	111		70 - 130				03/18/21 17:00	03/19/21 21:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.0		4.99		mg/Kg			03/22/21 14:30	1

Client Sample ID: AH-3 (1-1.5')

Lab Sample ID: 880-456-3

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/21/21 11:57	03/23/21 22:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/21/21 11:57	03/23/21 22:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/21/21 11:57	03/23/21 22:49	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/21/21 11:57	03/23/21 22:49	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/21/21 11:57	03/23/21 22:49	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/21/21 11:57	03/23/21 22:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/21/21 11:57	03/23/21 22:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				03/21/21 11:57	03/23/21 22:49	1
1,4-Difluorobenzene (Surr)	100		70 - 130				03/21/21 11:57	03/23/21 22:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U **	50.0		mg/Kg		03/18/21 17:00	03/19/21 21:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/18/21 17:00	03/19/21 21:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/18/21 17:00	03/19/21 21:53	1
Total TPH	<50.0	U	50.0		mg/Kg		03/18/21 17:00	03/19/21 21:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				03/18/21 17:00	03/19/21 21:53	1
o-Terphenyl	96		70 - 130				03/18/21 17:00	03/19/21 21:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.7		5.01		mg/Kg			03/22/21 14:35	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y

Job ID: 880-456-1

Client Sample ID: AH-1 (0-1')

Lab Sample ID: 880-456-4

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/21/21 11:57	03/23/21 23:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/21/21 11:57	03/23/21 23:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/21/21 11:57	03/23/21 23:09	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/21/21 11:57	03/23/21 23:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/21/21 11:57	03/23/21 23:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/21/21 11:57	03/23/21 23:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/21/21 11:57	03/23/21 23:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	03/21/21 11:57	03/23/21 23:09	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/21/21 11:57	03/23/21 23:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U **	49.7		mg/Kg		03/18/21 17:00	03/19/21 22:14	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/18/21 17:00	03/19/21 22:14	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/18/21 17:00	03/19/21 22:14	1
Total TPH	<49.7	U	49.7		mg/Kg		03/18/21 17:00	03/19/21 22:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	03/18/21 17:00	03/19/21 22:14	1
o-Terphenyl	100		70 - 130	03/18/21 17:00	03/19/21 22:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	169		5.03		mg/Kg			03/22/21 14:40	1

Client Sample ID: AH-1 (1-1.5')

Lab Sample ID: 880-456-5

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/21/21 11:57	03/23/21 23:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/21/21 11:57	03/23/21 23:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/21/21 11:57	03/23/21 23:30	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/21/21 11:57	03/23/21 23:30	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/21/21 11:57	03/23/21 23:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/21/21 11:57	03/23/21 23:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/21/21 11:57	03/23/21 23:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	03/21/21 11:57	03/23/21 23:30	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/21/21 11:57	03/23/21 23:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U **	49.7		mg/Kg		03/18/21 17:00	03/19/21 22:36	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y

Job ID: 880-456-1

Client Sample ID: AH-1 (1-1.5')

Lab Sample ID: 880-456-5

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Method: 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)	<49.7	U	49.7		mg/Kg		03/18/21 17:00	03/19/21 22:36	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/18/21 17:00	03/19/21 22:36	1
Total TPH	<49.7	U	49.7		mg/Kg		03/18/21 17:00	03/19/21 22:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				03/18/21 17:00	03/19/21 22:36	1
o-Terphenyl	105		70 - 130				03/18/21 17:00	03/19/21 22:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	189		4.98		mg/Kg			03/22/21 14:45	1

Client Sample ID: AH-2 (0-1')

Lab Sample ID: 880-456-6

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/21/21 11:57	03/23/21 23:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/21/21 11:57	03/23/21 23:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/21/21 11:57	03/23/21 23:50	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		03/21/21 11:57	03/23/21 23:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/21/21 11:57	03/23/21 23:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/21/21 11:57	03/23/21 23:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/21/21 11:57	03/23/21 23:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				03/21/21 11:57	03/23/21 23:50	1
1,4-Difluorobenzene (Surr)	101		70 - 130				03/21/21 11:57	03/23/21 23:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U **	49.8		mg/Kg		03/18/21 17:00	03/19/21 22:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/18/21 17:00	03/19/21 22:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/18/21 17:00	03/19/21 22:57	1
Total TPH	<49.8	U	49.8		mg/Kg		03/18/21 17:00	03/19/21 22:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				03/18/21 17:00	03/19/21 22:57	1
o-Terphenyl	86		70 - 130				03/18/21 17:00	03/19/21 22:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.7		4.97		mg/Kg			03/22/21 14:50	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y

Job ID: 880-456-1

Client Sample ID: AH-2 (1-1.5')

Lab Sample ID: 880-456-7

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/21/21 11:57	03/24/21 00:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/21/21 11:57	03/24/21 00:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/21/21 11:57	03/24/21 00:10	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/21/21 11:57	03/24/21 00:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/21/21 11:57	03/24/21 00:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/21/21 11:57	03/24/21 00:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/21/21 11:57	03/24/21 00:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	03/21/21 11:57	03/24/21 00:10	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/21/21 11:57	03/24/21 00:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/22/21 15:38	03/23/21 20:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/22/21 15:38	03/23/21 20:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/22/21 15:38	03/23/21 20:21	1
Total TPH	<49.8	U	49.8		mg/Kg		03/22/21 15:38	03/23/21 20:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	03/22/21 15:38	03/23/21 20:21	1
o-Terphenyl	107		70 - 130	03/22/21 15:38	03/23/21 20:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.5		5.00		mg/Kg			03/22/21 14:55	1

Client Sample ID: BH-1

Lab Sample ID: 880-456-8

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/21/21 11:57	03/24/21 00:31	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/21/21 11:57	03/24/21 00:31	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/21/21 11:57	03/24/21 00:31	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		03/21/21 11:57	03/24/21 00:31	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/21/21 11:57	03/24/21 00:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/21/21 11:57	03/24/21 00:31	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/21/21 11:57	03/24/21 00:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	03/21/21 11:57	03/24/21 00:31	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/21/21 11:57	03/24/21 00:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U +	50.2		mg/Kg		03/18/21 17:00	03/19/21 23:39	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y

Job ID: 880-456-1

Client Sample ID: BH-1

Lab Sample ID: 880-456-8

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Method: 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)	110		50.2		mg/Kg		03/18/21 17:00	03/19/21 23:39	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		03/18/21 17:00	03/19/21 23:39	1
Total TPH	110		50.2		mg/Kg		03/18/21 17:00	03/19/21 23:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				03/18/21 17:00	03/19/21 23:39	1
o-Terphenyl	112		70 - 130				03/18/21 17:00	03/19/21 23:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		4.99		mg/Kg			03/22/21 15:11	1

Client Sample ID: BH-2

Lab Sample ID: 880-456-9

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/21/21 11:57	03/24/21 00:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/21/21 11:57	03/24/21 00:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/21/21 11:57	03/24/21 00:51	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		03/21/21 11:57	03/24/21 00:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/21/21 11:57	03/24/21 00:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/21/21 11:57	03/24/21 00:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/21/21 11:57	03/24/21 00:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				03/21/21 11:57	03/24/21 00:51	1
1,4-Difluorobenzene (Surr)	100		70 - 130				03/21/21 11:57	03/24/21 00:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U **	49.8		mg/Kg		03/18/21 17:00	03/20/21 00:00	1
Diesel Range Organics (Over C10-C28)	92.3		49.8		mg/Kg		03/18/21 17:00	03/20/21 00:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/18/21 17:00	03/20/21 00:00	1
Total TPH	92.3		49.8		mg/Kg		03/18/21 17:00	03/20/21 00:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				03/18/21 17:00	03/20/21 00:00	1
o-Terphenyl	103		70 - 130				03/18/21 17:00	03/20/21 00:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.6		4.97		mg/Kg			03/22/21 15:16	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y

Job ID: 880-456-1

Client Sample ID: SW-2

Lab Sample ID: 880-456-10

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/21/21 11:57	03/24/21 01:12	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/21/21 11:57	03/24/21 01:12	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/21/21 11:57	03/24/21 01:12	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/21/21 11:57	03/24/21 01:12	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/21/21 11:57	03/24/21 01:12	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/21/21 11:57	03/24/21 01:12	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/21/21 11:57	03/24/21 01:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	03/21/21 11:57	03/24/21 01:12	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/21/21 11:57	03/24/21 01:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *	50.0		mg/Kg		03/18/21 17:00	03/20/21 00:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/18/21 17:00	03/20/21 00:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/18/21 17:00	03/20/21 00:22	1
Total TPH	<50.0	U	50.0		mg/Kg		03/18/21 17:00	03/20/21 00:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	03/18/21 17:00	03/20/21 00:22	1
o-Terphenyl	70		70 - 130	03/18/21 17:00	03/20/21 00:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		4.99		mg/Kg			03/22/21 15:32	1

Client Sample ID: SW-3

Lab Sample ID: 880-456-11

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/21/21 11:57	03/24/21 01:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/21/21 11:57	03/24/21 01:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/21/21 11:57	03/24/21 01:58	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/21/21 11:57	03/24/21 01:58	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/21/21 11:57	03/24/21 01:58	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/21/21 11:57	03/24/21 01:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/21/21 11:57	03/24/21 01:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/21/21 11:57	03/24/21 01:58	1
1,4-Difluorobenzene (Surr)	98		70 - 130	03/21/21 11:57	03/24/21 01:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9		mg/Kg		03/18/21 17:00	03/20/21 00:43	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y

Job ID: 880-456-1

Client Sample ID: SW-3

Lab Sample ID: 880-456-11

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Method: 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)	51.7		49.9		mg/Kg		03/18/21 17:00	03/20/21 00:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/18/21 17:00	03/20/21 00:43	1
Total TPH	51.7		49.9		mg/Kg		03/18/21 17:00	03/20/21 00:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				03/18/21 17:00	03/20/21 00:43	1
o-Terphenyl	100		70 - 130				03/18/21 17:00	03/20/21 00:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.4		5.00		mg/Kg			03/22/21 15:37	1

Client Sample ID: SW-4

Lab Sample ID: 880-456-12

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/25/21 10:12	03/25/21 21:52	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/25/21 10:12	03/25/21 21:52	1
Toluene	0.00362		0.00202		mg/Kg		03/25/21 10:12	03/25/21 21:52	1
Total BTEX	0.0235		0.00202		mg/Kg		03/25/21 10:12	03/25/21 21:52	1
Xylenes, Total	0.0199		0.00403		mg/Kg		03/25/21 10:12	03/25/21 21:52	1
m-Xylene & p-Xylene	0.00927		0.00403		mg/Kg		03/25/21 10:12	03/25/21 21:52	1
o-Xylene	0.0106		0.00202		mg/Kg		03/25/21 10:12	03/25/21 21:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				03/25/21 10:12	03/25/21 21:52	1
1,4-Difluorobenzene (Surr)	108		70 - 130				03/25/21 10:12	03/25/21 21:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U +	49.8		mg/Kg		03/18/21 17:00	03/20/21 01:04	1
Diesel Range Organics (Over C10-C28)	87.4		49.8		mg/Kg		03/18/21 17:00	03/20/21 01:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/18/21 17:00	03/20/21 01:04	1
Total TPH	87.4		49.8		mg/Kg		03/18/21 17:00	03/20/21 01:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				03/18/21 17:00	03/20/21 01:04	1
o-Terphenyl	96		70 - 130				03/18/21 17:00	03/20/21 01:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.7		4.98		mg/Kg			03/22/21 15:42	1

Eurofins Xenco, Midland

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y

Job ID: 880-456-1

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)
880-456-1	SW-1	114	102
880-456-1 MS	SW-1	110	103
880-456-1 MSD	SW-1	110	4 S1-
880-456-2	AH-3 (0-1')	112	101
880-456-3	AH-3 (1-1.5')	111	100
880-456-4	AH-1 (0-1')	113	102
880-456-5	AH-1 (1-1.5')	110	100
880-456-6	AH-2 (0-1')	113	101
880-456-7	AH-2 (1-1.5')	116	103
880-456-8	BH-1	112	103
880-456-9	BH-2	110	100
880-456-10	SW-2	118	101
880-456-11	SW-3	104	98
880-456-12	SW-4	135 S1+	108
LCS 880-688/1-A	Lab Control Sample	102	100
LCS 880-841/1-A	Lab Control Sample	98	101
LCSD 880-647/2-A	Lab Control Sample Dup	106	99
LCSD 880-688/2-A	Lab Control Sample Dup	104	100
LCSD 880-841/2-A	Lab Control Sample Dup	101	100
MB 880-647/5-A	Method Blank	104	95
MB 880-688/5-A	Method Blank	106	96
MB 880-841/5-A	Method Blank	100	99
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)
880-456-1	SW-1	110	106
880-456-2	AH-3 (0-1')	119	111
880-456-3	AH-3 (1-1.5')	105	96
880-456-4	AH-1 (0-1')	109	100
880-456-5	AH-1 (1-1.5')	113	105
880-456-6	AH-2 (0-1')	98	86
880-456-7	AH-2 (1-1.5')	109	107
880-456-8	BH-1	118	112
880-456-9	BH-2	112	103
880-456-10	SW-2	78	70
880-456-11	SW-3	105	100
880-456-12	SW-4	103	96
LCS 880-576/2-A	Lab Control Sample	130	115
LCSD 880-576/3-A	Lab Control Sample Dup	136 S1+	122
MB 880-576/1-A	Method Blank	106	104
Surrogate Legend			
1CO = 1-Chlorooctane			

Eurofins Xenco, Midland

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y
OTPH = o-Terphenyl

Job ID: 880-456-1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Eurofins Xenco, Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y

Job ID: 880-456-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-647/5-A

Matrix: Solid

Analysis Batch: 734

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 647

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/21/21 11:57	03/23/21 21:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/21/21 11:57	03/23/21 21:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/21/21 11:57	03/23/21 21:39	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/21/21 11:57	03/23/21 21:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/21/21 11:57	03/23/21 21:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/21/21 11:57	03/23/21 21:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/21/21 11:57	03/23/21 21:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/21/21 11:57	03/23/21 21:39	1
1,4-Difluorobenzene (Surr)	95		70 - 130	03/21/21 11:57	03/23/21 21:39	1

Lab Sample ID: LCSD 880-647/2-A

Matrix: Solid

Analysis Batch: 734

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 647

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1046		mg/Kg		105	70 - 130	3	35
Ethylbenzene	0.100	0.1108		mg/Kg		111	70 - 130	0	35
Toluene	0.100	0.1085		mg/Kg		108	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2274		mg/Kg		114	70 - 130	0	35
o-Xylene	0.100	0.1109		mg/Kg		111	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-456-1 MS

Matrix: Solid

Analysis Batch: 734

Client Sample ID: SW-1

Prep Type: Total/NA

Prep Batch: 647

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F1	0.101	<0.00202	U F1	mg/Kg		1	70 - 130
Ethylbenzene	<0.00200	U F2 F1	0.101	<0.00202	U F1	mg/Kg		1	70 - 130
Toluene	<0.00200	U F1	0.101	<0.00202	U F1	mg/Kg		1	70 - 130
m-Xylene & p-Xylene	<0.00401	U F1	0.202	<0.00403	U F1	mg/Kg		1	70 - 130
o-Xylene	<0.00200	U F1	0.101	<0.00202	U F1	mg/Kg		0	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-456-1 MSD

Matrix: Solid

Analysis Batch: 734

Client Sample ID: SW-1

Prep Type: Total/NA

Prep Batch: 647

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.100	<0.00201	U F1	mg/Kg		1	70 - 130	24	35

Eurofins Xenco, Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y

Job ID: 880-456-1

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

Lab Sample ID: 880-456-1 MSD

Matrix: Solid

Analysis Batch: 734

Client Sample ID: SW-1

Prep Type: Total/NA

Prep Batch: 647

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	<0.00200	U F2 F1	0.100	0.006278	F1 F2	mg/Kg		6	70 - 130	144	35
Toluene	<0.00200	U F1	0.100	<0.00201	U F1	mg/Kg		0	70 - 130	NC	35
m-Xylene & p-Xylene	<0.00401	U F1	0.201	<0.00402	U F1	mg/Kg		0	70 - 130	NC	35
o-Xylene	<0.00200	U F1	0.100	0.006952	F1	mg/Kg		7	70 - 130	NC	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	4	S1-	70 - 130

Lab Sample ID: MB 880-688/5-A

Matrix: Solid

Analysis Batch: 734

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/21 11:15	03/23/21 10:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/21 11:15	03/23/21 10:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/21 11:15	03/23/21 10:39	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/22/21 11:15	03/23/21 10:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/22/21 11:15	03/23/21 10:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/22/21 11:15	03/23/21 10:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/21 11:15	03/23/21 10:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/22/21 11:15	03/23/21 10:39	1
1,4-Difluorobenzene (Surr)	96		70 - 130	03/22/21 11:15	03/23/21 10:39	1

Lab Sample ID: LCS 880-688/1-A

Matrix: Solid

Analysis Batch: 734

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1084		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1193		mg/Kg		119	70 - 130
Toluene	0.100	0.1157		mg/Kg		116	70 - 130
m-Xylene & p-Xylene	0.200	0.2466		mg/Kg		123	70 - 130
o-Xylene	0.100	0.1163		mg/Kg		116	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-688/2-A

Matrix: Solid

Analysis Batch: 734

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 688

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1127		mg/Kg		113	70 - 130	4	35
Ethylbenzene	0.100	0.1217		mg/Kg		122	70 - 130	2	35

Eurofins Xenco, Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y

Job ID: 880-456-1

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

Lab Sample ID: LCSD 880-688/2-A

Matrix: Solid

Analysis Batch: 734

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 688

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.1184		mg/Kg		118	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2508		mg/Kg		125	70 - 130	2	35
o-Xylene	0.100	0.1193		mg/Kg		119	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-841/5-A

Matrix: Solid

Analysis Batch: 830

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/25/21 10:12	03/25/21 14:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/25/21 10:12	03/25/21 14:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/25/21 10:12	03/25/21 14:23	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/25/21 10:12	03/25/21 14:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/25/21 10:12	03/25/21 14:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/25/21 10:12	03/25/21 14:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/25/21 10:12	03/25/21 14:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/25/21 10:12	03/25/21 14:23	1
1,4-Difluorobenzene (Surr)	99		70 - 130	03/25/21 10:12	03/25/21 14:23	1

Lab Sample ID: LCS 880-841/1-A

Matrix: Solid

Analysis Batch: 830

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 841

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09164		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09034		mg/Kg		90	70 - 130
Toluene	0.100	0.08687		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1780		mg/Kg		89	70 - 130
o-Xylene	0.100	0.08846		mg/Kg		88	70 - 130

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

Lab Sample ID: LCSD 880-841/2-A

Matrix: Solid

Analysis Batch: 830

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 841

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09137		mg/Kg		91	70 - 130	0	35
Ethylbenzene	0.100	0.09348		mg/Kg		93	70 - 130	3	35
Toluene	0.100	0.08898		mg/Kg		89	70 - 130	2	35

Eurofins Xenco, Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y

Job ID: 880-456-1

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

Lab Sample ID: LCSD 880-841/2-A

Matrix: Solid

Analysis Batch: 830

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 841

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene	0.200	0.1849		mg/Kg		92	70 - 130	4	35
o-Xylene	0.100	0.09101		mg/Kg		91	70 - 130	3	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	101		70 - 130						
1,4-Difluorobenzene (Surr)	100		70 - 130						

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

Lab Sample ID: MB 880-576/1-A

Matrix: Solid

Analysis Batch: 617

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 576

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/18/21 17:00	03/19/21 16:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/18/21 17:00	03/19/21 16:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/18/21 17:00	03/19/21 16:14	1
Total TPH	<50.0	U	50.0		mg/Kg		03/18/21 17:00	03/19/21 16:14	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	106		70 - 130						
o-Terphenyl	104		70 - 130						

Lab Sample ID: LCS 880-576/2-A

Matrix: Solid

Analysis Batch: 617

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 576

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	1233		mg/Kg		123	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1089		mg/Kg		109	70 - 130		

Lab Sample ID: LCSD 880-576/3-A

Matrix: Solid

Analysis Batch: 617

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 576

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1315	*+	mg/Kg		131	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	1164		mg/Kg		116	70 - 130	7	20

Eurofins Xenco, Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y

Job ID: 880-456-1

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

Lab Sample ID: LCSD 880-576/3-A

Matrix: Solid

Analysis Batch: 617

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 576

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	136	S1+	70 - 130
o-Terphenyl	122		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-645/1-A

Matrix: Solid

Analysis Batch: 695

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/22/21 13:27	1

Lab Sample ID: LCS 880-645/2-A

Matrix: Solid

Analysis Batch: 695

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS					%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	248.2		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-645/3-A

Matrix: Solid

Analysis Batch: 695

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

	Spike	LCSD	LCSD					%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	244.7		mg/Kg		98	90 - 110	1	20	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y

Job ID: 880-456-1

GC VOA

Prep Batch: 647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-456-1	SW-1	Total/NA	Solid	5035	
880-456-2	AH-3 (0-1')	Total/NA	Solid	5035	
880-456-3	AH-3 (1-1.5')	Total/NA	Solid	5035	
880-456-4	AH-1 (0-1')	Total/NA	Solid	5035	
880-456-5	AH-1 (1-1.5')	Total/NA	Solid	5035	
880-456-6	AH-2 (0-1')	Total/NA	Solid	5035	
880-456-7	AH-2 (1-1.5')	Total/NA	Solid	5035	
880-456-8	BH-1	Total/NA	Solid	5035	
880-456-9	BH-2	Total/NA	Solid	5035	
880-456-10	SW-2	Total/NA	Solid	5035	
880-456-11	SW-3	Total/NA	Solid	5035	
MB 880-647/5-A	Method Blank	Total/NA	Solid	5035	
LCSD 880-647/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-456-1 MS	SW-1	Total/NA	Solid	5035	
880-456-1 MSD	SW-1	Total/NA	Solid	5035	

Prep Batch: 688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-688/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-688/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-688/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-456-1	SW-1	Total/NA	Solid	8021B	647
880-456-2	AH-3 (0-1')	Total/NA	Solid	8021B	647
880-456-3	AH-3 (1-1.5')	Total/NA	Solid	8021B	647
880-456-4	AH-1 (0-1')	Total/NA	Solid	8021B	647
880-456-5	AH-1 (1-1.5')	Total/NA	Solid	8021B	647
880-456-6	AH-2 (0-1')	Total/NA	Solid	8021B	647
880-456-7	AH-2 (1-1.5')	Total/NA	Solid	8021B	647
880-456-8	BH-1	Total/NA	Solid	8021B	647
880-456-9	BH-2	Total/NA	Solid	8021B	647
880-456-10	SW-2	Total/NA	Solid	8021B	647
880-456-11	SW-3	Total/NA	Solid	8021B	647
MB 880-647/5-A	Method Blank	Total/NA	Solid	8021B	647
MB 880-688/5-A	Method Blank	Total/NA	Solid	8021B	688
LCS 880-688/1-A	Lab Control Sample	Total/NA	Solid	8021B	688
LCSD 880-647/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	647
LCSD 880-688/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	688
880-456-1 MS	SW-1	Total/NA	Solid	8021B	647
880-456-1 MSD	SW-1	Total/NA	Solid	8021B	647

Analysis Batch: 830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-456-12	SW-4	Total/NA	Solid	8021B	841
MB 880-841/5-A	Method Blank	Total/NA	Solid	8021B	841
LCS 880-841/1-A	Lab Control Sample	Total/NA	Solid	8021B	841
LCSD 880-841/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	841

Eurofins Xenco, Midland

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y

Job ID: 880-456-1

GC VOA

Prep Batch: 841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-456-12	SW-4	Total/NA	Solid	5035	
MB 880-841/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-841/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-841/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-456-1	SW-1	Total/NA	Solid	8015NM Prep	
880-456-2	AH-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-456-3	AH-3 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-456-4	AH-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-456-5	AH-1 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-456-6	AH-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-456-8	BH-1	Total/NA	Solid	8015NM Prep	
880-456-9	BH-2	Total/NA	Solid	8015NM Prep	
880-456-10	SW-2	Total/NA	Solid	8015NM Prep	
880-456-11	SW-3	Total/NA	Solid	8015NM Prep	
880-456-12	SW-4	Total/NA	Solid	8015NM Prep	
MB 880-576/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-576/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-576/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-456-1	SW-1	Total/NA	Solid	8015B NM	576
880-456-2	AH-3 (0-1')	Total/NA	Solid	8015B NM	576
880-456-3	AH-3 (1-1.5')	Total/NA	Solid	8015B NM	576
880-456-4	AH-1 (0-1')	Total/NA	Solid	8015B NM	576
880-456-5	AH-1 (1-1.5')	Total/NA	Solid	8015B NM	576
880-456-6	AH-2 (0-1')	Total/NA	Solid	8015B NM	576
880-456-8	BH-1	Total/NA	Solid	8015B NM	576
880-456-9	BH-2	Total/NA	Solid	8015B NM	576
880-456-10	SW-2	Total/NA	Solid	8015B NM	576
880-456-11	SW-3	Total/NA	Solid	8015B NM	576
880-456-12	SW-4	Total/NA	Solid	8015B NM	576
MB 880-576/1-A	Method Blank	Total/NA	Solid	8015B NM	576
LCS 880-576/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	576
LCSD 880-576/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	576

Prep Batch: 704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-456-7	AH-2 (1-1.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-456-7	AH-2 (1-1.5')	Total/NA	Solid	8015B NM	704

Eurofins Xenco, Midland

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y

Job ID: 880-456-1

HPLC/IC

Leach Batch: 645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-456-1	SW-1	Soluble	Solid	DI Leach	
880-456-2	AH-3 (0-1')	Soluble	Solid	DI Leach	
880-456-3	AH-3 (1-1.5')	Soluble	Solid	DI Leach	
880-456-4	AH-1 (0-1')	Soluble	Solid	DI Leach	
880-456-5	AH-1 (1-1.5')	Soluble	Solid	DI Leach	
880-456-6	AH-2 (0-1')	Soluble	Solid	DI Leach	
880-456-7	AH-2 (1-1.5')	Soluble	Solid	DI Leach	
880-456-8	BH-1	Soluble	Solid	DI Leach	
880-456-9	BH-2	Soluble	Solid	DI Leach	
880-456-10	SW-2	Soluble	Solid	DI Leach	
880-456-11	SW-3	Soluble	Solid	DI Leach	
880-456-12	SW-4	Soluble	Solid	DI Leach	
MB 880-645/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-645/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-645/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-456-7 MS	AH-2 (1-1.5')	Soluble	Solid	DI Leach	
880-456-7 MSD	AH-2 (1-1.5')	Soluble	Solid	DI Leach	

Analysis Batch: 695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-456-1	SW-1	Soluble	Solid	300.0	645
880-456-2	AH-3 (0-1')	Soluble	Solid	300.0	645
880-456-3	AH-3 (1-1.5')	Soluble	Solid	300.0	645
880-456-4	AH-1 (0-1')	Soluble	Solid	300.0	645
880-456-5	AH-1 (1-1.5')	Soluble	Solid	300.0	645
880-456-6	AH-2 (0-1')	Soluble	Solid	300.0	645
880-456-7	AH-2 (1-1.5')	Soluble	Solid	300.0	645
880-456-8	BH-1	Soluble	Solid	300.0	645
880-456-9	BH-2	Soluble	Solid	300.0	645
880-456-10	SW-2	Soluble	Solid	300.0	645
880-456-11	SW-3	Soluble	Solid	300.0	645
880-456-12	SW-4	Soluble	Solid	300.0	645
MB 880-645/1-A	Method Blank	Soluble	Solid	300.0	645
LCS 880-645/2-A	Lab Control Sample	Soluble	Solid	300.0	645
LCSD 880-645/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	645
880-456-7 MS	AH-2 (1-1.5')	Soluble	Solid	300.0	645
880-456-7 MSD	AH-2 (1-1.5')	Soluble	Solid	300.0	645

Eurofins Xenco, Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y

Job ID: 880-456-1

Client Sample ID: SW-1

Lab Sample ID: 880-456-1

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			647	03/21/21 11:57	MR	XM
Total/NA	Analysis	8021B		1	734	03/23/21 22:08	MR	XM
Total/NA	Prep	8015NM Prep			576	03/18/21 17:00	DM	XM
Total/NA	Analysis	8015B NM		1	617	03/19/21 20:49	AM	XM
Soluble	Leach	DI Leach			645	03/21/21 11:35	AJ	XM
Soluble	Analysis	300.0		1	695	03/22/21 14:14	WP	XM

Client Sample ID: AH-3 (0-1')

Lab Sample ID: 880-456-2

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			647	03/21/21 11:57	MR	XM
Total/NA	Analysis	8021B		1	734	03/23/21 22:28	MR	XM
Total/NA	Prep	8015NM Prep			576	03/18/21 17:00	DM	XM
Total/NA	Analysis	8015B NM		1	617	03/19/21 21:10	AM	XM
Soluble	Leach	DI Leach			645	03/21/21 11:35	AJ	XM
Soluble	Analysis	300.0		1	695	03/22/21 14:30	WP	XM

Client Sample ID: AH-3 (1-1.5')

Lab Sample ID: 880-456-3

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			647	03/21/21 11:57	MR	XM
Total/NA	Analysis	8021B		1	734	03/23/21 22:49	MR	XM
Total/NA	Prep	8015NM Prep			576	03/18/21 17:00	DM	XM
Total/NA	Analysis	8015B NM		1	617	03/19/21 21:53	AM	XM
Soluble	Leach	DI Leach			645	03/21/21 11:35	AJ	XM
Soluble	Analysis	300.0		1	695	03/22/21 14:35	WP	XM

Client Sample ID: AH-1 (0-1')

Lab Sample ID: 880-456-4

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			647	03/21/21 11:57	MR	XM
Total/NA	Analysis	8021B		1	734	03/23/21 23:09	MR	XM
Total/NA	Prep	8015NM Prep			576	03/18/21 17:00	DM	XM
Total/NA	Analysis	8015B NM		1	617	03/19/21 22:14	AM	XM
Soluble	Leach	DI Leach			645	03/21/21 11:35	AJ	XM
Soluble	Analysis	300.0		1	695	03/22/21 14:40	WP	XM

Eurofins Xenco, Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y

Job ID: 880-456-1

Client Sample ID: AH-1 (1-1.5')

Lab Sample ID: 880-456-5

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			647	03/21/21 11:57	MR	XM
Total/NA	Analysis	8021B		1	734	03/23/21 23:30	MR	XM
Total/NA	Prep	8015NM Prep			576	03/18/21 17:00	DM	XM
Total/NA	Analysis	8015B NM		1	617	03/19/21 22:36	AM	XM
Soluble	Leach	DI Leach			645	03/21/21 11:35	AJ	XM
Soluble	Analysis	300.0		1	695	03/22/21 14:45	WP	XM

Client Sample ID: AH-2 (0-1')

Lab Sample ID: 880-456-6

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			647	03/21/21 11:57	MR	XM
Total/NA	Analysis	8021B		1	734	03/23/21 23:50	MR	XM
Total/NA	Prep	8015NM Prep			576	03/18/21 17:00	DM	XM
Total/NA	Analysis	8015B NM		1	617	03/19/21 22:57	AM	XM
Soluble	Leach	DI Leach			645	03/21/21 11:35	AJ	XM
Soluble	Analysis	300.0		1	695	03/22/21 14:50	WP	XM

Client Sample ID: AH-2 (1-1.5')

Lab Sample ID: 880-456-7

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			647	03/21/21 11:57	MR	XM
Total/NA	Analysis	8021B		1	734	03/24/21 00:10	MR	XM
Total/NA	Prep	8015NM Prep			704	03/22/21 15:38	DM	XM
Total/NA	Analysis	8015B NM		1	716	03/23/21 20:21	AM	XM
Soluble	Leach	DI Leach			645	03/21/21 11:35	AJ	XM
Soluble	Analysis	300.0		1	695	03/22/21 14:55	WP	XM

Client Sample ID: BH-1

Lab Sample ID: 880-456-8

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			647	03/21/21 11:57	MR	XM
Total/NA	Analysis	8021B		1	734	03/24/21 00:31	MR	XM
Total/NA	Prep	8015NM Prep			576	03/18/21 17:00	DM	XM
Total/NA	Analysis	8015B NM		1	617	03/19/21 23:39	AM	XM
Soluble	Leach	DI Leach			645	03/21/21 11:35	AJ	XM
Soluble	Analysis	300.0		1	695	03/22/21 15:11	WP	XM

Eurofins Xenco, Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y

Job ID: 880-456-1

Client Sample ID: BH-2

Lab Sample ID: 880-456-9

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			647	03/21/21 11:57	MR	XM
Total/NA	Analysis	8021B		1	734	03/24/21 00:51	MR	XM
Total/NA	Prep	8015NM Prep			576	03/18/21 17:00	DM	XM
Total/NA	Analysis	8015B NM		1	617	03/20/21 00:00	AM	XM
Soluble	Leach	DI Leach			645	03/21/21 11:35	AJ	XM
Soluble	Analysis	300.0		1	695	03/22/21 15:16	WP	XM

Client Sample ID: SW-2

Lab Sample ID: 880-456-10

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			647	03/21/21 11:57	MR	XM
Total/NA	Analysis	8021B		1	734	03/24/21 01:12	MR	XM
Total/NA	Prep	8015NM Prep			576	03/18/21 17:00	DM	XM
Total/NA	Analysis	8015B NM		1	617	03/20/21 00:22	AM	XM
Soluble	Leach	DI Leach			645	03/21/21 11:35	AJ	XM
Soluble	Analysis	300.0		1	695	03/22/21 15:32	WP	XM

Client Sample ID: SW-3

Lab Sample ID: 880-456-11

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			647	03/21/21 11:57	MR	XM
Total/NA	Analysis	8021B		1	734	03/24/21 01:58	MR	XM
Total/NA	Prep	8015NM Prep			576	03/18/21 17:00	DM	XM
Total/NA	Analysis	8015B NM		1	617	03/20/21 00:43	AM	XM
Soluble	Leach	DI Leach			645	03/21/21 11:35	AJ	XM
Soluble	Analysis	300.0		1	695	03/22/21 15:37	WP	XM

Client Sample ID: SW-4

Lab Sample ID: 880-456-12

Date Collected: 03/18/21 00:00

Matrix: Solid

Date Received: 03/18/21 14:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			841	03/25/21 10:12	KL	XM
Total/NA	Analysis	8021B		1	830	03/25/21 21:52	KL	XM
Total/NA	Prep	8015NM Prep			576	03/18/21 17:00	DM	XM
Total/NA	Analysis	8015B NM		1	617	03/20/21 01:04	AM	XM
Soluble	Leach	DI Leach			645	03/21/21 11:35	AJ	XM
Soluble	Analysis	300.0		1	695	03/22/21 15:42	WP	XM

Laboratory References:

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

Eurofins Xenco, Midland

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y

Job ID: 880-456-1

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

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
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: Tetra Tech, Inc.

Job ID: 880-456-1

Project/Site: EOG-Big Eddy Unit 079Y

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XM
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
300.0	Anions, Ion Chromatography	MCAWW	XM
5035	Closed System Purge and Trap	SW846	XM
8015NM Prep	Microextraction	SW846	XM
DI Leach	Deionized Water Leaching Procedure	ASTM	XM

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

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

Eurofins Xenco, Midland

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: EOG-Big Eddy Unit 079Y

Job ID: 880-456-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-456-1	SW-1	Solid	03/18/21 00:00	03/18/21 14:52	
880-456-2	AH-3 (0-1')	Solid	03/18/21 00:00	03/18/21 14:52	
880-456-3	AH-3 (1-1.5')	Solid	03/18/21 00:00	03/18/21 14:52	
880-456-4	AH-1 (0-1')	Solid	03/18/21 00:00	03/18/21 14:52	
880-456-5	AH-1 (1-1.5')	Solid	03/18/21 00:00	03/18/21 14:52	
880-456-6	AH-2 (0-1')	Solid	03/18/21 00:00	03/18/21 14:52	
880-456-7	AH-2 (1-1.5')	Solid	03/18/21 00:00	03/18/21 14:52	
880-456-8	BH-1	Solid	03/18/21 00:00	03/18/21 14:52	
880-456-9	BH-2	Solid	03/18/21 00:00	03/18/21 14:52	
880-456-10	SW-2	Solid	03/18/21 00:00	03/18/21 14:52	
880-456-11	SW-3	Solid	03/18/21 00:00	03/18/21 14:52	
880-456-12	SW-4	Solid	03/18/21 00:00	03/18/21 14:52	

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

4000 N. Big Spring Street
401 Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

880-456 Chain of Custody



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3/29/2021

[illegible]

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

4000 N Big Spring Street Ste
401 Midland, Texas 79705
Tel (432) 682-4559
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Loc: 880

456

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[illegible]

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

4000 N Big Spring Street Ste
401 Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Loc. 880
456

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[illegible]

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-456-1

Login Number: 456

List Source: Eurofins Midland

List Number: 1

Creator: Teel, Brianna

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	

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

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

CONDITIONS

Action 54748

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 54748
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	None	11/2/2021