TETRA TECH

October 26, 2022

District Supervisor
Oil Conservation Division, District 2
811 S. First St.
Artesia, New Mexico 88210

Re: Release Characterization and Revised Deferral Request
ConocoPhillips
Heritage Concho
Dodd Federal Unit #980H Release
Unit Letter C, Section 10, Township 17 South, Range 29 East
Eddy County, New Mexico
Incident ID# NAB1909540096
2RP-5334

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to evaluate a Heritage Concho release and subsequent assessment activities performed at the Dodd Federal Unit #980H (API No. 30-015-44807) Release Site. The release footprint is located in Public Land Survey System (PLSS) Unit Letter C, Section 10, Township 17 South, Range 29 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.85542°, -104.06603°, as shown on Figures 1 and 2. The Site is currently operated by Spur Energy Partners, LLC.

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, the release was discovered on March 23, 2019. The C-141 reports that release was caused by the dump on the free water knockout losing pressure, filling the vessel, and sending fluid up the flare. Approximately 5 barrels (bbls) of produced water and 1 bbl of oil were reported released, of which 3 bbls of produced water and 0.5 bbls of crude oil were recovered by vacuum truck. The release occurred on Bureau of Land Management (BLM) land. The release footprint is located on the lease pad and did not affect pasture.

The NMOCD approved the initial C-141 on April 5, 2019 and subsequently assigned the release the Incident ID NAB1909540096 and the remediation permit (RP) number 2RP-5334. The initial C-141 form is included in Appendix A.

SITE CHARACTERIZATION

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

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within ½ mile (800 meters) of the Site. The search radius was expanded and based on available data from one (1) water well within 4,500 meters (approximately 2.8 miles) of the site, the average depth to groundwater is 76 feet below ground surface (bgs).

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As the available water level information is from a well further than ½ mile asway from the site, ConocoPhillips elected to drill a boring to verify depth to groundwater. On June 22, 2022, a licensed well drilling subcontractor was onsite to drill a groundwater determination borehole (DTW) to 105 feet bgs along the edge of the Dodd Federal Unit 980H lease pad. The borehole was temporarily set and screened using 2-inch PVC well materials. The borehole was left for a minimum of 72 hours and checked for the presence of groundwater. No water was present in the well on July 19, 2022, and the borehole was dry. The well screen and casing were removed, and the borehole was plugged with 3/8" bentonite chips. The borehole location is indicated on Figure 3. The site characterization data, boring log, and temporary well diagram are included in Appendix B.

REGULATORY FRAMEWORK

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

Based on the site characterization (high karst area), the RRALs for the Site are as follows:

Constituent	Site RRAL
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

INITIAL REMEDIAL ACTIVITIES AND WORK PLAN SUBMITTAL

In September 2019, COG Operating, LLC (COG) personnel were at the Site to conduct initial response remediation of the March 2019 release. The impacted area inside the flare firewall containment was excavated to depths of 1 and 2 feet. The western portion of the impacted area was excavated to 1 foot bgs and the eastern portion to 2 feet bgs. The initial response areas are presented in Figure 3.

On September 24, 2019, a total of four (4) composite soil samples (BTM-1 through BTM-4) were collected from the floor of the excavated areas. Additionally, four (4) soil samples (North, South, East and West) were collected from around the perimeter of the impacted area at the cardinal directions. All samples were sent to Cardinal Laboratories in Hobbs, New Mexico for analysis of BTEX via EPA Method 8021B, TPH via EPA Method 8015M and chloride via SM4500Cl-B. Sampling locations are presented in Figure 4.

Analytical results associated with the September 2019 sampling event are summarized in Table 1. Results associated with floor samples BTM-1 and BTM-4 exceeded the Site RRAL for chloride. There were no other Site RRAL exceedances from the September 2019 sampling event.

COG prepared a Work Plan based on the results of the excavations and sampling conducted. The Work Plan was submitted to the NMOCD on May 18, 2020. This Work Plan proposed additional assessment of the BTM-1 and BTM-4 area to define the vertical extent of impact and excavation of the remaining impacted soil. Additionally, a variance request for the installation of a 20-mil liner in the instance that impact exists at depths greater than 3-4 feet was included.

The NMOCD conditionally approved the Work Plan via email on July 9, 2020. The conditions provided in the approval email stated that all confirmation samples must meet closure criteria associated with areas with high karst potential. The email also included a denial of the variance request for the installation of a liner. A copy of the regulatory correspondence is included in Appendix C.

ADDITIONAL SITE ASSESSMENT

On December 7, 2020, COG personnel were at the site to define the vertical extent of impact in the area containing samples BTM-1 and BTM-4 as proposed in the conditionally approved work plan. One (1) boring (BH-1) was installed between sample locations BTM-1 and BTM-4 to a depth of 45 feet bgs (Figure 4).

A total of twelve (12) soil samples were collected from BH-1 and submitted to Eurofins Xenco, LLC for laboratory analysis of chloride via EPA Method 300.0. The analytical results associated with BH-1 are summarized in Table 1. These sample results exceeded the RRAL for chloride at 1 foot and from 5 feet to 40 feet. The result for the sample collected at 45 feet was below the Site RRAL for chloride of 600 mg/kg.

Additionally, a depth-to-water (DTW) boring was installed to a depth of 55 feet bgs south of the release area. The borehole was allowed to remain for 72 hours and subsequently gauged for the presence of groundwater. The borehole was dry at the time of gauging; thus, the borehole was plugged by a licensed driller.

DEFERRAL REQUEST

Following the December 7, 2020, assessment activities, COG submitted a deferral request for the remediation of the NAB1909540096 release on December 22, 2020. As stated in the deferral report, Spur Energy Partners, LLC. is now the operator of the Dodd facility. The request for deferral is based on the safety concerns for excavating inside the contained area and next to the flare structure. The deferral request was denied by the NMOCD on March 11, 2021. According to information available on the NMOCD Online Imaging website, the request was denied for the following reasons:

"The OCD request to know who the responsible party is for DODD FEDERAL UNIT #980H. The OCD does not feel that the flare on DODD FEDERAL UNIT #980H meets 19.15.29.12(c)(2) and would cause a major facility deconstruction."

COG contacted NMOCD to discuss the denial and possible historical impact at the Site. The results of the various sampling events conducted at the Site indicate that the impacted soils found at depth in BH-1 may be related to historical impact, possibly from the plugged well Dodd Federal Unit #001 (API #30-015-25705), which is made evident by the multiple locations showing unimpacted material stratigraphically above impacted material. This plugged and abandoned well is located approximately 40 feet east of the flare stack. A review of aerial imagery of the Site from 2011 shows staining on the lease pad that appears to have originated from the Dodd Federal Unit #001 wellhead. There are no compliance issues noted for API #30-015-25705.

REVISED WORK PLAN SUBMITTAL

By request of the NMOCD, COG submitted a Revised Work Plan for Incident ID NAB1909540096 on April 21, 2021. In the Work Plan, COG proposed to continue the assessment at the Site to define the horizontal and vertical extents of the subsurface impacted soils around the flare. The proposed work included installing additional borings north, east, south, and west of the flare to delineate subsurface impact and installing a DTW boring to a depth of 105 feet bgs to establish the depth of groundwater in the area. The Revised Work Plan was approved on June 24, 2021 by Chad Hensley of the NMOCD (Appendix C).

ADDITIONAL DELINEATION

On June 23, 2022, Tetra Tech personnel were at the Site to conduct additional delineation as proposed in the approved Work Plan dated April 21, 2021. Five (5) borings (B-1 through B-5) were installed around the Dodd facility flare stack to various depths ranging from 30 feet to 50 feet. A total of fifty-seven (57) soil samples were collected from borings B-1 through B-5. The samples were submitted to Eurofins Xenco for chloride analysis via EPA Method 300.0. Samples collected at 0-1 and 2-3 feet were also analyzed for BTEX and TPH. Boring locations are presented in Figure 5.

Analytical results from the June 2022 assessment activities are summarized in Table 2. Sample results from B-1 and B-2 exceeded the chloride Site RRAL of 600 mg/kg to depths of 40 feet and 30 feet, respectively. While the interval of 34-35 feet bgs at B-2 was below the chloride RRAL, the below interval at 39-10 feet bgs in B-2 exceeded 600 mg/kg. Results from B-5 at depth intervals ranging from to 19-45 feet exceeded the Site RRAL for chloride. All other sample results were below Site RRALs.

In accordance with the approved revised Work Plan, a licensed well drilling subcontractor was onsite to drill a borehole to 105 feet bgs. The borehole was located southwest of the flare stack. The borehole was dry upon completion, and soils were dry from surface to total depth. The depth to groundwater in the area was thus verified as greater than 105 feet bgs. The borehole coordinates are 32.855426°, -104.066133°, as shown on Figure 5.

To complete delineation east of boring location B-2, Tetra Tech personnel installed an additional boring (B-6) to a depth of 10 feet bgs on September 14, 2022. A total of five (5) soil samples were collected from B-6 and submitted to Cardinal Laboratory in Hobbs, NM for analysis of chloride, BTEX and TPH. All analytical results associated with B-6 were below Site RRALs. Analytical results from B-6 are summarized in Table 2. The laboratory analytical reports are presented in Appendix D. These additional delineation activities provided a comprehensive study of not only the subsurface conditions in the vicinity of the release, but along with the previously collected data, also the surrounding area. The conditions of the Work Plan approval have been met. The areas around the flare have been delineated vertically and horizontally, except to the north.

Further research into the Dodd Federal Unit #980H well files revealed the presence of a closed reserve pit in the release vicinity and beneath the adjacent tank battery to the north, as indicated on Figure 3. According to available information, the closed reserve pit location coincides with 2022 boring locations B-1 and B-5 and is the source of the historical chloride impacts observed at depth (Figure 5). The well application with the reserve pit information is presented in Appendix E.

CONCLUSION

All analytical results associated with the horizontal delineation to the east, south, and west of the release area were below applicable Site RRALs. Subsurface chloride impacts in the horizontal borings to the north have been identified as geographically coincident with a closed reserve pit below the Site pad and existing tank battery. Existing historical impacts above Site RRALs found during the site delineation and characterization have been vertically defined.

Based on the results of the additional site delineation and characterization, performed in accordance with the approved Work Plan and NMOCD directives, ConocoPhillips respectfully requests a deferral of the remaining chloride impacts present at the Site. Given the established DTW determination, the subsurface soils at the Site with chloride concentrations above the Site RRAL of 600 mg/kg do not pose a threat to freshwater, human health, or the environment. The final C-141 forms are enclosed in Appendix A. If you have any questions concerning the soil assessment activities at the Site, please call me at (512) 739-7874 or Christian at (512) 288-6281.

Sincerely,
Tetra Tech, Inc.

Sam Abbott
Project Manager

Christian M, Llull, P.G.
Program Manager

cc:
Mr. Ike Tavarez, RMR – ConocoPhillips
Mr. Charles Beauvais, GPBU - ConocoPhillips

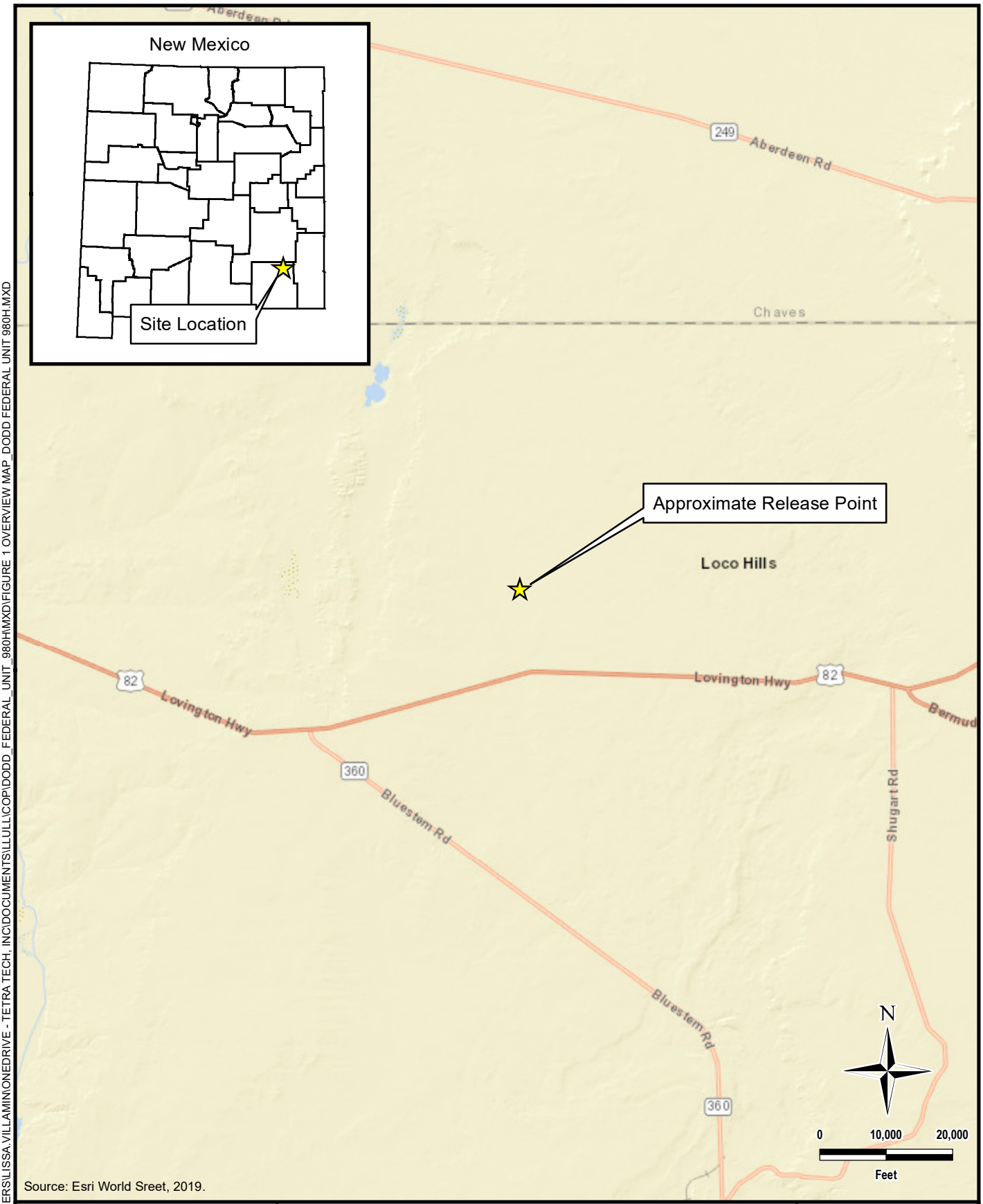
LIST OF ATTACHMENTS

Figures:

Tables:

Appendices:

FIGURES



Source: Esri World Sreet, 2019.

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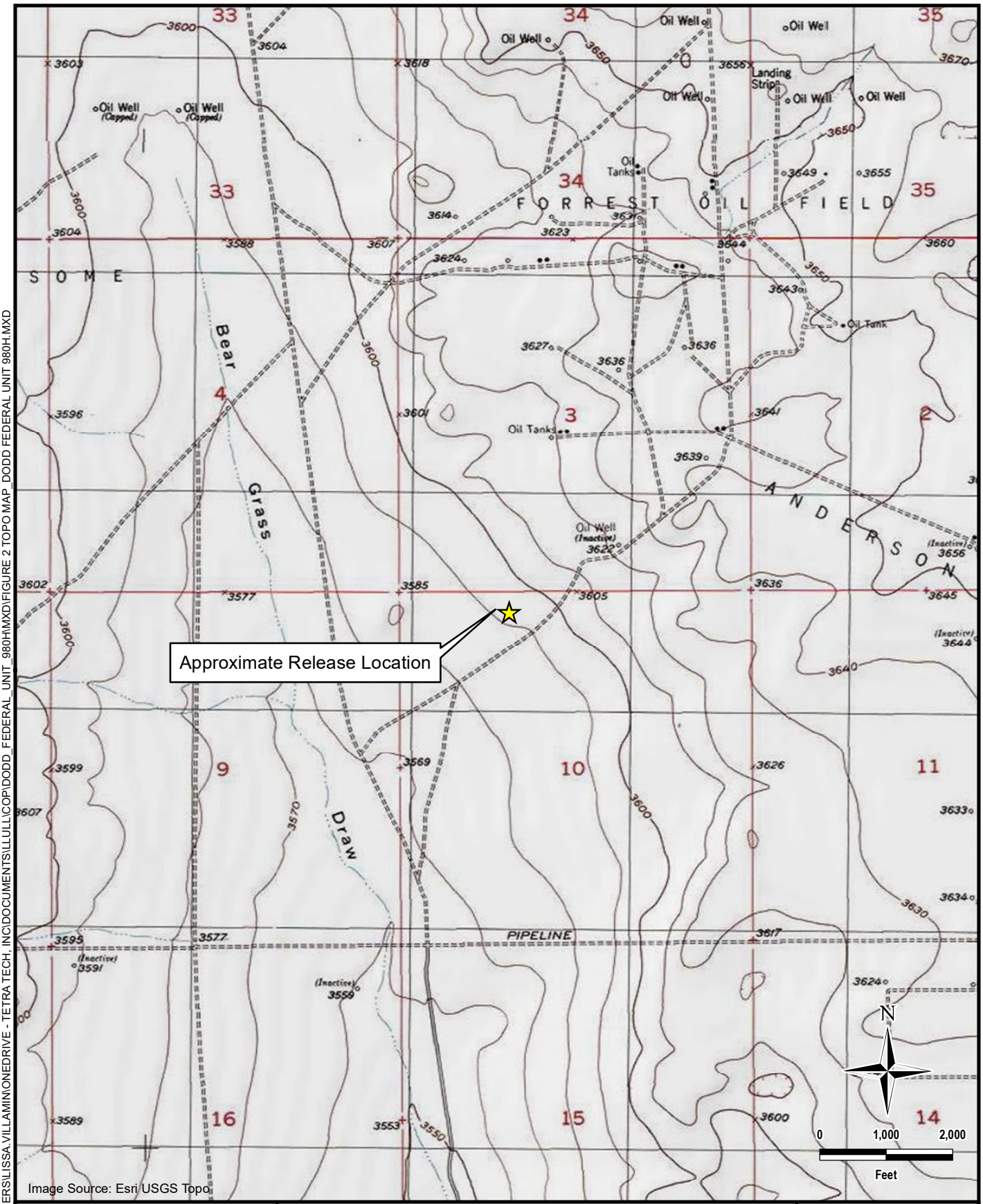
CONOCOPHILLIPS

NAB1909540096
(32.85542°, -104.06603°)
EDDY COUNTY, NEW MEXICO

DODD FEDERAL UNIT 980H
OVERVIEW MAP

PROJECT NO.:	212C-AU-02757
DATE:	AUGUST 30, 2022
DESIGNED BY:	LMV

Figure No.
1



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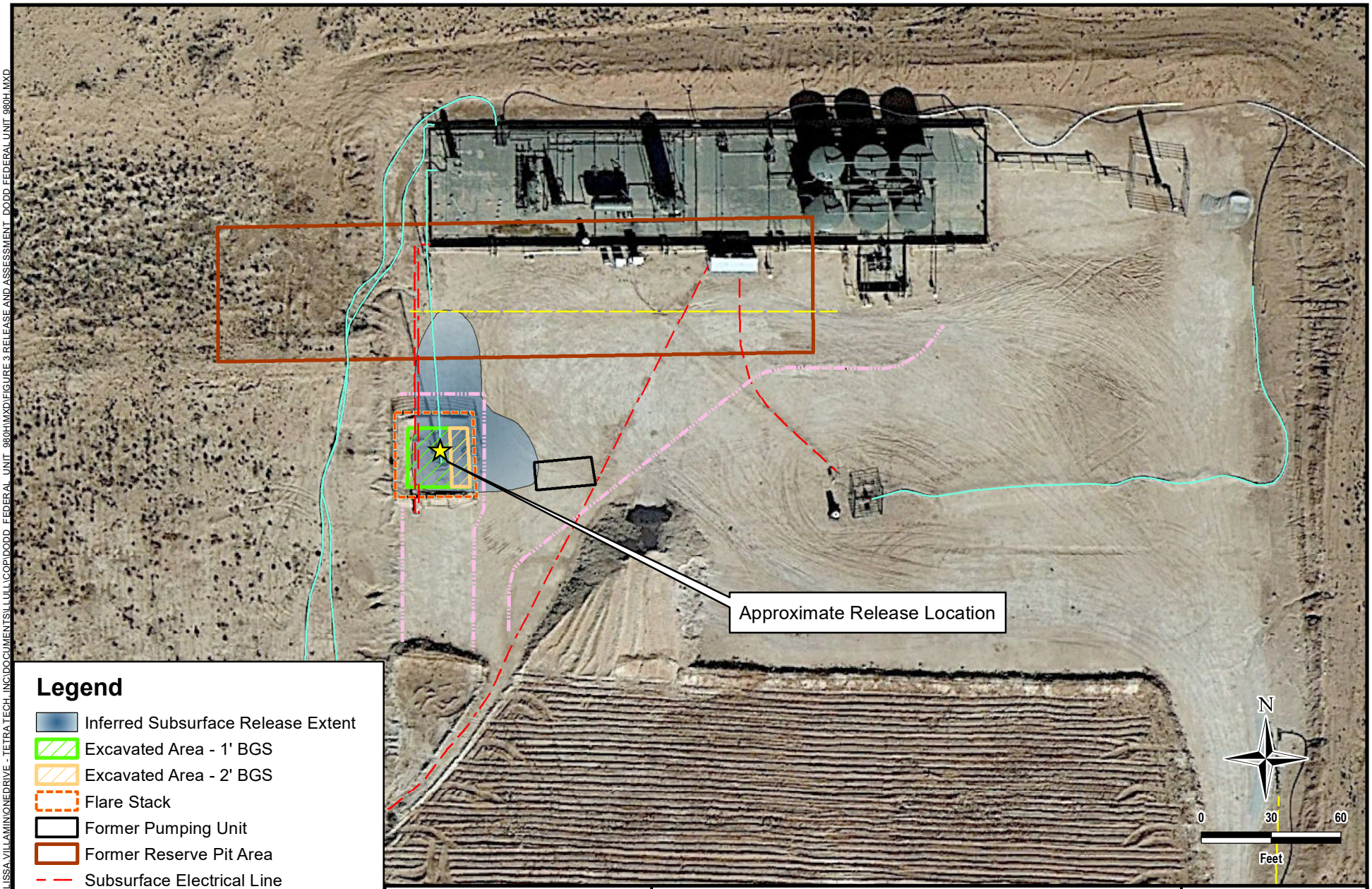
CONOCOPHILLIPS

NAB1909540096
(32.85542°, -104.06603°)
EDDY COUNTY, NEW MEXICO

DODD FEDERAL UNIT 980H
TOPOGRAPHIC MAP

PROJECT NO.:	212C-AU-02757
DATE:	AUGUST 30, 2022
DESIGNED BY:	LMV

Figure No.
2



DOCUMENT PATH: C:\USERS\LISSA.VILLAMIN\ONEDRIVE - TETRA TECH, INC\DOCUMENTS\LULU\COP\DODD_FEDERAL_UNIT_980H\MXD\FIGURE 3 RELEASE AND ASSESSMENT_DODD FEDERAL UNIT 980H.MXD

Legend

- Inferred Subsurface Release Extent
- Excavated Area - 1' BGS
- Excavated Area - 2' BGS
- Flare Stack
- Former Pumping Unit
- Former Reserve Pit Area
- Subsurface Electrical Line
- Subsurface Production Line
- Suspected Subsurface Line
- Surface Flowline

*BGS: Below Ground Surface
Image Source: Google Earth, 2019.

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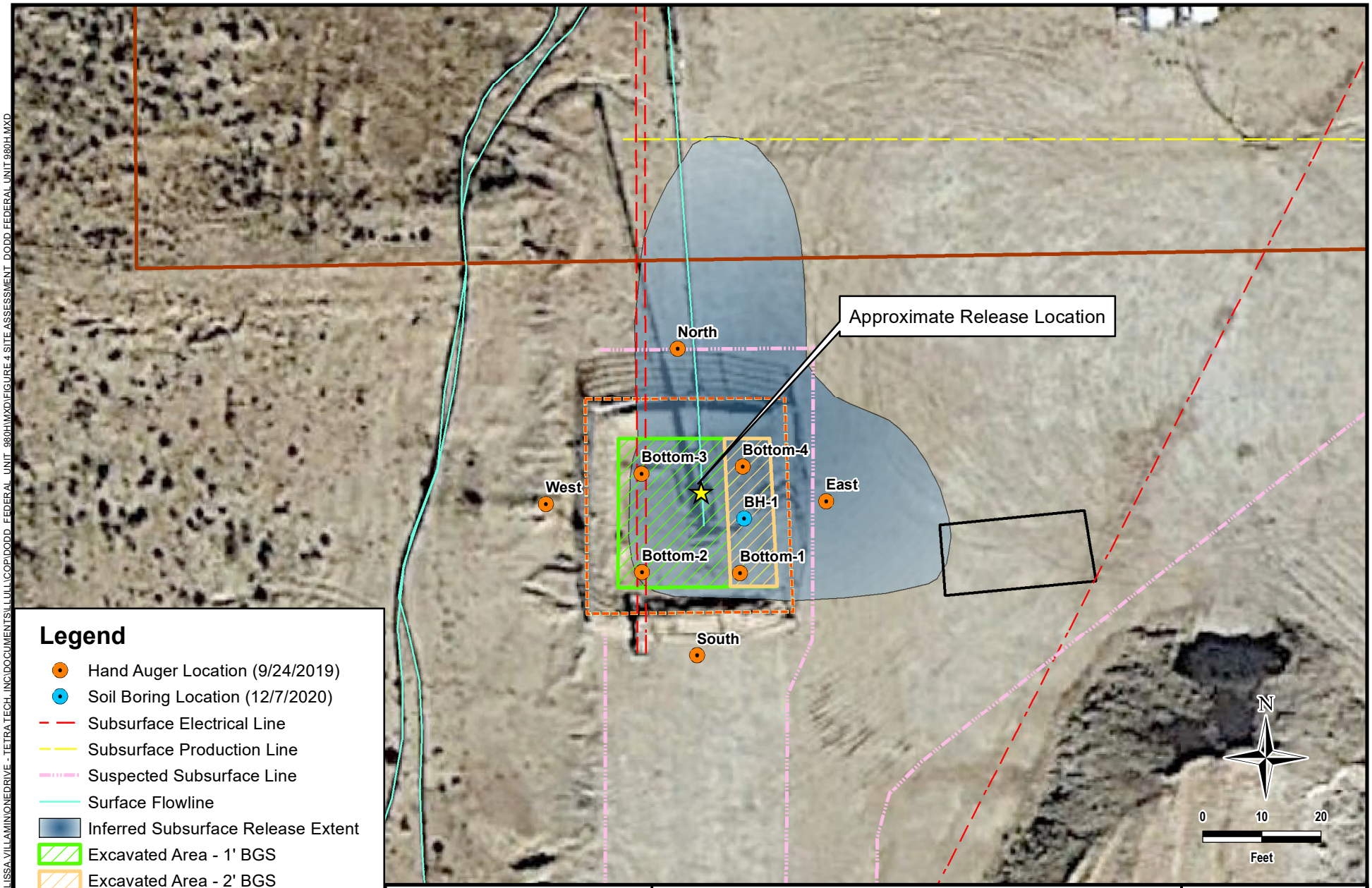
CONOCOPHILLIPS

NAB1909540096
(32.85542°, -104.06603°)
EDDY COUNTY, NEW MEXICO

DODD FEDERAL UNIT 980H
APPROXIMATE RELEASE EXTENT AND INITIAL RESPONSE

PROJECT NO.:	212C-AU-02757
DATE:	AUGUST 30, 2022
DESIGNED BY:	LMV

Figure No.
3



Legend

- Hand Auger Location (9/24/2019)
- Soil Boring Location (12/7/2020)
- Subsurface Electrical Line
- Subsurface Production Line
- Suspected Subsurface Line
- Surface Flowline
- Inferred Subsurface Release Extent
- Excavated Area - 1' BGS
- Excavated Area - 2' BGS
- Flare Stack
- Former Pumping Unit
- Former Reserve Pit Area

*BGS: Below Ground Surface
Image Source: Google Earth, 2019.

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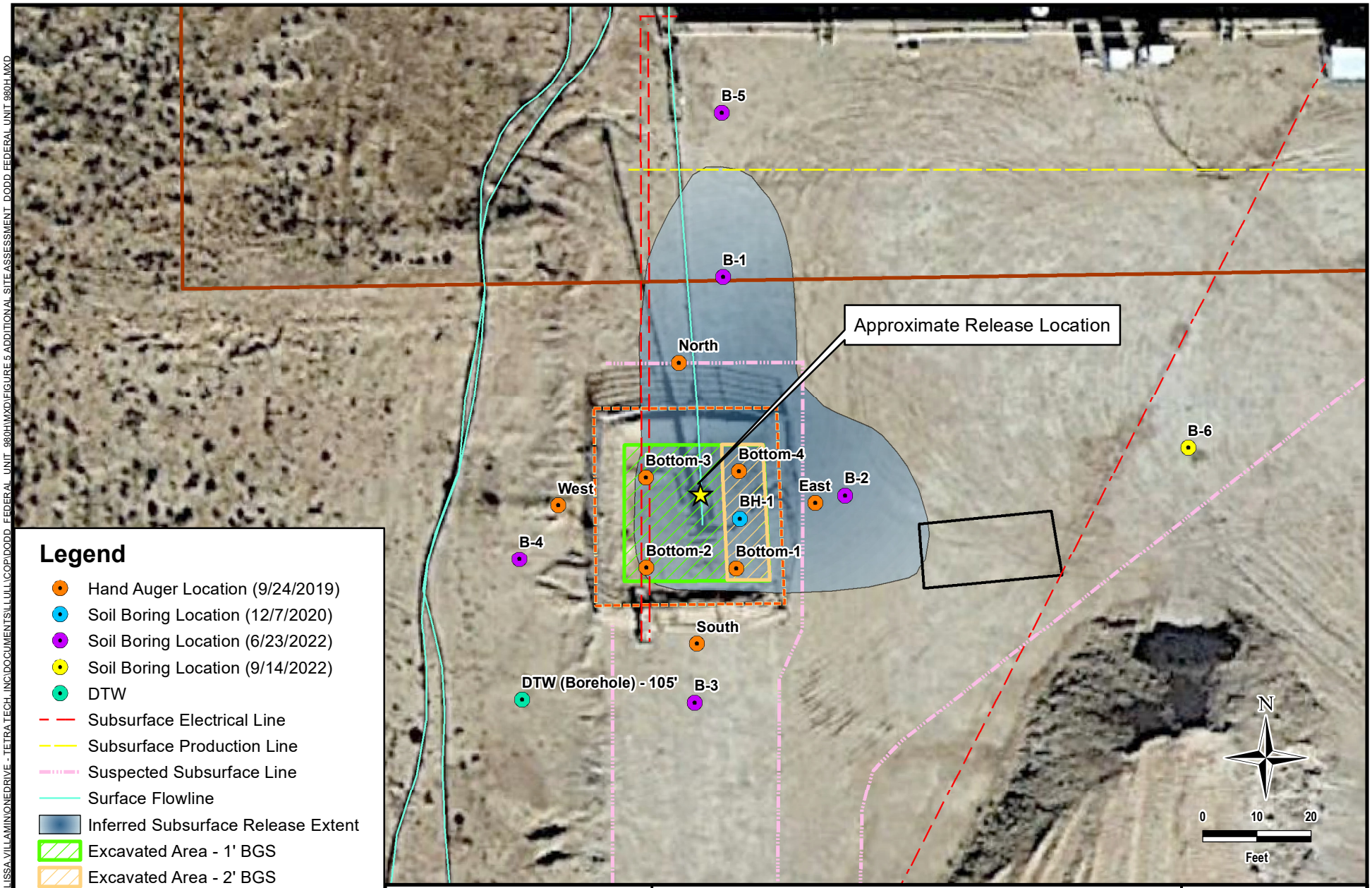
CONOCOPHILLIPS

NAB1909540096
(32.85542°, -104.06603°)
EDDY COUNTY, NEW MEXICO

DODD FEDERAL UNIT 980H
SITE ASSESSMENT

PROJECT NO.:	212C-AU-02757
DATE:	AUGUST 30, 2022
DESIGNED BY:	LMV

Figure No.
4



Legend

- Hand Auger Location (9/24/2019)
- Soil Boring Location (12/7/2020)
- Soil Boring Location (6/23/2022)
- Soil Boring Location (9/14/2022)
- DTW
- Subsurface Electrical Line
- Subsurface Production Line
- Suspected Subsurface Line
- Surface Flowline
- Inferred Subsurface Release Extent
- Excavated Area - 1' BGS
- Excavated Area - 2' BGS
- Flare Stack
- Former Pumping Unit
- Former Reserve Pit Area

*BGS: Below Ground Surface
Image Source: Google Earth, 2019.

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(32.85542°, -104.06603°)
EDDY COUNTY, NEW MEXICO

DODD FEDERAL UNIT 980H
ADDITIONAL SITE ASSESSMENT

PROJECT NO.:	212C-AU-02757
DATE:	SEPTEMBER 20, 2022
DESIGNED BY:	LMV

Figure No.
5

TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
INITIAL SOIL ASSESSMENT - NAB1909540096
COG OPERATING LLC
DODD FEDERAL UNIT #980H RELEASE
EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride[1]		BTEX[2]				TPH[3]							
					Benzene		Total BTEX		GRO		DRO		MRO		Total TPH	
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
BH-1	12/7/2020	1	***669***		NS		NS		NS		NS		NS		NS	
		3	539		NS		NS		NS		NS		NS		NS	
		5	***1,500***		NS		NS		NS		NS		NS		NS	
		7	***5,490***		NS		NS		NS		NS		NS		NS	
		10	***4,100***		NS		NS		NS		NS		NS		NS	
		15	***7,670***		NS		NS		NS		NS		NS		NS	
		20	***6,800***		NS		NS		NS		NS		NS		NS	
		25	***4,730***		NS		NS		NS		NS		NS		NS	
		30	***5,030***		NS		NS		NS		NS		NS		NS	
		35	***2,630***		NS		NS		NS		NS		NS		NS	
		40	***798***		NS		NS		NS		NS		NS		NS	
		45	41		NS		NS		NS		NS		NS		NS	
Bottom-1	9/24/2019	2	***1,650***		<0.05		<0.05		<10.0		<10.0		<10.0		<10.0	
Bottom-2	9/24/2019	1	496		<0.05		<0.05		<10.0		<10.0		<10.0		<10.0	
Bottom-3	9/24/2019	1	176		<0.05		<0.05		<10.0		<10.0		<10.0		<10.0	
Bottom-4	9/24/2019	2	***2,800***		<0.05		<0.05		<10.0		<10.0		<10.0		<10.0	
North	9/24/2019	0-1	480		<0.05		<0.05		<10.0		<10.0		<10.0		<10.0	
South	9/24/2019	0-1	320		<0.05		<0.05		<10.0		<10.0		<10.0		<10.0	
East	9/24/2019	0-1	240		<0.05		<0.05		<10.0		<10.0		<10.0		<10.0	
West	9/24/2019	0-1	192		<0.05		<0.05		<10.0		<10.0		<10.0		<10.0	

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

ORO Oil range organics

NS Sample not analyzed for parameter

1 EPA Method 300.0

2 EPA Method 8021B

3 Method SW8015 Mod

Bold and italicized values indicate exceedance of proposed Remediation RRALs and Reclamation Requirements.

QUALIFIERS:

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
ADDITIONAL SOIL ASSESSMENT - NAB1909540096
CONOCOPHILLIPS
DODD FEDERAL UNIT 980H RELEASE
EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride[1]		BTEX[2]												TPH[3,5]									
			Chloride	PID			Benzene		Toluene		Ethylbenzene		m,p-Xylenes		o-Xylene		Total Xylenes		Total BTEX		GRO C_6 - C_{10}		DRO > C_{10} - C_{28}		ORO > C_{28} - C_{36}		Total TPH[4]	
		ft. bgs	ppm		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q
B-1	6/23/2022	0-1	2,230	-	***2,950***		< 0.00200		< 0.00200		< 0.00200		< 0.00399		< 0.00200		< 0.00399		< 0.00399		< 49.9		< 49.9		< 49.9		< 49.9	
		2-3	2,600	-	***3,130***		< 0.00199		< 0.00199		< 0.00199		< 0.00398		< 0.00199		< 0.00398		< 0.00398		< 49.9		< 49.9		< 49.9		< 49.9	
		4-5	2,800	-	***2,970***		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		6-7	3,380	-	***5,370***		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		9-10	3,800	-	***5,970***		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		14-15	2,300	-	***4,950***		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		19-20	2,800	-	***4,400***		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		24-25	3,100	-	***5,310***		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		29-30	1,440	-	***2,880***		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		34-35	983	-	***889***	F1	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		39-40	1,100	-	***2,660***		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		44-45	390	-	151		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		49-50	505	-	202		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
B-2	6/23/2022	0-1	930	-	***887***		< 0.00200		< 0.00200		< 0.00200		< 0.00401		< 0.00200		< 0.00401		< 0.00401		< 50.0		< 50.0		< 50.0		< 50.0	
		2-3	820	-	***816***		< 0.00200		< 0.00200		< 0.00200		< 0.00401		< 0.00200		< 0.00401		< 0.00401		< 49.9		< 49.9		< 49.9		< 49.9	
		4-5	1,100	-	***894***		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		6-7	1,400	-	***1,160***		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		9-10	1,070	-	***1,990***		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		14-15	3,500	-	***3,340***		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		19-20	2,390	-	***4,180***	F1	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		24-25	1,100	-	***2,330***		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		29-30	1,140	-	***1,340***		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		34-35	550	-	564		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		39-40	431	-	***812***		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
B-3	6/23/2022	0-1	1,000	-	547		< 0.00201		< 0.00201		< 0.00201		< 0.00402		< 0.00201		< 0.00402		< 0.00402		< 50.0		< 50.0		< 50.0		< 50.0	
		2-3	904	-	549		< 0.00202		< 0.00202		< 0.00202		< 0.00403		< 0.00202		< 0.00403		< 0.00403		< 50.0		< 50.0		< 50.0		< 50.0	
		4-5	515	-	140		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		6-7	200	-	35.2		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		9-10	254	-	49.0		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		14-15	276	-	102		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		19-20	700	-	170		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		24-25	368	-	107		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		29-30	196	-	119		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
B-4	6/23/2022	0-1	401	-	490		< 0.00201		< 0.00201		< 0.00201		< 0.00402		< 0.00201		< 0.00402		< 0.00402		< 49.9		< 49.9		66.1		66.1	
		2-3	550	-	368		< 0.00200		< 0.00200		< 0.00200		< 0.00399		< 0.00200		< 0.00399		< 0.00399		< 49.9		< 49.9		< 49.9		< 49.9	
		4-5	521	-	214		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		6-7	352	-	130		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		9-10	304	-	126		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		14-15	274	-	159		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		19-20	374	-	104		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		24-25	251	-	52.3		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		29-30	174	-	14.8		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		34-35	133	-	9.43		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		39-40	214	-	45.9		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
ADDITIONAL SOIL ASSESSMENT - NAB1909540096
CONOCOPHILLIPS
DODD FEDERAL UNIT 980H RELEASE
EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride[1]		BTEX[2]												TPH[3,5]							
							Benzene		Toluene		Ethylbenzene		m,p-Xylenes		o-Xylene		Total Xylenes		Total BTEX		GRO		DRO		ORO		Total TPH[4]	
																					C_6 - C_{10}		> C_{10} - C_{28}		> C_{28} - C_{36}			
		ft. bgs	ppm		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q
B-5	6/23/2022	0-1	209	-	365		< 0.00200		< 0.00200		< 0.00200		< 0.00401		< 0.00200		< 0.00401		< 0.00401		< 50.0		< 50.0		< 50.0		< 50.0	
		2-3	323	-	143		< 0.00201		< 0.00201		< 0.00201		< 0.00402		< 0.00201		< 0.00402		< 0.00402		< 50.0		< 50.0		< 50.0		< 50.0	
		4-5	-	-	154		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		6-7	297	-	95.2		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		9-10	501	-	341		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		14-15	1,500	-	186		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		19-20	2,300	-	***3,090***		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		24-25	2,800	-	***5,160***		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		29-30	2,200	-	***3,550***		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		34-35	1,820	-	***2,450***		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		39-40	1,100	-	***1,790***		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		44-45	709	-	***1,300***		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		49-50	321	-	209		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
B-6	9/14/2022	0-1	-	-	144		< 0.050		< 0.050		< 0.050		NA		NA		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		NA	
		2-3	-	-	160		< 0.050		< 0.050		< 0.050		NA		NA		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		NA	
		4-5	-	-	128		< 0.050		< 0.050		< 0.050		NA		NA		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		NA	
		6-7	-	-	144		< 0.050		< 0.050		< 0.050		NA		NA		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		NA	
		9-10	-	-	112		< 0.050		< 0.050		< 0.050		NA		NA		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		NA	

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

ORO Oil range organics

NA Sample not analyzed for parameter

1 Method 300.0

2 Method 8021B

3 Method 8015B NM

4 Method 8015 NM

5 Method 8015M

\- Not collected

Bold and italicized values indicate exceedance of proposed Remediation RRALs.

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

F1 MS and/or MSD recovery exceeds control limits.

APPENDIX A
C-141 Forms

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	NAB1909540096
District RP	2RP-5334
Facility ID	
Application ID	pAB1909539885

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137
Contact Name	Jennifer Knowlton	Contact Telephone	(575) 748-1570
Contact email	JKnowlton@concho.com	Incident # *(assigned by OCD)*	NAB1909540096
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.85542 Longitude -104.06603

(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Dodd Federal Unit #980H	Site Type	Tank Battery
Date Release Discovered	March 23, 2019	API# *(if applicable)*	30-015-44807

Unit Letter	Section	Township	Range	County
C	10	17S	29E	Eddy

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

Nature and Volume of Release

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

■ Crude Oil	Volume Released (bbls) 1	Volume Recovered (bbls) .5
■ Produced Water	Volume Released (bbls) 5	Volume Recovered (bbls) 3
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	■ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was caused by the dump on the FWKO loosing pressure, filling the vessel and sending fluid up the flare. The dump is being repaired. The release was on location. A vacuum truck was dispatched to remove all freestanding fluids. Concho will evaluate the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAB1909540096
District RP	2RP-5334
Facility ID	
Application ID	pAB1909539885

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

Initial Response

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

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

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

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

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

Printed Name: DeAnn Grant Title: HSE Administrative Assistant

Signature: DeAnn Grant Date: 3/26/2019

email: agrant@concho.com Telephone: (432) 253-4513

OCD Only

Received by: Amelia Barrientes Date: 4/5/2019

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 10/27/2022

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

☐ Extents of contamination must be fully delineated.

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

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 10/27/2022

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

Signature: Jennifer Nobui Date: _____

APPENDIX B
Site Characterization Data

OCD Waterbodies Map

9/20/2022, 10:34:14 AM

OSE Streams

1:9,028

0 0.07 0.15 0.3 mi

0 0.15 0.3 0.6 km

Esri, HERE, Garmin, GeoTechnologies, Inc., Maxar, NM OSE

New Mexico Oil Conservation Division

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

OCD Karst Potential Map

9/20/2022, 10:35:24 AM

Karst Occurrence Potential

- High
- Medium
- Low

1:144,448

0 1.5 3 6 mi

0 2.25 4.5 9 km

BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, Earthstar Geographics

New Mexico Oil Conservation Division

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

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

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

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

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

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
RA 11807 POD1	RA	ED	1	2	3	22	17S	29E	587360	3631585	4059	131	76	55

Average Depth to Water: **76 feet**

Minimum Depth: **76 feet**

Maximum Depth: **76 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 587391.21 **Northing (Y):** 3635645.42 **Radius:** 4500

212C-MD-02757 | TETRA TECH | **LOG OF BORING DTW** | Page 1 of 1

Project Name: Dodd Federal Unit 980H

Borehole Location: GPS Coordinates: 32.855426°, -104.066133° | Surface Elevation: 3594 ft

Borehole Number: DTW | Borehole Diameter (in.): 4 | Date Started: 6/22/2022 | Date Finished: 6/22/2022

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
0												**-CL-** SANDY CLAY: Red, stiff, dry		
5														
10												-- --Intermittent Poorly Graded Sand lenses throughout--		
15														
20												-- --Increasing Clay fraction with depth--		
25														
30														
35												-- --With Silty Clay lenses--		
40														
45														
50														
55													53	
												-SC- CLAYEY SAND: Red, dense, with gravel, dry	55	
60												**-CL-** SANDY CLAY: Red, very stiff, dry		
65													65	
70												**-SM-** SAND: Brown, loose, dry		
75													75	
80												**-CL-** SANDY CLAY: Brown, very stiff, dry	80	
85												**-CL-** SANDY CLAY: Red, very stiff, dry	82	
												-SM- SAND: Red, loose, dry	83	
90												**-GP-** GRAVEL: Variegated, dense, fine to coarse grained, dry	87	
95												**-SC-** CLAYEY SAND: Red, medium dense, dry, with intermittent gravel	90	
100												**-SM-** SAND: Brown, very dense, with gravel, dry	97	
105												**-GP-** GRAVEL: Variegated, dense, fine to coarse grained, dry	100	
												-SM- SAND: Brown, very dense, with gravel, dry	105	
												Bottom of borehole at 105.0 feet.		

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, Discrete Sample, Grab Sample, Test Pit

Operation Types: Mud Rotary, Hand Auger, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes: Surface elevation is an estimated value from Google Earth data.

Logger: Joe Tyler | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling - Dallas R.

APPENDIX C
Regulatory Correspondence

Venegas, Victoria, EMNRD

From: Venegas, Victoria, EMNRD
Sent: Thursday, July 9, 2020 9:49 AM
To: Ike Tavarez; Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD; Eads, Cristina, EMNRD
Cc: CFO_Spill, BLM_NM; 'Brittany Esparza'
Subject: NAB1909540096 DODD FEDERAL UNIT #980H @ 30-015-44807 2RP-5334
Attachments: (C-141 Remediation Plan) NAB1909540096 DODD FEDERAL UNIT #980H @ 30-015-44807 2RP-5334.pdf

NAB1909540096 DODD FEDERAL UNIT #980H @ 30-015-44807 2RP-5334

Mr. Tavarez,
The OCD has approved the Remediation Plan for incident # NAB1909540096 DODD FEDERAL UNIT #980H @ 30-015-44807 2RP-5334 with the following conditions of approval:

- The release occurred in a High Karst area, which is considered an unstable area and is subject to the most stringent cleanup levels in Table 1. All five-point confirmation samples -bottom samples and sidewall samples- must meet the closure criteria for this site. *i.e.*, 600 mg/kg for Chloride, 100 mg/kg TPH, BTEX 50 mg/kg and Benzene 10 mg/kg.

- The variance request to install a liner is DENIED. A New Guidance document is being implemented for Considerations for Liner Installation as Part of Spill Remediation Plan under Part 29 Releases. The variance request must include a detailed statement explaining the need for a variance and a detailed written demonstration that the variance will provide equal or better protection of fresh water, public health and the environment. Specific to a variance request to install a liner as part of a release remediation, the OCD requires the following information, documentation, and remedial efforts to be included in the variance request. If hydrocarbons are present, no liner installation as part of spill remediation will be approved. Liner installations as a method of remediation will only be considered for in situ chloride contamination. Variance requests are considered and analyzed on a case-by-case basis and on the merit of the request.

    a) Information of all watercourses and water sources, ditches, playas, springs, etc. within 500 ft of any horizontal distance of the spill
    b) Identify and map all water wells within ½ mile of the horizontal distance of the spill
    c) Depth of bottom of spill in relation to groundwater (at least 10 ft separation between vertical extent of spill and groundwater surface)
    d) Full delineation of chlorides at or to Table 1 requirements
    e) All hydrocarbons are below Table 1 requirements
    f) Excavation must be to a minimum of 8 ft prior to approval of the liner due to possible future activities in the area (i.e. pipeline installation or other activities)
    g) If the Operator cannot excavate, they must provide engineering documentation for why they cannot excavate
    h) Identify karst potential of spill-area
    i) Surface topography needs to shed water
    j) Proposed liner construction, liner should be domed and overlaps area of spill so precipitation drains away to outskirts (DOMED away from spill)

The signed C-141 can be found in the online image data base under the incident #.
Thank you,

Victoria Venegas
State of New Mexico
Energy, Minerals, and Natural Resources
Oil Conservation Division
811 S. First St., Artesia NM 88210
(575) 748-1283
Victoria.Venegas@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OCD Permitting

[C-141] Release Corrective Action (C-141) Application

Submission Information

Submission ID:	13144	**Districts:**	Artesia
Operator:	[229137] COG OPERATING LLC	**Counties:**	Eddy
Description:	COG OPERATING LLC [229137] DODD FEDERAL UNIT #980H nAB1909540096 {Discovery: 03/23/2019, Active, , Federal}		
Status:	REJECTED		
Status Date:	03/11/2021		
References (2):	30-015-44807, nAB1909540096		

Forms

Attachments: C-141

Questions

This submission type does not have questions, at this time.

Acknowledgments

This submission type does not have acknowledgments, at this time.

Comments

No comments found for this submission.

Conditions

No conditions found for this submission.

Reasons

Summary: *chensley (3/11/2021),* The OCD has received your deferment request for incident NAB1909540096. The request has been denied for the following reasons:

chensley (3/11/2021), A)The OCD request to know who the responsible party is for DODD FEDERAL UNIT #980H.

chensley (3/11/2021), B) The OCD does not feel that the flare on DODD FEDERAL UNIT #980H meets 19.15.29.12(c)(2) and would cause a major facility deconstruction.

1220 South St. Francis Drive | Santa Fe, NM 87505 | P: (505) 476-3200 | F: (505) 476-3220

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

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 26039
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	6/24/2021

APPENDIX D
Laboratory Analytical Data

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-16295-1
Laboratory Sample Delivery Group: Eddy County New Mexico
Client Project/Site: Dodd Federal Unit 980H Release

For:
Tetra Tech, Inc.
8911 N. Capital of Texas Hwy
Bldg. 2, Ste 2310
Austin, Texas 78759

Attn: Christian Llull

JKramer

Authorized for release by:
7/6/2022 12:15:27 PM

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

Table of Contents

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

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, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

Job ID: 880-16295-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-16295-1

Receipt
The samples were received on 6/24/2022 3:27 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 5.4°C

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-28419/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-28392 and 880-28392 and analytical batch 880-28759 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

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

Lab Sample ID: 880-16295-1
Date Collected: 06/23/22 14:30
Matrix: Solid
Date Received: 06/24/22 15:27

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		06/28/22 08:42	06/28/22 19:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/28/22 08:42	06/28/22 19:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/28/22 08:42	06/28/22 19:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/28/22 08:42	06/28/22 19:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/28/22 08:42	06/28/22 19:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/28/22 08:42	06/28/22 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*06/28/22 08:42*	*06/28/22 19:37*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/28/22 08:42*	*06/28/22 19:37*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/29/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/28/22 10:27	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	<49.9	U	49.9		mg/Kg		06/27/22 08:29	06/27/22 12:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/27/22 08:29	06/27/22 12:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/27/22 08:29	06/27/22 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*06/27/22 08:29*	*06/27/22 12:41*	*1*
o-Terphenyl	*111*		*70 - 130*	*06/27/22 08:29*	*06/27/22 12:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2950**		24.8		mg/Kg			07/01/22 16:26	5

Client Sample ID: B-1 (2'-3')

Lab Sample ID: 880-16295-2
Date Collected: 06/23/22 14:40
Matrix: Solid
Date Received: 06/24/22 15:27

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		06/28/22 08:42	06/28/22 19:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/28/22 08:42	06/28/22 19:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/28/22 08:42	06/28/22 19:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/28/22 08:42	06/28/22 19:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/28/22 08:42	06/28/22 19:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/28/22 08:42	06/28/22 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*06/28/22 08:42*	*06/28/22 19:57*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/28/22 08:42*	*06/28/22 19:57*	*1*

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

Client Sample ID: B-1 (2'-3') Lab Sample ID: 880-16295-2

Date Collected: 06/23/22 14:40 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/29/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/28/22 10:27	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	<49.9	U	49.9		mg/Kg		06/27/22 08:29	06/27/22 13:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/27/22 08:29	06/27/22 13:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/27/22 08:29	06/27/22 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*06/27/22 08:29*	*06/27/22 13:46*	*1*
o-Terphenyl	*86*		*70 - 130*	*06/27/22 08:29*	*06/27/22 13:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3130		50.5		mg/Kg			07/01/22 16:34	10

Client Sample ID: B-1 (4'-5') Lab Sample ID: 880-16295-3

Date Collected: 06/23/22 14:50 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2970		25.2		mg/Kg			07/01/22 17:05	5

Client Sample ID: B-1 (6'-7') Lab Sample ID: 880-16295-4

Date Collected: 06/23/22 15:00 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5370		49.8		mg/Kg			07/01/22 17:13	10

Client Sample ID: B-1 ('-10') Lab Sample ID: 880-16295-5

Date Collected: 06/23/22 15:10 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5970		49.6		mg/Kg			07/01/22 17:21	10

Client Sample ID: B-1 (14'-15') Lab Sample ID: 880-16295-6

Date Collected: 06/23/22 15:20 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4950		49.5		mg/Kg			07/01/22 17:29	10

Client Sample Results

Client: Tetra Tech, Inc.
Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release
SDG: Eddy County New Mexico

Client Sample ID: B-1 (19'-20')
Lab Sample ID: 880-16295-7
Date Collected: 06/23/22 15:30
Matrix: Solid
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4400		24.8		mg/Kg			07/01/22 17:37	5

Client Sample ID: B-1 (24'-25')
Lab Sample ID: 880-16295-8
Date Collected: 06/23/22 15:40
Matrix: Solid
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5310		50.4		mg/Kg			07/01/22 17:44	10

Client Sample ID: B-1 (29'-30')
Lab Sample ID: 880-16295-9
Date Collected: 06/23/22 15:50
Matrix: Solid
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2880		24.9		mg/Kg			07/01/22 18:08	5

Client Sample ID: B-1 (34'-35')
Lab Sample ID: 880-16295-10
Date Collected: 06/23/22 16:00
Matrix: Solid
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	889	F1	5.00		mg/Kg			07/01/22 17:58	1

Client Sample ID: B-1 (39'-40')
Lab Sample ID: 880-16295-11
Date Collected: 06/23/22 16:10
Matrix: Solid
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2660		24.8		mg/Kg			07/01/22 18:26	5

Client Sample ID: B-1 (44'-45')
Lab Sample ID: 880-16295-12
Date Collected: 06/23/22 16:20
Matrix: Solid
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	151		4.99		mg/Kg			07/01/22 18:35	1

Client Sample ID: B-1 (49'-50')
Lab Sample ID: 880-16295-13
Date Collected: 06/23/22 16:30
Matrix: Solid
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	202		5.00		mg/Kg			07/01/22 18:45	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

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

Lab Sample ID: 880-16295-14
Matrix: Solid
Date Collected: 06/23/22 12:00
Date Received: 06/24/22 15:27

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		06/28/22 08:42	06/28/22 20:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/28/22 08:42	06/28/22 20:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/28/22 08:42	06/28/22 20:18	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/28/22 08:42	06/28/22 20:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/28/22 08:42	06/28/22 20:18	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/28/22 08:42	06/28/22 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*06/28/22 08:42*	*06/28/22 20:18*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/28/22 08:42*	*06/28/22 20:18*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/29/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/28/22 10:27	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		06/27/22 08:29	06/27/22 14:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/27/22 08:29	06/27/22 14:23	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/27/22 08:29	06/27/22 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*06/27/22 08:29*	*06/27/22 14:23*	*1*
o-Terphenyl	*105*		*70 - 130*	*06/27/22 08:29*	*06/27/22 14:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**887**		24.9		mg/Kg			07/01/22 18:54	5

Client Sample ID: B-2 (2'-3')

Lab Sample ID: 880-16295-15
Matrix: Solid
Date Collected: 06/23/22 12:10
Date Received: 06/24/22 15:27

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		06/28/22 08:42	06/28/22 20:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/28/22 08:42	06/28/22 20:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/28/22 08:42	06/28/22 20:38	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/28/22 08:42	06/28/22 20:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/28/22 08:42	06/28/22 20:38	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/28/22 08:42	06/28/22 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/28/22 08:42*	*06/28/22 20:38*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*06/28/22 08:42*	*06/28/22 20:38*	*1*

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

Client Sample ID: B-2 (2'-3') Lab Sample ID: 880-16295-15

Date Collected: 06/23/22 12:10 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/29/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/28/22 10:27	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	<49.9	U	49.9		mg/Kg		06/27/22 08:29	06/27/22 14:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/27/22 08:29	06/27/22 14:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/27/22 08:29	06/27/22 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*06/27/22 08:29*	*06/27/22 14:49*	*1*
o-Terphenyl	*90*		*70 - 130*	*06/27/22 08:29*	*06/27/22 14:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	816		4.95		mg/Kg			07/01/22 19:21	1

Client Sample ID: B-2 (4'-5') Lab Sample ID: 880-16295-16

Date Collected: 06/23/22 12:20 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	894		4.95		mg/Kg			07/01/22 19:31	1

Client Sample ID: B-2 (6'-7') Lab Sample ID: 880-16295-17

Date Collected: 06/23/22 12:30 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1160		25.1		mg/Kg			07/01/22 19:40	5

Client Sample ID: B-2 (9'-10') Lab Sample ID: 880-16295-18

Date Collected: 06/23/22 12:40 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1990		25.0		mg/Kg			07/01/22 19:50	5

Client Sample ID: B-2 (14'-15') Lab Sample ID: 880-16295-19

Date Collected: 06/23/22 13:00 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3340		24.9		mg/Kg			07/01/22 19:59	5

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

Client Sample ID: B-2 (19'-20') Lab Sample ID: 880-16295-20

Date Collected: 06/23/22 13:10 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4180	F1	49.6		mg/Kg			07/01/22 20:08	10

Client Sample ID: B-2 (24'-25') Lab Sample ID: 880-16295-21

Date Collected: 06/23/22 13:20 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2330		25.2		mg/Kg			07/01/22 20:36	5

Client Sample ID: B-2 (29'-30') Lab Sample ID: 880-16295-22

Date Collected: 06/23/22 13:30 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1340		24.9		mg/Kg			07/01/22 20:45	5

Client Sample ID: B-2 (34'-35') Lab Sample ID: 880-16295-23

Date Collected: 06/23/22 13:50 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	564		5.05		mg/Kg			07/01/22 21:12	1

Client Sample ID: B-2 (39'-40') Lab Sample ID: 880-16295-24

Date Collected: 06/23/22 14:00 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	812		5.00		mg/Kg			07/01/22 21:22	1

Client Sample ID: B-3 (0'-1') Lab Sample ID: 880-16295-25

Date Collected: 06/23/22 10:00 **Matrix: Solid**
Date Received: 06/24/22 15:27

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		06/27/22 15:21	06/28/22 16:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/27/22 15:21	06/28/22 16:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/27/22 15:21	06/28/22 16:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/27/22 15:21	06/28/22 16:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/27/22 15:21	06/28/22 16:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/27/22 15:21	06/28/22 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*06/27/22 15:21*	*06/28/22 16:50*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/27/22 15:21*	*06/28/22 16:50*	*1*

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

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

Lab Sample ID: 880-16295-25
Date Collected: 06/23/22 10:00
Matrix: Solid
Date Received: 06/24/22 15:27

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/29/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/28/22 10:27	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		06/27/22 08:29	06/27/22 15:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/27/22 08:29	06/27/22 15:10	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/27/22 08:29	06/27/22 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*06/27/22 08:29*	*06/27/22 15:10*	*1*
o-Terphenyl	*84*		*70 - 130*	*06/27/22 08:29*	*06/27/22 15:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**547**		25.0		mg/Kg			07/01/22 21:31	5

Client Sample ID: B-3 (2'-3')

Lab Sample ID: 880-16295-26
Date Collected: 06/23/22 10:10
Matrix: Solid
Date Received: 06/24/22 15:27

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		06/27/22 15:21	06/28/22 17:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/27/22 15:21	06/28/22 17:10	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/27/22 15:21	06/28/22 17:10	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/27/22 15:21	06/28/22 17:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/27/22 15:21	06/28/22 17:10	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/27/22 15:21	06/28/22 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*06/27/22 15:21*	*06/28/22 17:10*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/27/22 15:21*	*06/28/22 17:10*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/29/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/28/22 10:27	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		06/27/22 08:29	06/27/22 15:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/27/22 08:29	06/27/22 15:32	1

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Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

Client Sample ID: B-3 (2'-3') Lab Sample ID: 880-16295-26

Date Collected: 06/23/22 10:10 Matrix: Solid
Date Received: 06/24/22 15:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/27/22 08:29	06/27/22 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*06/27/22 08:29*	*06/27/22 15:32*	*1*
o-Terphenyl	*85*		*70 - 130*	*06/27/22 08:29*	*06/27/22 15:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	549		4.98		mg/Kg			07/01/22 21:40	1

Client Sample ID: B-3 (4'-5') Lab Sample ID: 880-16295-27

Date Collected: 06/23/22 10:20 Matrix: Solid
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		4.95		mg/Kg			07/01/22 21:49	1

Client Sample ID: B-3 (6'-7') Lab Sample ID: 880-16295-28

Date Collected: 06/23/22 10:30 Matrix: Solid
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.2		4.98		mg/Kg			07/01/22 21:58	1

Client Sample ID: B-3 (9'-10') Lab Sample ID: 880-16295-29

Date Collected: 06/23/22 10:40 Matrix: Solid
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.0		4.97		mg/Kg			07/01/22 22:08	1

Client Sample ID: B-3 (14'-15') Lab Sample ID: 880-16295-30

Date Collected: 06/23/22 10:50 Matrix: Solid
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		4.96		mg/Kg			07/03/22 00:28	1

Client Sample ID: B-3 (19'-20') Lab Sample ID: 880-16295-31

Date Collected: 06/23/22 11:00 Matrix: Solid
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	170		25.0		mg/Kg			07/03/22 00:51	5

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

Client Sample ID: B-3 (24'-25') Lab Sample ID: 880-16295-32

Date Collected: 06/23/22 11:10 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**107**		4.99		mg/Kg			07/03/22 00:59	1

Client Sample ID: B-3 (29'-30') Lab Sample ID: 880-16295-33

Date Collected: 06/23/22 11:20 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**119**		5.01		mg/Kg			07/03/22 01:07	1

Client Sample ID: B-4 (0'-1') Lab Sample ID: 880-16295-34

Date Collected: 06/23/22 14:00 **Matrix: Solid**
Date Received: 06/24/22 15:27

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		06/27/22 15:21	06/28/22 17:31	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/27/22 15:21	06/28/22 17:31	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/27/22 15:21	06/28/22 17:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/27/22 15:21	06/28/22 17:31	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/27/22 15:21	06/28/22 17:31	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/27/22 15:21	06/28/22 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/27/22 15:21*	*06/28/22 17:31*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/27/22 15:21*	*06/28/22 17:31*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/29/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**66.1**		49.9		mg/Kg			06/28/22 10:27	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	<49.9	U	49.9		mg/Kg		06/27/22 08:29	06/27/22 15:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/27/22 08:29	06/27/22 15:55	1
Oil Range Organics (Over C28-C36)	**66.1**		49.9		mg/Kg		06/27/22 08:29	06/27/22 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*06/27/22 08:29*	*06/27/22 15:55*	*1*
o-Terphenyl	*90*		*70 - 130*	*06/27/22 08:29*	*06/27/22 15:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**490**		4.99		mg/Kg			07/03/22 01:16	1

Client Sample Results

Client: Tetra Tech, Inc.
Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release
SDG: Eddy County New Mexico

Client Sample ID: B-4 (2'-3')
Lab Sample ID: 880-16295-35
Date Collected: 06/23/22 14:10
Matrix: Solid
Date Received: 06/24/22 15:27

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		06/27/22 15:21	06/28/22 17:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:21	06/28/22 17:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:21	06/28/22 17:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/27/22 15:21	06/28/22 17:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:21	06/28/22 17:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/27/22 15:21	06/28/22 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/27/22 15:21*	*06/28/22 17:51*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/27/22 15:21*	*06/28/22 17:51*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/29/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/28/22 10:27	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	<49.9	U	49.9		mg/Kg		06/27/22 08:29	06/27/22 16:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/27/22 08:29	06/27/22 16:16	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/27/22 08:29	06/27/22 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*06/27/22 08:29*	*06/27/22 16:16*	*1*
o-Terphenyl	*100*		*70 - 130*	*06/27/22 08:29*	*06/27/22 16:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**368**		4.97		mg/Kg			07/03/22 01:39	1

Client Sample ID: B-4 (4'-5')
Lab Sample ID: 880-16295-36
Date Collected: 06/23/22 14:20
Matrix: Solid
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**214**		4.96		mg/Kg			07/03/22 01:47	1

Client Sample ID: B-4 (6'-7')
Lab Sample ID: 880-16295-37
Date Collected: 06/23/22 14:30
Matrix: Solid
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**		5.04		mg/Kg			07/03/22 01:55	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

Client Sample ID: B-4 (9'-10') Lab Sample ID: 880-16295-38

Date Collected: 06/23/22 14:40 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	126		4.99		mg/Kg			07/03/22 02:03	1

Client Sample ID: B-4 (14'-15') Lab Sample ID: 880-16295-39

Date Collected: 06/23/22 14:50 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	159		5.05		mg/Kg			07/03/22 02:11	1

Client Sample ID: B-4 (19'-20') Lab Sample ID: 880-16295-40

Date Collected: 06/23/22 15:00 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		5.00		mg/Kg			07/03/22 02:18	1

Client Sample ID: B-4 (24'-25') Lab Sample ID: 880-16295-41

Date Collected: 06/23/22 15:10 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.3		4.95		mg/Kg			07/03/22 02:42	1

Client Sample ID: B-4 (29'-30') Lab Sample ID: 880-16295-42

Date Collected: 06/23/22 15:20 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.8		4.95		mg/Kg			07/03/22 02:50	1

Client Sample ID: B-4 (34'-35') Lab Sample ID: 880-16295-43

Date Collected: 06/23/22 15:50 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.43		5.03		mg/Kg			07/03/22 03:13	1

Client Sample ID: B-4 (39'-40') Lab Sample ID: 880-16295-44

Date Collected: 06/23/22 16:00 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.9		4.95		mg/Kg			07/03/22 03:21	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

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

Lab Sample ID: 880-16295-45
Matrix: Solid
Date Collected: 06/23/22 17:00
Date Received: 06/24/22 15:27

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		06/27/22 15:21	06/28/22 18:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:21	06/28/22 18:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:21	06/28/22 18:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/27/22 15:21	06/28/22 18:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:21	06/28/22 18:12	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/27/22 15:21	06/28/22 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*06/27/22 15:21*	*06/28/22 18:12*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/27/22 15:21*	*06/28/22 18:12*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/29/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/28/22 10:27	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		06/27/22 08:29	06/27/22 16:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/27/22 08:29	06/27/22 16:38	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/27/22 08:29	06/27/22 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*06/27/22 08:29*	*06/27/22 16:38*	*1*
o-Terphenyl	*87*		*70 - 130*	*06/27/22 08:29*	*06/27/22 16:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**365**		5.01		mg/Kg			07/03/22 03:29	1

Client Sample ID: B-5 (2'-3')

Lab Sample ID: 880-16295-46
Matrix: Solid
Date Collected: 06/23/22 17:10
Date Received: 06/24/22 15:27

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		06/27/22 15:21	06/28/22 18:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/27/22 15:21	06/28/22 18:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/27/22 15:21	06/28/22 18:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/27/22 15:21	06/28/22 18:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/27/22 15:21	06/28/22 18:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/27/22 15:21	06/28/22 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/27/22 15:21*	*06/28/22 18:32*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/27/22 15:21*	*06/28/22 18:32*	*1*

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

Client Sample ID: B-5 (2'-3') Lab Sample ID: 880-16295-46

Date Collected: 06/23/22 17:10 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/29/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/28/22 10:27	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		06/27/22 08:29	06/27/22 16:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/27/22 08:29	06/27/22 16:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/27/22 08:29	06/27/22 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*06/27/22 08:29*	*06/27/22 16:59*	*1*
o-Terphenyl	*89*		*70 - 130*	*06/27/22 08:29*	*06/27/22 16:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	143		4.98		mg/Kg			07/03/22 03:37	1

Client Sample ID: B-5 (4'-5') Lab Sample ID: 880-16295-47

Date Collected: 06/23/22 17:20 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	154		25.0		mg/Kg			07/03/22 03:45	5

Client Sample ID: B-5 (6'-7') Lab Sample ID: 880-16295-48

Date Collected: 06/23/22 17:30 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.2		4.97		mg/Kg			07/03/22 03:53	1

Client Sample ID: B-5 (9'-10') Lab Sample ID: 880-16295-49

Date Collected: 06/23/22 17:40 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	341		4.95		mg/Kg			07/03/22 04:01	1

Client Sample ID: B-5 (14'-15') Lab Sample ID: 880-16295-50

Date Collected: 06/23/22 17:50 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	186		4.99		mg/Kg			07/02/22 14:23	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

Client Sample ID: B-5 (19'-20') Lab Sample ID: 880-16295-51
Date Collected: 06/23/22 18:00 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3090		24.8		mg/Kg			07/02/22 04:31	5

Client Sample ID: B-5 (24'-25') Lab Sample ID: 880-16295-52
Date Collected: 06/23/22 18:10 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5160		25.3		mg/Kg			07/02/22 04:38	5

Client Sample ID: B-5 (29'-30') Lab Sample ID: 880-16295-53
Date Collected: 06/23/22 18:20 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3550		24.9		mg/Kg			07/02/22 04:46	5

Client Sample ID: B-5 (34'-35') Lab Sample ID: 880-16295-54
Date Collected: 06/23/22 18:30 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2450		25.2		mg/Kg			07/02/22 04:54	5

Client Sample ID: B-5 (39'-40') Lab Sample ID: 880-16295-55
Date Collected: 06/23/22 18:40 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1790		25.0		mg/Kg			07/02/22 05:18	5

Client Sample ID: B-5 (44'-45') Lab Sample ID: 880-16295-56
Date Collected: 06/23/22 18:50 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1300		4.97		mg/Kg			07/02/22 05:26	1

Client Sample ID: B-5 (49'-50') Lab Sample ID: 880-16295-57
Date Collected: 06/23/22 19:00 **Matrix: Solid**
Date Received: 06/24/22 15:27

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	209		4.95		mg/Kg			07/02/22 05:33	1

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

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)
880-16295-1	B-1 (0'-1')	113	95
880-16295-2	B-1 (2'-3')	92	90
880-16295-14	B-2 (0'-1')	112	96
880-16295-15	B-2 (2'-3')	100	89
880-16295-25	B-3 (0'-1')	107	101
880-16295-26	B-3 (2'-3')	103	99
880-16295-34	B-4 (0'-1')	105	99
880-16295-35	B-4 (2'-3')	102	99
880-16295-45	B-5 (0'-1')	108	102
880-16295-46	B-5 (2'-3')	100	99
890-2464-A-11-I MS	Matrix Spike	110	103
890-2464-A-11-J MSD	Matrix Spike Duplicate	110	93
890-2464-A-41-F MS	Matrix Spike	102	96
890-2464-A-41-F MSD	Matrix Spike Duplicate	97	99
LCS 880-28487/1-A	Lab Control Sample	93	96
LCS 880-28503/1-A	Lab Control Sample	107	100
LCSD 880-28487/2-A	Lab Control Sample Dup	101	101
LCSD 880-28503/2-A	Lab Control Sample Dup	106	99
MB 880-28487/5-A	Method Blank	100	98
MB 880-28503/5-A	Method Blank	99	89

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)
880-16295-1	B-1 (0'-1')	109	111
880-16295-1 MS	B-1 (0'-1')	84	80
880-16295-1 MSD	B-1 (0'-1')	90	84
880-16295-2	B-1 (2'-3')	83	86
880-16295-14	B-2 (0'-1')	106	105
880-16295-15	B-2 (2'-3')	87	90
880-16295-25	B-3 (0'-1')	82	84
880-16295-26	B-3 (2'-3')	83	85
880-16295-34	B-4 (0'-1')	96	90
880-16295-35	B-4 (2'-3')	98	100
880-16295-45	B-5 (0'-1')	85	87
880-16295-46	B-5 (2'-3')	86	89
LCS 880-28419/2-A	Lab Control Sample	95	98
LCSD 880-28419/3-A	Lab Control Sample Dup	89	91
MB 880-28419/1-A	Method Blank	129	140 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Dodd Federal Unit 980H Release

Job ID: 880-16295-1
SDG: Eddy County New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-28487/5-A
Matrix: Solid
Analysis Batch: 28499

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28487

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:21	06/28/22 11:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:21	06/28/22 11:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:21	06/28/22 11:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/27/22 15:21	06/28/22 11:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:21	06/28/22 11:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/27/22 15:21	06/28/22 11:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/27/22 15:21*	*06/28/22 11:26*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/27/22 15:21*	*06/28/22 11:26*	*1*

Lab Sample ID: LCS 880-28487/1-A
Matrix: Solid
Analysis Batch: 28499

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28487

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08540		mg/Kg		85	70 - 130		
Toluene			0.100	0.09715		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.08690		mg/Kg		87	70 - 130		
m-Xylene & p-Xylene			0.200	0.1755		mg/Kg		88	70 - 130		
o-Xylene			0.100	0.09957		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-28487/2-A
Matrix: Solid
Analysis Batch: 28499

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28487

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09767		mg/Kg		98	70 - 130	13	35
Toluene			0.100	0.1032		mg/Kg		103	70 - 130	6	35
Ethylbenzene			0.100	0.09156		mg/Kg		92	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.1849		mg/Kg		92	70 - 130	5	35
o-Xylene			0.100	0.1051		mg/Kg		105	70 - 130	5	35

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

Lab Sample ID: 890-2464-A-41-F MS
Matrix: Solid
Analysis Batch: 28499

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 28487

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

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

Lab Sample ID: 890-2464-A-41-F MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28499 **Prep Batch: 28487**

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

Lab Sample ID: 890-2464-A-41-F MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28499 **Prep Batch: 28487**

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-28503/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28497 **Prep Batch: 28503**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/28/22 08:42	06/28/22 11:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/28/22 08:42	06/28/22 11:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/28/22 08:42	06/28/22 11:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/28/22 08:42	06/28/22 11:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/28/22 08:42	06/28/22 11:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/28/22 08:42	06/28/22 11:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	06/28/22 08:42	06/28/22 11:21	1
1,4-Difluorobenzene (Surr)	89		70 - 130	06/28/22 08:42	06/28/22 11:21	1

Lab Sample ID: LCS 880-28503/1-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28497 **Prep Batch: 28503**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09926		mg/Kg		99	70 - 130		
Toluene			0.100	0.1001		mg/Kg		100	70 - 130		
Ethylbenzene			0.100	0.1047		mg/Kg		105	70 - 130		
m-Xylene & p-Xylene			0.200	0.2175		mg/Kg		109	70 - 130		
o-Xylene			0.100	0.1093		mg/Kg		109	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-28503/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28497 **Prep Batch: 28503**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09871		mg/Kg		99	70 - 130	1	35
Toluene			0.100	0.09884		mg/Kg		99	70 - 130	1	35

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

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

Lab Sample ID: LCSD 880-28503/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28497 **Prep Batch: 28503**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene			0.100	0.1029		mg/Kg		103	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.2143		mg/Kg		107	70 - 130	1	35
o-Xylene			0.100	0.1077		mg/Kg		108	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: 890-2464-A-11-I MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28497 **Prep Batch: 28503**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.09497		mg/Kg		95	70 - 130
Toluene	<0.00201	U	0.100	0.09021		mg/Kg		90	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.09054		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1860		mg/Kg		93	70 - 130
o-Xylene	<0.00201	U	0.100	0.09401		mg/Kg		94	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-2464-A-11-J MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28497 **Prep Batch: 28503**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0998	0.09244		mg/Kg		93	70 - 130	3	35
Toluene	<0.00201	U	0.0998	0.09463		mg/Kg		95	70 - 130	5	35
Ethylbenzene	<0.00201	U	0.0998	0.1005		mg/Kg		101	70 - 130	10	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2030		mg/Kg		102	70 - 130	9	35
o-Xylene	<0.00201	U	0.0998	0.1012		mg/Kg		101	70 - 130	7	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

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

Lab Sample ID: MB 880-28419/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28407 **Prep Batch: 28419**

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		06/27/22 08:29	06/27/22 11:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/27/22 08:29	06/27/22 11:37	1

Eurofins Midland

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

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

Lab Sample ID: MB 880-28419/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28407 **Prep Batch: 28419**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/27/22 08:29	06/27/22 11:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*06/27/22 08:29*	*06/27/22 11:37*	*1*
o-Terphenyl	*140*	*S1+*	*70 - 130*	*06/27/22 08:29*	*06/27/22 11:37*	*1*

Lab Sample ID: LCS 880-28419/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28407 **Prep Batch: 28419**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1036		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	1000	829.9		mg/Kg		83	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*98*		*70 - 130*

Lab Sample ID: LCSD 880-28419/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28407 **Prep Batch: 28419**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1104		mg/Kg		110	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	776.5		mg/Kg		78	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*89*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Lab Sample ID: 880-16295-1 MS **Client Sample ID: B-1 (0'-1')**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28407 **Prep Batch: 28419**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	916.9		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	744.5		mg/Kg		72	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*84*		*70 - 130*
o-Terphenyl	*80*		*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

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

Lab Sample ID: 880-16295-1 MSD **Client Sample ID: B-1 (0'-1')**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28407 **Prep Batch: 28419**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	904.5		mg/Kg		89	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	802.0		mg/Kg		78	70 - 130	7	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*90*		*70 - 130*
o-Terphenyl	*84*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-28391/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 28758

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/01/22 15:29	1

Lab Sample ID: LCS 880-28391/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 28758

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	274.0		mg/Kg		110	90 - 110

Lab Sample ID: LCSD 880-28391/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 28758

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	274.5		mg/Kg		110	90 - 110	0	20

Lab Sample ID: 880-16295-8 MS **Client Sample ID: B-1 (24'-25')**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 28758

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5310		2520	7841		mg/Kg		100	90 - 110

Lab Sample ID: 880-16295-8 MSD **Client Sample ID: B-1 (24'-25')**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 28758

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5310		2520	7837		mg/Kg		100	90 - 110	0	20

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-28392/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 28759

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/01/22 17:31	1

Lab Sample ID: LCS 880-28392/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 28759

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	266.8		mg/Kg		107	90 - 110		

Lab Sample ID: LCSD 880-28392/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 28759

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	270.8		mg/Kg		108	90 - 110	1	20

Lab Sample ID: 880-16295-10 MS — **Client Sample ID: B-1 (34'-35')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 28759

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	889	F1	250	1093	F1	mg/Kg		82	90 - 110		

Lab Sample ID: 880-16295-10 MSD — **Client Sample ID: B-1 (34'-35')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 28759

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	889	F1	250	1098	F1	mg/Kg		84	90 - 110	0	20

Lab Sample ID: 880-16295-20 MS — **Client Sample ID: B-2 (19'-20')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 28759

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	4180	F1	2480	7256	F1	mg/Kg		124	90 - 110		

Lab Sample ID: 880-16295-20 MSD — **Client Sample ID: B-2 (19'-20')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 28759

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4180	F1	2480	7250	F1	mg/Kg		124	90 - 110	0	20

Lab Sample ID: MB 880-28393/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 28760

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/03/22 00:04	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Dodd Federal Unit 980H Release

Job ID: 880-16295-1
SDG: Eddy County New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-28393/2-A
Matrix: Solid
Analysis Batch: 28760

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	261.9		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-28393/3-A
Matrix: Solid
Analysis Batch: 28760

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	264.0		mg/Kg		106	90 - 110	1	20

Lab Sample ID: 880-16295-30 MS
Matrix: Solid
Analysis Batch: 28760

Client Sample ID: B-3 (14'-15')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	102		248	373.7		mg/Kg		110	90 - 110		

Lab Sample ID: 880-16295-30 MSD
Matrix: Solid
Analysis Batch: 28760

Client Sample ID: B-3 (14'-15')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	102		248	374.4		mg/Kg		110	90 - 110	0	20

Lab Sample ID: 880-16295-40 MS
Matrix: Solid
Analysis Batch: 28760

Client Sample ID: B-4 (19'-20')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	104		250	377.9		mg/Kg		109	90 - 110		

Lab Sample ID: 880-16295-40 MSD
Matrix: Solid
Analysis Batch: 28760

Client Sample ID: B-4 (19'-20')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	104		250	377.5		mg/Kg		109	90 - 110	0	20

Lab Sample ID: MB 880-28440/1-A
Matrix: Solid
Analysis Batch: 28778

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			07/02/22 03:43	1

Lab Sample ID: LCS 880-28440/2-A
Matrix: Solid
Analysis Batch: 28778

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	274.8		mg/Kg		110	90 - 110		

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-28440/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 28778

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	274.7		mg/Kg		110	90 - 110	0	20

Lab Sample ID: 880-16295-50 MS **Client Sample ID: B-5 (14'-15')**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 28778

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	186		250	440.0		mg/Kg		102	90 - 110

Lab Sample ID: 880-16295-50 MSD **Client Sample ID: B-5 (14'-15')**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 28778

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	186		250	438.0		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

GC VOA

Prep Batch: 28487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16295-25	B-3 (0'-1')	Total/NA	Solid	5035	
880-16295-26	B-3 (2'-3')	Total/NA	Solid	5035	
880-16295-34	B-4 (0'-1')	Total/NA	Solid	5035	
880-16295-35	B-4 (2'-3')	Total/NA	Solid	5035	
880-16295-45	B-5 (0'-1')	Total/NA	Solid	5035	
880-16295-46	B-5 (2'-3')	Total/NA	Solid	5035	
MB 880-28487/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-28487/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-28487/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2464-A-41-F MS	Matrix Spike	Total/NA	Solid	5035	
890-2464-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 28497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16295-1	B-1 (0'-1')	Total/NA	Solid	8021B	28503
880-16295-2	B-1 (2'-3')	Total/NA	Solid	8021B	28503
880-16295-14	B-2 (0'-1')	Total/NA	Solid	8021B	28503
880-16295-15	B-2 (2'-3')	Total/NA	Solid	8021B	28503
MB 880-28503/5-A	Method Blank	Total/NA	Solid	8021B	28503
LCS 880-28503/1-A	Lab Control Sample	Total/NA	Solid	8021B	28503
LCSD 880-28503/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	28503
890-2464-A-11-I MS	Matrix Spike	Total/NA	Solid	8021B	28503
890-2464-A-11-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	28503

Analysis Batch: 28499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16295-25	B-3 (0'-1')	Total/NA	Solid	8021B	28487
880-16295-26	B-3 (2'-3')	Total/NA	Solid	8021B	28487
880-16295-34	B-4 (0'-1')	Total/NA	Solid	8021B	28487
880-16295-35	B-4 (2'-3')	Total/NA	Solid	8021B	28487
880-16295-45	B-5 (0'-1')	Total/NA	Solid	8021B	28487
880-16295-46	B-5 (2'-3')	Total/NA	Solid	8021B	28487
MB 880-28487/5-A	Method Blank	Total/NA	Solid	8021B	28487
LCS 880-28487/1-A	Lab Control Sample	Total/NA	Solid	8021B	28487
LCSD 880-28487/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	28487
890-2464-A-41-F MS	Matrix Spike	Total/NA	Solid	8021B	28487
890-2464-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	28487

Prep Batch: 28503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16295-1	B-1 (0'-1')	Total/NA	Solid	5035	
880-16295-2	B-1 (2'-3')	Total/NA	Solid	5035	
880-16295-14	B-2 (0'-1')	Total/NA	Solid	5035	
880-16295-15	B-2 (2'-3')	Total/NA	Solid	5035	
MB 880-28503/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-28503/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-28503/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2464-A-11-I MS	Matrix Spike	Total/NA	Solid	5035	
890-2464-A-11-J MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

QC Association Summary

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

GC VOA

Analysis Batch: 28619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16295-1	B-1 (0'-1')	Total/NA	Solid	Total BTEX	
880-16295-2	B-1 (2'-3')	Total/NA	Solid	Total BTEX	
880-16295-14	B-2 (0'-1')	Total/NA	Solid	Total BTEX	
880-16295-15	B-2 (2'-3')	Total/NA	Solid	Total BTEX	
880-16295-25	B-3 (0'-1')	Total/NA	Solid	Total BTEX	
880-16295-26	B-3 (2'-3')	Total/NA	Solid	Total BTEX	
880-16295-34	B-4 (0'-1')	Total/NA	Solid	Total BTEX	
880-16295-35	B-4 (2'-3')	Total/NA	Solid	Total BTEX	
880-16295-45	B-5 (0'-1')	Total/NA	Solid	Total BTEX	
880-16295-46	B-5 (2'-3')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 28407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16295-1	B-1 (0'-1')	Total/NA	Solid	8015B NM	28419
880-16295-2	B-1 (2'-3')	Total/NA	Solid	8015B NM	28419
880-16295-14	B-2 (0'-1')	Total/NA	Solid	8015B NM	28419
880-16295-15	B-2 (2'-3')	Total/NA	Solid	8015B NM	28419
880-16295-25	B-3 (0'-1')	Total/NA	Solid	8015B NM	28419
880-16295-26	B-3 (2'-3')	Total/NA	Solid	8015B NM	28419
880-16295-34	B-4 (0'-1')	Total/NA	Solid	8015B NM	28419
880-16295-35	B-4 (2'-3')	Total/NA	Solid	8015B NM	28419
880-16295-45	B-5 (0'-1')	Total/NA	Solid	8015B NM	28419
880-16295-46	B-5 (2'-3')	Total/NA	Solid	8015B NM	28419
MB 880-28419/1-A	Method Blank	Total/NA	Solid	8015B NM	28419
LCS 880-28419/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	28419
LCSD 880-28419/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	28419
880-16295-1 MS	B-1 (0'-1')	Total/NA	Solid	8015B NM	28419
880-16295-1 MSD	B-1 (0'-1')	Total/NA	Solid	8015B NM	28419

Prep Batch: 28419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16295-1	B-1 (0'-1')	Total/NA	Solid	8015NM Prep	
880-16295-2	B-1 (2'-3')	Total/NA	Solid	8015NM Prep	
880-16295-14	B-2 (0'-1')	Total/NA	Solid	8015NM Prep	
880-16295-15	B-2 (2'-3')	Total/NA	Solid	8015NM Prep	
880-16295-25	B-3 (0'-1')	Total/NA	Solid	8015NM Prep	
880-16295-26	B-3 (2'-3')	Total/NA	Solid	8015NM Prep	
880-16295-34	B-4 (0'-1')	Total/NA	Solid	8015NM Prep	
880-16295-35	B-4 (2'-3')	Total/NA	Solid	8015NM Prep	
880-16295-45	B-5 (0'-1')	Total/NA	Solid	8015NM Prep	
880-16295-46	B-5 (2'-3')	Total/NA	Solid	8015NM Prep	
MB 880-28419/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-28419/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-28419/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-16295-1 MS	B-1 (0'-1')	Total/NA	Solid	8015NM Prep	
880-16295-1 MSD	B-1 (0'-1')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

GC Semi VOA

Analysis Batch: 28515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16295-1	B-1 (0'-1')	Total/NA	Solid	8015 NM	
880-16295-2	B-1 (2'-3')	Total/NA	Solid	8015 NM	
880-16295-14	B-2 (0'-1')	Total/NA	Solid	8015 NM	
880-16295-15	B-2 (2'-3')	Total/NA	Solid	8015 NM	
880-16295-25	B-3 (0'-1')	Total/NA	Solid	8015 NM	
880-16295-26	B-3 (2'-3')	Total/NA	Solid	8015 NM	
880-16295-34	B-4 (0'-1')	Total/NA	Solid	8015 NM	
880-16295-35	B-4 (2'-3')	Total/NA	Solid	8015 NM	
880-16295-45	B-5 (0'-1')	Total/NA	Solid	8015 NM	
880-16295-46	B-5 (2'-3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 28391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16295-1	B-1 (0'-1')	Soluble	Solid	DI Leach	
880-16295-2	B-1 (2'-3')	Soluble	Solid	DI Leach	
880-16295-3	B-1 (4'-5')	Soluble	Solid	DI Leach	
880-16295-4	B-1 (6'-7')	Soluble	Solid	DI Leach	
880-16295-5	B-1 ('-10')	Soluble	Solid	DI Leach	
880-16295-6	B-1 (14'-15')	Soluble	Solid	DI Leach	
880-16295-7	B-1 (19'-20')	Soluble	Solid	DI Leach	
880-16295-8	B-1 (24'-25')	Soluble	Solid	DI Leach	
880-16295-9	B-1 (29'-30')	Soluble	Solid	DI Leach	
MB 880-28391/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-28391/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-28391/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-16295-8 MS	B-1 (24'-25')	Soluble	Solid	DI Leach	
880-16295-8 MSD	B-1 (24'-25')	Soluble	Solid	DI Leach	

Leach Batch: 28392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16295-10	B-1 (34'-35')	Soluble	Solid	DI Leach	
880-16295-11	B-1 (39'-40')	Soluble	Solid	DI Leach	
880-16295-12	B-1 (44'-45')	Soluble	Solid	DI Leach	
880-16295-13	B-1 (49'-50')	Soluble	Solid	DI Leach	
880-16295-14	B-2 (0'-1')	Soluble	Solid	DI Leach	
880-16295-15	B-2 (2'-3')	Soluble	Solid	DI Leach	
880-16295-16	B-2 (4'-5')	Soluble	Solid	DI Leach	
880-16295-17	B-2 (6'-7')	Soluble	Solid	DI Leach	
880-16295-18	B-2 (9'-10')	Soluble	Solid	DI Leach	
880-16295-19	B-2 (14'-15')	Soluble	Solid	DI Leach	
880-16295-20	B-2 (19'-20')	Soluble	Solid	DI Leach	
880-16295-21	B-2 (24'-25')	Soluble	Solid	DI Leach	
880-16295-22	B-2 (29'-30')	Soluble	Solid	DI Leach	
880-16295-23	B-2 (34'-35')	Soluble	Solid	DI Leach	
880-16295-24	B-2 (39'-40')	Soluble	Solid	DI Leach	
880-16295-25	B-3 (0'-1')	Soluble	Solid	DI Leach	
880-16295-26	B-3 (2'-3')	Soluble	Solid	DI Leach	
880-16295-27	B-3 (4'-5')	Soluble	Solid	DI Leach	
880-16295-28	B-3 (6'-7')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

HPLC/IC (Continued)

Leach Batch: 28392 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16295-29	B-3 (9'-10')	Soluble	Solid	DI Leach	
MB 880-28392/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-28392/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-28392/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-16295-10 MS	B-1 (34'-35')	Soluble	Solid	DI Leach	
880-16295-10 MSD	B-1 (34'-35')	Soluble	Solid	DI Leach	
880-16295-20 MS	B-2 (19'-20')	Soluble	Solid	DI Leach	
880-16295-20 MSD	B-2 (19'-20')	Soluble	Solid	DI Leach	

Leach Batch: 28393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16295-30	B-3 (14'-15')	Soluble	Solid	DI Leach	
880-16295-31	B-3 (19'-20')	Soluble	Solid	DI Leach	
880-16295-32	B-3 (24'-25')	Soluble	Solid	DI Leach	
880-16295-33	B-3 (29'-30')	Soluble	Solid	DI Leach	
880-16295-34	B-4 (0'-1')	Soluble	Solid	DI Leach	
880-16295-35	B-4 (2'-3')	Soluble	Solid	DI Leach	
880-16295-36	B-4 (4'-5')	Soluble	Solid	DI Leach	
880-16295-37	B-4 (6'-7')	Soluble	Solid	DI Leach	
880-16295-38	B-4 (9'-10')	Soluble	Solid	DI Leach	
880-16295-39	B-4 (14'-15')	Soluble	Solid	DI Leach	
880-16295-40	B-4 (19'-20')	Soluble	Solid	DI Leach	
880-16295-41	B-4 (24'-25')	Soluble	Solid	DI Leach	
880-16295-42	B-4 (29'-30')	Soluble	Solid	DI Leach	
880-16295-43	B-4 (34'-35')	Soluble	Solid	DI Leach	
880-16295-44	B-4 (39'-40')	Soluble	Solid	DI Leach	
880-16295-45	B-5 (0'-1')	Soluble	Solid	DI Leach	
880-16295-46	B-5 (2'-3')	Soluble	Solid	DI Leach	
880-16295-47	B-5 (4'-5')	Soluble	Solid	DI Leach	
880-16295-48	B-5 (6'-7')	Soluble	Solid	DI Leach	
880-16295-49	B-5 (9'-10')	Soluble	Solid	DI Leach	
MB 880-28393/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-28393/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-28393/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-16295-30 MS	B-3 (14'-15')	Soluble	Solid	DI Leach	
880-16295-30 MSD	B-3 (14'-15')	Soluble	Solid	DI Leach	
880-16295-40 MS	B-4 (19'-20')	Soluble	Solid	DI Leach	
880-16295-40 MSD	B-4 (19'-20')	Soluble	Solid	DI Leach	

Leach Batch: 28440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16295-50	B-5 (14'-15')	Soluble	Solid	DI Leach	
880-16295-51	B-5 (19'-20')	Soluble	Solid	DI Leach	
880-16295-52	B-5 (24'-25')	Soluble	Solid	DI Leach	
880-16295-53	B-5 (29'-30')	Soluble	Solid	DI Leach	
880-16295-54	B-5 (34'-35')	Soluble	Solid	DI Leach	
880-16295-55	B-5 (39'-40')	Soluble	Solid	DI Leach	
880-16295-56	B-5 (44'-45')	Soluble	Solid	DI Leach	
880-16295-57	B-5 (49'-50')	Soluble	Solid	DI Leach	
MB 880-28440/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-28440/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

HPLC/IC (Continued)

Leach Batch: 28440 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-28440/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-16295-50 MS	B-5 (14'-15')	Soluble	Solid	DI Leach	
880-16295-50 MSD	B-5 (14'-15')	Soluble	Solid	DI Leach	

Analysis Batch: 28758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16295-1	B-1 (0'-1')	Soluble	Solid	300.0	28391
880-16295-2	B-1 (2'-3')	Soluble	Solid	300.0	28391
880-16295-3	B-1 (4'-5')	Soluble	Solid	300.0	28391
880-16295-4	B-1 (6'-7')	Soluble	Solid	300.0	28391
880-16295-5	B-1 ('-10')	Soluble	Solid	300.0	28391
880-16295-6	B-1 (14'-15')	Soluble	Solid	300.0	28391
880-16295-7	B-1 (19'-20')	Soluble	Solid	300.0	28391
880-16295-8	B-1 (24'-25')	Soluble	Solid	300.0	28391
880-16295-9	B-1 (29'-30')	Soluble	Solid	300.0	28391
MB 880-28391/1-A	Method Blank	Soluble	Solid	300.0	28391
LCS 880-28391/2-A	Lab Control Sample	Soluble	Solid	300.0	28391
LCSD 880-28391/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	28391
880-16295-8 MS	B-1 (24'-25')	Soluble	Solid	300.0	28391
880-16295-8 MSD	B-1 (24'-25')	Soluble	Solid	300.0	28391

Analysis Batch: 28759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16295-10	B-1 (34'-35')	Soluble	Solid	300.0	28392
880-16295-11	B-1 (39'-40')	Soluble	Solid	300.0	28392
880-16295-12	B-1 (44'-45')	Soluble	Solid	300.0	28392
880-16295-13	B-1 (49'-50')	Soluble	Solid	300.0	28392
880-16295-14	B-2 (0'-1')	Soluble	Solid	300.0	28392
880-16295-15	B-2 (2'-3')	Soluble	Solid	300.0	28392
880-16295-16	B-2 (4'-5')	Soluble	Solid	300.0	28392
880-16295-17	B-2 (6'-7')	Soluble	Solid	300.0	28392
880-16295-18	B-2 (9'-10')	Soluble	Solid	300.0	28392
880-16295-19	B-2 (14'-15')	Soluble	Solid	300.0	28392
880-16295-20	B-2 (19'-20')	Soluble	Solid	300.0	28392
880-16295-21	B-2 (24'-25')	Soluble	Solid	300.0	28392
880-16295-22	B-2 (29'-30')	Soluble	Solid	300.0	28392
880-16295-23	B-2 (34'-35')	Soluble	Solid	300.0	28392
880-16295-24	B-2 (39'-40')	Soluble	Solid	300.0	28392
880-16295-25	B-3 (0'-1')	Soluble	Solid	300.0	28392
880-16295-26	B-3 (2'-3')	Soluble	Solid	300.0	28392
880-16295-27	B-3 (4'-5')	Soluble	Solid	300.0	28392
880-16295-28	B-3 (6'-7')	Soluble	Solid	300.0	28392
880-16295-29	B-3 (9'-10')	Soluble	Solid	300.0	28392
MB 880-28392/1-A	Method Blank	Soluble	Solid	300.0	28392
LCS 880-28392/2-A	Lab Control Sample	Soluble	Solid	300.0	28392
LCSD 880-28392/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	28392
880-16295-10 MS	B-1 (34'-35')	Soluble	Solid	300.0	28392
880-16295-10 MSD	B-1 (34'-35')	Soluble	Solid	300.0	28392
880-16295-20 MS	B-2 (19'-20')	Soluble	Solid	300.0	28392
880-16295-20 MSD	B-2 (19'-20')	Soluble	Solid	300.0	28392

QC Association Summary

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

HPLC/IC

Analysis Batch: 28760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16295-30	B-3 (14'-15')	Soluble	Solid	300.0	28393
880-16295-31	B-3 (19'-20')	Soluble	Solid	300.0	28393
880-16295-32	B-3 (24'-25')	Soluble	Solid	300.0	28393
880-16295-33	B-3 (29'-30')	Soluble	Solid	300.0	28393
880-16295-34	B-4 (0'-1')	Soluble	Solid	300.0	28393
880-16295-35	B-4 (2'-3')	Soluble	Solid	300.0	28393
880-16295-36	B-4 (4'-5')	Soluble	Solid	300.0	28393
880-16295-37	B-4 (6'-7')	Soluble	Solid	300.0	28393
880-16295-38	B-4 (9'-10')	Soluble	Solid	300.0	28393
880-16295-39	B-4 (14'-15')	Soluble	Solid	300.0	28393
880-16295-40	B-4 (19'-20')	Soluble	Solid	300.0	28393
880-16295-41	B-4 (24'-25')	Soluble	Solid	300.0	28393
880-16295-42	B-4 (29'-30')	Soluble	Solid	300.0	28393
880-16295-43	B-4 (34'-35')	Soluble	Solid	300.0	28393
880-16295-44	B-4 (39'-40')	Soluble	Solid	300.0	28393
880-16295-45	B-5 (0'-1')	Soluble	Solid	300.0	28393
880-16295-46	B-5 (2'-3')	Soluble	Solid	300.0	28393
880-16295-47	B-5 (4'-5')	Soluble	Solid	300.0	28393
880-16295-48	B-5 (6'-7')	Soluble	Solid	300.0	28393
880-16295-49	B-5 (9'-10')	Soluble	Solid	300.0	28393
MB 880-28393/1-A	Method Blank	Soluble	Solid	300.0	28393
LCS 880-28393/2-A	Lab Control Sample	Soluble	Solid	300.0	28393
LCSD 880-28393/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	28393
880-16295-30 MS	B-3 (14'-15')	Soluble	Solid	300.0	28393
880-16295-30 MSD	B-3 (14'-15')	Soluble	Solid	300.0	28393
880-16295-40 MS	B-4 (19'-20')	Soluble	Solid	300.0	28393
880-16295-40 MSD	B-4 (19'-20')	Soluble	Solid	300.0	28393

Analysis Batch: 28778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16295-50	B-5 (14'-15')	Soluble	Solid	300.0	28440
880-16295-51	B-5 (19'-20')	Soluble	Solid	300.0	28440
880-16295-52	B-5 (24'-25')	Soluble	Solid	300.0	28440
880-16295-53	B-5 (29'-30')	Soluble	Solid	300.0	28440
880-16295-54	B-5 (34'-35')	Soluble	Solid	300.0	28440
880-16295-55	B-5 (39'-40')	Soluble	Solid	300.0	28440
880-16295-56	B-5 (44'-45')	Soluble	Solid	300.0	28440
880-16295-57	B-5 (49'-50')	Soluble	Solid	300.0	28440
MB 880-28440/1-A	Method Blank	Soluble	Solid	300.0	28440
LCS 880-28440/2-A	Lab Control Sample	Soluble	Solid	300.0	28440
LCSD 880-28440/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	28440
880-16295-50 MS	B-5 (14'-15')	Soluble	Solid	300.0	28440
880-16295-50 MSD	B-5 (14'-15')	Soluble	Solid	300.0	28440

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

Client Sample ID: B-1 (0'-1') Lab Sample ID: 880-16295-1

Date Collected: 06/23/22 14:30 **Matrix: Solid**
Date Received: 06/24/22 15:27

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	28503	06/28/22 08:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28497	06/28/22 19:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28619	06/29/22 09:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			28515	06/28/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	28419	06/27/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28407	06/27/22 12:41	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	28391	06/25/22 15:20	SMC	XEN MID
Soluble	Analysis	300.0		5			28758	07/01/22 16:26	CH	XEN MID

Client Sample ID: B-1 (2'-3') Lab Sample ID: 880-16295-2

Date Collected: 06/23/22 14:40 **Matrix: Solid**
Date Received: 06/24/22 15:27

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	28503	06/28/22 08:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28497	06/28/22 19:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28619	06/29/22 09:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			28515	06/28/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28419	06/27/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28407	06/27/22 13:46	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	28391	06/25/22 15:20	SMC	XEN MID
Soluble	Analysis	300.0		10			28758	07/01/22 16:34	CH	XEN MID

Client Sample ID: B-1 (4'-5') Lab Sample ID: 880-16295-3

Date Collected: 06/23/22 14:50 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	28391	06/25/22 15:20	SMC	XEN MID
Soluble	Analysis	300.0		5			28758	07/01/22 17:05	CH	XEN MID

Client Sample ID: B-1 (6'-7') Lab Sample ID: 880-16295-4

Date Collected: 06/23/22 15:00 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	28391	06/25/22 15:20	SMC	XEN MID
Soluble	Analysis	300.0		10			28758	07/01/22 17:13	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release
SDG: Eddy County New Mexico

Client Sample ID: B-1 ('-10')
Lab Sample ID: 880-16295-5
Date Collected: 06/23/22 15:10
Matrix: Solid
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	28391	06/25/22 15:20	SMC	XEN MID
Soluble	Analysis	300.0		10			28758	07/01/22 17:21	CH	XEN MID

Client Sample ID: B-1 (14'-15')
Lab Sample ID: 880-16295-6
Date Collected: 06/23/22 15:20
Matrix: Solid
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	28391	06/25/22 15:20	SMC	XEN MID
Soluble	Analysis	300.0		10			28758	07/01/22 17:29	CH	XEN MID

Client Sample ID: B-1 (19'-20')
Lab Sample ID: 880-16295-7
Date Collected: 06/23/22 15:30
Matrix: Solid
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	28391	06/25/22 15:20	SMC	XEN MID
Soluble	Analysis	300.0		5			28758	07/01/22 17:37	CH	XEN MID

Client Sample ID: B-1 (24'-25')
Lab Sample ID: 880-16295-8
Date Collected: 06/23/22 15:40
Matrix: Solid
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	28391	06/25/22 15:20	SMC	XEN MID
Soluble	Analysis	300.0		10			28758	07/01/22 17:44	CH	XEN MID

Client Sample ID: B-1 (29'-30')
Lab Sample ID: 880-16295-9
Date Collected: 06/23/22 15:50
Matrix: Solid
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	28391	06/25/22 15:20	SMC	XEN MID
Soluble	Analysis	300.0		5			28758	07/01/22 18:08	CH	XEN MID

Client Sample ID: B-1 (34'-35')
Lab Sample ID: 880-16295-10
Date Collected: 06/23/22 16:00
Matrix: Solid
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	28392	06/25/22 15:22	SMC	XEN MID
Soluble	Analysis	300.0		1			28759	07/01/22 17:58	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

Client Sample ID: B-1 (39'-40') Lab Sample ID: 880-16295-11

Date Collected: 06/23/22 16:10 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	28392	06/25/22 15:22	SMC	XEN MID
Soluble	Analysis	300.0		5			28759	07/01/22 18:26	CH	XEN MID

Client Sample ID: B-1 (44'-45') Lab Sample ID: 880-16295-12

Date Collected: 06/23/22 16:20 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	28392	06/25/22 15:22	SMC	XEN MID
Soluble	Analysis	300.0		1			28759	07/01/22 18:35	CH	XEN MID

Client Sample ID: B-1 (49'-50') Lab Sample ID: 880-16295-13

Date Collected: 06/23/22 16:30 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	28392	06/25/22 15:22	SMC	XEN MID
Soluble	Analysis	300.0		1			28759	07/01/22 18:45	CH	XEN MID

Client Sample ID: B-2 (0'-1') Lab Sample ID: 880-16295-14

Date Collected: 06/23/22 12:00 **Matrix: Solid**
Date Received: 06/24/22 15:27

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	28503	06/28/22 08:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28497	06/28/22 20:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28619	06/29/22 09:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			28515	06/28/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28419	06/27/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28407	06/27/22 14:23	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	28392	06/25/22 15:22	SMC	XEN MID
Soluble	Analysis	300.0		5			28759	07/01/22 18:54	CH	XEN MID

Client Sample ID: B-2 (2'-3') Lab Sample ID: 880-16295-15

Date Collected: 06/23/22 12:10 **Matrix: Solid**
Date Received: 06/24/22 15:27

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	28503	06/28/22 08:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28497	06/28/22 20:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28619	06/29/22 09:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			28515	06/28/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28419	06/27/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28407	06/27/22 14:49	SM	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

Client Sample ID: B-2 (2'-3') Lab Sample ID: 880-16295-15
Date Collected: 06/23/22 12:10 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	28392	06/25/22 15:22	SMC	XEN MID
Soluble	Analysis	300.0		1			28759	07/01/22 19:21	CH	XEN MID

Client Sample ID: B-2 (4'-5') Lab Sample ID: 880-16295-16
Date Collected: 06/23/22 12:20 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	28392	06/25/22 15:22	SMC	XEN MID
Soluble	Analysis	300.0		1			28759	07/01/22 19:31	CH	XEN MID

Client Sample ID: B-2 (6'-7') Lab Sample ID: 880-16295-17
Date Collected: 06/23/22 12:30 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	28392	06/25/22 15:22	SMC	XEN MID
Soluble	Analysis	300.0		5			28759	07/01/22 19:40	CH	XEN MID

Client Sample ID: B-2 (9'-10') Lab Sample ID: 880-16295-18
Date Collected: 06/23/22 12:40 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	28392	06/25/22 15:22	SMC	XEN MID
Soluble	Analysis	300.0		5			28759	07/01/22 19:50	CH	XEN MID

Client Sample ID: B-2 (14'-15') Lab Sample ID: 880-16295-19
Date Collected: 06/23/22 13:00 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	28392	06/25/22 15:22	SMC	XEN MID
Soluble	Analysis	300.0		5			28759	07/01/22 19:59	CH	XEN MID

Client Sample ID: B-2 (19'-20') Lab Sample ID: 880-16295-20
Date Collected: 06/23/22 13:10 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	28392	06/25/22 15:22	SMC	XEN MID
Soluble	Analysis	300.0		10			28759	07/01/22 20:08	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

Client Sample ID: B-2 (24'-25') Lab Sample ID: 880-16295-21

Date Collected: 06/23/22 13:20 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	28392	06/25/22 15:22	SMC	XEN MID
Soluble	Analysis	300.0		5			28759	07/01/22 20:36	CH	XEN MID

Client Sample ID: B-2 (29'-30') Lab Sample ID: 880-16295-22

Date Collected: 06/23/22 13:30 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	28392	06/25/22 15:22	SMC	XEN MID
Soluble	Analysis	300.0		5			28759	07/01/22 20:45	CH	XEN MID

Client Sample ID: B-2 (34'-35') Lab Sample ID: 880-16295-23

Date Collected: 06/23/22 13:50 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	28392	06/25/22 15:22	SMC	XEN MID
Soluble	Analysis	300.0		1			28759	07/01/22 21:12	CH	XEN MID

Client Sample ID: B-2 (39'-40') Lab Sample ID: 880-16295-24

Date Collected: 06/23/22 14:00 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	28392	06/25/22 15:22	SMC	XEN MID
Soluble	Analysis	300.0		1			28759	07/01/22 21:22	CH	XEN MID

Client Sample ID: B-3 (0'-1') Lab Sample ID: 880-16295-25

Date Collected: 06/23/22 10:00 **Matrix: Solid**
Date Received: 06/24/22 15:27

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	28487	06/27/22 15:21	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28499	06/28/22 16:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28619	06/29/22 09:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			28515	06/28/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28419	06/27/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28407	06/27/22 15:10	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	28392	06/25/22 15:22	SMC	XEN MID
Soluble	Analysis	300.0		5			28759	07/01/22 21:31	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

Client Sample ID: B-3 (2'-3') Lab Sample ID: 880-16295-26

Date Collected: 06/23/22 10:10 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	28487	06/27/22 15:21	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28499	06/28/22 17:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28619	06/29/22 09:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			28515	06/28/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28419	06/27/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28407	06/27/22 15:32	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	28392	06/25/22 15:22	SMC	XEN MID
Soluble	Analysis	300.0		1			28759	07/01/22 21:40	CH	XEN MID

Client Sample ID: B-3 (4'-5') Lab Sample ID: 880-16295-27

Date Collected: 06/23/22 10:20 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	28392	06/25/22 15:22	SMC	XEN MID
Soluble	Analysis	300.0		1			28759	07/01/22 21:49	CH	XEN MID

Client Sample ID: B-3 (6'-7') Lab Sample ID: 880-16295-28

Date Collected: 06/23/22 10:30 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	28392	06/25/22 15:22	SMC	XEN MID
Soluble	Analysis	300.0		1			28759	07/01/22 21:58	CH	XEN MID

Client Sample ID: B-3 (9'-10') Lab Sample ID: 880-16295-29

Date Collected: 06/23/22 10:40 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	28392	06/25/22 15:22	SMC	XEN MID
Soluble	Analysis	300.0		1			28759	07/01/22 22:08	CH	XEN MID

Client Sample ID: B-3 (14'-15') Lab Sample ID: 880-16295-30

Date Collected: 06/23/22 10:50 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	28393	06/25/22 15:24	SMC	XEN MID
Soluble	Analysis	300.0		1			28760	07/03/22 00:28	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

Client Sample ID: B-3 (19'-20') Lab Sample ID: 880-16295-31

Date Collected: 06/23/22 11:00 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	28393	06/25/22 15:24	SMC	XEN MID
Soluble	Analysis	300.0		5			28760	07/03/22 00:51	CH	XEN MID

Client Sample ID: B-3 (24'-25') Lab Sample ID: 880-16295-32

Date Collected: 06/23/22 11:10 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	28393	06/25/22 15:24	SMC	XEN MID
Soluble	Analysis	300.0		1			28760	07/03/22 00:59	CH	XEN MID

Client Sample ID: B-3 (29'-30') Lab Sample ID: 880-16295-33

Date Collected: 06/23/22 11:20 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	28393	06/25/22 15:24	SMC	XEN MID
Soluble	Analysis	300.0		1			28760	07/03/22 01:07	CH	XEN MID

Client Sample ID: B-4 (0'-1') Lab Sample ID: 880-16295-34

Date Collected: 06/23/22 14:00 **Matrix: Solid**
Date Received: 06/24/22 15:27

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	28487	06/27/22 15:21	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28499	06/28/22 17:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28619	06/29/22 09:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			28515	06/28/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28419	06/27/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28407	06/27/22 15:55	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	28393	06/25/22 15:24	SMC	XEN MID
Soluble	Analysis	300.0		1			28760	07/03/22 01:16	CH	XEN MID

Client Sample ID: B-4 (2'-3') Lab Sample ID: 880-16295-35

Date Collected: 06/23/22 14:10 **Matrix: Solid**
Date Received: 06/24/22 15:27

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	28487	06/27/22 15:21	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28499	06/28/22 17:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28619	06/29/22 09:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			28515	06/28/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	28419	06/27/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28407	06/27/22 16:16	SM	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

Client Sample ID: B-4 (2'-3') Lab Sample ID: 880-16295-35

Date Collected: 06/23/22 14:10 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	28393	06/25/22 15:24	SMC	XEN MID
Soluble	Analysis	300.0		1			28760	07/03/22 01:39	CH	XEN MID

Client Sample ID: B-4 (4'-5') Lab Sample ID: 880-16295-36

Date Collected: 06/23/22 14:20 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	28393	06/25/22 15:24	SMC	XEN MID
Soluble	Analysis	300.0		1			28760	07/03/22 01:47	CH	XEN MID

Client Sample ID: B-4 (6'-7') Lab Sample ID: 880-16295-37

Date Collected: 06/23/22 14:30 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	28393	06/25/22 15:24	SMC	XEN MID
Soluble	Analysis	300.0		1			28760	07/03/22 01:55	CH	XEN MID

Client Sample ID: B-4 (9'-10') Lab Sample ID: 880-16295-38

Date Collected: 06/23/22 14:40 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	28393	06/25/22 15:24	SMC	XEN MID
Soluble	Analysis	300.0		1			28760	07/03/22 02:03	CH	XEN MID

Client Sample ID: B-4 (14'-15') Lab Sample ID: 880-16295-39

Date Collected: 06/23/22 14:50 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	28393	06/25/22 15:24	SMC	XEN MID
Soluble	Analysis	300.0		1			28760	07/03/22 02:11	CH	XEN MID

Client Sample ID: B-4 (19'-20') Lab Sample ID: 880-16295-40

Date Collected: 06/23/22 15:00 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	28393	06/25/22 15:24	SMC	XEN MID
Soluble	Analysis	300.0		1			28760	07/03/22 02:18	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

Client Sample ID: B-4 (24'-25') Lab Sample ID: 880-16295-41

Date Collected: 06/23/22 15:10 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	28393	06/25/22 15:24	SMC	XEN MID
Soluble	Analysis	300.0		1			28760	07/03/22 02:42	CH	XEN MID

Client Sample ID: B-4 (29'-30') Lab Sample ID: 880-16295-42

Date Collected: 06/23/22 15:20 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	28393	06/25/22 15:24	SMC	XEN MID
Soluble	Analysis	300.0		1			28760	07/03/22 02:50	CH	XEN MID

Client Sample ID: B-4 (34'-35') Lab Sample ID: 880-16295-43

Date Collected: 06/23/22 15:50 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	28393	06/25/22 15:24	SMC	XEN MID
Soluble	Analysis	300.0		1			28760	07/03/22 03:13	CH	XEN MID

Client Sample ID: B-4 (39'-40') Lab Sample ID: 880-16295-44

Date Collected: 06/23/22 16:00 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	28393	06/25/22 15:24	SMC	XEN MID
Soluble	Analysis	300.0		1			28760	07/03/22 03:21	CH	XEN MID

Client Sample ID: B-5 (0'-1') Lab Sample ID: 880-16295-45

Date Collected: 06/23/22 17:00 **Matrix: Solid**
Date Received: 06/24/22 15:27

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	28487	06/27/22 15:21	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28499	06/28/22 18:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28619	06/29/22 09:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			28515	06/28/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	28419	06/27/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28407	06/27/22 16:38	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	28393	06/25/22 15:24	SMC	XEN MID
Soluble	Analysis	300.0		1			28760	07/03/22 03:29	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

Client Sample ID: B-5 (2'-3') Lab Sample ID: 880-16295-46

Date Collected: 06/23/22 17:10 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	28487	06/27/22 15:21	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28499	06/28/22 18:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28619	06/29/22 09:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			28515	06/28/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28419	06/27/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28407	06/27/22 16:59	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	28393	06/25/22 15:24	SMC	XEN MID
Soluble	Analysis	300.0		1			28760	07/03/22 03:37	CH	XEN MID

Client Sample ID: B-5 (4'-5') Lab Sample ID: 880-16295-47

Date Collected: 06/23/22 17:20 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	28393	06/25/22 15:24	SMC	XEN MID
Soluble	Analysis	300.0		5			28760	07/03/22 03:45	CH	XEN MID

Client Sample ID: B-5 (6'-7') Lab Sample ID: 880-16295-48

Date Collected: 06/23/22 17:30 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	28393	06/25/22 15:24	SMC	XEN MID
Soluble	Analysis	300.0		1			28760	07/03/22 03:53	CH	XEN MID

Client Sample ID: B-5 (9'-10') Lab Sample ID: 880-16295-49

Date Collected: 06/23/22 17:40 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	28393	06/25/22 15:24	SMC	XEN MID
Soluble	Analysis	300.0		1			28760	07/03/22 04:01	CH	XEN MID

Client Sample ID: B-5 (14'-15') Lab Sample ID: 880-16295-50

Date Collected: 06/23/22 17:50 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	28440	06/27/22 10:00	SMC	XEN MID
Soluble	Analysis	300.0		1			28778	07/02/22 14:23	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

Client Sample ID: B-5 (19'-20') Lab Sample ID: 880-16295-51

Date Collected: 06/23/22 18:00 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	28440	06/27/22 10:00	SMC	XEN MID
Soluble	Analysis	300.0		5			28778	07/02/22 04:31	CH	XEN MID

Client Sample ID: B-5 (24'-25') Lab Sample ID: 880-16295-52

Date Collected: 06/23/22 18:10 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	28440	06/27/22 10:00	SMC	XEN MID
Soluble	Analysis	300.0		5			28778	07/02/22 04:38	CH	XEN MID

Client Sample ID: B-5 (29'-30') Lab Sample ID: 880-16295-53

Date Collected: 06/23/22 18:20 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	28440	06/27/22 10:00	SMC	XEN MID
Soluble	Analysis	300.0		5			28778	07/02/22 04:46	CH	XEN MID

Client Sample ID: B-5 (34'-35') Lab Sample ID: 880-16295-54

Date Collected: 06/23/22 18:30 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	28440	06/27/22 10:00	SMC	XEN MID
Soluble	Analysis	300.0		5			28778	07/02/22 04:54	CH	XEN MID

Client Sample ID: B-5 (39'-40') Lab Sample ID: 880-16295-55

Date Collected: 06/23/22 18:40 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	28440	06/27/22 10:00	SMC	XEN MID
Soluble	Analysis	300.0		5			28778	07/02/22 05:18	CH	XEN MID

Client Sample ID: B-5 (44'-45') Lab Sample ID: 880-16295-56

Date Collected: 06/23/22 18:50 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	28440	06/27/22 10:00	SMC	XEN MID
Soluble	Analysis	300.0		1			28778	07/02/22 05:26	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

Client Sample ID: B-5 (49'-50') **Lab Sample ID: 880-16295-57**
Date Collected: 06/23/22 19:00 **Matrix: Solid**
Date Received: 06/24/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	28440	06/27/22 10:00	SMC	XEN MID
Soluble	Analysis	300.0		1			28778	07/02/22 05:33	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-23	06-30-23

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

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

Method Summary

Client: Tetra Tech, Inc. Job ID: 880-16295-1
Project/Site: Dodd Federal Unit 980H Release SDG: Eddy County New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (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.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Dodd Federal Unit 980H Release

Job ID: 880-16295-1
SDG: Eddy County New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-16295-1	B-1 (0'-1')	Solid	06/23/22 14:30	06/24/22 15:27
880-16295-2	B-1 (2'-3')	Solid	06/23/22 14:40	06/24/22 15:27
880-16295-3	B-1 (4'-5')	Solid	06/23/22 14:50	06/24/22 15:27
880-16295-4	B-1 (6'-7')	Solid	06/23/22 15:00	06/24/22 15:27
880-16295-5	B-1 ('-10')	Solid	06/23/22 15:10	06/24/22 15:27
880-16295-6	B-1 (14'-15')	Solid	06/23/22 15:20	06/24/22 15:27
880-16295-7	B-1 (19'-20')	Solid	06/23/22 15:30	06/24/22 15:27
880-16295-8	B-1 (24'-25')	Solid	06/23/22 15:40	06/24/22 15:27
880-16295-9	B-1 (29'-30')	Solid	06/23/22 15:50	06/24/22 15:27
880-16295-10	B-1 (34'-35')	Solid	06/23/22 16:00	06/24/22 15:27
880-16295-11	B-1 (39'-40')	Solid	06/23/22 16:10	06/24/22 15:27
880-16295-12	B-1 (44'-45')	Solid	06/23/22 16:20	06/24/22 15:27
880-16295-13	B-1 (49'-50')	Solid	06/23/22 16:30	06/24/22 15:27
880-16295-14	B-2 (0'-1')	Solid	06/23/22 12:00	06/24/22 15:27
880-16295-15	B-2 (2'-3')	Solid	06/23/22 12:10	06/24/22 15:27
880-16295-16	B-2 (4'-5')	Solid	06/23/22 12:20	06/24/22 15:27
880-16295-17	B-2 (6'-7')	Solid	06/23/22 12:30	06/24/22 15:27
880-16295-18	B-2 (9'-10')	Solid	06/23/22 12:40	06/24/22 15:27
880-16295-19	B-2 (14'-15')	Solid	06/23/22 13:00	06/24/22 15:27
880-16295-20	B-2 (19'-20')	Solid	06/23/22 13:10	06/24/22 15:27
880-16295-21	B-2 (24'-25')	Solid	06/23/22 13:20	06/24/22 15:27
880-16295-22	B-2 (29'-30')	Solid	06/23/22 13:30	06/24/22 15:27
880-16295-23	B-2 (34'-35')	Solid	06/23/22 13:50	06/24/22 15:27
880-16295-24	B-2 (39'-40')	Solid	06/23/22 14:00	06/24/22 15:27
880-16295-25	B-3 (0'-1')	Solid	06/23/22 10:00	06/24/22 15:27
880-16295-26	B-3 (2'-3')	Solid	06/23/22 10:10	06/24/22 15:27
880-16295-27	B-3 (4'-5')	Solid	06/23/22 10:20	06/24/22 15:27
880-16295-28	B-3 (6'-7')	Solid	06/23/22 10:30	06/24/22 15:27
880-16295-29	B-3 (9'-10')	Solid	06/23/22 10:40	06/24/22 15:27
880-16295-30	B-3 (14'-15')	Solid	06/23/22 10:50	06/24/22 15:27
880-16295-31	B-3 (19'-20')	Solid	06/23/22 11:00	06/24/22 15:27
880-16295-32	B-3 (24'-25')	Solid	06/23/22 11:10	06/24/22 15:27
880-16295-33	B-3 (29'-30')	Solid	06/23/22 11:20	06/24/22 15:27
880-16295-34	B-4 (0'-1')	Solid	06/23/22 14:00	06/24/22 15:27
880-16295-35	B-4 (2'-3')	Solid	06/23/22 14:10	06/24/22 15:27
880-16295-36	B-4 (4'-5')	Solid	06/23/22 14:20	06/24/22 15:27
880-16295-37	B-4 (6'-7')	Solid	06/23/22 14:30	06/24/22 15:27
880-16295-38	B-4 (9'-10')	Solid	06/23/22 14:40	06/24/22 15:27
880-16295-39	B-4 (14'-15')	Solid	06/23/22 14:50	06/24/22 15:27
880-16295-40	B-4 (19'-20')	Solid	06/23/22 15:00	06/24/22 15:27
880-16295-41	B-4 (24'-25')	Solid	06/23/22 15:10	06/24/22 15:27
880-16295-42	B-4 (29'-30')	Solid	06/23/22 15:20	06/24/22 15:27
880-16295-43	B-4 (34'-35')	Solid	06/23/22 15:50	06/24/22 15:27
880-16295-44	B-4 (39'-40')	Solid	06/23/22 16:00	06/24/22 15:27
880-16295-45	B-5 (0'-1')	Solid	06/23/22 17:00	06/24/22 15:27
880-16295-46	B-5 (2'-3')	Solid	06/23/22 17:10	06/24/22 15:27
880-16295-47	B-5 (4'-5')	Solid	06/23/22 17:20	06/24/22 15:27
880-16295-48	B-5 (6'-7')	Solid	06/23/22 17:30	06/24/22 15:27
880-16295-49	B-5 (9'-10')	Solid	06/23/22 17:40	06/24/22 15:27
880-16295-50	B-5 (14'-15')	Solid	06/23/22 17:50	06/24/22 15:27
880-16295-51	B-5 (19'-20')	Solid	06/23/22 18:00	06/24/22 15:27
880-16295-52	B-5 (24'-25')	Solid	06/23/22 18:10	06/24/22 15:27
880-16295-53	B-5 (29'-30')	Solid	06/23/22 18:20	06/24/22 15:27
880-16295-54	B-5 (34'-35')	Solid	06/23/22 18:30	06/24/22 15:27

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Dodd Federal Unit 980H Release

Job ID: 880-16295-1
SDG: Eddy County New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-16295-55	B-5 (39'-40')	Solid	06/23/22 18:40	06/24/22 15:27
880-16295-56	B-5 (44'-45')	Solid	06/23/22 18:50	06/24/22 15:27
880-16295-57	B-5 (49'-50')	Solid	06/23/22 19:00	06/24/22 15:27

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

880-16295 Chain of Custody

16295

Client Name	ConocoPhillips	**Site Manager**	Christian Llull
Project Name	Dodd Federal Unit 980H Release	**Contact Info**	Email christian.llull@tetratech.com Phone (512) 338-1667
Project Location (county, state)	Eddy County New Mexico	**Project #**	212C-MD-02757
Invoice to	Accounts Payable 901 West Wall Street, Suite 100 Midland Texas 79701		
Receiving Laboratory:	Eurofins Xenco	**Sampler Signature**	Joe Tyler
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol 8260B / 624	GC/MS Semi Vol 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300 0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD
	B-1 (0'-1')	06/23/22	1430		x			x		1	N	X		X												X				
	B-1 (2'-3')	06/23/22	1440		x			x		1	N	X		X												X				
	B-1 (4'-5')	06/23/22	1450		x			x		1	N															X				
	B-1 (6'-7')	06/23/22	1500		x			x		1	N															X				
	B-1 (9'-10')	06/23/22	1510		x			x		1	N															X				
	B-1 (14'-15')	06/23/22	1520		x			x		1	N															X				
	B-1 (19'-20')	06/23/22	1530		x			x		1	N															X				
	B-1 (24'-25')	06/23/22	1540		x			x		1	N															X				
	B-1 (29'-30')	06/23/22	1550		x			x		1	N															X				
	B-1 (34'-35')	06/23/22	1600		x			x		1	N															X				

Relinquished by	Date	Time	Received by
	6-24-22		6/24/22 15:27
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by

ORIGINAL COPY

LAB USE ONLY

Sample Temperature 5.6/5.4 = 2 IPS

REMARKS

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

16295

Client Name:	ConocoPhillips	**Site Manager**	Christian Llull
Project Name	Dodd Federal Unit 980H Release	**Contact Info:**	Email christian llull@tetratech com Phone (512) 338-1667
Project Location (county, state)	Eddy County, New Mexico	**Project #**	212C-MD-02757
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland Texas 79701		
Receiving Laboratory	Eurofins Xenco	**Sampler Signature.**	Joe Tyler
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR 2022)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol 8260B / 624	GC/MS Semi Vol 8270C/625	PCB s 8082 / 608	NORM	PLM (Asbestos)	Chloride 300 0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD
	B-1 (39'-40')	06/23/22	1610		x			x		1	N															X					
	B-1 (44'-45')	06/23/22	1620		x			x		1	N															X					
	B-1 (49'-50')	06/23/22	1630		x			x		1	N															X					
	B-2 (0'-1')	06/23/22	1200		x			x		1	N	X		X												X					
	B-2 (2'-3')	06/23/22	1210		x			x		1	N	X		X												X					
	B-2 (4 -5')	06/23/22	1220		x			x		1	N															X					
	B-2 (6'-7')	06/23/22	1230		x			x		1	N															X					
	B-2 (9'-10')	06/23/22	1240		x			x		1	N															X					
	B-2 (14'-15')	06/23/22	1300		x			x		1	N															X					
	B-2 (19'-20)	06/23/22	1310		x			x		1	N															X					

Relinquished by:	Date: 6-24-22	Received by:	Date: 6/24/22 Time: 1527
Relinquished by:	Date: Time:	Received by:	Date: Time:
Relinquished by:	Date: Time:	Received by:	Date: Time:

ORIGINAL COPY

LAB USE ONLY

Sample Temperature

REMARKS

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

(Circle) HAND DELIVERED FEDEX UPS Tracking # _____

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

160295

Client Name	ConocoPhillips	**Site Manager**	Christian Llull
Project Name.	Dodd Federal Unit 980H Release	**Contact Info.**	Email christian llull@tetratech com Phone (512) 338-1667
Project Location (county, state)	Eddy County New Mexico	**Project #**	212C-MD-02757
Invoice to	Accounts Payable 901 West Wall Street Suite 100 Midland Texas 79701		
Receiving Laboratory	Eurofins Xenco	**Sampler Signature**	Joe Tyler
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol 8260B / 624	GC/MS Semi Vol 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300 0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD
	B-2 (24'-25')	06/23/22	1320		x			x		1	N															X					
	B-2 (29'-30')	06/23/22	1330		x			x		1	N															X					
	B-2 (34'-35')	06/23/22	1350		x			x		1	N															X					
	B-2 (39'-40')	06/23/22	1400		x			x		1	N															X					
	B-3 (0'-1')	06/23/22	1000		x			x		1	N	X		X												X					
	B-3 (2'-3')	06/23/22	1010		x			x		1	N	X		X												X					
	B-3 (4'-5')	06/23/22	1020		x			x		1	N															X					
	B-3 (6'-7')	06/23/22	1030		x			x		1	N															X					
	B-3 (9'-10')	06/23/22	1040		x			x		1	N															X					
	B-3 (14-15)	06/23/22	1050		x			x		1	N															X					

Relinquished by		Date	Time	Received by	Date	Time
	Tyler	6-24-22		LMR	6/24/22	15.27
Relinquished by		Date	Time	Received by	Date	Time
Relinquished by		Date	Time	Received by	Date	Time

ORIGINAL COPY

LAB USE ONLY

Sample Temperature

REMARKS

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

(Circle) HAND DELIVERED FEDEX UPS Tracking # _____

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

16295

Client Name	ConocoPhillips	**Site Manager**	Christian Llull
Project Name	Dodd Federal Unit 980H Release	**Contact Info.**	Email christian llull@tetratech com Phone (512) 338-1667
Project Location (county, state)	Eddy County New Mexico	**Project #**	212C-MD-02757
Invoice to	Accounts Payable 901 West Wall Street, Suite 100 Midland Texas 79701		
Receiving Laboratory	Eurofins Xenco	**Sampler Signature**	Joe Tyler
Comments			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR 2022 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD NONE	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol 8260B / 624	GC/MS Semi Vol 8270C/625	PCB s 8082 / 608	NORM	PLM (Asbestos)	Chloride 300 0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD
	B-3 (19'-20')	06/23/22	1100		x				x			1	N															X					
	B-3 (24'-25')	06/23/22	1110		x				x			1	N															X					
	B-3 (29'-30')	06/23/22	1120		x				x			1	N															X					
	B-4 (0'-1')	06/22/22	1400		x				x			1	N	X		X												X					
	B-4 (2'-3')	06/22/22	1410		x				x			1	N	X		X												X					
	B-4 (4'-5')	06/22/22	1420		x				x			1	N															X					
	B-4 (6'-7')	06/22/22	1430		x				x			1	N															X					
	B-4 (9'-10')	06/22/22	1440		x				x			1	N															X					
	B-4 (14'-15')	06/22/22	1450		x				x			1	N															X					
	B-4 (19'-20')	06/22/22	1500		x				x			1	N															X					

Relinquished by	Date	Time	Received by	Date	Time
Tyler	6-24-22			6/24/22	1527
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time

ORIGINAL COPY

LAB USE ONLY

Sample Temperature

REMARKS

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

(Circle) HAND DELIVERED FEDEX UPS Tracking # _____

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

16295

Client Name:	ConocoPhillips	**Site Manager**	Christian Llull
Project Name:	Dodd Federal Unit 980H Release	**Contact Info**	Email christian llull@tetratech com Phone (512) 338-1667
Project Location (county, state)	Eddy County New Mexico	**Project #**	212C-MD-02757
Invoice to	Accounts Payable 901 West Wall Street, Suite 100 Midland Texas 79701		
Receiving Laboratory	Eurofins Xenco	**Sampler Signature**	Joe Tyler
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR 2022)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol 8260B / 624	GC/MS Semi Vol 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300 0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD
	B-4 (24'-25')	06/22/22	1510		x			x		1	N															X				
	B-4 (29'-30')	06/22/22	1520		x			x		1	N															X				
	B-4 (34'-35')	06/22/22	1580		x			x		1	N															X				
	B-4 (39'-40')	06/22/22	1600		x			x		1	N															X				
	B-5 (0'-1')	06/23/22	1700		x			x		1	N	X		X												X				
	B-5 (2'-3')	06/23/22	1710		x			x		1	N	X		X												X				
	B-5 (4'-5')	06/23/22	1720		x			x		1	N															X				
	B-5 (6'-7')	06/23/22	1730		x			x		1	N															X				
	B-5 (9'-10')	06/23/22	1740		x			x		1	N															X				
	B-5 (14'-15')	06/23/22	1750		x			x		1	N															X				

Relinquished by	Date	Time	Received by	Date	Time
Joe Tyler	6-24-22			6/24/22	1507
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time

ORIGINAL COPY

LAB USE ONLY

Sample Temperature

REMARKS

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

(Circle) HAND DELIVERED FEDEX UPS Tracking # _____

Analysis Request of Chain of Custody Record

Loc: 880
16295

Tetra Tech, Inc.

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

16295

Client Name	ConocoPhillips	**Site Manager**	Christian Llull
Project Name:	Dodd Federal Unit 980H Release	**Contact Info**	Email christian llull@tetratech com Phone (512) 338-1667
Project Location: (county, state)	Eddy County New Mexico	**Project #**	212C-MD-02757
Invoice to	Accounts Payable 901 West Wall Street, Suite 100 Midland Texas 79701		
Receiving Laboratory	Eurofins Xenco	**Sampler Signature**	Joe Tyler
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR 2022 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol 8260B / 624	GC/MS Semi Vol 8270C/625	PCB s 8082 / 608	NORM	PLM (Asbestos)	Chloride 300 0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD
	B-5 (19'-20')	06/23/22	1806		x				x		1	N															X					
	B-5 (24 -25')	06/23/22	1810		x				x		1	N															X					
	B-5 (29'-30')	06/23/22	1826		x				x		1	N															X					
	B-5 (34'-35')	06/23/22	1836		x				x		1	N															X					
	B-5 (39'-40')	06/23/22	1840		x				x		1	N															X					
	B-5 (44'-45')	06/23/22	1856		x				x		1	N															X					
	B-5 (49'-50')	06/23/22	1900		x				x		1	N															X					

Relinquished by	Date	Time	Received by	Date	Time
Joe Tyler	6-24-22		[illegible]	6/24/22	15:27
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time

ORIGINAL COPY

LAB USE ONLY

Sample Temperature

REMARKS

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

(Circle) HAND DELIVERED FEDEX UPS Tracking # _____

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-16295-1
SDG Number: Eddy County New Mexico

Login Number: 16295
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 19, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: DODD FEDERAL UNIT 980 H

Enclosed are the results of analyses for samples received by the laboratory on 09/15/22 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	DODD FEDERAL UNIT 980 H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02757	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO NM		

Sample ID: BH - 6 (0-1) (H224288-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2022	ND	2.11	106	2.00	1.10	
Toluene*	<0.050	0.050	09/18/2022	ND	2.09	104	2.00	1.38	
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	2.03	101	2.00	1.60	
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.24	104	6.00	1.14	
Total BTEX	<0.300	0.300	09/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.1 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	09/19/2022	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	217	109	200	2.50	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	222	111	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane *62.1 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *70.5 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	DODD FEDERAL UNIT 980 H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02757	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO NM		

Sample ID: BH - 6 (2-3) (H224288-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2022	ND	2.11	106	2.00	1.10	
Toluene*	<0.050	0.050	09/18/2022	ND	2.09	104	2.00	1.38	
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	2.03	101	2.00	1.60	
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.24	104	6.00	1.14	
Total BTEX	<0.300	0.300	09/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.0 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	09/19/2022	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	217	109	200	2.50	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	222	111	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane *71.6 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *81.5 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	DODD FEDERAL UNIT 980 H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02757	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO NM		

Sample ID: BH - 6 (4-5) (H224288-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2022	ND	2.11	106	2.00	1.10	
Toluene*	<0.050	0.050	09/18/2022	ND	2.09	104	2.00	1.38	
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	2.03	101	2.00	1.60	
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.24	104	6.00	1.14	
Total BTEX	<0.300	0.300	09/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.2 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	09/19/2022	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	217	109	200	2.50	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	222	111	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane *80.3 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *91.0 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	DODD FEDERAL UNIT 980 H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02757	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO NM		

Sample ID: BH - 6 (6-7) (H224288-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2022	ND	2.11	106	2.00	1.10	
Toluene*	<0.050	0.050	09/18/2022	ND	2.09	104	2.00	1.38	
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	2.03	101	2.00	1.60	
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.24	104	6.00	1.14	
Total BTEX	<0.300	0.300	09/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.2 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	09/19/2022	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	194	97.2	200	4.44	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	202	101	200	8.10	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane *82.8 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *85.6 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	DODD FEDERAL UNIT 980 H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02757	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO NM		

Sample ID: BH - 6 (9-10) (H224288-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2022	ND	2.11	106	2.00	1.10	
Toluene*	<0.050	0.050	09/18/2022	ND	2.09	104	2.00	1.38	
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	2.03	101	2.00	1.60	
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.24	104	6.00	1.14	
Total BTEX	<0.300	0.300	09/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.2 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	09/19/2022	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	194	97.2	200	4.44	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	202	101	200	8.10	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane *73.1 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *74.9 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories
101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name:	ConocoPhillips	**BILL TO** P.O. #:	
Project Manager:	Christian Llull	Company:	Tetra Tech
Address:	christian.llull@tetratech.com	Attn:	Christian Llull
City:	State: Zip:	Address:	
Phone #:	Fax #:	City:	
Project #:	212C-MD-02757 Project Owner:	State: Zip:	
Project Name:	Dodd Federal Unit 980H	Phone #:	
Project Location:	Eddy County, NM	Fax #:	
Sampler Name:	Joe Tyler		

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH	BTEX	Chlorides
HZ24288																	
1	BH-6 (0-1)	G	1			X					X		9-14-22	1500	X	X	X
2	(2-3)	↓	↓			↓					↓		↓	1505	↓	↓	↓
3	(4-5)													1510			
4	(6-7)													1520			
5	(9-10)													1530			

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 9-15-22 Time: 1410	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	All Results are emailed. Please provide Email address: Christian
			REMARKS:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C -0.8 Corrected Temp. °C -1.4	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials) TO	Turnaround Time: ☐ Standard ☒ Rush Thermometer ID #113 Correction Factor -0.6°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.3 07/18/22

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

APPENDIX E
WELL APPLICATION AND RESERVE PIT INFORMATION

OIL CONS. COMMISSION
Drawer DD
Artesia, NM 88210

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

30-015-25705

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: LC-028731 (B)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER SINGLE ZONE [X] MULTIPLE ZONE [ ]

8. FARM OR LEASE NAME: M. Dodd "B"

2. NAME OF OPERATOR: Marbob Energy Corporation

9. WELL NO.: 60

3. ADDRESS OF OPERATOR: P.O. Drawer 217, Artesia, NM 88210

10. FIELD AND POOL, OR WILDCAT: Grbg Jackson SR Q Gb SA

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1650 FWL 330 FNL Ut. C
At proposed prod. zone: Same

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 10-T17S-R29E

RECEIVED BY
DEC 22 1986
O. C. D.
ARTESIA, OFFICE

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 20 air miles east of Artesia, NM 88210

12. COUNTY OR PARISH: Eddy

13. STATE: NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 330'

16. NO. OF ACRES IN LEASE: 1480

17. NO. OF ACRES ASSIGNED TO THIS WELL: 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: 467'

19. PROPOSED DEPTH: 5000'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 3592.2 GR

22. APPROX. DATE WORK WILL START*: 12/15/86

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24.0#	~~350'~~ 300	Sufficient to circulate
7 7/8"	5 1/2"	15.5#	5000'	1500 sax, to base of salt

per telecon w/ Denette Wallace 12/9/86
J.M.

Pay zone will be selectively perforated and stimulated as needed for optimum production.

Attached are:
1. Location & acreage dedication plat
2. Supplemental drilling data
3. Surface use plan

NEW MEXICO OIL CONSERVATION COMMISSION
RECEIVED
DEC 08 1986
Hobbs, New Mexico

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Denette Wallace TITLE Production Clerk DATE 12/05/86

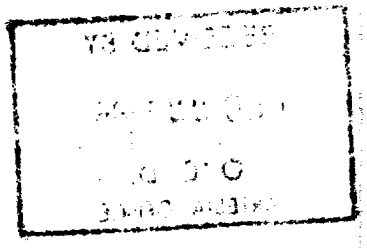
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE 12-19-86

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side



NE. MEXICO OIL CONSERVATION COMMISSIC

WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-1 .
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

Operator	Lease	Well No.
Marbob Energy Corporation	M. Dodd "B"	60

Unit Letter	Section	Township	Range	County
	10	17 South	29 East	Eddy

Actual Footage Location of Well:
1650 feet from the West line and 330 feet from the North line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage
3594.2	San Andres	Grbg Jackson SR Q Gb SA	40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

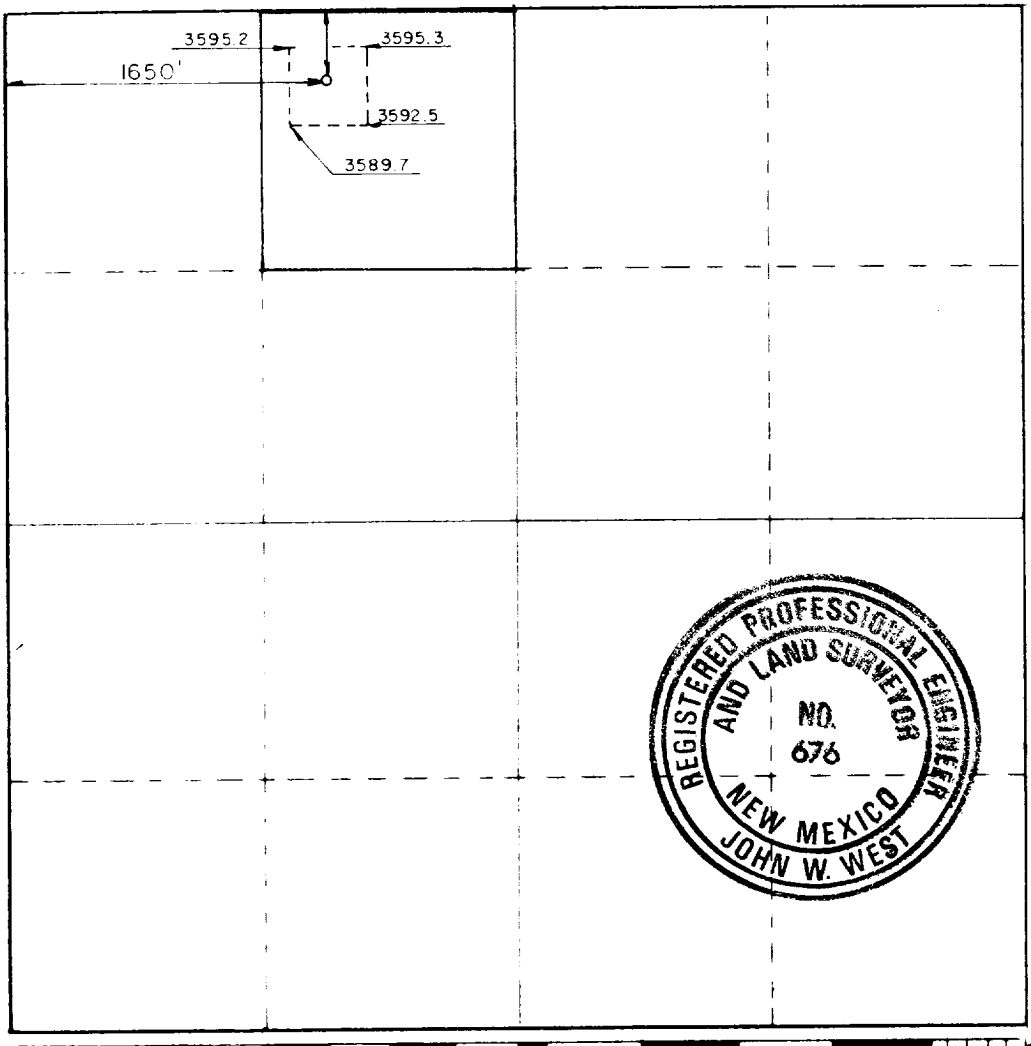
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

Yes No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

RECEIVED BY
DEC 22 1986
O. C. D.
ARTESIA, OFFICE



2640 2000 1500 1000 500 0

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

DeNette Wallace

Name
DeNette Wallace

Position
Production Clerk

Company
Marbob Energy Corporation

Date
12/05/86

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
December 3, 1986

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. JOHN W. WEST, 676
RONALD J. EIDSON, 3239

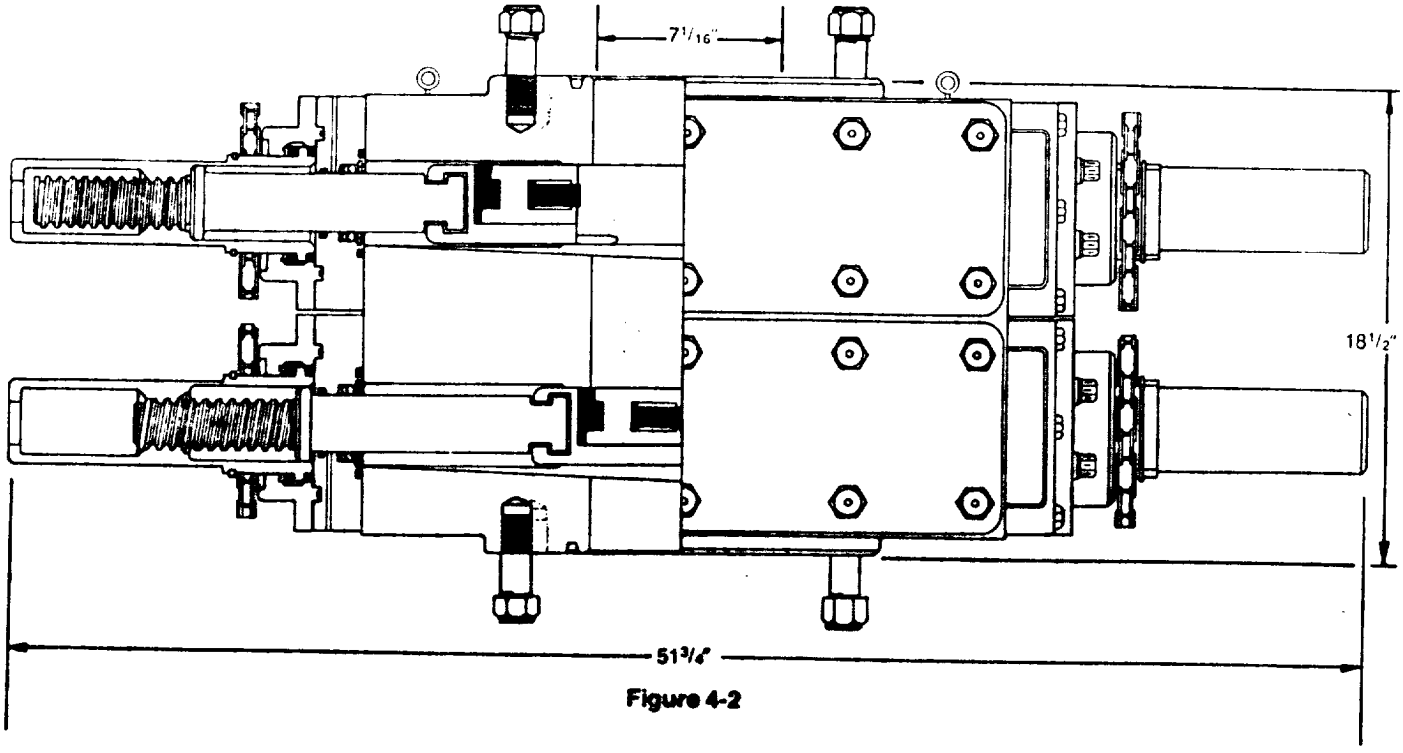


Figure 4-2

DIMENSIONS AND WEIGHTS

		Manual
Weight	Single (pounds)	1,272
	Double (pounds)	2,335
Overall height, less studs	Single (inches)	10
	Double (inches)	18 1/2
Overall length (inches)		51 3/4
Overall width, less handwheel (inches)		20 1/4
Opening through preventer (inches)		7 1/16
Working pressure (psi)		3,000
Test pressure (psi)		6,000
Handwheel diameter (inches)		20
Ring joint gasket API number		R-45

SUP Exhibit "E"

Sketch of BOP
Marbob Energy Corporation
M. Dodd "B" No. 60 Federal
NE1/4NW1/4 Sec. 10-17S-29E

SUPPLEMENTAL DRILLING DATA

MARBOB ENERGY CORPORATION
WELL #60 M. DODD "B" FEDERAL
NE1/4NW1/4 SEC. 10-17S-29E
EDDY COUNTY, NEW MEXICO
(DEVELOPMENT WELL)

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Salt	360'	Queen	1815'
Base Salt	780'	Grayburg	2140'
Yates	930'	San Andres	2510'
Seven Rivers	1145'	Glorietta	3900'

3. ANTICIPATED POROSITY ZONES:

Water	Above 180'
Oil	2350 - 5,000'

4. CASING DESIGN:

SIZE	INTERVAL	WEIGHT	GRADE	JOINT	CONDITION
8 5/8"	0-350'	24.0#	K-55	STC	New
5 1/2"	0-5,000'	15.5#	K-55	STC	New

5. SURFACE CONTROL EQUIPMENT: A double ram-type BOP will be used. (See diagram attached as Exhibit "E")

6. CIRCULATING MEDIUM:

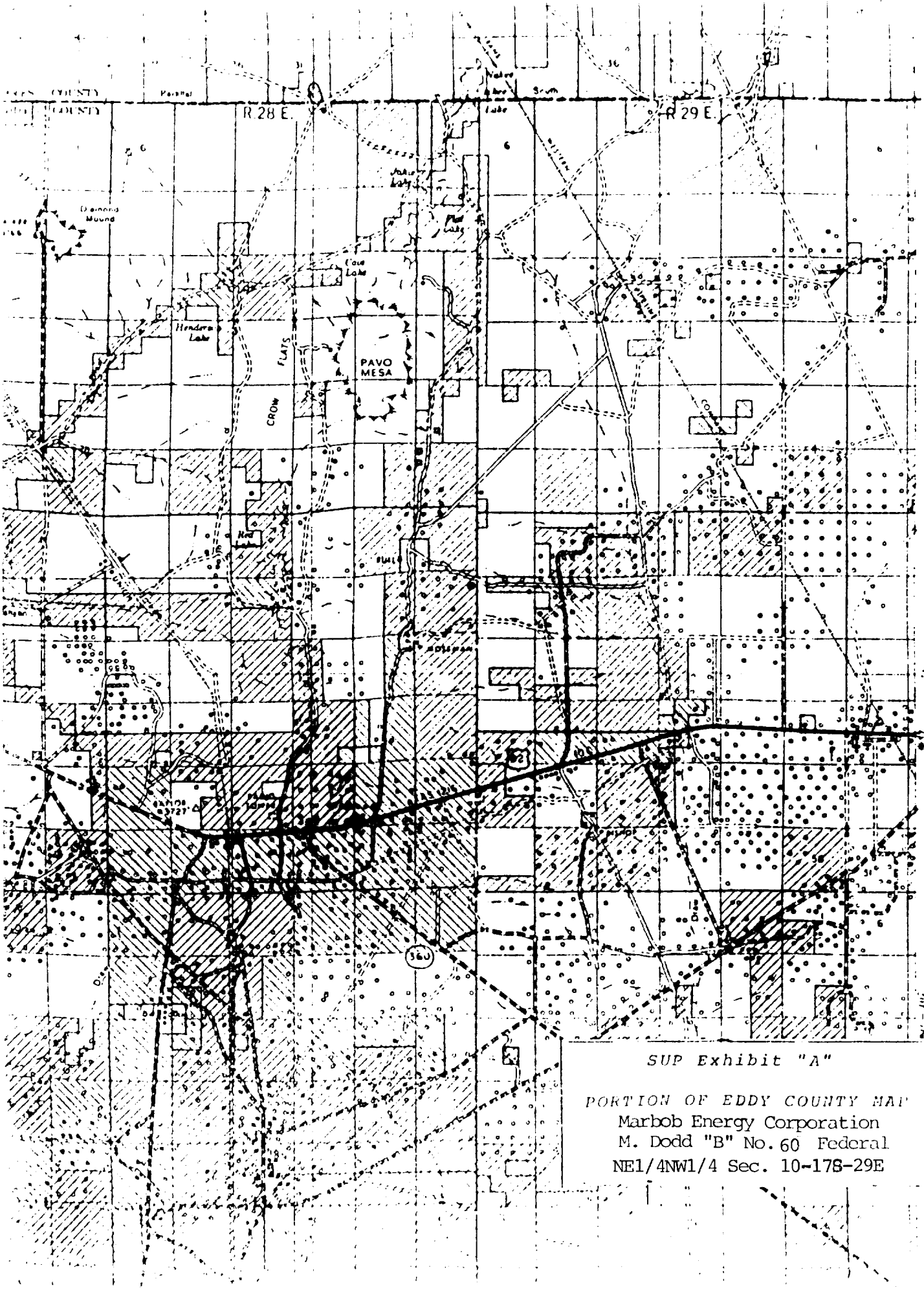
0 - 350'	Fresh water mud with gel or lime as needed for viscosity control.
350'- 5,000'	Salt water mud, conditioned as necessary for control of viscosity and water loss or gain.

7. AUXILIARY EQUIPMENT: Drill string safety valve.

8. LOGGING PROGRAM: CNL-FDC W/GR Log will be run to TD.

9. ABNORMAL PRESSURES, TEMPERATURES OR GASES: A water flow may be encountered in the salt section.

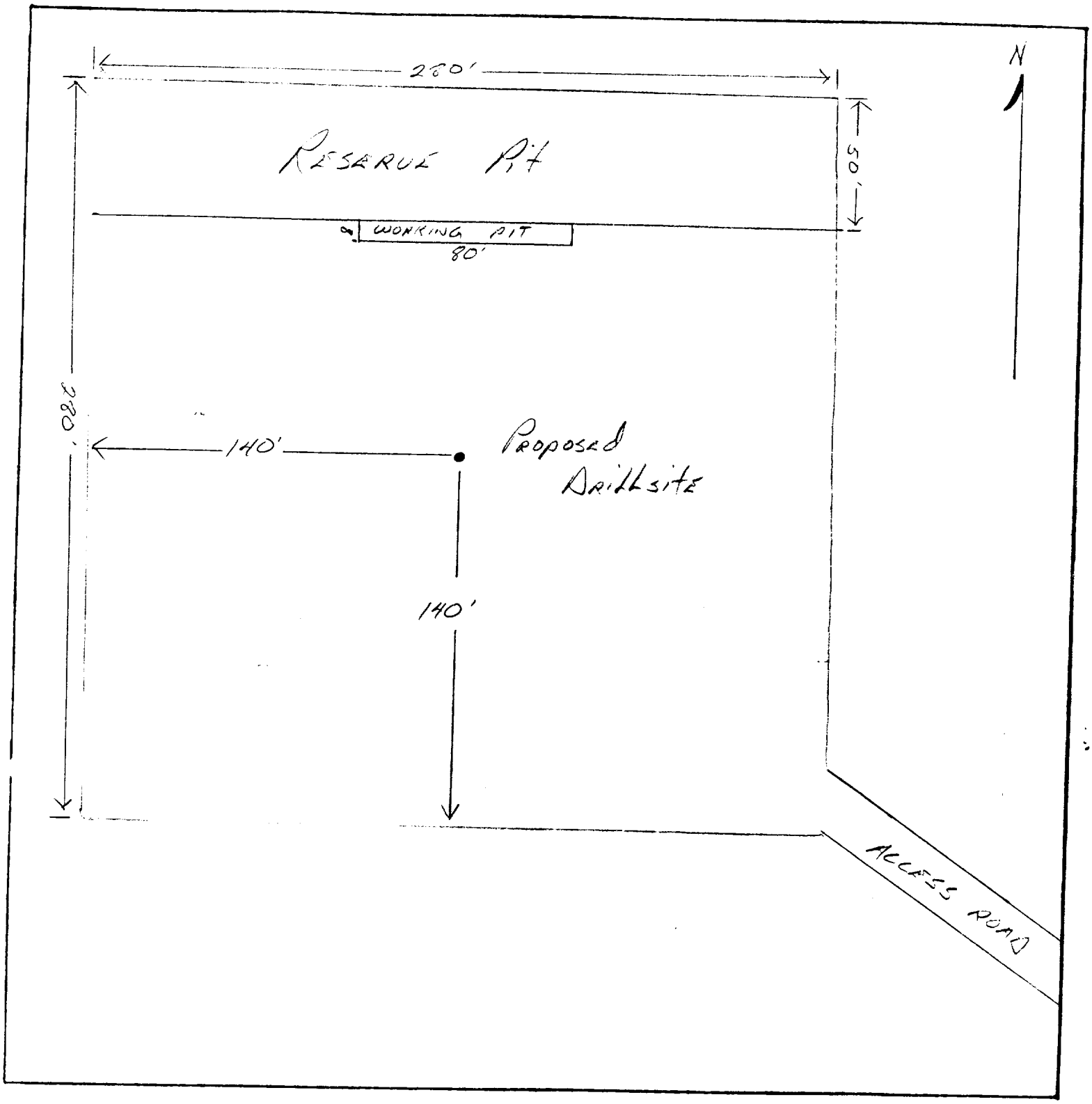
10. ANTICIPATED STARTING DATE: It is planned that operations will commence about December 15, 1986. Duration of drilling, testing and completion operations should be one to four weeks.



SUP Exhibit "A"

PORTION OF EDDY COUNTY MAP

Marbob Energy Corporation
M. Dodd "B" No. 60 Federal
NE1/4NW1/4 Sec. 10-17S-29E



LEGEND

1 cm = 20 ft.

SUP Exhibit "D"

SKETCH OF PROPOSED WELL PAD

Marbob Energy Corporation
M. Dodd "B" No. 60 Federal
NE1/4NW1/4 Sec. 10-17S-29E

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 154437

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 154437
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Deferral Request Approved. When completing P&A, please complete delineation to the northeast, east, and southeast. After P&A and during on pad reclamation, you may have to remediate impacted soils deeper than 4' due to the high karst terrain at this site.	11/22/2022