SITE INFORMATION Report Type: Closure Report 1R-4690 / nOY1712541751

General Site Information:													
Site:	Manda B T	ract C Tank Batte	∍ry										
Company:	JR Oil												
Section, Township and Range	Unit C	Sec. 28	T 22S	R 37E									
Lease Number:													
County:	Lea County	Lea County, NM											
GPS:		32.368859			-103.1	169723							
Surface Owner:	Private												
Mineral Owner:	Private												
Directions:	From intersection of HWY 18 and King Rd, head West on King Rd and follow for 0.56 miles. Turn right (North) on lease road and follow for 0.48 miles. Location is on left												

Release Data:	
Date Released:	4/26/2017
Type Release:	Oil and Produced Water
Source of Contamination:	Failed Check Valve
Fluid Released:	4 bbls oil & 10 bbls water
Fluids Recovered:	4.5 bbls oil & water

Official Commun	nication:	
Name:	Joe Tippy	Clair Gonzales
Company:	JR OIL LTD	Tetra Tech
Address:	PO Box 2975	901 W. Wall St.
		Ste 100
City:	Hobbs, New Mexico 88241	Midland, Texas, 79701
Phone number:	(575) 390 - 1280	(432) 682-4559
Fax:		
Email:	JoeTippy@valornet.com	clair.gonzales@tetratech.com

Site Characterization	
Depth to Groundwater:	At 0.50 miles from site depth of groundwater is 60.46' ft, 02.09.2023, USGS
Karst Potential:	Low

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



June 18, 2024

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

RE: Remediation Closure Report JR Oil LTD Manda B Tract C Tank Battery Lea County, New Mexico 1R-4690 nOY1712541751

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contracted by JR Oil LTD (JR Oil) to assess a release that occurred at the Manda B Tract C Battey Tank, Unit C, Section 28, Township 22 South, Range 37 East, Lea County, New Mexico (Site). The spill site coordinates are 32.368859°, -103.169723°. The site location is shown on **Figures 1 and 2**.

Background

According to the State of New Mexico C-141 Initial Report, the release at the Site was caused by a leak in a check valve on the water line of the Rice SWD failing, causing the release of 4 barrels (bbls) of oil and 10 bbls of produced water. The release impacted the pad, flowing alongside the lease road and migrated into the adjacent pasture to the south. Additionally, 4.5 bbls of oil and produced water were recovered from the release. On April 26, 2017, the release was discovered. On April 27, 2017, the release was reported to the New Mexico Oil Conservation Division (NMOCD). The C-141 is shown in **Appendix A**.

Previous Closed Incident

The current release overlapped the remediation area of a previously approved closure that contained a liner at 2.0 feet below ground surface (ft bgs). According to the New Mexico C-141 Initial Reports, two releases occurred on dates March 17, 2014 and May 20, 2014, where fluids were released from a overflown tank. A total of 40 bbls of mixed fluids and 30 bbls of produced water were released. According to the previously approved closure, which was written by a previous consultant, excavation activities took place from dates March 23, 2015, through March 27, 2015, where the areas of impact were excavated to a depth of 2.0 ft bgs in an area approximately 40.0 ft in length and 45.0 ft in width, west of the battery. Within the 2.0 ft excavation, a liner was installed with approximately dimension of 32.0 ft in length by 14.0 ft in width. Additionally, an area of approximately 75.0 ft in length and 10.0 ft in width was excavated to a total depth of 4.0' ft bgs south of the battery alongside the lease road. On April 24, 2015, the closure was approved by the New Mexico Oil conservation Division (NMOCD). The liner location within the current excavation is shown on **Figure 4**, and the previous closure report is shown in **Appendix B**.



Site Characterization

Significant Water Features

According to the NFHL (National Flood Hazard Layer) Flood Data Application and the USGS (United States Geological Survey) National Water Information System Mapper, there were no watercourses, lakebeds, sinkholes, playa lakes, springs, wetlands, subsurface mines, private domestic water wells, or floodplains located within the specified distances. Additionally, the site is located in a low karst area. The NFHL Map, USGS Mapper, and Karst map are shown in **Appendix C**.

Significant Boundaries

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

Groundwater Review

Groundwater research was completed for the site through the USGS (United States Geological Survey) National Water Information System and New Mexico Office of the State Engineer (NMOSE) Water Rights Reporting System. Groundwater research conducted through these two resources, show the three closest water wells within a .55-mile radius of the Site. The well reported on the USGS National Water Information System reports a total depth of 112 ft bgs and measured water level of 60.46 ft bgs and is approximately 0.50 miles of the Site. The well reported on the USGS National Water Information System reports a total depth of 140 ft bgs and measured water level of 62 ft bgs and is approximately 0.50 miles of the Site. The well reported on the NMOSE Water Rights Reporting Systems reports a water level measured at 94.35 ft bgs and is approximately 0.52 miles of the Site. The groundwater information is shown in **Appendix C**.

	Distance from Site	Date of Data	Resource of Information	Depth of Well	Depth to Water
	0.50 Miles	02/09/2023	USGS	112'	60.46'
ſ	0.50 Miles	09/01/1953	USGS	140'	62.00'
ĺ	0.52 Miles	09/25/1972	NMOSE	110'	65.00'

Regulatory

A risk-based evaluation was performed for the site following the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases, updated July 18, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram



(mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the site characterization, the proposed RRAL for TPH, beyond the top 4.0' of soil, is 2,500 mg/kg (GRO + DRO + ORO) and 1,000 mg/kg (DRO + GRO). Additionally, based on the site characterization, the proposed RRAL for chlorides, beyond the top 4.0' of soil, is 10,000 mg/kg.

Site Assessment Activities

Initial Site Assessment Activities

Tetra Tech conducted site assessment activities on October 18, 2023. A total of six (6) investigative bores (AH-1 through AH-6) were installed to depths ranging from surface to 4.5 ft bgs, to attempt to assess soil in the area. Deeper samples were not collected from investigative bores (AH-2, AH-3, AH-4, and AH-6) due to dense geological formation. Additionally, a total of eight (8) investigative surface bores (H-1 through H-8) were installed to total depths of 1.0 ft bgs, to horizontally delineate the investigative area. The investigative area and sample locations are shown on **Figure 3**.

The samples were submitted to Eurofins Laboratories in Midland, Texas and Cardinal Laboratories in Hobbs, New Mexico to be analyzed for TPH by method 8015 modified, BTEX by method 8021B, and Chloride by EPA Method 300.0 or Method SM 4500. The analytical results are summarized in **Table 1** and the analytical laboratory reports are included in **Appendix D**.

Referring to Table 1, investigative bore (AH-2) indicated a chloride concentration above reclamation standards, with a concentration of 621 mg/kg, at a depth of 2-2.5 ft bgs. investigative bores (AH-1 – AH-6) indicated TPH concentrations to be above RRALs, with concentrations ranging from 132 mg/kg to 13,593 mg/kg, at depths ranging from surface to 4.5 ft bgs. Investigative bores (AH-1 through AH-6) indicated benzene and BTEX concentrations below RRALs. Additionally, investigative surface borings (H-1 through H-8) indicated chloride, TPH, benzene, and BTEX concentrations below RRALs.

Additional Site Assessment Activities

On January 31, 2023, a total of five (5) delineation trenches (T-1, T-2, T-3, T-4 and T-5) were installed to total depths of 4.0 ft bgs in areas of investigative bores (AH-2, AH-3, AH-4, AH-5, and AH-6), where auger refusal was encountered during the initial delineation assessment activities, to attempt to fully delineate the release impacted area. The impact and sample locations are shown on **Figure 3**.

The samples were submitted to Eurofins Laboratories in Midland, Texas and Cardinal Laboratories in Hobbs, New Mexico to be analyzed for TPH by method 8015 modified, BTEX by method 8021B, and Chloride by EPA Method 300.0 or Method SM 4500. The analytical results are summarized in **Table 1** and the analytical laboratory reports are included in **Appendix D**.

Referring to Table 1, vertical delineation trenches (T-1 through T-5) indicated benzene, BTEX, and chloride concentrations below RRALs. However, trenches (T-1 through T-5) indicated TPH concentrations above RRALs, ranging from 132 mg/kg to 2,790 mg/kg at depths



ranging from surface to 4.0 ft bgs. Vertical delineation was found in all trenches (T-1 through T-5) for all constituents.

Remediation Activities

JR Oil conducted remediation activities from January 31, 2024 to March 29, 2024. The areas of determined impact were excavated to total depths ranging from 2.0 ft bgs to 4.0 ft bgs. The excavation areas and depths are shown on **Figure 4.** Remediation activities included the careful removal and proper disposal of the top 2.0 ft of soil from the previously approved liner from approved closure report dating April 24, 2015.

Following remediation activities, Tetra Tech conducted confirmation sampling by collecting 5-point composite bottom hole samples and 5-point composite sidewall samples every 200 square feet within the remediation. All confirmation samples are collected as a composite 5-point die pattern to ensure a representative sample of sidewalls and floor of the excavation are collected. Additionally, a C-141N was filed for the sampling notification as well, and is attached along with the final C-141 in **Appendix A**. A total of thirteen (13) bottom holes (BH-1 through BH-13) were collected and a total of twenty (20) sidewalls (SW-1 through SW-20) were collected to confirm full removal of the impacted soil. The confirmation soil samples were submitted to the Cardinal Laboratory in Hobbs, New Mexico to be analyzed for TPH by method 8015 modified, BTEX by method 8021B, and Chloride by EPA Method 300.0 and EPA Method 4500. The analytical results are summarized in **Table 2** and the analytical laboratory reports are included in **Appendix D**.

Regarding all final samples collected from the remediation, analytical results indicated benzene, BTEX, TPH, and chloride concentrations were below the RRALs.

Conclusions

Based on the C-141's (nOY1712541751) and information provided by JR Oil, Tetra Tech performed site characterization and groundwater research to determine groundwater depth, proximity from significant water features, and proximity from specified populated entities to determine RRALs and assess the impacted area. Based on the OCD *Guidelines for Remediation of Leaks, Spills, and Releases*, updated July 18, 2023, according to the groundwater data found during research activities, for soil beyond the top 4.0 ft, RRALs of 10,000 mg/kg for chlorides and 2,500 mg/kg for total TPH were followed. Based on Tetra Tech assessment activities, investigative bores (AH-1 through AH-6) indicated TPH concentrations that exceeded RRALs and required additional delineation and remediation.

Following remediation of the areas of impact, Tetra Tech conducted confirmation soil sampling of the area by collecting 5-point composite confirmation bottom hole and sidewall samples to ensure the impacted soil was fully removed. Approximately 631 cubic yards total of impacted soil was removed and properly disposed of. The area was backfilled with clean to surface grade material. The analytical results indicated all confirmation samples reported below the RRALs for all constituents.



The disturbed area was approximately 4,800 square feet and following backfill of the disturbed area, the site was seeded for sites with loamy fine sand to sandy clay loam soil composition. Revegetation of the site will be monitored, following the rain season (March through June) and if vegetation has not progressed, the site will be reseeded as needed to meet the requirement of 50 percent life-form coverage and at least 70 percent plant cover based on pre-disturbed levels, as stated by the NMOCD. Following the proper vegetation of the site, a vegetation report will be submitted to prove restoration of the site and will request full closure. The soil survey data is shown **Appendix E**.

Based on this information, it is recommended that the remediated pad at this Site requires no further action. The C-141 is included in **Appendix A**.

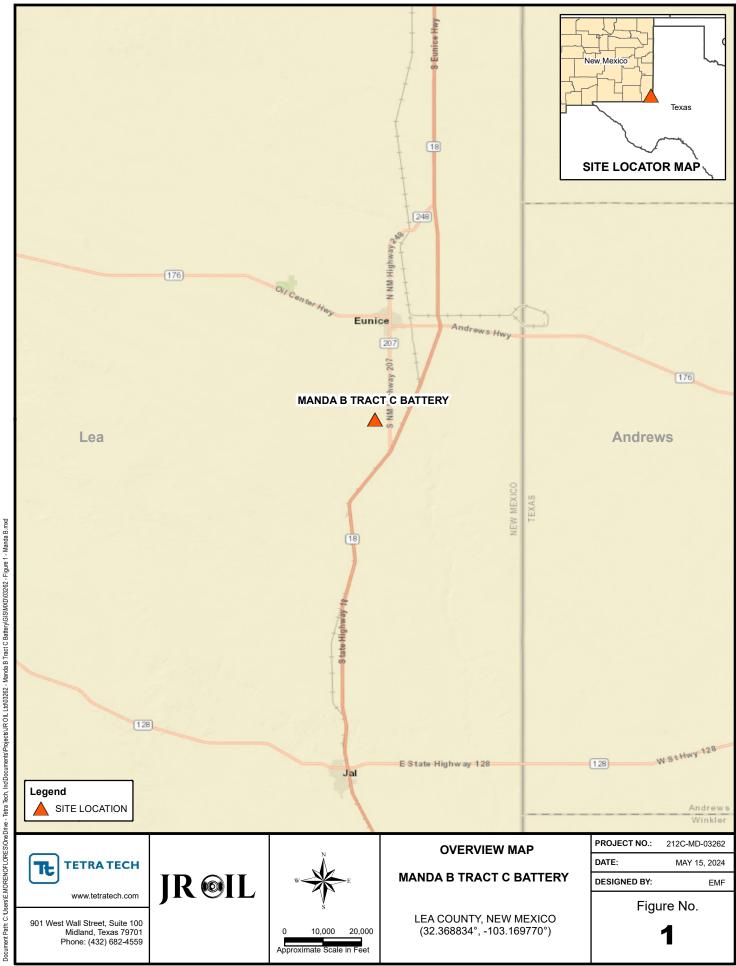
If you require any additional information or have any questions or comments, please contact us at (432) 682-4559.

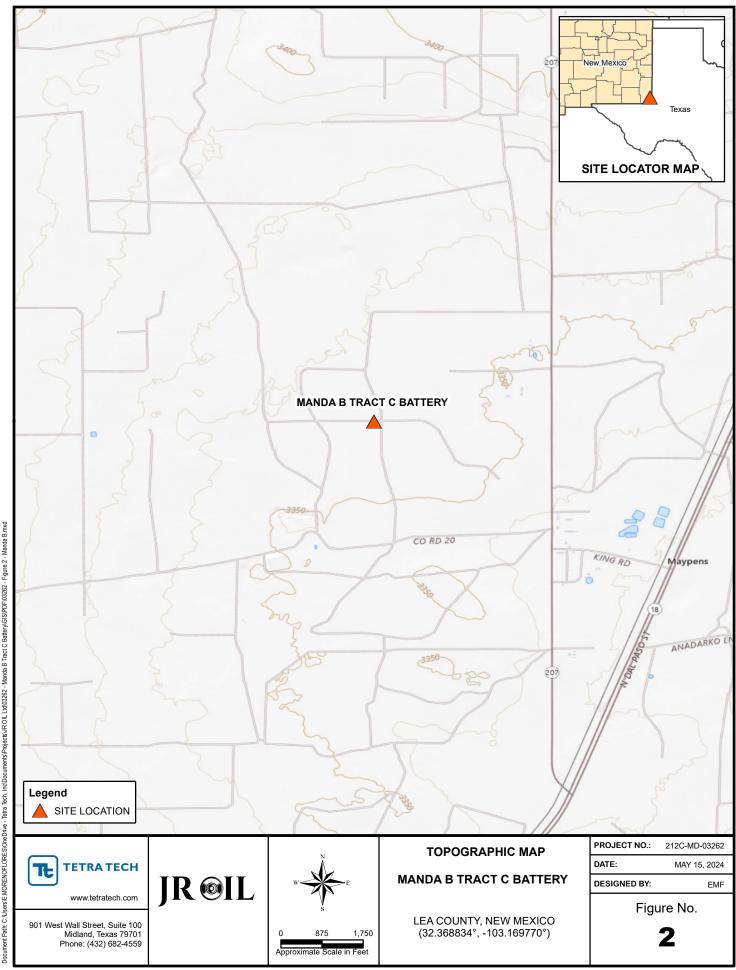
Respectfully submitted, TETRA TECH

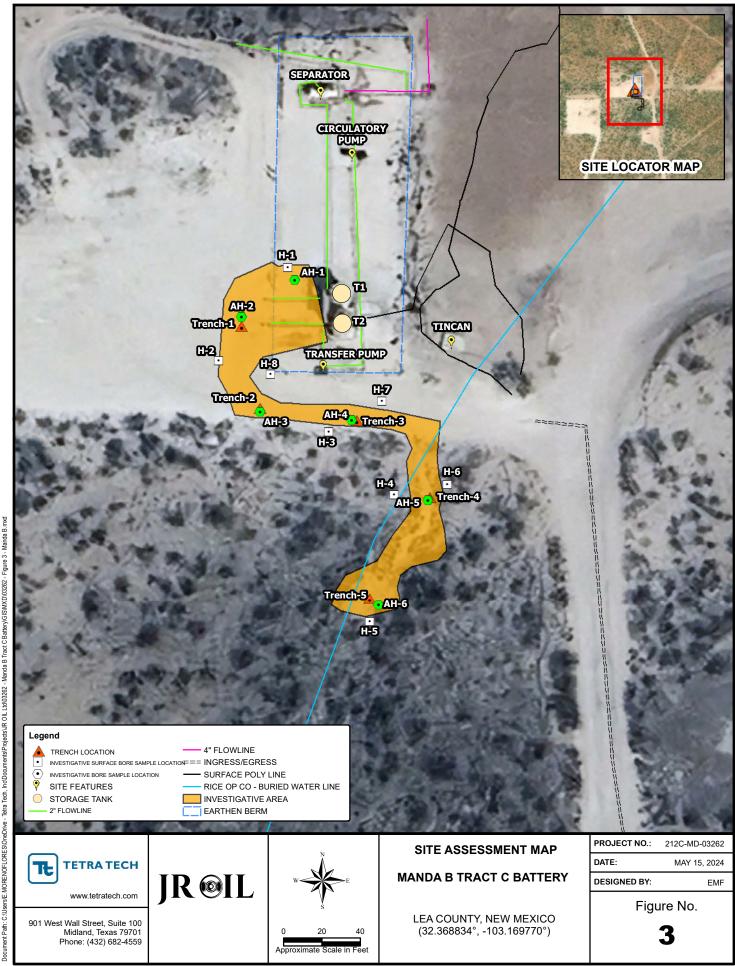
Miguel Flores, Field Tech IV Brittany Long, Project Manager Clair Gonzales, P.G. Senior Project Manager



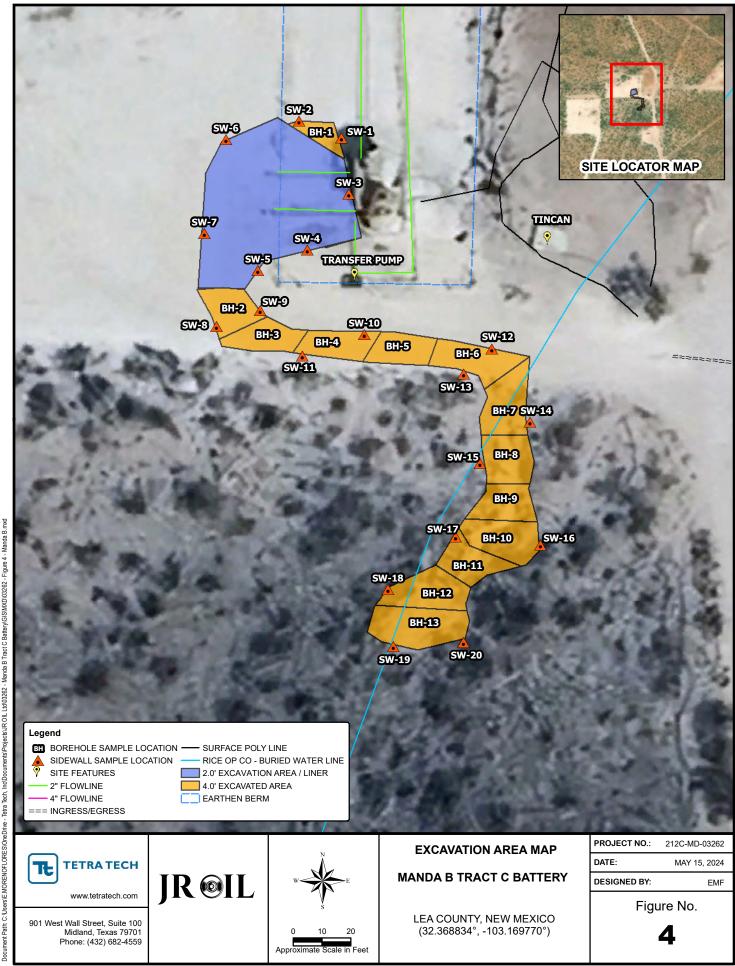
Figures







Service Layer Credits: Google Maps, 2023.



Service Layer Credits: Google Maps, 2023.



Tables

Table 1 JR Oil LTD Manda B Tract C Battery Lea County, New Mexico

Released to Imaging: 3/7/2025 1:18:59 PM

		0	Soil	Status		TPH (mg/kg)		D	T-1	P45.5.5	V.d	T-4-I DTEV	Chloride
Sample ID	Sample Date	Sample Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	(mg/kg)
RRALs								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
RRALs (Beyond Top 4.0' of Soil)					1,000	mg/kg		2,500 mg/kg	10 mg/kg				50 mg/kg	10,000 mg/kg
	10/18/2023	0-1	•	Х	<75.6	10,200	<75.6	10,200	<0.00383	<0.00454	<0.00563	<0.0101	<0.0101	49.5
	II .	1-1.5	•	Х	<15.2	5090	<15.2	5,090	<0.00383	<0.00453	<0.00562	<0.0100	<0.0100	44.1
AH-1	"	2-2.5	-	X	<15.0	4,400	<15.0	4400	<0.00384	<0.00455	<0.00564	<0.0101	<0.0101	92.8
	"	3-3.5	-	Х	<15.0	425	<15.0	425	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	249
	"	4-4.5	-	Х	16.9	272	<14.9	289	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	241
	10/18/2023	0-1	-	Х	<74.4	4,420	<74.4	4,420	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	234
AH-2	"	1-1.5	-	Х	82.2	5,160	<75.7	5,242	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	229
	"	2-2.5	-	Х	<15.1	724	<15.1	724	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	621
	1/31/2024	0-1	Х	-	<10.0	2,350	440	2,790	<0.050	<0.050	<0.050	<0.150	<0.300	208
Trench-1	"	2	Χ	-	<10.0	1,930	713	2,643	<0.050	<0.050	<0.050	<0.150	<0.300	352
rrench-r	"	3	Х	-	<10.0	1,880	904	2,784	<0.050	<0.050	<0.050	<0.150	<0.300	384
	"	4	Х	-	<10.0	296	158	454	<0.050	<0.050	<0.050	<0.150	<0.300	944
	10/18/2023	0-1	-	Х	<15.1	4,290	<15.1	4,290	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	94.9
AH-3	"	1-1.5	-	Х	<14.9	2,320	<14.9	2,320	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	154
	"	2-2.5	-	Х	22.2	166	<14.9	188	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	385
	1/31/2024	0-1	Х	-	<10.0	1,180	495	1,675	<0.050	<0.050	<0.050	<0.150	<0.300	352
Trench-2	"	2	Х	-	<10.0	893	382	1,275	<0.050	<0.050	<0.050	<0.150	<0.300	336
	"	3	Х	-	<10.0	990	358	1,348	<0.050	<0.050	<0.050	<0.150	<0.300	304
	"	4	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0

Table 1 JR Oil LTD Manda B Tract C Battery Lea County, New Mexico

Released to Imaging: 3/7/2025 1:18:59 PM

		Camania	Soil St			TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Videne	Total BTEX	Chloride
Sample ID	Sample Date	Sample Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	Xylene (mg/kg)	(mg/kg)	(mg/kg)
RRALs	-		II.					100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
RRALs (Beyond Top 4.0' of Soil)					1,000	mg/kg		2,500 mg/kg	10 mg/kg				50 mg/kg	10,000 mg/kg
	10/18/2023	0-1	-	Х	<75.3	6,940	<75.3	6,940	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	52.3
AH-4	"	1-1.5	-	Х	32.2	4,440	311	4,783	<0.00765	<0.00907	<0.0112	<0.0201	<0.0201	64.2
	"	2-2.5	-	Х	38.0	908	67.5	1,014	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	42.5
	1/31/2024	0-1	Х	-	<10.0	1,730	673	2,403	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
Tuonah 2	"	2	Х	-	<10.0	45.4	39.8	85.2	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
Trench-3	"	3	Х	-	<10.0	294	222	516	<0.050	<0.050	<0.050	<0.150	<0.300	304
	"	4	Х	-	<10.0	683	257	940	<0.050	<0.050	<0.050	<0.150	<0.300	240
	10/18/2023	0-1	-	Х	38.5	1,780	241	2,060	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	44.1
	"	1-1.5	-	Х	22.3	1,360	214	1,596	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	77.2
AH-5	"	2-2.5	-	Х	<15.1	1,350	167	1,517	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	255
	"	3-3.5	-	Х	21.4	1,260	127	1,408	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	516
	"	4-4.5	-	Х	40.9	3,650	219	3,910	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	540
	1/31/2024	0-1	Х	-	<10.0	140	67.0	207	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
Townsh 4	"	2	Х	-	<10.0	48.1	27.8	75.9	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Trench-4	"	3	Х	-	<10.0	361	234	595	<0.050	<0.050	<0.050	<0.150	<0.300	160
	"	4	Х	-	<10.0	123	62.1	185	<0.050	<0.050	<0.050	<0.150	<0.300	192
	10/18/2023	0-1	-	Х	33.4	2,100	307	2,440	<0.000387	<0.000459	0.000958	<0.00102	0.000958	37.7
ALL C	"	1-1.5	-	Х	31.5	800	143	975	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	58.5
AH-6	"	2-2.5	-	Х	26.9	67.0	<15.1	93.9	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	52.1
	"	3-3.5	-	Х	163	12,100	1,330	13,593	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	189
	1/31/2024	0-1	Х	-	<10.0	58.6	20.4	79.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Trench-5	"	2	Х	-	<10.0	91.7	39.8	132	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	3	Х	-	<10.0	51.3	26.4	77.7	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	4	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0

Table 1 JR Oil LTD Manda B Tract C Battery Lea County, New Mexico

		0	Soil	Status		TPH (mg/kg)		D	T-1	P41.1.1	Volume	T-4-I DTEV	Chloride (mg/kg)
Sample ID	Sample Date	Sample Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	
RRALs								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
RRALs (Beyond Top 4.0' of Soil)					1,000	mg/kg		2,500 mg/kg	10 mg/kg				50 mg/kg	10,000 mg/kg
H-1	10/18/2023	0-1	Х	-	24.2	15.4	<14.9	39.6	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	69.2
H-2	10/18/2023	0-1	Х	-	19.0	38.3	<15.2	57.3	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	38.3
H-3	10/18/2023	0-1	Х	-	21.4	37.3	<15.1	58.7	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	32.6
H-4	10/18/2023	0-1	Х	-	19.9	61.8	<15.0	81.7	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	36.3
H-5	10/18/2023	0-1	Х	-	21.6	21.2	<14.9	42.8	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	23.3
H-6	10/18/2023	0-1	Х	-	22.8	15.5	<14.9	38.3	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	33.0
H-7	10/18/2023	0-1	Х	-	21.3	74.6	<15.0	95.9	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	37.9
H-8	10/18/2023	0-1	Х	-	18.8	63.8	<15.0	82.6	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	94.6

NOTES

RRALs (Recommended Remediation Action Levels) are based on NMOCD (New Mexico Oil Conservation Devision) Guidelines for Remediation of Leaks, Spills, and Releases. All screening values and results are presented in milligrams per kilogram (mg/kg)

Bolded cells represent a detected concentration above the respective screening value.

< = analyte was not detected above the respective sample detection limit

ft = feet below ground surface

(-) = not analyzed for respective constituent

TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, xylene

Exceedance

Table 2 JR Oil LTD Manda B Tract C Battery Lea County, New Mexico

Released to Imaging: 3/7/2025 1:18:59 PM

		Samula	Soil Status			TPH (mg/kg)		D	Talasas	Ethlish annua	Videns	Tatal DTEV	Chloride
Sample ID	Sample Date	Sample Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	(mg/kg)
RRALs								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
RRALs (Beyond Top 4.0' of Soil)					1,000	mg/kg		2,500	10				50	10,000
BH-1	3/6/2024	4.0	Х	-	<10.0	190	35.2	mg/kg 225	mg/kg <0.050	<0.050	<0.050	<0.150	mg/kg <0.300	mg/kg 544
BH-2	3/6/2024	4.0	Х	-	<10.0	901	199	1100	<0.050	<0.050	<0.050	<0.150	<0.300	2000
BH-3	3/6/2024	4.0	Х	-	<10.0	761	167	928	<0.050	<0.050	<0.050	<0.150	<0.300	1760
BH-4	3/6/2024	4.0	Х	-	<10.0	906	198	1104	<0.050	<0.050	<0.050	<0.150	<0.300	1790
BH-5	3/6/2024	4.0	Х	-	<10.0	143	90.5	234	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
BH-6	3/6/2024	4.0	Х	-	<10.0	164	92.1	256	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
BH-7	3/6/2024	4.0	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
BH-8	3/6/2024	4.0	Х	-	<10.0	226	152	378	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
BH-9	3/6/2024	4.0	Х	-	<10.0	669	162	831	<0.050	<0.050	<0.050	<0.150	<0.300	480
BH-10	3/6/2024	4.0	Х	-	<10.0	892	209	1,101	<0.050	<0.050	<0.050	<0.150	<0.300	448
BH-11	3/6/2024	4.0	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
BH-12	3/6/2024	4.0	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
BH-13	3/6/2024	4.0	Х	-	<10.0	282	53.4	335	<0.050	<0.050	<0.050	<0.150	<0.300	368
SW-1	3/6/2024	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-2	3/6/2024	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-3	3/6/2024	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-4	3/6/2024	-	-	Х	<10.0	2,270	484	2,754	<0.050	<0.050	<0.050	<0.150	<0.300	272
	3/29/2024	-	Х	-	<10.0	34.8	<10.0	34.8	<0.050	<0.050	<0.050	<0.150	<0.300	288
SW-5	3/6/2024	-	-	Х	<10.0	3,060	731	3,791	<0.050	<0.050	<0.050	<0.150	<0.300	160
	3/29/2024	-	Х	-	<10.0	36.9	11.7	48.6	<0.050	<0.050	<0.050	<0.150	<0.300	256
SW-6	3/6/2024	-	-	Х	<10.0	270	75.6	346	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
	3/29/2024	-	Х	-	<10.0	17.2	<10.0	17.2	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-7	3/6/2024	-	Х	-	<10.0	94	<10.0	94	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-8	3/6/2024	-	Х	-	<10.0	66.7	<10.0	66.7	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-9	3/6/2024	-	Х	-	<10.0	23.8	<10.0	23.8	<0.050	<0.050	<0.050	<0.150	<0.300	48.0

Received by OCD: 2/14/2025 3:54:39 PM

Table 2 JR Oil LTD Manda B Tract C Battery Lea County, New Mexico

		Sample	Soil	Status		TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
RRALs								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
RRALs (Beyond Top 4.0' of Soil)					1,000	mg/kg		2,500 mg/kg	10 mg/kg				50 mg/kg	10,000 mg/kg
SW-10	3/6/2024	-	Х	-	<10.0	68.7	<10.0	68.7	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-11	3/6/2024	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-12	3/6/2024	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-13	3/6/2024	-	Х	-	<10.0	29	<10.0	29	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-14	3/6/2024	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-15	3/6/2024	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-16	3/6/2024	-	-	Χ	<10.0	1140	269	1409	<0.050	<0.050	<0.050	<0.150	<0.300	112
	3/29/2024	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-17	3/6/2024	-	-	Х	<10.0	1,390	336	1,726	<0.050	<0.050	<0.050	<0.150	<0.300	176
	3/29/2024	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-18	3/6/2024	-	-	Х	<10.0	1130	276	1406	<0.050	<0.050	<0.050	<0.150	<0.300	128
317- 10	3/29/2024	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-19	3/6/2024	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-20	3/6/2024	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0

RRALs (Recommended Remediation Action Levels) are based on NMOCD (New Mexico Oil Conservation Devision) Guidelines for Remediation of Leaks, Spills, and Releases. All screening values and results are presented in milligrams per kilogram (mg/kg)

Bolded cells represent a detected concentration above the respective screening value.

< = analyte was not detected above the respective sample detection limit

ft = feet below ground surface

(-) = not analyzed for respective constituent

TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, xylene

Exceedance Removed



Photographic Documentation



Photo 1 - Remediation Activities - View South



Photo 2 - Remediation Activities - View North-west





Photo 3 - Remediation Activities - View South-west



Photo 4 - Remediation Activities - View North





Photo 5 - Remediation Activities - View West



Photo 5 - Remediation Activities - View North-west





Photo 6 - Remediation Activities - View East





Appendix A

C-141 Document

State of New Mexico **Energy Minerals and Natural Resources**

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 S. St. Fran	cis Dr., Santa	a Fe, NM 87505		Sa	nta Fe	, NM 875	05							
·			Rele	ase Notific	ation	and Co	rrective A	ction						
						OPERAT	OR		✓ Initia	l Report		Final Report		
Name of Co		OXY USA I					ASEY L SUM!							
		294; HOUS'				relephone N								
Facility Nar	me MAI	NDA B TRA	CICBA	TTERY		Facility Typ	e BATTERY		-					
Surface Ow	ner PRI	VATE		Mineral C	wner	PRIVATE		API	No. 30-02	5-25438 (closest	well)		
				LOCA	TION	OF REI	LEASE							
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/\	West Line	County				
С	28	22S	37E								LEA			
				ituda 22 2699	50 I a	raituda 1	12 160712 NI	1002	•		*******			
	Latitude_ 32.368859_ Longitude103.169723_ NAD83 NATURE OF RELEASE													
Type of Rele	ace OII	& PRODUCE	D WATEI		UKŁ	Volume of			Volume R	ecovered				
Type of Refe	asc OIL	z i kobocii				1	L / 10 BBLS PW	7	4.5 BBLS					
Source of Re	lease CH	ECK VALVE	ON WAT	TER LINE		Date and H 4-26-2017	our of Occurrenc	e	Date and I 4-26-2016	lour of Dis	covery			
Was Immedia	ate Notice C	Given?				If YES, To	Whom?		4-20-2010					
			Yes	No Not Re	equired		U-NMOCD;							
By Whom?		SUMMERS					our 4-27-2017							
Was a Water	course Read		Yes 🗵	No		If YES, Volume Impacting the Watercourse.								
If a Watercou	urse was Im	pacted, Descri	be Fully.)										
						RECI	IVED							
						By Oli	via Yu at 1	11:28	am, M	ay 05,	2017	7		
Describe Co.	rea of Probl	em and Reme	dial Action	n Taken *										
Leak was due truck.	e to a check	valve on the	water line	to the Rice SWD	failing.	Valve has be	en repaired. App	roxima	ely 4.5 bbls	was recov	ered by	vacuum		
u uck.														
Describe Aus	- A 6C1A	d Cl	\ _4! T_1	#							· .			
Describe Are	a Allected	and Cleanup A	Action Tax	ten.*										
				round oil tank,										
(measurement approved by			ge with f	uture GPS track). Rem	ediation wil	l be completed	in acco	rdance wit	h a remed	iation	plan		
approved by	y the MMC	CD.												
I hereby cert	ify that the	information gi	ven above	is true and comp	lete to th	ne best of my	knowledge and u	ındersta	nd that nurs	uant to NM	OCD r	ules and		
regulations a	ll operators	are required t	o report ar	nd/or file certain r	elease n	otifications a	nd perform correct	ctive act	ions for rele	eases which	may e	ndanger 🧦		
				ce of a C-141 repo										
				tance of a C-141										
		ws ind/or regu			<u> </u>									
	77	Δ	_			OIL CONSERVATION DIVISION								
Signature:	1	1				.911								
Printed Nam	V CASE	Y L SUMME	25	<u> </u>		Approved by	Environmental S	pecialis	t:	17				
					+	5/5/2017								
Title: EN	VIRONME	NTAL ADVIS	OR		Approval Date: Expiration Date:									
T7						Canditions of	C A managed I			Attached	I 🖳	e c		

see attached directive

nOY1712541751

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _5/4/2017_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number __1R-_4690_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _6/5/2017_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us Received by OCD: 2/14/2025 3:54:39 PM Form C-141 State of New Mexico Page 3 Oil Conservation Division

	Page 27 of 243
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?		
Are the lateral extents of the release within a 100-year floodplain?		
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		
1		

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.

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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:	Date:	

Received by OCD: 2/14/2025 3:54:39 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC		
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)		
☐ Description of remediation activities		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Title: Title:		
Signature:	Date:	
email:	Telephone:	
OCD Only		
Received by:	Date:	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.		
Closure Approved by:	Date:	
Printed Name:	Title:	

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

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

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

QUESTIONS

Action 327202

QUESTIONS

ı	Operator:	OGRID:
ı	J R OIL, LTD. CO.	256073
ı	P.O. Box 53657	Action Number:
ı	Lubbock, TX 79453	327202
ı		Action Type:
ı		[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nOY1712541751
Incident Name	NOY1712541751 2017 MINOR A OS @ 30-025-25438
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-25438] MANDA #001

Location of Release Source	
Site Name	Unavailable.
Date Release Discovered	04/26/2017
Surface Owner	Private

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	1,600	
What is the estimated number of samples that will be gathered	8	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/29/2024	
Time sampling will commence	09:30 AM	
Please provide any information necessary for observers to contact samplers	Tetra Tech / 432-741-5813	
Please provide any information necessary for navigation to sampling site	From intersection of HWY 18 and King Rd, head West on King Rd and follow for 0.56 miles. Turn right (North) on lease road and follow for 0.48 miles. Location is on left.	

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District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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 327202

CONDITIONS

Operator:	OGRID:
J R OIL, LTD. CO.	256073
P.O. Box 53657 Lubbock, TX 79453	Action Number: 327202
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By		Condition Date
tetratech	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	3/27/2024

<u>District I</u> 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

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

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

QUESTIONS

Action 320643

QUESTIONS

ı	Operator:	OGRID:
ı	J R OIL, LTD. CO.	256073
ı	P.O. Box 53657	Action Number:
ı	Lubbock, TX 79453	320643
ı		Action Type:
ı		[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites						
Incident ID (n#)	nOY1712541751					
Incident Name	NOY1712541751 2017 MINOR A OS @ 30-025-25438					
Incident Type	Oil Release					
Incident Status	Initial C-141 Approved					
Incident Well	[30-025-25438] MANDA #001					

Location of Release Source					
Site Name	Unavailable.				
Date Release Discovered	04/26/2017				
Surface Owner	Private				

Sampling Event General Information						
Please answer all the questions in this group.						
What is the sampling surface area in square feet	4,399					
What is the estimated number of samples that will be gathered	39					
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/08/2024					
Time sampling will commence	08:05 AM					
Please provide any information necessary for observers to contact samplers	TetraTech/4327415813					
Please provide any information necessary for navigation to sampling site	From intersection of HWY 18 and King Rd, head West on King Rd and follow for 0.56 miles. Turn right (North) on lease road and follow for 0.48 miles. Location is on left.					

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CONDITIONS

Action 320643

CONDITIONS

Operator:	OGRID:
J R OIL, LTD. CO.	256073
P.O. Box 53657	Action Number:
Lubbock, TX 79453	320643
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created	y Condition	Condition Date
tetrate	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	3/6/2024



Appendix B

Previous Approved Closure (Previous Consultant)

Closure Report

RECEIVED

By OCD; Dr. Oberding at 11:07 am, Apr 24, 2015

APPROVED

By OCD; Dr. Oberding at 11:07 am, Apr 24, 2015

Site Description					
Site Name:	Manda B Tract C Tank Battery				
Company:	Oxy Permian Ltd.				
Legal Description:	U/L C, Section 28, T22S, R37E				
County:	Lea County, NM				
GPS Coordinates:	N 32.36877° W 103.16985°				

Release Data					
Date of Release:	03/17/2014 and 05/20/2014				
Type of Release:	Oil and produced water and Produced water				
Source of Release:	Tank overflow				
Volume of Release:	40 bbls mix and 30 bbls				
Volume Recovered:	0 bbls				

Remediation Specifications					
Remediation Parameters:	Excavate the areas around SP1, SP2, and SP3 to a depth of 2 feet. Then, place a liner in the excavation. Excavate the area around SP4 to a depth of 4 feet. Backfill the site with clean soil.				
Remediation Activities:	03/23/2015 to 03/27/2015				

Plan Sent to OCD:	10/21/2014	Email from Cliff Brunson to Tomas Oberding					
OCD Approval of Plan:	10/22/2014	Email from Tomas Oberding to Cliff Brunson					
Plan Sent to BLM:	n/a	n/a					
BLM Approval of Plan:	n/a	n/a					

Supporting Documentation					
Initial C-141	Signed 04/15/2014 and 06/02//2014				
Final C-141	Signed 04/21/2015				
Site Diagram	March 2014 and May 2014				
Groundwater Plot	50'-100'				
TOPO Maps	March 2014				
Lab Summary	04/15/2014-04/17/2015, 05/22/2014, and 08/28/2014				
Lab Analysis	04/15/2014-04/17/2015, 05/22/2014, and 08/28/2014				
Correspondence	Request and approval of remediation plan via email				

Request for Closure

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

04/22/2015

Received by OCD: 2/14/2025 3:54:39 PM

District I
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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

Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

			Rele	ease Notifi	cation	n and Co	orrective A	ction				
						OPERATOR Initial Report Fin					Final Repor	
Name of Company Oxy Permian Ltd.					Contact Chancey Summers							
Address 1017 W. Stanolind Rd, Hobbs, NM 88240 Facility Name Manda B Tract C Tank Battery					Telephone No. (575) 397-8216							
			Tank Ba	ittery		Facility Typ	oe Tank Batte	ry				
Surface Own	Surface Owner BLM Mineral Owner							API	No.			
LOCATION OF RELEASE												
Unit Letter						· · · · · · · · · · · · · · · · · · ·			West Line County			
C	28	22S	37E									
		225]				Lea Cou	nty, NN	1	
			I	Latitude <u>N 32.3</u>	<u>36877°</u>	Longitu	de <u>W 103.1698</u>	<u>5°</u>				
				NAT	TURE	OF RELI	EASE					
Type of Releas	se Oil ar	id Produced v	vater			Volume of		Volum	ne Recovered			
Source of Rele	ease Wat	er dump on s	eparator m	alfunctioned and	caused	40 bbls miz	x Iour of Occurrenc	0 bbls				
the oil tanks to	overflow		-paratot in		_	03/17/2014		e Date a	and Hour of D	iscovery	y	
Was Immediat	te Notice G		Vog 🗖	No 🗌 Not Re	1	If YES, To		'				
By Whom?	Kathy Pur		168	No 🔲 Not Re	equirea		eking, NMOCD a		anCuren, BLN	1		
Was a Waterco						Date and H	our 03/17/2014 lume Impacting t	1 @ 3:08 pm	· · · · · · · · · · · · · · · · · · ·			
			Yes 🛚	No		11 1125, 40	tuttle impacting t	ne watercourse	·.			
If a Watercours	se was Imp	acted, Descri	be Fully.*	<u> </u>					-			
			•									
Describe Cause	e of Proble	m and Remed	ial Action	Taken.*								
The water dum	p on the se	parator malfu	nctioned a	and caused the oil	l tanks to	overflow sni	illing 40 bbls of o	il and mades a	1 4 - 11 - 11 - 11		1 37 01 11	
were recovered	and the w	ater dump issi	ie was res	olved.	tunks to	overnow sp.	IIIII 40 0018 01 0	n and produced	i water onto ti	ie groun	id. No fluids	
Describe Area	Affected as	nd Cleanup A	ation Tale	*							·	
The affected are	ea is appro	ximately 8° x	80' on loc	ation. Remediat	ion will	be completed	in accordance wi	th a remediatio	n plan approv	ed by N	IMOCD and	
the BLM.										•		
I hereby certify	that the in	formation giv	en above i	s true and comple	ete to the	e best of my k	mowledge and un	derstand that n	ursuant to NA	IOCD to	ules and	
regulations an (operators at	re required to	report and	l/or file cerfain re	elease not	tifications on	d nerform correct	ve nationa for	احتاب حججماته		1	
public nearth of	. uie euviro	ument. The a	cceptance	Of a C-141 repor	rt hv the	NMO(1) ma	rked as "Final Re n that pose a thre	nart" dags not s	aliaria tha am		0.111.11.1	
or are environm	ioni. In auc	CITTO 142-1-4-144-1-4-1	accepta accepta	ince of a C-141 r	eport do	es not relieve	the operator of re	at to ground wa	ter, surface w	ater, hu	man health	
federal, state, or	r local laws	and/or regul	ations.						Compilance	viui any	/ Oulei	
	-	The state of the s					OIL CONS	ERVATIO	N DIVISION	<u>NC</u>		
Signature:				Maria Ma								
Drived Name of A					Approved by Environmental Specialist:							
Printed Name: Chancey Summers Approved by Environmental Specialist:												
Title: HES Specialist A					A	Approval Date: Expiration Da			n Date:	Date:		
E-mail Address: Chancey.Summers@oxy.com												
							Conditions of Approval:			Attached		
	15-1		Phone:	(575) 397-8216								
Attach Addition	nal Sheets	If Necessar	У									

District I
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State of New Mexico Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rel	ease Notifi	catioi	n and Co	orrective A	ction				
						OPERA	ГOR	\boxtimes	Initia	al Report		Final Repor
Name of Co		Oxy Permia					Chancey Summe	rs				
		tanolind Rd,				Telephone l						
Facility Na	me Man	da B Tract C	Tank B	attery		Facility Typ	e Tank Batte	ry				
Surface Ow	ner BL	М		Mineral (Owner			Al	PI No	•		
				LOCA	ATIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/West I	Line	County		
С	28	22S	37E							•	NTA C	
	20	223			i					Lea Count	y, NIVI	
]	Latitude <u>N 32.3</u>	<u>36877°</u>	Longitu	de <u>W 103.1698.</u>	<u>5°</u>				
				NAT	URE	OF RELI						
Type of Rele	ase Prodi	uced water				Volume of	Release	I		Lecovered		
Source of Re	lease Tra	sh collected in	n transfer	pump meter and c	eaused	30 bbls Date and H	lour of Occurrence	0 bb		Hour of Disc	coverv	
it to plug up t	riggering th	ne tanks to spi				05/20/2014		Buit	o allei 1	riodi oi Dis	DO V Cr y	
Was Immedia	ate Notice (V	lar Elarun	, ,	If YES, To		O1 11 NT		_		
D 117 G	TT 1 5		Yes	No Not R	equirea		eking and Tomas	, , , , , , , , , , , , , , , , , , ,		D		
By Whom? Was a Water			•				our 05/21/2014 dume Impacting to					
mas a mater	ourse Reac	aleu:	Yes 🗵	No		11 163, 40	nume impacting t	ne watercour	rse.			
If a Watercou	ree was Im	nacted Descri	he Eully ?									
Describe Cau Trash collecte were recovered Describe Area	ed in the tra	nsfer pump ar ransfer pump	nd plugged was cleare	l it up triggering ted of debris.	he tanks	to spill over	and leak 30 bbls o	of produced w	vater c	onto the grou	und. N	o fluids
TI CC 1			501		a.							
approved by I	area is appro NMOCD an	oximately 35' and the BLM.	x 50' on l	location and down	ı the roa	d. Remediati	on will be comple	eted in accord	lance v	with a remed	diation	plan
regulations all public health should their o	l operators or the envir perations hament. In ac	are required to onment. The ave failed to a ddition, NMO	report an acceptanc dequately CD accep	d/or file certain re e of a C-141 repo investigate and re	elease no et by the emediate	tifications an NMOCD ma contamination	knowledge and ur d perform correct irked as "Final Re on that pose a thre the operator of r	ive actions for port" does not at to ground	or relea ot relie water,	ases which to eve the opera surface wat	may enator of ter, hun	danger liability nan health
-) (/					OIL CONS	ERVATI	ON I	DIVISIO	N	
Signature:	(X									_	
Printed Name	: Chance	y Summers			A	Approved by I	Environmental Sp	ecialist:				
Title: HES	itle: HES Specialist						Approval Date:			Date:		
E-mail Addres		cey.Summers@	@oxy.com		c	Conditions of	Approval:			Attached		
Date: 6 Attach Addit	_2/ ional Shee	ts If Necessa	Phone:	(575) 397-821	6							

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State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action **OPERATOR** Initial Report Name of Company Oxy Permian Ltd. Contact Christopher Jones 1502 W. Commerce Dr., Carlsbad, NM Address Telephone No. (575) 628-4121 Manda B Tract C Tank Battery Facility Type Tank Battery Surface Owner BLM Mineral Owner API No. LOCATION OF RELEASE Unit Letter Section Township Feet from the North/South Line Range Feet from the East/West Line County C 28 228 37E Lea County, NM Latitude N 32.36877° Longitude W 103.16985° NATURE OF RELEASE Type of Release Oil and Produced water Volume of Release Volume Recovered 40 bbls mix 0 bbls Water dump on separator malfunctioned and caused Source of Release Date and Hour of Occurrence Date and Hour of Discovery the oil tanks to overflow 03/17/2014 Was Immediate Notice Given? If YES, To Whom? Geoffrey Leking, NMOCD and Jennifer VanCuren, BLM By Whom? Kathy Purvis Date and Hour 03/17/2014 @ 3:08 pm Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* The water dump on the separator malfunctioned and caused the oil tanks to overflow spilling 40 bbls of oil and produced water onto the ground. No fluids were recovered and the water dump issue was resolved. Describe Area Affected and Cleanup Action Taken.* The affected area is approximately 8' x 80' on location. Remediation was completed in accordance with the remediation plan approved by Tomas Oberding of NMOCD via email on 10/22/2014. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Digitally signed by Chris Jones DN: cn=Chris Jones, o, ou, Chris OIL CONSERVATION DIVISION email=ckjones888@yahoo.com Signature: Jones Approved by Environmental Specialist: Printed Name: Christopher Jones HES Specialist Approval Date: **Expiration Date:** E-mail Address: Christopher Jones@oxy.com Conditions of Approval: Attached Phone: (575) 628-4121 * Attach Additional Sheets If Necessary

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State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action ☐ Initial Report **OPERATOR** Name of Company Oxy Permian Ltd. Contact Christopher Jones Address 1502 W. Commerce Dr., Carlsbad, NM Telephone No. (575) 628-4121 Facility Name Manda B Tract C Tank Battery Facility Type Tank Battery Surface Owner BLM Mineral Owner API No. LOCATION OF RELEASE Unit Letter Section Feet from the Township Range North/South Line Feet from the East/West Line County C 28 **22S** 37E Lea County, NM Latitude N 32.36877° Longitude W 103.16985° NATURE OF RELEASE Type of Release Produced water Volume of Release Volume Recovered 30 bbls 0 bbls Source of Release Trash collected in transfer pump meter and caused Date and Hour of Occurrence Date and Hour of Discovery it to plug up triggering the tanks to spill over 05/20/2014 Was Immediate Notice Given? If YES, To Whom? Geoffrey Leking and Tomas Oberding, NMOCD By Whom? Kathy Purvis Date and Hour 05/21/2014 @ 11:57 am If YES, Volume Impacting the Watercourse. Was a Watercourse Reached? ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* Trash collected in the transfer pump and plugged it up triggering the tanks to spill over and leak 30 bbls of produced water onto the ground. No fluids were recovered and the transfer pump was cleared of debris. Describe Area Affected and Cleanup Action Taken.* The affected area is approximately 35' x 50' on location and down the road. Remediation was completed in accordance with the remediation plan approved by Tomas Oberding of NMOCD via email on 10/22/2014. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Digitally signed by Chris Jones OIL CONSERVATION DIVISION Chris Jones Policinis Jones, o, ou, email=ckjones, 888@yahoo.com, Signature: Approved by Environmental Specialist: Printed Name: Christopher Jones HES Specialist Expiration Date: Approval Date: E-mail Address: Christopher Jones@oxy.com Conditions of Approval: Attached Phone: (575) 628-4121 * Attach Additional Sheets If Necessary

DRWG by: K. Purvis

Date: 03/28/14 NOT TO SCALE

File: Oxy 2014

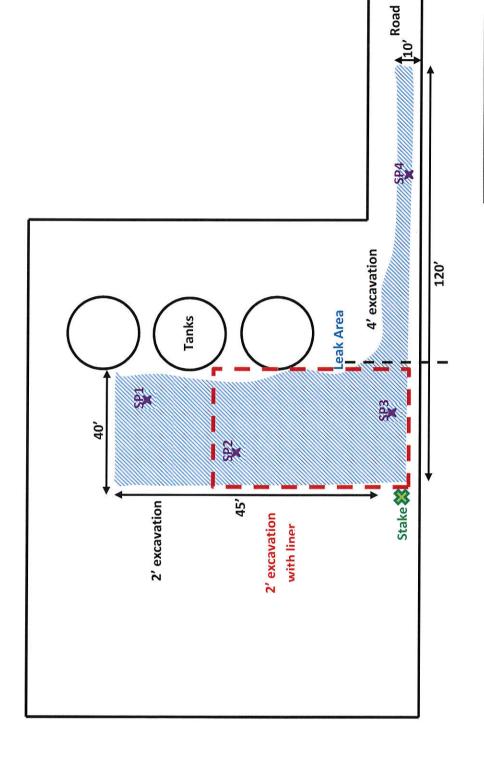
Manda B Tract C Tank Battery

ò

BBC International, Inc.

Manda B Tract C Tank Battery

Oxy



U/L C, Section 28, T22S, R37E

Lea County, NM N 32.36877° W 103.16985°

Оху

Manda B Tract C Tank Battery

DRWG by: K. Purvis

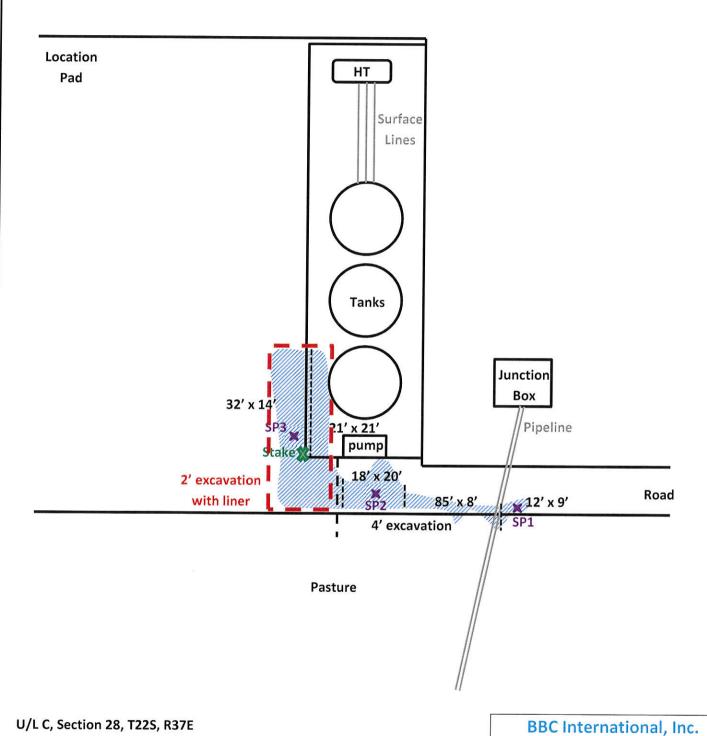
File: Oxy 2014

Date: 05/23/2014

NOT TO SCALE



Oxy Manda B Tract C Tank Battery (5/20/14)



N 32.36871° W 103.16980°

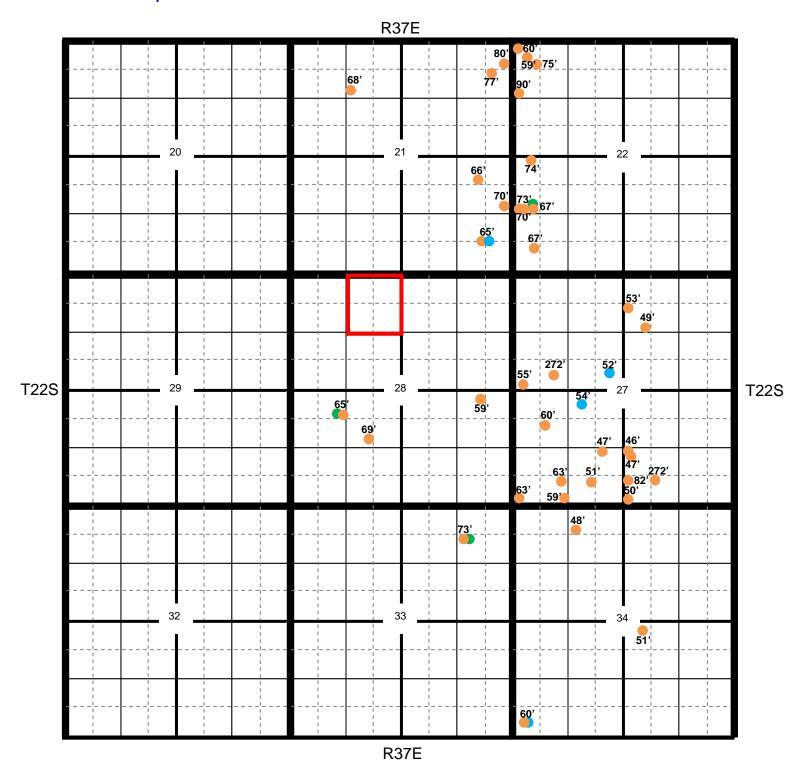
Lea County, NM

Groundwater Plot

Oxy Manda B Tract C Tank Battery

CountyUnit LetterSectionTownshipRangeLeaC2822S37E

Trend Map 50'-100'



OCD

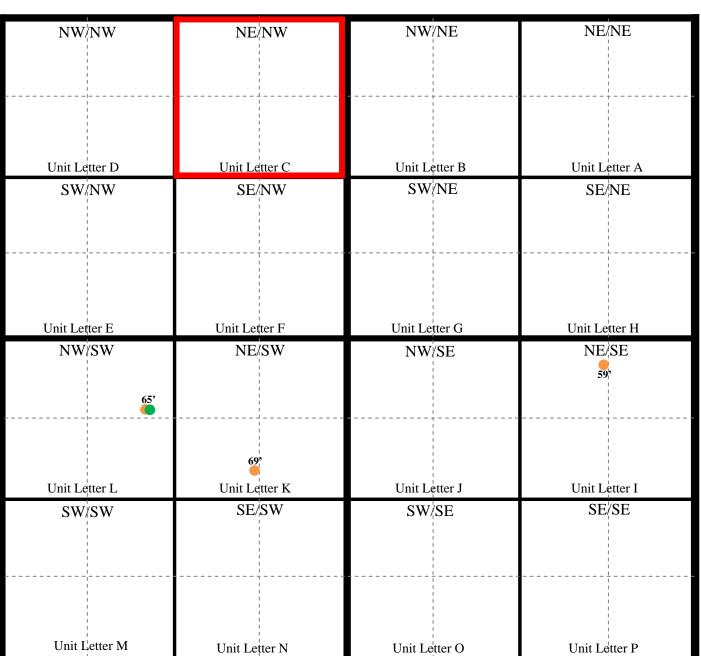
Section Quarters

Oxy Manda B Tract C Tank Battery

CountyUnit LetterSectionTownshipRangeLeaC2822S37E

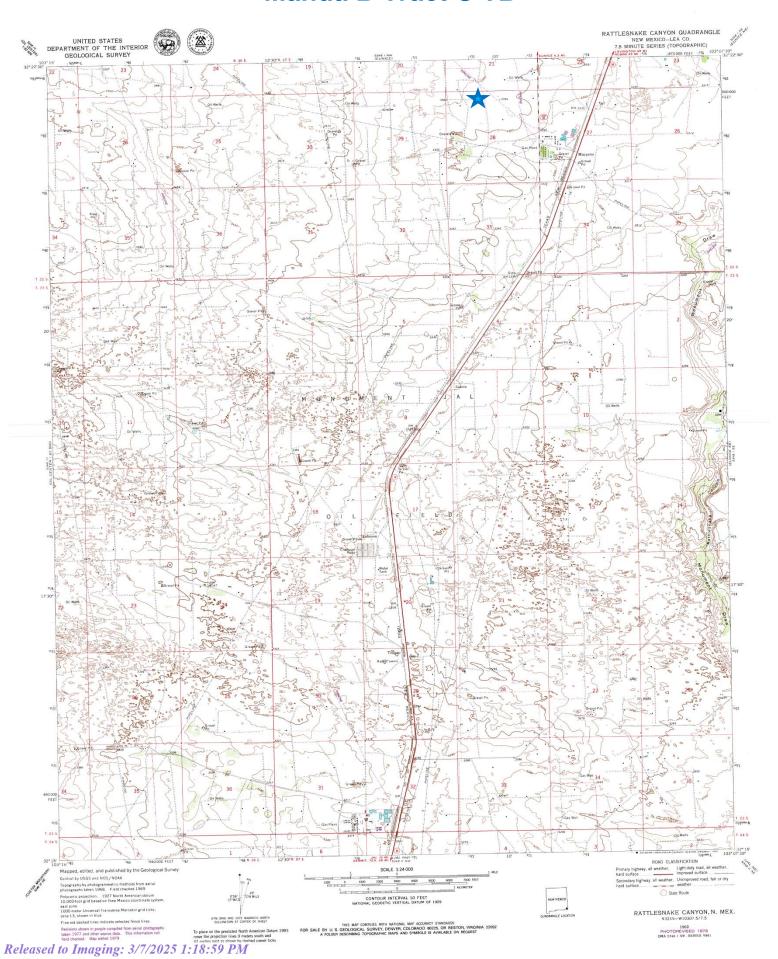
Trend Map 50'-100'

1

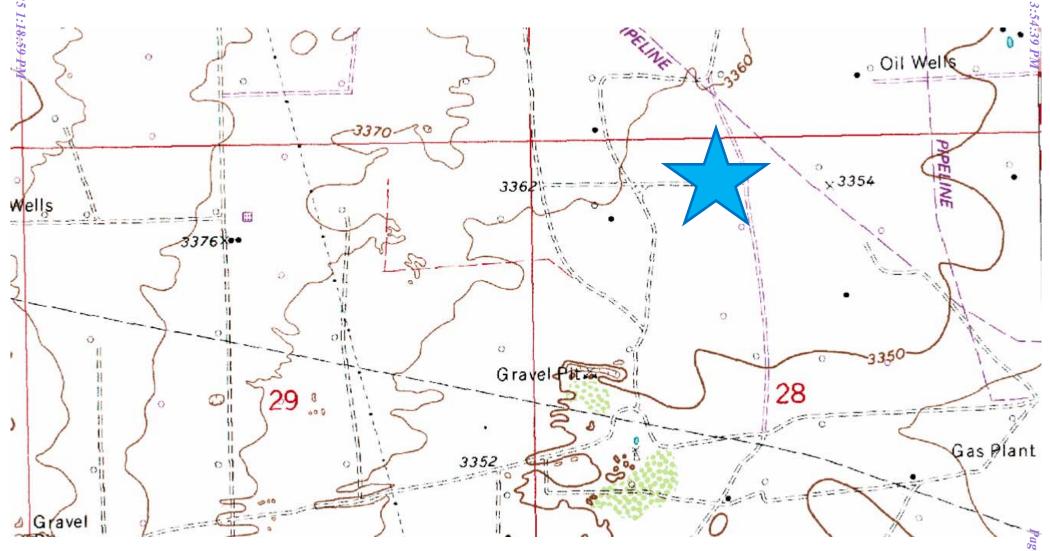


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Manda B Tract C TB



Manda B Tract C Tank Battery



Received by OCD: 2/14/2025 3:54:39 PM

Laboratory Analytical Results Summary Manda B Tract C Tank Battery

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 5'
Analyte	Method	Date	4/15/14	4/15/14	4/15/14	4/15/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	< 0.150	< 0.150	< 0.150
Total BTEX	BTEX 8021B		< 0.300	< 0.300	< 0.300	< 0.300
Chloride	SM4500CI-B		32	368	640	160
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 6'	SP2 @ 9'
Analyte	Method	Date	4/15/14	4/15/14	4/15/14	4/17/14	4/17/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.100	< 0.050	< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		<0.100	< 0.050	< 0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		0.113	< 0.050	<0.050	< 0.050	< 0.050
Total Xylenes	BTEX 8021B		0.506	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		0.62	< 0.300	< 0.300	< 0.300	< 0.300
Chloride	SM4500CI-B		96	320	528	752	288
GRO	TPH 8015M		14.8	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		492	35.8	<10.0	<10.0	<10.0

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 6'	SP3 @ 8'
Analyte	Method	Date	4/17/14	4/17/14	4/17/14	4/17/14	4/17/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		<0.050	< 0.050	< 0.050	< 0.050	< 0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		< 0.300	< 0.300	< 0.300	< 0.300	< 0.300
Chloride	SM4500CI-B		256	736	704	304	192
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	37	<10.0	30.4	<10.0

		Sample	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 5'	SP4 @ 7'
Analyte	Method	Date	4/17/14	4/17/14	4/17/14	4/17/14	4/17/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		< 0.300	< 0.300	< 0.300	< 0.300	<0.300
Chloride	SM4500CI-B		5760	9120	8500	240	288
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0

Received by OCD: 2/14/2025 3:54:39 PM

Laboratory Analytical Results Summary Manda B Tract C Tank Battery

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 6'
Analyte	Method	Date	5/22/14	5/22/14	5/22/14	8/28/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		7920	1020	608	240

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'
Analyte	Method	Date	5/22/14	5/22/14	5/22/14	8/28/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		544	592	368	288

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 5'	SP3 @ 7'	SP3 @ 9'	SP3 @ 10'
Analyte	Method	Date	5/22/14	5/22/14	5/22/14	5/22/14	5/22/14	8/28/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		752	528	544	704	336	336



April 28, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MANDA B TRACT C

Enclosed are the results of analyses for samples received by the laboratory on 04/21/14 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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/ga/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.

Celey D. Keens

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

Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc. Cliff Brunson P.O. Box 805

Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 04/21/2014 Sampling Date: 04/15/2014

Reported: 04/28/2014 Sampling Type: Soil
Project Name: MANDA B TRACT C Sampling Condition: Coo

Project Name: MANDA B TRACT C Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: EUNICE, NM

Sample ID: SP 1 @ 1 (H401194-01)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2014	ND	2.29	115	2.00	2.53	
Toluene*	<0.050	0.050	04/22/2014	ND	2.16	108	2.00	2.19	
Ethylbenzene*	<0.050	0.050	04/22/2014	ND	2.14	107	2.00	2.07	
Total Xylenes*	<0.150	0.150	04/22/2014	ND	6.22	104	6.00	1.49	
Total BTEX	<0.300	0.300	04/22/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	125 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/24/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2014	ND	184	91.9	200	5.44	
DRO >C10-C28	<10.0	10.0	04/22/2014	ND	195	97.7	200	3.58	
Surrogate: 1-Chlorooctane	114 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	111 9	63.6-15	4						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 04/21/2014 Sampling Date: 04/15/2014

Reported: 04/28/2014 Sampling Type: Soil

Project Name: MANDA B TRACT C Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: EUNICE, NM

Sample ID: SP 1 @ 2 (H401194-02)

TEX 8021B	mg/	kg	Analyze	Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2014	ND	2.29	115	2.00	2.53	
Toluene*	<0.050	0.050	04/22/2014	ND	2.16	108	2.00	2.19	
Ethylbenzene*	<0.050	0.050	04/22/2014	ND	2.14	107	2.00	2.07	
Total Xylenes*	<0.150	0.150	04/22/2014	ND	6.22	104	6.00	1.49	
Total BTEX	<0.300	0.300	04/22/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	124 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	04/24/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2014	ND	184	91.9	200	5.44	
DRO >C10-C28	<10.0	10.0	04/22/2014	ND	195	97.7	200	3.58	
Surrogate: 1-Chlorooctane	106 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	106 9	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 04/21/2014 Sampling Date: 04/15/2014

Reported: 04/28/2014 Sampling Type: Soil

Project Name: MANDA B TRACT C Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: EUNICE, NM

Sample ID: SP 1 @ 3 (H401194-03)

TEX 8021B	mg/kg		Analyze	Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2014	ND	2.29	115	2.00	2.53	
Toluene*	<0.050	0.050	04/22/2014	ND	2.16	108	2.00	2.19	
Ethylbenzene*	<0.050	0.050	04/22/2014	ND	2.14	107	2.00	2.07	
Total Xylenes*	<0.150	0.150	04/22/2014	ND	6.22	104	6.00	1.49	
Total BTEX	<0.300	0.300	04/22/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	126 %	6 89.4-12	6						
Chloride, SM4500CI-B	Chloride, SM4500Cl-B mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	04/24/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2014	ND	184	91.9	200	5.44	
DRO >C10-C28	<10.0	10.0	04/22/2014	ND	195	97.7	200	3.58	
Surrogate: 1-Chlorooctane	83.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	91.6	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 04/21/2014 Sampling Date: 04/15/2014

Reported: 04/28/2014 Sampling Type: Soil

Project Name: MANDA B TRACT C Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: EUNICE, NM

Sample ID: SP 1 @ 5 (H401194-04)

TEX 8021B	mg/	kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2014	ND	2.29	115	2.00	2.53	
Toluene*	<0.050	0.050	04/22/2014	ND	2.16	108	2.00	2.19	
Ethylbenzene*	<0.050	0.050	04/22/2014	ND	2.14	107	2.00	2.07	
Total Xylenes*	<0.150	0.150	04/22/2014	ND	6.22	104	6.00	1.49	
Total BTEX	<0.300	0.300	04/22/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	126 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/24/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2014	ND	198	98.8	200	5.58	
DRO >C10-C28	<10.0	10.0	04/22/2014	ND	216	108	200	7.28	
Surrogate: 1-Chlorooctane	93.6 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	90.69	% 63.6-15	4						

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Celey D. Keine



Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 04/21/2014 Sampling Date: 04/15/2014

Reported: 04/28/2014 Sampling Type: Soil

Project Name: MANDA B TRACT C Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: EUNICE, NM

Sample ID: SP 2 @ 1 (H401194-05)

EX 8021B	mg/	kg	Analyze	Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	04/22/2014	ND	2.29	115	2.00	2.53		
Toluene*	< 0.100	0.100	04/22/2014	ND	2.16	108	2.00	2.19		
Ethylbenzene*	0.113	0.100	04/22/2014	ND	2.14	107	2.00	2.07		
Total Xylenes*	0.506	0.300	04/22/2014	ND	6.22	104	6.00	1.49		
Total BTEX	0.620	0.600	04/22/2014	ND						
Surrogate: 4-Bromofluorobenzene (PID	149 %	6 89.4-12	6							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/24/2014	ND	416	104	400	0.00		
TPH 8015M	mg/	kg	Analyze	d By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	14.8	10.0	04/22/2014	ND	198	98.8	200	5.58		
DRO >C10-C28	492	10.0	04/22/2014	ND	216	108	200	7.28		
Surrogate: 1-Chlorooctane	120 %	65.2-14	0							
Surrogate: 1-Chlorooctadecane	121 9	63.6-15	4							

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Celey D. Keine



Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 04/21/2014 Sampling Date: 04/15/2014

Reported: 04/28/2014 Sampling Type: Soil

Project Name: MANDA B TRACT C Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: EUNICE, NM

Sample ID: SP 2 @ 2 (H401194-06)

BTEX 8021B	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2014	ND	2.29	115	2.00	2.53	
Toluene*	<0.050	0.050	04/22/2014	ND	2.16	108	2.00	2.19	
Ethylbenzene*	< 0.050	0.050	04/22/2014	ND	2.14	107	2.00	2.07	
Total Xylenes*	<0.150	0.150	04/22/2014	ND	6.22	104	6.00	1.49	
Total BTEX	<0.300	0.300	04/22/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	126 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	04/24/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2014	ND	198	98.8	200	5.58	
DRO >C10-C28	35.8	10.0	04/22/2014	ND	216	108	200	7.28	
Surrogate: 1-Chlorooctane	112 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	106 %	63.6-15	4						

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Celey D. Keene



Analytical Results For:

BBC International, Inc. Cliff Brunson P.O. Box 805

Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 04/21/2014 Sampling Date: 04/15/2014

Reported: 04/28/2014 Sampling Type: Soil

Project Name: MANDA B TRACT C Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: EUNICE, NM

Sample ID: SP 2 @ 3 (H401194-07)

EX 8021B	mg/	kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2014	ND	1.71	85.4	2.00	2.47	
Toluene*	<0.050	0.050	04/22/2014	ND	1.71	85.4	2.00	3.28	
Ethylbenzene*	<0.050	0.050	04/22/2014	ND	1.70	85.1	2.00	2.80	
Total Xylenes*	<0.150	0.150	04/22/2014	ND	5.08	84.7	6.00	3.50	
Total BTEX	<0.300	0.300	04/22/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	124 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	04/24/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2014	ND	198	98.8	200	5.58	
DRO >C10-C28	<10.0	10.0	04/22/2014	ND	216	108	200	7.28	
Surrogate: 1-Chlorooctane	97.1 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.0 9	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 04/21/2014 Sampling Date: 04/17/2014

Reported: 04/28/2014 Sampling Type: Soil

Project Name: MANDA B TRACT C Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: EUNICE, NM

Sample ID: SP 2 @ 6 (H401194-08)

BTEX 8021B	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/23/2014	ND	1.71	85.4	2.00	2.47	
Toluene*	< 0.050	0.050	04/23/2014	ND	1.71	85.4	2.00	3.28	
Ethylbenzene*	< 0.050	0.050	04/23/2014	ND	1.70	85.1	2.00	2.80	
Total Xylenes*	<0.150	0.150	04/23/2014	ND	5.08	84.7	6.00	3.50	
Total BTEX	<0.300	0.300	04/23/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	04/24/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/23/2014	ND	198	98.8	200	5.58	
DRO >C10-C28	<10.0	10.0	04/23/2014	ND	216	108	200	7.28	
Surrogate: 1-Chlorooctane	79.2 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	83.4 9	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc. Cliff Brunson P.O. Box 805

Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 04/21/2014 Sampling Date: 04/17/2014

Reported: 04/28/2014 Sampling Type: Soil

Project Name: MANDA B TRACT C Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: EUNICE, NM

Sample ID: SP 2 @ 9 (H401194-09)

EX 8021B	mg/	kg	Analyze	Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	2.47	
Toluene*	<0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	3.28	
Ethylbenzene*	<0.050	0.050	04/24/2014	ND	1.70	85.1	2.00	2.80	
Total Xylenes*	<0.150	0.150	04/24/2014	ND	5.08	84.7	6.00	3.50	
Total BTEX	<0.300	0.300	04/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	04/24/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/23/2014	ND	198	98.8	200	5.58	
DRO >C10-C28	<10.0	10.0	04/23/2014	ND	216	108	200	7.28	
Surrogate: 1-Chlorooctane	100 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.9	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 04/21/2014 Sampling Date: 04/17/2014

Reported: 04/28/2014 Sampling Type: Soil

Project Name: MANDA B TRACT C Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: EUNICE, NM

Sample ID: SP 3 @ 1 (H401194-10)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	2.47	
Toluene*	<0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	3.28	
Ethylbenzene*	<0.050	0.050	04/24/2014	ND	1.70	85.1	2.00	2.80	
Total Xylenes*	<0.150	0.150	04/24/2014	ND	5.08	84.7	6.00	3.50	
Total BTEX	<0.300	0.300	04/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/24/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/23/2014	ND	198	98.8	200	5.58	
DRO >C10-C28	<10.0	10.0	04/23/2014	ND	216	108	200	7.28	
Surrogate: 1-Chlorooctane	109 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	110 %	63.6-15	4						

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Celey D. Keine



Analytical Results For:

BBC International, Inc. Cliff Brunson P.O. Box 805

Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 04/21/2014 Sampling Date: 04/17/2014

Reported: 04/28/2014 Sampling Type: Soil

Project Name: MANDA B TRACT C Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: EUNICE, NM

Sample ID: SP 3 @ 2 (H401194-11)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	2.47	
Toluene*	< 0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	3.28	
Ethylbenzene*	< 0.050	0.050	04/24/2014	ND	1.70	85.1	2.00	2.80	
Total Xylenes*	<0.150	0.150	04/24/2014	ND	5.08	84.7	6.00	3.50	
Total BTEX	<0.300	0.300	04/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	04/24/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/23/2014	ND	198	98.8	200	5.58	
DRO >C10-C28	37.0	10.0	04/23/2014	ND	216	108	200	7.28	
Surrogate: 1-Chlorooctane	101 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.7	% 63.6-15	4						

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Celey D. Keine



Analytical Results For:

BBC International, Inc. Cliff Brunson P.O. Box 805

Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 04/21/2014 Sampling Date: 04/17/2014

Reported: 04/28/2014 Sampling Type: Soil

Project Name: MANDA B TRACT C Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Celey D. Keene

Project Location: EUNICE, NM

Sample ID: SP 3 @ 3 (H401194-12)

BTEX 8021B	mg/	kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	2.47	
Toluene*	< 0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	3.28	
Ethylbenzene*	< 0.050	0.050	04/24/2014	ND	1.70	85.1	2.00	2.80	
Total Xylenes*	< 0.150	0.150	04/24/2014	ND	5.08	84.7	6.00	3.50	
Total BTEX	<0.300	0.300	04/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	04/24/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/23/2014	ND	198	98.8	200	5.58	
DRO >C10-C28	<10.0	10.0	04/23/2014	ND	216	108	200	7.28	
Surrogate: 1-Chlorooctane	104 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	100 %	63.6-15	4						

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Celey D. Keine



Analytical Results For:

BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 04/21/2014 Sampling Date: 04/17/2014

Reported: 04/28/2014 Sampling Type: Soil

Project Name: MANDA B TRACT C Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: EUNICE, NM

Sample ID: SP 3 @ 6 (H401194-13)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	2.47	
Toluene*	< 0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	3.28	
Ethylbenzene*	< 0.050	0.050	04/24/2014	ND	1.70	85.1	2.00	2.80	
Total Xylenes*	<0.150	0.150	04/24/2014	ND	5.08	84.7	6.00	3.50	
Total BTEX	<0.300	0.300	04/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	04/24/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/23/2014	ND	198	98.8	200	5.58	
DRO >C10-C28	30.4	10.0	04/23/2014	ND	216	108	200	7.28	
Surrogate: 1-Chlorooctane	114 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	112 %	63.6-15	4						

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Celey D. Keine



Analytical Results For:

BBC International, Inc. Cliff Brunson P.O. Box 805

Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 04/21/2014 Sampling Date: 04/17/2014

Reported: 04/28/2014 Sampling Type: Soil

Project Name: MANDA B TRACT C Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: EUNICE, NM

Sample ID: SP 3 @ 8 (H401194-14)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	2.47	
Toluene*	<0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	3.28	
Ethylbenzene*	<0.050	0.050	04/24/2014	ND	1.70	85.1	2.00	2.80	
Total Xylenes*	<0.150	0.150	04/24/2014	ND	5.08	84.7	6.00	3.50	
Total BTEX	<0.300	0.300	04/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/24/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/23/2014	ND	198	98.8	200	5.58	
DRO >C10-C28	<10.0	10.0	04/23/2014	ND	216	108	200	7.28	
Surrogate: 1-Chlorooctane	96.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	95.2 9	% 63.6-15	4						

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Celey D. Keine



Analytical Results For:

BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 04/21/2014 Sampling Date: 04/17/2014

Reported: 04/28/2014 Sampling Type: Soil

Project Name: MANDA B TRACT C Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Celey D. Keene

Project Location: EUNICE, NM

Sample ID: SP 4 @ 1 (H401194-15)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	2.47	
Toluene*	< 0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	3.28	
Ethylbenzene*	< 0.050	0.050	04/24/2014	ND	1.70	85.1	2.00	2.80	
Total Xylenes*	<0.150	0.150	04/24/2014	ND	5.08	84.7	6.00	3.50	
Total BTEX	<0.300	0.300	04/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6 %	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	04/24/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/23/2014	ND	198	98.8	200	5.58	
DRO >C10-C28	<10.0	10.0	04/23/2014	ND	216	108	200	7.28	
Surrogate: 1-Chlorooctane	110 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	109 %	63.6-15	4						

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Celey D. Keine



Analytical Results For:

BBC International, Inc. Cliff Brunson P.O. Box 805

Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 04/21/2014 Sampling Date: 04/17/2014

Reported: 04/28/2014 Sampling Type: Soil

Project Name: MANDA B TRACT C Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Celey D. Keene

Project Location: EUNICE, NM

Sample ID: SP 4 @ 2 (H401194-16)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	2.47	
Toluene*	<0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	3.28	
Ethylbenzene*	<0.050	0.050	04/24/2014	ND	1.70	85.1	2.00	2.80	
Total Xylenes*	<0.150	0.150	04/24/2014	ND	5.08	84.7	6.00	3.50	
Total BTEX	<0.300	0.300	04/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9120	16.0	04/24/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/23/2014	ND	198	98.8	200	5.58	
DRO >C10-C28	<10.0	10.0	04/23/2014	ND	216	108	200	7.28	
Surrogate: 1-Chlorooctane	105 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	104 9	63 6-15	4						

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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Celey D. Keine



Analytical Results For:

BBC International, Inc. Cliff Brunson P.O. Box 805

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 04/21/2014 Sampling Date: 04/17/2014

Reported: 04/28/2014 Sampling Type: Soil

Project Name: MANDA B TRACT C Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: EUNICE, NM

Sample ID: SP 4 @ 3 (H401194-17)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	2.47	
Toluene*	<0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	3.28	
Ethylbenzene*	<0.050	0.050	04/24/2014	ND	1.70	85.1	2.00	2.80	
Total Xylenes*	<0.150	0.150	04/24/2014	ND	5.08	84.7	6.00	3.50	
Total BTEX	<0.300	0.300	04/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8500	16.0	04/24/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/23/2014	ND	198	98.8	200	5.58	
DRO >C10-C28	<10.0	10.0	04/23/2014	ND	216	108	200	7.28	
Surrogate: 1-Chlorooctane	101 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	106 9	63.6-15	4						

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Celey D. Keine



Analytical Results For:

BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 04/21/2014 Sampling Date: 04/17/2014

Reported: 04/28/2014 Sampling Type: Soil

Project Name: MANDA B TRACT C Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Celey D. Keene

Project Location: EUNICE, NM

Sample ID: SP 4 @ 5 (H401194-18)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	2.47	
Toluene*	<0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	3.28	
Ethylbenzene*	<0.050	0.050	04/24/2014	ND	1.70	85.1	2.00	2.80	
Total Xylenes*	<0.150	0.150	04/24/2014	ND	5.08	84.7	6.00	3.50	
Total BTEX	<0.300	0.300	04/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5 %	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/24/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/23/2014	ND	198	98.8	200	5.58	
DRO >C10-C28	<10.0	10.0	04/23/2014	ND	216	108	200	7.28	
Surrogate: 1-Chlorooctane	98.3 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	92.0 %	63.6-15	4						

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 04/21/2014 Sampling Date: 04/17/2014

Reported: 04/28/2014 Sampling Type: Soil

Project Name: MANDA B TRACT C Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: EUNICE, NM

Sample ID: SP 4 @ 7 (H401194-19)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	2.47	
Toluene*	< 0.050	0.050	04/24/2014	ND	1.71	85.4	2.00	3.28	
Ethylbenzene*	< 0.050	0.050	04/24/2014	ND	1.70	85.1	2.00	2.80	
Total Xylenes*	<0.150	0.150	04/24/2014	ND	5.08	84.7	6.00	3.50	
Total BTEX	<0.300	0.300	04/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	04/24/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/23/2014	ND	198	98.8	200	5.58	
DRO >C10-C28	<10.0	10.0	04/23/2014	ND	216	108	200	7.28	
Surrogate: 1-Chlorooctane	94.2 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	90.5 9	% 63.6-15	4						

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Celey D. Keine



Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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

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Celey D. Keene

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

d, Hobbs, NM 88240 FAX (505) 393-2476 Ional, Inc.	F, C, #.	Project Manager: CIIT Brunson
	BO #.	
	BILL TO	Company Name: BBC International, Inc.
101 East Marland, Hobbs, NM 88240		(505) 393-2326 FAX (505) 393-2476
101 East Marland, Hobbs, NM 88240		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
		101 East Marland, Hobbs, NM 88240

	(303) 393-2320 1 77 (303) 393-2-	10			90 0	
Company Name:	Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST	
Project Manager	Project Manager: Cliff Brunson		P.O. #:			
Address: P.O. Box 805	Box 805		Company:			
city: Hobbs	State: NM	Zip: 88241	Attn:	10 m		
Phone #: 575-397-6388	Fax #:	575-397-0397	Address:			
Project #:	Project Owner:	er: OXV	City:			
ame: /	Manda-B Tract	5	State: Zip: 4			
Project Location:			Phone #:	\(\)		
Sampler Name:	TEFF ORNIEL	45	Fax #:			
FOR LAB USE ONLY		P. MATRIX	PRESERV. SAMPLING	PH 2		
Lab I.D.	Sample I.D.	RAB OR (C)OM DNTAINERS DUNDWATER STEWATER L	HER : D/BASE: / COOL HER :	7 <i>f</i> <i>B</i> 7		
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PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Ca	PLEASE NOTE: Liability and Damages, Cardifat's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the afficient paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within 30 days after competition of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including within thation, business interruptions, loss of use, or loss of profits incured by client, its subsidiaries.	or any claim arising whether based in contract be deemed waived unless made in writing an Jing without limitation, business interruptions, or Cardinal reportless of whether such claim	t or tort, shall be limited to the amount pa d received by Cardinal within 30 days afte loss of use, or loss of profils incurred by is based upon any of the above stated re	aid by the client for the fer completion of the applicable y client, its subsidiaries, reasons or otherwise.		
Relinquished By	elinquished By: Date: 1 & Receive	Received By:		Phone Result: ☐ Yes Fax Result: ☐ Yes	□ No Add'l Phone #: □ No Add'l Fax #:	
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Paliparished By	Date: /	Received By:			お 一次	

CHECKED BY:

Page 22 of 23

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Relinquished By

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Date:

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(Initials)

Received By

Fax Result: REMARKS:

□ Yes

0 8 8

Add'l Phone #: Add'l Fax #:

70 CT

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

Campanu Nama	BBC International Inc		81118	2	ANA	ANALYSIS REQUEST	
Project Manager:	13 4 3 3 3 7		P.O.#:				
Address: P.O. Box 805	Box 805		Company:				
city: Hobbs	State: NM	Zip: 88241	Attn:				
Phone #: 575-397-6388	Fax #:	575-397-0397	Address:				
Project #:	Project Owner:	ner: OXV	City: 4/h				
Project Name: 1	Nanda - B Trac	710	State: Zip:	6			
Project Location:	Similar		Phone #:				
Sampler Name:	Will Oreles		Fax #:		× = -		
FOR LAB USE ONLY	1	MATRIX	PRESERV. SAME	SAMPLING			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	TIME THE			
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PLEASE NOTE: I jability 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	ct or tort, shall be limited to the amount	paid by the client for the			

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#54



May 29, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MANDA B TRACT C TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/23/14 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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/ga/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.

Celey D. Keene

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

Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 05/23/2014 Sampling Date: 05/22/2014

Reported: 05/29/2014 Sampling Type: Soil

Project Name: MANDA B TRACT C TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Amanda Ponce

Project Location: EUNICE, NM

Sample ID: SP 1 @ 1 (H401599-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7920	16.0	05/29/2014	ND	400	100	400	3.92	
Sample ID: SP 1 @ 3 (H40)1599-02)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	05/29/2014	ND	400	100	400	3.92	
Sample ID: SP 1 @ 5 (H40)1599-03)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	05/29/2014	ND	400	100	400	3.92	
Sample ID: SP 2 @ 1 (H40)1599-04)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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Celey D. Keine



Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 05/23/2014 Sampling Date: 05/22/2014

Reported: 05/29/2014 Sampling Type: Soil

Project Name: MANDA B TRACT C TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Amanda Ponce

Project Location: EUNICE, NM

Sample ID: SP 2 @ 3 (H401599-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	05/29/2014	ND	400	100	400	3.92	
Sample ID: SP 2 @ 4 (H4	01599-06)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	05/29/2014	ND	400	100	400	3.92	

Sample ID: SP 3 @ 1 (H401599-07)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	05/29/2014	ND	400	100	400	3.92	

Sample ID: SP 3 @ 3 (H401599-08)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	05/29/2014	ND	400	100	400	3.92	

Sample ID: SP 3 @ 5 (H401599-09)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	05/29/2014	ND	400	100	400	3.92	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 05/23/2014 Sampling Date: 05/22/2014

Reported: 05/29/2014 Sampling Type: Soil

Project Name: MANDA B TRACT C TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Amanda Ponce

Project Location: EUNICE, NM

Sample ID: SP 3 @ 7 (H401599-10)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 704 05/29/2014 ND 400 100 400 3.92 16.0

Sample ID: SP 3 @ 9 (H401599-11)

Chloride, SM4500Cl-B Analyzed By: AP mg/kg Reporting Limit Analyzed BS True Value QC RPD Qualifier Analyte Result Method Blank % Recovery Chloride 336 16.0 05/28/2014 416 400 3.77 ND 104

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Sampler - UPS - Bus - Other: Delivered By: (Circle One) Refinquished By:

Time: Date:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.	ARDINAL LABORATORIES 101 East Mariand, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476
	ORIES NM 88240 193-2476

(5	(505) 393-2326 FAX (505) 393-2470			11	ALVOID DECLIECT
Company Name:	BBC International, Inc.		BILL TO	AN	ANALTSIS REQUEST
Project Manager:	Cliff Brunson	P.O. #:			
Address: P.O. Box 805		Company:			
city: Hobbs	State: NM	Zip: 88241 Attn:	7		
Phone #: 575-397-6388	Fax#:	575-397-0397 Address:	Chro		
Project #:	Project Owner:	OXY City:	(
Project Name:	Manh - B Trut-C	Trak Battery State:	Zip:		
Project Location:	33,4133	/ Phone #:			
Sampler Name:	JEFF DRYELAS	Fax #:	1		
FOR LAB USE ONLY		MATRIX PRESERV	RV. SAMPLING		
Lab I.D.	Sample I.D.			CL	
H4OK94		# CO GRO WA: SOIL OIL SLU OTI	DATE TIME	4	
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PLEASE NOTE: Liability and analyses. All claims including service in no event shall Can	PLEASE NOTE: Lability 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 affount paid by the client for the applicable 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 cancer in no event shall for a contract to the contract of the cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.	ny claim arising whether based in contract or tort, shall be beenned waived unless made in writing and received by Ca without limitation, business interruptions, loss of use, or lo	imited to the afflount paid by the clier dinal within 30 days after completion ss of profils incurred by client, its sub	n for the of the applicable sidenes.	
affiliates or successors agising Relinquished By:	psing out of or related to the performance of services hereunder by C By: Date:	hereunder by Cardinal, regardless of whether such claim is based upon as Received By:	ch claim is based upon any of the above stated reasons or otherwise. Phone Result: Fax Result:	lt: ☐ Yes ☐ No	Add'l Phone #: Add'l Fax #:
	Time:	1	REMARKS:		
Relinguished By	Date:	Received By:			

Sampler - UPS - Bus - Other: 0 6 '(

Delivered By: (Circle One)

Time:

Received By:

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affiliates or successors arising out of or related to the performa Relinguished By:	PLEASE NOTE: Liability and Damages. Ca analyses. All claims including those for negi service. In no event shall Cardinal be liable							Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location: 5	Project Name: MZMd	Project #:	Phone #: 575-397-6388	City: Hobbs	Address: P.O. Box 805	Project Manager: Cliff Brunson	Company Name: BBC
led to the performance of services hereunder Date:	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the snapless. At claims including those for negligence and any other cause whatsoever shall be decired 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 substituties.					130 de	5.209	Sample I.D.		Veft Ornels	inice	23 Treet-C	Project Owner:	Fax#:	State: NM	5	Brunson	BBC International, Inc.
he reunder by Cardinal, recardless of whether such claim is based upon any of the above stated Received By:	for any Claim arising whether based in contra I be deemed waived unless made in writing a uding without limitation, business interruption				1		×	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	MATRIX	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Tank Buttery	ner: OXY	575-397-0397	Zip: 88241			
m is based upon any of the above stated r	act or tort, shall be limited to the amount pa and received by Cardinal within 30 days aft is, loss of use, or loss of profils incurred by		A - 2					OTHER: ACID/BASE: ICE / COOL OTHER:	PRESERV. SAMPLING		Phone #:	State: Zip:	City:	Address:	Attn:	Company:	P.O. #:	BILL THIS
Phone Result:	d by the client for the r completion of the applicable client, its subsidiaries.						430 +	TIME CC-	NG									
Yes □ No																		A second second second
Add'l Phone #:																		ANALYSIS KEQUESI



September 05, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MANDA B TRACT C

Enclosed are the results of analyses for samples received by the laboratory on 08/28/14 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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/ga/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.

Celey D. Keene

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

Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 08/28/2014 Sampling Date: 08/28/2014

Reported: 09/05/2014 Sampling Type: Soil Project Name: MANDA B TRACT C Sampling Condition: Coo

Project Name: MANDA B TRACT C Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: EUNICE, NM

Sample ID: SP 1 @ 6 (H402670-01)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Reporting Limit Analyzed Method Blank BS % Recovery True Value OC RPD Oualifier Analyte Result Chloride 240 16.0 09/04/2014 ND 432 108 400 3.77

Sample ID: SP 2 @ 5 (H402670-02)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 288 16.0 09/04/2014 ND 432 108 400 3.77

Sample ID: SP 3 @ 10 (H402670-03)

Chloride, SM4500Cl-B Analyzed By: AP mg/kg Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 336 16.0 09/04/2014 ND 400 3.77 432 108

Cardinal Laboratories *=Accredited Analyte

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Celey & Keine

Celey D. Keene, Lab Director/Quality Manager



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

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Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240 505) 393-2326 FAX (505) 393-2476

Kathy Purvis

From: Oberding, Tomas, EMNRD <Tomas.Oberding@state.nm.us>

Sent: Wednesday, October 22, 2014 7:44 AM

To: Cliff P. Brunson

Cc:C J Summers; Ken Swinney; Jennifer Gilkey; Kathy PurvisSubject:RE: OXY - Manda B Tract C Tank Battery - Remediation Plan

Aloha Cliff et all.

Thank you for the meeting yesterday.

Based on the documentation provided OCD approves the remediation plan as written.

I appreciate you help in maintaining a clear paper trail of our logic for others to follow.

Have a great day and be safe out there everyone.

Mahalo

-Doc

Tomáš 'Doc' Oberding, PhD

Environmental Specialist – New Mexico Oil Conservation Division

Energy, Minerals and Natural Resources Department

1625 N. French Dr. Hobbs, NM 88240

(O): (575) 393-6161 ext 111

(C): 575-370-3180 (F): (575) 393-0720

E-Mail: tomas.oberding@state.nm.us

Website: http://www.emnrd.state.nm.us/ocd/

From: Cliff P. Brunson [mailto:cbrunson@bbcinternational.com]

Sent: Tuesday, October 21, 2014 5:50 PM

To: Oberding, Tomas, EMNRD

Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis

Subject: Re: OXY - Manda B Tract C Tank Battery - Remediation Plan

Tomas,

After our meeting this morning, I have altered the remediation plan to reflect our discussion and agreement. Please find attached a revised remediation plan and site drawing that depicts the changes.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.

Hobbs, NM 88240 USA Phone: (575) 397-6388 Fax: (575) 397-0397

E-Mail: cbrunson@bbcinternational.com

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From: "Tomas J. Oberding" < tomas.oberding@state.nm.us>

Date: Monday, October 20, 2014 at 1:40 PM

To: Cliff Brunson <cbrunson@bbcinternational.com>

Cc: C J Summers < Chancey Summers@oxy.com >, Ken Swinney < kswinney@bbcinternational.com >, Jennifer Gilkey

<jgilkey@bbcinternational.com>, Kathy Purvis <kathy@bbcinternational.com>

Subject: RE: OXY - Manda B Tract C Tank Battery - Remediation Plan

Aloha Mr Brunson et al,

Thank you for sending in this document.

There are serious concerns with the impact and impact at depth. Particularly on the west side- the high contaminant levels are not even addressed in the first 2 feet. In addition no mention of a liner to account for deeper contamination is mentioned.

As written the OCD does NOT approve the full plan proposed.

The southern section, does appear to begin to address the contaminants at depth, though SP3 in the second set remains above allowable limits even at 7'.(Depth to groundwater according to our source is 50'-100' in this area).

Please address these concerns. Feel free to contact me for further discussion.

I appreciate your help with this.

-Doc

Tomáš 'Doc' Oberding, PhD
Environmental Specialist – New Mexico Oil Conservation Division
Energy, Minerals and Natural Resources Department
1625 N. French Dr.

Hobbs, NM 88240

(O): (575) 393-6161 ext 111

(C): 575-370-3180 (F): (575) 393-0720

E-Mail: tomas.oberding@state.nm.us

Website: http://www.emnrd.state.nm.us/ocd/

From: Cliff P. Brunson [mailto:cbrunson@bbcinternational.com]

Sent: Monday, October 20, 2014 12:01 PM

To: Oberding, Tomas, EMNRD

Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis Subject: OXY - Manda B Tract C Tank Battery - Remediation Plan

Tomas,

This e-mail is to confirm our conversation on September 22, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. The agreed upon remediation plan is on the first page of the attachment along with the RP number per your previous request. This site is a State only jurisdiction location.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
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Fax: (575) 397-0397

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Appendix C

Site Characterization Documents



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

Groundwater levels for the Nation

■ Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

322219103094302

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322219103094302 22S.37E.21.421434A

Lea County, New Mexico

Table of data

Tab-separated data

1953-03

1953-03 1953-09

1953-09 1953-09

Latitude 32°22'19", Longitude 103°09'43" NAD27

Land-surface elevation 3,351 feet above NAVD88

The depth of the well is 140 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

145 555414										
Graph of da	<u>ata</u>									
Reselect pe	eriod									
Date \$	Time \$? Water-level \$ date- time accuracy	? Parameter [‡] code	Water level, feet below land surface	Water level, feet above \$ specific vertical datum	Referenced vertical \$ datum	? Status	? Method of measurement	? Measuring [‡] agency	? Source of measuren
1953-03		М	62610		3287.62	NGVD29	1	Z		

3289.00

3287.62

3289.00

NAVD88

NGVD29

NAVD88

1

7

Ζ

62.00

62.00

Section	\$	Code	\$	Description	\$
Water-level date-time accuracy		М		Date is accurate to the Month	
Parameter code		62610		Groundwater level above NGVD 1929, feet	
Parameter code		62611		Groundwater level above NAVD 1988, feet	
Parameter code		72019		Depth to water level, feet below land surface	
Referenced vertical datum		NAVD88	3	North American Vertical Datum of 1988	
Referenced vertical datum		NGVD29)	National Geodetic Vertical Datum of 1929	

Explanation

62611

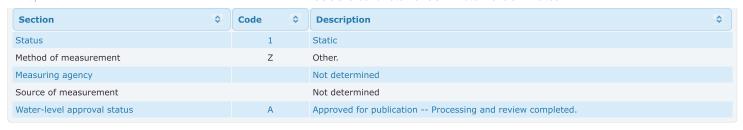
72019

62610

62611

72019

М



Questions or Comments
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
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Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey.

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2023-11-03 12:04:59 EDT

0.31 0.28 nadww01



Click to hideNews Bulletins

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

Groundwater levels for the Nation

■ Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 322127103102201

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322127103102201 22S.37E.28.31243

Lea County, New Mexico

Latitude 32°21'41", Longitude 103°10'23" NAD27

Land-surface elevation 3,342.50 feet above NGVD29

The depth of the well is 112 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1965-10-22		D	62610		3281.30	NGVD29	1	Z		
1965-10-22		D	62611		3282.69	NAVD88	1	Z		
1965-10-22		D	72019	61.20			1	Z		
1970-12-01		D	62610		3280.86	NGVD29	Р	Z		
1970-12-01		D	62611		3282.25	NAVD88	Р	Z		
1970-12-01		D	72019	61.64			Р	Z		
1976-01-20		D	62610		3280.03	NGVD29	1	Z		
1976-01-20		D	62611		3281.42	NAVD88	1	Z		
1976-01-20		D	72019	62.47			1	Z		
1986-03-04		D	62610		3280.07	NGVD29	1	Z		
1986-03-04		D	62611		3281.46	NAVD88	1	Z		
1986-03-04		D	72019	62.43			1	Z		
1991-04-26		D	62610		3277.50	NGVD29	Р	Z		
1991-04-26		D	62611		3278.89	NAVD88	Р	Z		
1991-04-26		D	72019	65.00			Р	Z		
1996-03-13		D	62610		3281.08	NGVD29	1	S		

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1996-03-13		D	62611		3282.47	NAVD88	1	S		
1996-03-13		D	72019	61.42			1	S		
2001-02-07		D	62610		3277.66	NGVD29	1	S		
2001-02-07		D	62611		3279.05	NAVD88	1	S		
2001-02-07		D	72019	64.84			1	S		
2006-02-22		D	62610		3281.32	NGVD29	1	S	USGS	
2006-02-22		D	62611		3282.71	NAVD88	1	S	USGS	
2006-02-22		D	72019	61.18			1	S	USGS	
2010-12-16	18:00 UTC	m	62610		3280.03	NGVD29	1	S	USGS	
2010-12-16	18:00 UTC	m	62611		3281.42	NAVD88	1	S	USGS	
2010-12-16	18:00 UTC	m	72019	62.47			1	S	USGS	
2016-01-06	18:48 UTC	m	62610		3281.90	NGVD29	1	S	USGS	
2016-01-06	18:48 UTC	m	62611		3283.29	NAVD88	1	S	USGS	
2016-01-06	18:48 UTC	m	72019	60.60			1	S	USGS	
2022-01-25		m	62610		3281.68	NGVD29	Р	S	USGS	
2022-01-25		m	62611		3283.07	NAVD88	Р	S	USGS	
2022-01-25		m	72019	60.82			Р	S	USGS	
2023-02-09		m	62610		3282.04	NGVD29	1	S	USGS	
2023-02-09		m	62611		3283.43	NAVD88	1	S	USGS	
2023-02-09	19:24 UTC	m	72019	60.46			1	S	USGS	

Explanation

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

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USA.gov

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

Q64 Q16 Q4 Sec Tws Rng

 \mathbf{X}

CP 00503

22S 37E

672965 3583144*

Driller License:

Driller Company:

VAN NOY, W.L.

208

5.00

VAN NOY, W.L.

09/12/1972 **Drill Finish Date:** 09/15/1972

Plug Date:

Log File Date:

Drill Start Date:

Driller Name:

09/25/1972

PCW Rcv Date:

Depth Well:

Source:

Shallow

Pump Type: **Casing Size:** Pipe Discharge Size:

115 feet

Estimated Yield: Depth Water:

65 feet

Water Bearing Stratifications:

Top

Bottom Description

70

110 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top **Bottom** 85

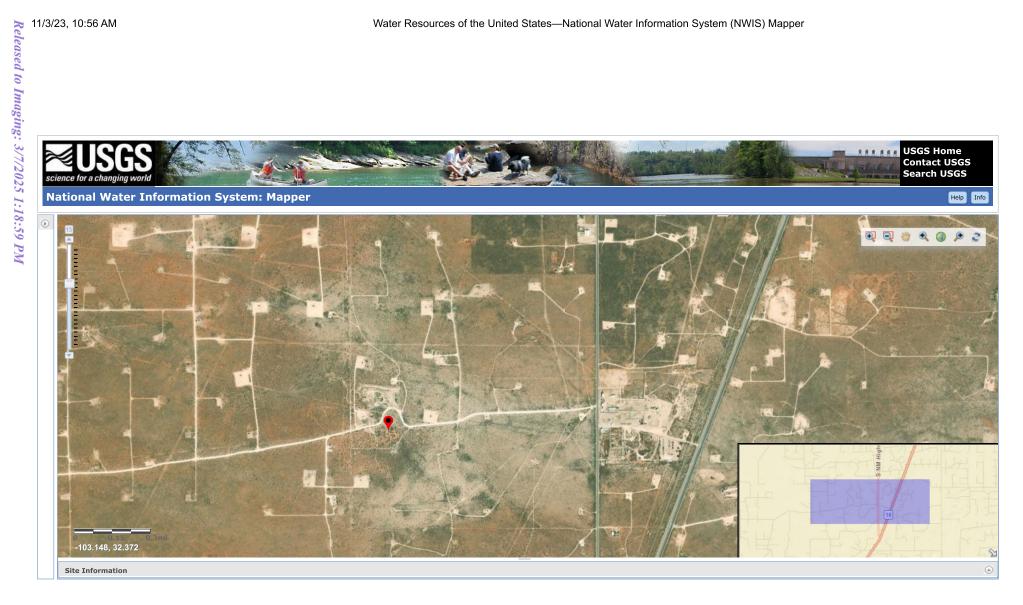
110

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

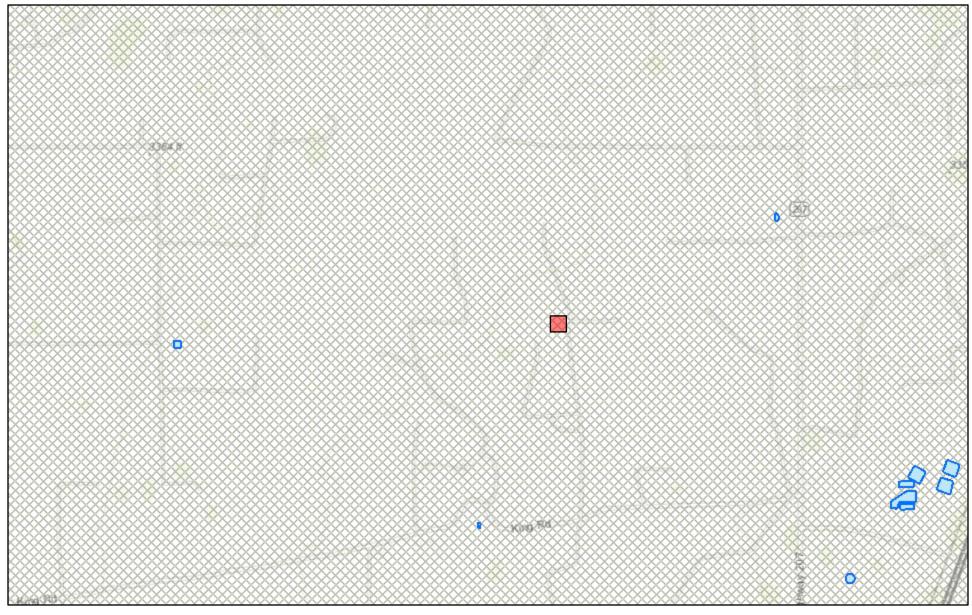
11/3/23 9:46 AM

POINT OF DIVERSION SUMMARY

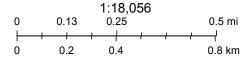
^{*}UTM location was derived from PLSS - see Help



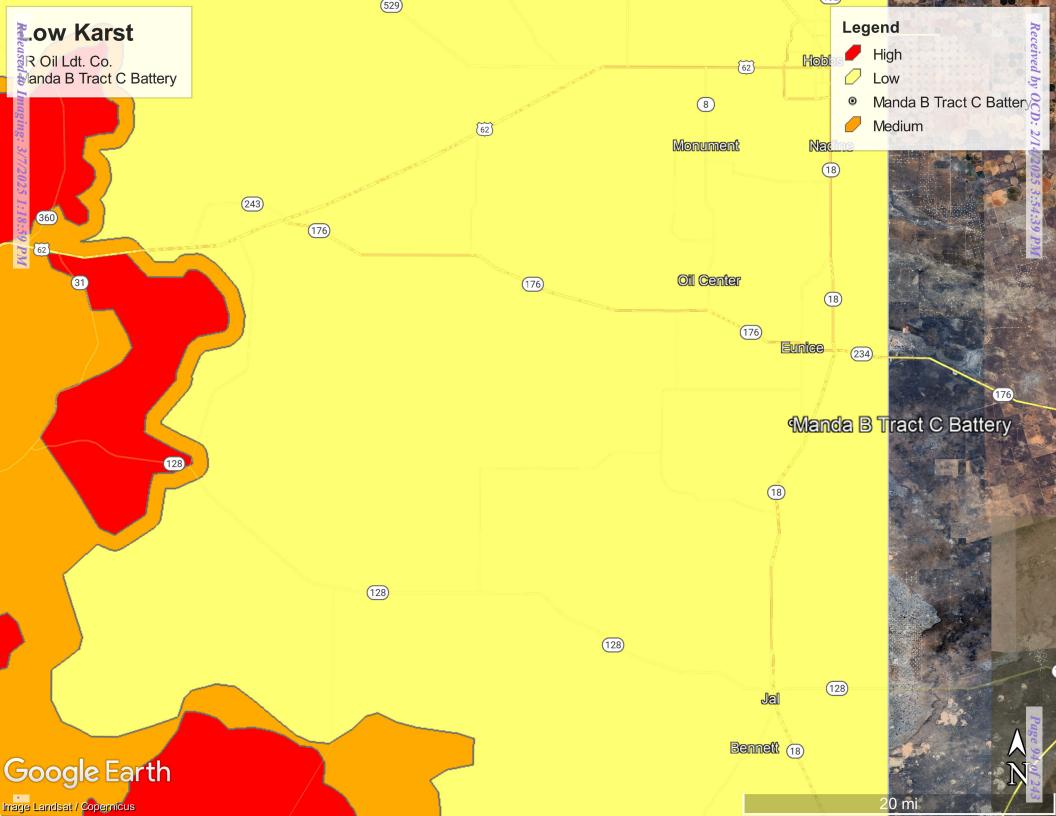
New Mexico NFHL Data



November 3, 2023



FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,





New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

 \mathbf{X}

CP 00503

22S 37E

672965 3583144*

Driller License:

Driller Company:

208

VAN NOY, W.L.

Driller Name: Drill Start Date: VAN NOY, W.L.

09/12/1972

Drill Finish Date:

09/15/1972

Plug Date:

Log File Date:

09/25/1972

PCW Rcv Date:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

5.00

Depth Well:

115 feet

Depth Water:

65 feet

Water Bearing Stratifications:

Bottom Description Top 70

Top

85

110 Sandstone/Gravel/Conglomerate

Casing Perforations:

Bottom

110

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

11/3/23 9:46 AM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



Appendix D

Laboratory Reports

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Brittany Long Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Generated 10/31/2023 8:59:01 AM

JOB DESCRIPTION

JR Oil

JOB NUMBER

890-5488-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization

Generated 10/31/2023 8:59:01 AM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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10

13

14

Client: Tetra Tech, Inc.

Laboratory Job ID: 890-5488-1

Project/Site: JR Oil

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Sample Summary	54
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Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 890-5488-1

Project/Site: JR Oil

Qualifiers

GC VOA Qualifier

Qualifier Description Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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

GC Semi VOA

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

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

Glossary

Ciossary			
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
NC	Not Calculated

NEG	Negative / Absent
POS	Positive / Present
POI	Practical Quantitatio

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) Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-5488-1

Project/Site: JR Oil

Job ID: 890-5488-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5488-1

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

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

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

Receipt

The samples were received on 10/19/2023 1:16 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 5.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (890-5488-1), H-2 (890-5488-2), H-3 (890-5488-3), H-4 (890-5488-4), H-5 (890-5488-5), H-6 (890-5488-6), H-7 (890-5488-7), H-8 (890-5488-8), AH-1 0-1 (890-5488-9), AH-1 1-1.5 (890-5488-10), AH-1 2-2.5 (890-5488-11), AH-1 3-3.5 (890-5488-12), AH-1 4-4.5 (890-5488-13), AH-2 0-1 (890-5488-14), AH-2 1-1.5 (890-5488-15), AH-2 2-2.5 (890-5488-16), AH-3 0-1 (890-5488-17), AH-3 1-1.5 (890-5488-18), AH-3 2-2.5 (890-5488-19), AH-4 0-1 (890-5488-20), AH-4 1-1.5 (890-5488-21), AH-4 2-2.5 (890-5488-22), AH-5 0-1 (890-5488-23), AH-5 1-1.5 (890-5488-24), AH-5 2-2.5 (890-5488-25), AH-5 3-3.5 (890-5488-26), AH-5 4-4.5 (890-5488-27), AH-6 0-1 (890-5488-28), AH-6 1-1.5 (890-5488-29), AH-6 2-2.5 (890-5488-30) and AH-6 3-3.5 (890-5488-31).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-65466 and analytical batch 880-65514 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-65487/5-A). Evidence of matrix interference is present: therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The following sample was diluted due to the nature of the sample matrix: AH-4 1-1.5 (890-5488-21). Elevated reporting limits (RLs) are provided.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-65489 and analytical batch 880-65593 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: AH-1 0-1 (890-5488-9), AH-1 1-1.5 (890-5488-10) and AH-1 2-2.5 (890-5488-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The following samples were diluted due to the nature of the sample matrix: AH-1 0-1 (890-5488-9), AH-1 1-1.5 (890-5488-10) and AH-1 2-2.5 (890-5488-11). Elevated reporting limits (RLs) are provided.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-65361 and analytical batch 880-65296 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: H-4 (890-5488-4). Evidence of matrix

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Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-5488-1

Project/Site: JR Oil

Job ID: 890-5488-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: AH-1 2-2.5 (890-5488-11), AH-1 4-4.5 (890-5488-13), AH-2 1-1.5 (890-5488-15), AH-3 2-2.5 (890-5488-19) and AH-4 0-1 (890-5488-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-65363 and analytical batch 880-65298 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: AH-5 2-2.5 (890-5488-25). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-65298/58). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-65363 and analytical batch 880-65298 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-65215 and analytical batch 880-65419 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.

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Client: Tetra Tech, Inc.

Job ID: 890-5488-1

Project/Site: JR Oil

Client Sample ID: H-1 Lab Sample ID: 890-5488-1

Date Collected: 10/18/23 00:00 Matrix: Solid
Date Received: 10/19/23 13:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		10/24/23 14:46	10/27/23 00:24	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		10/24/23 14:46	10/27/23 00:24	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		10/24/23 14:46	10/27/23 00:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		10/24/23 14:46	10/27/23 00:24	1
o-Xylene	0.000439	J	0.00200	0.000343	mg/Kg		10/24/23 14:46	10/27/23 00:24	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		10/24/23 14:46	10/27/23 00:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				10/24/23 14:46	10/27/23 00:24	1
1,4-Difluorobenzene (Surr)	103		70 - 130				10/24/23 14:46	10/27/23 00:24	1
- Method: SW846 8015B NN	1 - Diesel Range	Organics	(DRO) (GC)						
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Gasoline Range Organics (GRO)-C6-C10	24.2	J	49.6	14.9	mg/Kg	10/23/23 12:12	10/23/23 20:51	1
Diesel Range Organics (Over C10-C28)	15.4	J	49.6	14.9	mg/Kg	10/23/23 12:12	10/23/23 20:51	1
Oll Range Organics (Over C28-C36)	<49.6	U	49.6	14.9	mg/Kg	10/23/23 12:12	10/23/23 20:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130			10/23/23 12:12	10/23/23 20:51	1
o-Terphenyl	110		70 - 130			10/23/23 12:12	10/23/23 20:51	1

Method: EPA 300.0 - Anions, le	on Chromat	ography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.2		4.99	0.394	mg/Kg			10/25/23 05:08	1

Client Sample ID: H-2

Date Collected: 10/18/23 00:00

Lab Sample ID: 890-5488-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		10/24/23 14:46	10/27/23 00:44	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		10/24/23 14:46	10/27/23 00:44	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		10/24/23 14:46	10/27/23 00:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		10/24/23 14:46	10/27/23 00:44	1
o-Xylene	0.000659	J	0.00201	0.000345	mg/Kg		10/24/23 14:46	10/27/23 00:44	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		10/24/23 14:46	10/27/23 00:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				10/24/23 14:46	10/27/23 00:44	1
1.4-Difluorobenzene (Surr)	106		70 - 130				10/24/23 14:46	10/27/23 00:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.0	J	50.5	15.2	mg/Kg		10/23/23 12:12	10/23/23 21:55	1
Diesel Range Organics (Over C10-C28)	38.3	J	50.5	15.2	mg/Kg		10/23/23 12:12	10/23/23 21:55	1
Oll Range Organics (Over C28-C36)	<50.5	U	50.5	15.2	mg/Kg		10/23/23 12:12	10/23/23 21:55	1

Eurofins Carlsbad

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Date Received: 10/19/23 13:16

Client: Tetra Tech, Inc. Project/Site: JR Oil

Client Sample ID: H-2

Lab Sample ID: 890-5488-2

Matrix: Solid

Date Collected: 10/18/23 00:00 Date Received: 10/19/23 13:16

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	10/23/23 12:12	10/23/23 21:55	1
o-Terphenyl	100		70 - 130	10/23/23 12:12	10/23/23 21:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	38.3		4.98	0.393	mg/Kg			10/25/23 05:14	1

Lab Sample ID: 890-5488-3 Client Sample ID: H-3

Date Collected: 10/18/23 00:00 **Matrix: Solid**

Date Received: 10/19/23 13:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		10/24/23 14:46	10/27/23 01:05	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		10/24/23 14:46	10/27/23 01:05	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		10/24/23 14:46	10/27/23 01:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		10/24/23 14:46	10/27/23 01:05	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		10/24/23 14:46	10/27/23 01:05	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		10/24/23 14:46	10/27/23 01:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89	-	70 - 130				10/24/23 14:46	10/27/23 01:05	1
1,4-Difluorobenzene (Surr)	113		70 - 130				10/24/23 14:46	10/27/23 01:05	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.4	J	50.4	15.1	mg/Kg		10/23/23 12:12	10/23/23 22:17	1
Diesel Range Organics (Over C10-C28)	37.3	J	50.4	15.1	mg/Kg		10/23/23 12:12	10/23/23 22:17	1
Oll Range Organics (Over C28-C36)	<50.4	U	50.4	15.1	mg/Kg		10/23/23 12:12	10/23/23 22:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				10/23/23 12:12	10/23/23 22:17	1
o-Terphenyl	113		70 - 130				10/23/23 12:12	10/23/23 22:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
١	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	32.6		5.03	0.397	mg/Kg			10/25/23 06:33	1

Client Sample ID: H-4 Lab Sample ID: 890-5488-4 Date Collected: 10/18/23 00:00 Matrix: Solid

Date Received: 10/19/23 13:16

Method: SW846 8021B - Volatile Organic Compounds (GC)											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		10/24/23 14:46	10/27/23 01:25	1		
Toluene	< 0.00199	U	0.00199	0.000453	mg/Kg		10/24/23 14:46	10/27/23 01:25	1		
Ethylbenzene	< 0.00199	U	0.00199	0.000562	mg/Kg		10/24/23 14:46	10/27/23 01:25	1		
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		10/24/23 14:46	10/27/23 01:25	1		
o-Xylene	< 0.00199	U	0.00199	0.000342	mg/Kg		10/24/23 14:46	10/27/23 01:25	1		
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		10/24/23 14:46	10/27/23 01:25	1		

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Client: Tetra Tech, Inc. Project/Site: JR Oil

Client Sample ID: H-4 Lab Sample ID: 890-5488-4

Date Collected: 10/18/23 00:00 **Matrix: Solid**

Date Received: 10/19/23 13:16

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	10/24/23 14:46 10/27/23 01:25	1
1,4-Difluorobenzene (Surr)	107		70 - 130	10/24/23 14:46 10/27/23 01:25	1

4-Bromofluorobenzene (Surr)	96	70 - 130	10/24/23 14:46 10	1/27/23 01:25	1
1,4-Difluorobenzene (Surr)	107	70 - 130	10/24/23 14:46 10	/27/23 01:25	1
	esel Range Orga	nics (DRO) (GC)			

Method: SW846 8015B NM - D	Diesel Range	Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.9	J	49.9	15.0	mg/Kg		10/23/23 12:12	10/23/23 22:38	1
Diesel Range Organics (Over C10-C28)	61.8		49.9	15.0	mg/Kg		10/23/23 12:12	10/23/23 22:38	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		10/23/23 12:12	10/23/23 22:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				10/23/23 12:12	10/23/23 22:38	1
o-Terphenyl	111		70 - 130				10/23/23 12:12	10/23/23 22:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	36.3	5.05	0.399 mg/Kg			10/25/23 06:50	1	

Client Sample ID: H-5 Lab Sample ID: 890-5488-5 **Matrix: Solid**

Date Collected: 10/18/23 00:00

Date Received: 10/19/23 13:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		10/24/23 14:46	10/27/23 01:46	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		10/24/23 14:46	10/27/23 01:46	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		10/24/23 14:46	10/27/23 01:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		10/24/23 14:46	10/27/23 01:46	1
o-Xylene	< 0.00200	U	0.00200	0.000343	mg/Kg		10/24/23 14:46	10/27/23 01:46	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		10/24/23 14:46	10/27/23 01:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				10/24/23 14:46	10/27/23 01:46	1
1,4-Difluorobenzene (Surr)	111		70 - 130				10/24/23 14:46	10/27/23 01:46	1

Surrogate 1-Chlorooctane	%Recovery	Qualifier	70 - 130				Prepared 10/23/23 12:12	Analyzed 10/23/23 22:59	Dil Fac
Oll Range Organics (Over C28-C36)	<49.6		49.6	14.9	mg/Kg		10/23/23 12:12		1 Dil Foo
Diesel Range Organics (Over C10-C28)	21.2		49.6		mg/Kg		10/23/23 12:12		1
Gasoline Range Organics (GRO)-C6-C10	21.6	J	49.6	14.9	mg/Kg		10/23/23 12:12	10/23/23 22:59	1
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
: : Method: SW846 8015B NM - I		o Organics					10/24/23 14.40	10/21/23 01.40	,
1.4-Difluorobenzene (Surr)	111		70 - 130 70 - 130					10/27/23 01:46	1
4-Bromofluorobenzene (Surr)	99		70 - 130				10/24/23 14:46	10/27/23 01:46	1

Eurofins Carlsbad

10/25/23 06:55

5.05

23.3

0.399 mg/Kg

Chloride

Client: Tetra Tech, Inc. Project/Site: JR Oil

Client Sample ID: H-6

Lab Sample ID: 890-5488-6

Date Collected: 10/18/23 00:00 **Matrix: Solid** Date Received: 10/19/23 13:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		10/24/23 14:46	10/27/23 02:06	1
Toluene	<0.00201	U	0.00201	0.000459	mg/Kg		10/24/23 14:46	10/27/23 02:06	1
Ethylbenzene	<0.00201	U	0.00201	0.000568	mg/Kg		10/24/23 14:46	10/27/23 02:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg		10/24/23 14:46	10/27/23 02:06	1
o-Xylene	<0.00201	U	0.00201	0.000346	mg/Kg		10/24/23 14:46	10/27/23 02:06	1
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg		10/24/23 14:46	10/27/23 02:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				10/24/23 14:46	10/27/23 02:06	1
1,4-Difluorobenzene (Surr)	113		70 - 130				10/24/23 14:46	10/27/23 02:06	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.8	J	49.7	14.9	mg/Kg		10/23/23 12:12	10/23/23 23:21	1
Diesel Range Organics (Over C10-C28)	15.5	J	49.7	14.9	mg/Kg		10/23/23 12:12	10/23/23 23:21	1
Oll Range Organics (Over C28-C36)	<49.7	U	49.7	14.9	mg/Kg		10/23/23 12:12	10/23/23 23:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				10/23/23 12:12	10/23/23 23:21	1
o-Terphenyl	102		70 - 130				10/23/23 12:12	10/23/23 23:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	33.0		5.01	0.396	mg/Kg			10/25/23 07:01	1

Client Sample ID: H-7 Lab Sample ID: 890-5488-7 Date Collected: 10/18/23 00:00 **Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		10/24/23 14:46	10/27/23 02:26	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		10/24/23 14:46	10/27/23 02:26	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		10/24/23 14:46	10/27/23 02:26	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		10/24/23 14:46	10/27/23 02:26	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		10/24/23 14:46	10/27/23 02:26	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		10/24/23 14:46	10/27/23 02:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				10/24/23 14:46	10/27/23 02:26	1
1.4-Difluorobenzene (Surr)	111		70 - 130				10/24/23 14:46	10/27/23 02:26	1

Method: SW846 8015B NM - Die Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.3	J	50.0	15.0	mg/Kg		10/23/23 12:12	10/23/23 23:42	1
Diesel Range Organics (Over C10-C28)	74.6		50.0	15.0	mg/Kg		10/23/23 12:12	10/23/23 23:42	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		10/23/23 12:12	10/23/23 23:42	1

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Date Received: 10/19/23 13:16

Client: Tetra Tech, Inc. Project/Site: JR Oil

Client Sample ID: H-7

Lab Sample ID: 890-5488-7

Matrix: Solid

Date Collected: 10/18/23 00:00 Date Received: 10/19/23 13:16

Surrogate	%Recovery	Qualifier	Limits	Prepared A	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	10/23/23 12:12 10/	23/23 23:42	1
o-Terphenyl	105		70 - 130	10/23/23 12:12 10/	′23/23 23:42	1

Method: EPA 300.0 - Anions, Id	on Chromat	ography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.9		5.03	0.397	mg/Kg			10/25/23 07:06	1

Client Sample ID: H-8 Lab Sample ID: 890-5488-8

Date Collected: 10/18/23 00:00 Matrix: Solid

Date Received: 10/19/23 13:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		10/24/23 14:46	10/27/23 02:47	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		10/24/23 14:46	10/27/23 02:47	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		10/24/23 14:46	10/27/23 02:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		10/24/23 14:46	10/27/23 02:47	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		10/24/23 14:46	10/27/23 02:47	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		10/24/23 14:46	10/27/23 02:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				10/24/23 14:46	10/27/23 02:47	1
1,4-Difluorobenzene (Surr)	110		70 - 130				10/24/23 14:46	10/27/23 02:47	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	18.8	J	50.2	15.0	mg/Kg		10/23/23 12:12	10/24/23 00:03	1
Diesel Range Organics (Over C10-C28)	63.8		50.2	15.0	mg/Kg		10/23/23 12:12	10/24/23 00:03	1
Oll Range Organics (Over C28-C36)	<50.2	U	50.2	15.0	mg/Kg		10/23/23 12:12	10/24/23 00:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				10/23/23 12:12	10/24/23 00:03	1
o-Terphenyl	105		70 - 130				10/23/23 12:12	10/24/23 00:03	1

	Method: EPA 300.0 - Anions, Id	n Chromat	ography -	Soluble						
١	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	94.6		5.05	0.399	mg/Kg			10/25/23 07:23	1

Client Sample ID: AH-1 0-1

Date Collected: 10/18/23 00:00

Lab Sample ID: 890-5488-9

Matrix: Solid

Date Received: 10/19/23 13:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0199	U	0.0199	0.00383	mg/Kg		10/26/23 11:52	10/28/23 16:25	10
Toluene	< 0.0199	U	0.0199	0.00454	mg/Kg		10/26/23 11:52	10/28/23 16:25	10
Ethylbenzene	< 0.0199	U	0.0199	0.00563	mg/Kg		10/26/23 11:52	10/28/23 16:25	10
m-Xylene & p-Xylene	<0.0398	U	0.0398	0.0101	mg/Kg		10/26/23 11:52	10/28/23 16:25	10
o-Xylene	< 0.0199	U	0.0199	0.00343	mg/Kg		10/26/23 11:52	10/28/23 16:25	10
Xylenes, Total	< 0.0398	U	0.0398	0.0101	mg/Kg		10/26/23 11:52	10/28/23 16:25	10

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Client: Tetra Tech, Inc.

Job ID: 890-5488-1

Project/Site: JR Oil

Client Sample ID: AH-1 0-1 Lab Sample ID: 890-5488-9

Date Collected: 10/18/23 00:00 Matrix: Solid
Date Received: 10/19/23 13:16

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71	70 - 130	10/26/23 11:52	10/28/23 16:25	10
1,4-Difluorobenzene (Surr)	137 S1+	70 - 130	10/26/23 11:52	10/28/23 16:25	10

1,4-Difluorobenzene (Surr)	137	S1+	70 - 130				10/26/23 11:52	10/28/23 16:25	10
Method: SW846 8015B NM - D	iesel Range	e Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<252	U	252	75.6	mg/Kg		10/23/23 12:12	10/24/23 02:53	5
Diesel Range Organics (Over C10-C28)	10200		252	75.6	mg/Kg		10/23/23 12:12	10/24/23 02:53	5
Oll Range Organics (Over C28-C36)	<252	U	252	75.6	mg/Kg		10/23/23 12:12	10/24/23 02:53	į
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				10/23/23 12:12	10/24/23 02:53	- 5
o-Terphenyl	103		70 - 130				10/23/23 12:12	10/24/23 02:53	5

Method: EPA 300.0 - Anions, Id	on Chromat	ography - S	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.5		5.04	0.398	mg/Kg			10/25/23 07:29	1

Client Sample ID: AH-1 1-1.5

Date Collected: 10/18/23 00:00

Lab Sample ID: 890-5488-10

Matrix: Solid

Date Collected: 10/18/23 00:00 Date Received: 10/19/23 13:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0199	U	0.0199	0.00383	mg/Kg		10/26/23 11:52	10/28/23 16:46	10
Toluene	< 0.0199	U	0.0199	0.00453	mg/Kg		10/26/23 11:52	10/28/23 16:46	10
Ethylbenzene	<0.0199	U	0.0199	0.00562	mg/Kg		10/26/23 11:52	10/28/23 16:46	10
m-Xylene & p-Xylene	<0.0398	U	0.0398	0.0100	mg/Kg		10/26/23 11:52	10/28/23 16:46	10
o-Xylene	0.00701	J	0.0199	0.00342	mg/Kg		10/26/23 11:52	10/28/23 16:46	10
Xylenes, Total	<0.0398	U	0.0398	0.0100	mg/Kg		10/26/23 11:52	10/28/23 16:46	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	52	S1-	70 - 130				10/26/23 11:52	10/28/23 16:46	10
1,4-Difluorobenzene (Surr)	127		70 - 130				10/26/23 11:52	10/28/23 16:46	10

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	52	S1-	70 - 130				10/26/23 11:52	10/28/23 16:46	10
1,4-Difluorobenzene (Surr)	127		70 - 130				10/26/23 11:52	10/28/23 16:46	10
Method: SW846 8015B NM - D	iesel Range	Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	15.2	mg/Kg		10/23/23 12:12	10/24/23 01:50	1
Diesel Range Organics (Over C10-C28)	5090		50.5	15.2	mg/Kg		10/23/23 12:12	10/24/23 01:50	1
Oll Range Organics (Over C28-C36)	<50.5	U	50.5	15.2	mg/Kg		10/23/23 12:12	10/24/23 01:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				10/23/23 12:12	10/24/23 01:50	1
o-Terphenyl	105		70 - 130				10/23/23 12:12	10/24/23 01:50	1
Method: EPA 300.0 - Anions, I	on Chroma	tography -	Soluble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.1		5.04	0.398	mg/Kg			10/25/23 07:35	

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Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-5488-1

Project/Site: JR Oil

Client Sample ID: AH-1 2-2.5

Lab Sample ID: 890-5488-11 Date Collected: 10/18/23 00:00 Matrix: Solid

Date Received: 10/19/23 13:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0200	U	0.0200	0.00384	mg/Kg		10/26/23 11:52	10/28/23 17:06	10
Toluene	<0.0200	U	0.0200	0.00455	mg/Kg		10/26/23 11:52	10/28/23 17:06	10
Ethylbenzene	<0.0200	U	0.0200	0.00564	mg/Kg		10/26/23 11:52	10/28/23 17:06	10
m-Xylene & p-Xylene	<0.0399	U	0.0399	0.0101	mg/Kg		10/26/23 11:52	10/28/23 17:06	10
o-Xylene	<0.0200	U	0.0200	0.00343	mg/Kg		10/26/23 11:52	10/28/23 17:06	10
Xylenes, Total	<0.0399	U	0.0399	0.0101	mg/Kg		10/26/23 11:52	10/28/23 17:06	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130				10/26/23 11:52	10/28/23 17:06	10
1,4-Difluorobenzene (Surr)	137	S1+	70 - 130				10/26/23 11:52	10/28/23 17:06	10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		10/23/23 12:12	10/24/23 02:11	1
Diesel Range Organics (Over C10-C28)	4400		50.0	15.0	mg/Kg		10/23/23 12:12	10/24/23 02:11	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		10/23/23 12:12	10/24/23 02:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130				10/23/23 12:12	10/24/23 02:11	1
o-Terphenvl	117		70 - 130				10/23/23 12:12	10/24/23 02:11	1

Method: EPA 300.0 - Anions, lo	n Chromat	ography - S	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.8		5.00	0.395	mg/Kg			10/25/23 07:40	1

Client Sample ID: AH-1 3-3.5 Lab Sample ID: 890-5488-12 Date Collected: 10/18/23 00:00 **Matrix: Solid** Date Received: 10/19/23 13:16

Method: SW846 8021B - Vo	latile Organic	Compound	ds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		10/24/23 14:46	10/27/23 05:18	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		10/24/23 14:46	10/27/23 05:18	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		10/24/23 14:46	10/27/23 05:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		10/24/23 14:46	10/27/23 05:18	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		10/24/23 14:46	10/27/23 05:18	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		10/24/23 14:46	10/27/23 05:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				10/24/23 14:46	10/27/23 05:18	1
1,4-Difluorobenzene (Surr)	101		70 - 130				10/24/23 14:46	10/27/23 05:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		10/23/23 12:12	10/24/23 00:25	1
Diesel Range Organics (Over C10-C28)	425		50.0	15.0	mg/Kg		10/23/23 12:12	10/24/23 00:25	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		10/23/23 12:12	10/24/23 00:25	1

Client: Tetra Tech, Inc. Project/Site: JR Oil

Client Sample ID: AH-1 3-3.5 Lab Sample ID: 890-5488-12

Date Collected: 10/18/23 00:00 Matrix: Solid

Date Received: 10/19/23 13:16

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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	127	70 - 130	10/23/23 12:12	10/24/23 00:25	1
o-Terphenyl	110	70 - 130	10/23/23 12:12	10/24/23 00:25	1

Method: EPA 300.0 - Anions, I	on Chromatogra	phy - Soluble						
Analyte	Result Quali	ifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	249	5.01	0.396	mg/Kg			10/25/23 07:46	1

Client Sample ID: AH-1 4-4.5 Lab Sample ID: 890-5488-13

Date Collected: 10/18/23 00:00 Matrix: Solid

Date Received: 10/19/23 13:16

1,4-Difluorobenzene (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		10/24/23 14:46	10/27/23 05:39	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		10/24/23 14:46	10/27/23 05:39	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		10/24/23 14:46	10/27/23 05:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		10/24/23 14:46	10/27/23 05:39	1
o-Xylene	0.000357	J	0.00200	0.000343	mg/Kg		10/24/23 14:46	10/27/23 05:39	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		10/24/23 14:46	10/27/23 05:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				10/24/23 14:46	10/27/23 05:39	

70 - 130

Method: SW846 8015B NM - D	iesel Range	Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	16.9	J	49.8	14.9	mg/Kg		10/23/23 12:12	10/24/23 00:46	1
Diesel Range Organics (Over C10-C28)	272		49.8	14.9	mg/Kg		10/23/23 12:12	10/24/23 00:46	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		10/23/23 12:12	10/24/23 00:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130				10/23/23 12:12	10/24/23 00:46	1
o-Terphenyl	118		70 - 130				10/23/23 12:12	10/24/23 00:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	241	4.98	0.393 mg/Kg			10/25/23 07:52	1		

Client Sample ID: AH-2 0-1

Date Collected: 10/18/23 00:00

Lab Sample ID: 890-5488-14

Matrix: Solid

Date Received: 10/19/23 13:16

Method: SW846 8021B - Volatile Organic Compounds (GC)											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		10/24/23 14:46	10/27/23 05:59	1		
Toluene	<0.00201	U	0.00201	0.000459	mg/Kg		10/24/23 14:46	10/27/23 05:59	1		
Ethylbenzene	<0.00201	U	0.00201	0.000568	mg/Kg		10/24/23 14:46	10/27/23 05:59	1		
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg		10/24/23 14:46	10/27/23 05:59	1		
o-Xylene	<0.00201	U	0.00201	0.000346	mg/Kg		10/24/23 14:46	10/27/23 05:59	1		
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg		10/24/23 14:46	10/27/23 05:59	1		

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10/24/23 14:46 10/27/23 05:39

Client: Tetra Tech, Inc. Project/Site: JR Oil

Client Sample ID: AH-2 0-1

Lab Sample ID: 890-5488-14

Date Collected: 10/18/23 00:00 Matrix: Solid

Date Received: 10/19/23 13:16

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	10/24/23 14:46	10/27/23 05:59	1
1,4-Difluorobenzene (Surr)	107		70 - 130	10/24/23 14:46	10/27/23 05:59	1

4-Bromofluorobenzene (Surr)	92	70 - 130	10/24/23 14:46 10/27/	23 05:59 1
1,4-Difluorobenzene (Surr)	107	70 - 130	10/24/23 14:46 10/27/	²³ 05:59 1

Method: SW846 8015B NM - D	Diesel Range	Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<248	U	248	74.4	mg/Kg		10/23/23 12:12	10/24/23 03:14	5
Diesel Range Organics (Over C10-C28)	4420		248	74.4	mg/Kg		10/23/23 12:12	10/24/23 03:14	5
Oll Range Organics (Over C28-C36)	<248	U	248	74.4	mg/Kg		10/23/23 12:12	10/24/23 03:14	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				10/23/23 12:12	10/24/23 03:14	5
o-Terphenyl	112		70 - 130				10/23/23 12:12	10/24/23 03:14	5

Method: EPA 300.0 - Anions, Id									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	234		5.05	0.399	mg/Kg			10/25/23 08:08	1

Lab Sample ID: 890-5488-15 Client Sample ID: AH-2 1-1.5 **Matrix: Solid**

Date Collected: 10/18/23 00:00

Date Received: 10/19/23 13:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		10/24/23 14:46	10/27/23 06:20	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		10/24/23 14:46	10/27/23 06:20	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		10/24/23 14:46	10/27/23 06:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		10/24/23 14:46	10/27/23 06:20	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		10/24/23 14:46	10/27/23 06:20	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		10/24/23 14:46	10/27/23 06:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				10/24/23 14:46	10/27/23 06:20	1
1,4-Difluorobenzene (Surr)	105		70 - 130				10/24/23 14:46	10/27/23 06:20	1

Surrogate	701 COVELY	Qualifiei	Liiiilo				riepaieu	Allalyzeu	Diriac
4-Bromofluorobenzene (Surr)	88		70 - 130				10/24/23 14:46	10/27/23 06:20	1
1,4-Difluorobenzene (Surr)	105		70 - 130				10/24/23 14:46	10/27/23 06:20	1
Method: SW846 8015B NM - I	Diesel Range	e Organics	(DRO) (GC)						
Analyte	•	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	82.2	J	252	75.7	mg/Kg		10/23/23 12:12	10/24/23 03:36	5
Diesel Range Organics (Over C10-C28)	5160		252	75.7	mg/Kg		10/23/23 12:12	10/24/23 03:36	5
Oll Range Organics (Over C28-C36)	<252	U	252	75.7	mg/Kg		10/23/23 12:12	10/24/23 03:36	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130				10/23/23 12:12	10/24/23 03:36	5
o-Terphenyl	130		70 - 130				10/23/23 12:12	10/24/23 03:36	5
Method: EPA 300.0 - Anions,	Ion Chroma	tography -	- Soluble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	229		5.04	0.398	mg/Kg		-	10/25/23 08:14	1

Project/Site: JR Oil

Client Sample ID: AH-2 2-2.5 Lab Sample ID: 890-5488-16

Date Collected: 10/18/23 00:00 Matrix: Solid
Date Received: 10/19/23 13:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		10/24/23 14:46	10/27/23 06:40	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		10/24/23 14:46	10/27/23 06:40	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		10/24/23 14:46	10/27/23 06:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		10/24/23 14:46	10/27/23 06:40	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		10/24/23 14:46	10/27/23 06:40	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		10/24/23 14:46	10/27/23 06:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				10/24/23 14:46	10/27/23 06:40	1
1,4-Difluorobenzene (Surr)	105		70 - 130				10/24/23 14:46	10/27/23 06:40	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	15.1	mg/Kg		10/23/23 12:12	10/24/23 04:18	1
Diesel Range Organics (Over C10-C28)	724		50.3	15.1	mg/Kg		10/23/23 12:12	10/24/23 04:18	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3	15.1	mg/Kg		10/23/23 12:12	10/24/23 04:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				10/23/23 12:12	10/24/23 04:18	1
o-Terphenvl	105		70 - 130				10/23/23 12:12	10/24/23 04:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	621		4.98	0.393	mg/Kg			10/25/23 08:31	1

Client Sample ID: AH-3 0-1

Date Collected: 10/18/23 00:00

Matrix: Solid

Date Received: 10/19/23 13:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		10/24/23 14:46	10/27/23 07:00	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		10/24/23 14:46	10/27/23 07:00	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		10/24/23 14:46	10/27/23 07:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		10/24/23 14:46	10/27/23 07:00	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		10/24/23 14:46	10/27/23 07:00	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		10/24/23 14:46	10/27/23 07:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				10/24/23 14:46	10/27/23 07:00	1
1,4-Difluorobenzene (Surr)	112		70 - 130				10/24/23 14:46	10/27/23 07:00	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	15.1	mg/Kg		10/23/23 12:12	10/24/23 01:29	1		
Diesel Range Organics (Over C10-C28)	4290		50.5	15.1	mg/Kg		10/23/23 12:12	10/24/23 01:29	1		
Oll Range Organics (Over C28-C36)	<50.5	U	50.5	15.1	mg/Kg		10/23/23 12:12	10/24/23 01:29	1		

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Client: Tetra Tech, Inc. Project/Site: JR Oil

Client Sample ID: AH-3 0-1 Lab Sample ID: 890-5488-17 Date Collected: 10/18/23 00:00

Matrix: Solid

Date Received: 10/19/23 13:16

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	10/23/23 12:12	10/24/23 01:29	1
o-Terphenyl	105		70 - 130	10/23/23 12:12	10/24/23 01:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	94.9		5.03	0.397	mg/Kg			10/25/23 08:37	1

Lab Sample ID: 890-5488-18 Client Sample ID: AH-3 1-1.5

Date Collected: 10/18/23 00:00 **Matrix: Solid**

Date Received: 10/19/23 13:16

Method: SW846 8021B - Vo	latile Organic	Compoun	ds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		10/24/23 14:46	10/27/23 07:21	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		10/24/23 14:46	10/27/23 07:21	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		10/24/23 14:46	10/27/23 07:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		10/24/23 14:46	10/27/23 07:21	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		10/24/23 14:46	10/27/23 07:21	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		10/24/23 14:46	10/27/23 07:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				10/24/23 14:46	10/27/23 07:21	1
1,4-Difluorobenzene (Surr)	107		70 - 130				10/24/23 14:46	10/27/23 07:21	1

Method: SW846 8015B NM - D	iesel Range	Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	14.9	mg/Kg		10/23/23 12:12	10/24/23 02:32	1
Diesel Range Organics (Over C10-C28)	2320		49.7	14.9	mg/Kg		10/23/23 12:12	10/24/23 02:32	1
Oll Range Organics (Over C28-C36)	<49.7	U	49.7	14.9	mg/Kg		10/23/23 12:12	10/24/23 02:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				10/23/23 12:12	10/24/23 02:32	1
o-Terphenyl	109		70 - 130				10/23/23 12:12	10/24/23 02:32	1

Method: EPA 300.0 - Anions, Id	on Chromat	ography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	154		4.99	0.394	mg/Kg			10/25/23 08:42	1

Client Sample ID: AH-3 2-2.5 Lab Sample ID: 890-5488-19 Date Collected: 10/18/23 00:00 Matrix: Solid

Date Received: 10/19/23 13:16

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		10/24/23 14:46	10/27/23 07:41	1	
Toluene	<0.00201	U	0.00201	0.000459	mg/Kg		10/24/23 14:46	10/27/23 07:41	1	
Ethylbenzene	<0.00201	U	0.00201	0.000568	mg/Kg		10/24/23 14:46	10/27/23 07:41	1	
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg		10/24/23 14:46	10/27/23 07:41	1	
o-Xylene	0.000455	J	0.00201	0.000346	mg/Kg		10/24/23 14:46	10/27/23 07:41	1	
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg		10/24/23 14:46	10/27/23 07:41	1	

Client: Tetra Tech, Inc. Project/Site: JR Oil

Client Sample ID: AH-3 2-2.5 Lab Sample ID: 890-5488-19

Date Collected: 10/18/23 00:00 Matrix: Solid Date Received: 10/19/23 13:16

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100	70 - 130	10/24/23 14:46	10/27/23 07:41	1
1,4-Difluorobenzene (Surr)	107	70 - 130	10/24/23 14:46	10/27/23 07:41	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.2	J	49.7	14.9	mg/Kg		10/23/23 12:12	10/24/23 04:39	1
Diesel Range Organics (Over C10-C28)	166		49.7	14.9	mg/Kg		10/23/23 12:12	10/24/23 04:39	1
Oll Range Organics (Over C28-C36)	<49.7	U	49.7	14.9	mg/Kg		10/23/23 12:12	10/24/23 04:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130				10/23/23 12:12	10/24/23 04:39	1
o-Terphenyl	127		70 - 130				10/23/23 12:12	10/24/23 04:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	385		5.03	0.397	mg/Kg			10/25/23 08:48	1

Lab Sample ID: 890-5488-20 Client Sample ID: AH-4 0-1 **Matrix: Solid**

Date Collected: 10/18/23 00:00 Date Received: 10/19/23 13:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		10/24/23 14:46	10/27/23 08:02	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		10/24/23 14:46	10/27/23 08:02	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		10/24/23 14:46	10/27/23 08:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		10/24/23 14:46	10/27/23 08:02	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		10/24/23 14:46	10/27/23 08:02	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		10/24/23 14:46	10/27/23 08:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				10/24/23 14:46	10/27/23 08:02	1
1,4-Difluorobenzene (Surr)	105		70 - 130				10/24/23 14:46	10/27/23 08:02	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				10/24/23 14:46	10/27/23 08:02	1
1,4-Difluorobenzene (Surr)	105		70 - 130				10/24/23 14:46	10/27/23 08:02	1
 Method: SW846 8015B NM - D	Diesel Range	e Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<251	U	251	75.3	mg/Kg		10/23/23 12:12	10/24/23 03:57	5
Diesel Range Organics (Over C10-C28)	6940		251	75.3	mg/Kg		10/23/23 12:12	10/24/23 03:57	5
Oll Range Organics (Over C28-C36)	<251	U	251	75.3	mg/Kg		10/23/23 12:12	10/24/23 03:57	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130				10/23/23 12:12	10/24/23 03:57	5
o-Terphenyl	125		70 - 130				10/23/23 12:12	10/24/23 03:57	5
Method: EPA 300.0 - Anions,	lon Chroma	tography -	Soluble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.3		5.00	0.395	mg/Kg			10/25/23 08:53	1

Project/Site: JR Oil

Client Sample ID: AH-4 1-1.5 Lab Sample ID: 890-5488-21 **Matrix: Solid**

Date Collected: 10/18/23 00:00 Date Received: 10/19/23 13:16

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121

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0398	U	0.0398	0.00765	mg/Kg		10/24/23 14:19	10/26/23 02:58	20
Toluene	<0.0398	U	0.0398	0.00907	mg/Kg		10/24/23 14:19	10/26/23 02:58	20
Ethylbenzene	<0.0398	U	0.0398	0.0112	mg/Kg		10/24/23 14:19	10/26/23 02:58	20
m-Xylene & p-Xylene	<0.0795	U	0.0795	0.0201	mg/Kg		10/24/23 14:19	10/26/23 02:58	20
o-Xylene	0.00701	J	0.0398	0.00684	mg/Kg		10/24/23 14:19	10/26/23 02:58	20
Xylenes, Total	<0.0795	U	0.0795	0.0201	mg/Kg		10/24/23 14:19	10/26/23 02:58	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				10/24/23 14:19	10/26/23 02:58	20
1,4-Difluorobenzene (Surr)	90		70 - 130				10/24/23 14:19	10/26/23 02:58	20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	32.2	JB	50.2	15.1	mg/Kg		10/23/23 12:15	10/24/23 02:32	1
Diesel Range Organics (Over C10-C28)	4440		50.2	15.1	mg/Kg		10/23/23 12:15	10/24/23 02:32	1
Oll Range Organics (Over C28-C36)	311		50.2	15.1	mg/Kg		10/23/23 12:15	10/24/23 02:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analvzed	Dil Fac

Method: EPA 300.0 - A	Anions, Ion Chromatography - S	Soluble					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.2	4.96	0.392 mg/Kg			10/25/23 08:59	1

70 - 130

70 - 130

Client Sample ID: AH-4 2-2.5 Lab Sample ID: 890-5488-22

Date Collected: 10/18/23 00:00

1-Chlorooctane

o-Terphenyl

Date Received: 10/19/23 13:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		10/24/23 14:19	10/26/23 01:16	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		10/24/23 14:19	10/26/23 01:16	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		10/24/23 14:19	10/26/23 01:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		10/24/23 14:19	10/26/23 01:16	1
o-Xylene	0.000398	J	0.00200	0.000343	mg/Kg		10/24/23 14:19	10/26/23 01:16	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		10/24/23 14:19	10/26/23 01:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				10/24/23 14:19	10/26/23 01:16	1
1,4-Difluorobenzene (Surr)	111		70 - 130				10/24/23 14:19	10/26/23 01:16	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	38.0	JB	49.9	15.0	mg/Kg		10/23/23 12:15	10/24/23 04:39	1
Diesel Range Organics (Over C10-C28)	908		49.9	15.0	mg/Kg		10/23/23 12:15	10/24/23 04:39	1
Oll Range Organics (Over C28-C36)	67.5		49.9	15.0	mg/Kg		10/23/23 12:15	10/24/23 04:39	1

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10/23/23 12:15 10/24/23 02:32

10/23/23 12:15 10/24/23 02:32

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Matrix: Solid

Client: Tetra Tech, Inc. Project/Site: JR Oil

1,4-Difluorobenzene (Surr)

Client Sample ID: AH-4 2-2.5

Date Collected: 10/18/23 00:00 Date Received: 10/19/23 13:16 Lab Sample ID: 890-5488-22

10/24/23 14:19 10/26/23 01:36

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	10/23/23 12:15 10/24/23 04:39	1
o-Terphenyl	124		70 - 130	10/23/23 12:15 10/24/23 04:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte MDL Unit Prepared Analyzed Dil Fac Chloride 42.5 5.01 0.396 mg/Kg 10/25/23 09:05

Client Sample ID: AH-5 0-1 Lab Sample ID: 890-5488-23 **Matrix: Solid**

Date Collected: 10/18/23 00:00

Date Received: 10/19/23 13:16

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		10/24/23 14:19	10/26/23 01:36	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		10/24/23 14:19	10/26/23 01:36	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		10/24/23 14:19	10/26/23 01:36	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		10/24/23 14:19	10/26/23 01:36	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		10/24/23 14:19	10/26/23 01:36	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		10/24/23 14:19	10/26/23 01:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				10/24/23 14:19	10/26/23 01:36	1

70 - 130

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	38.5	JB	49.7	14.9	mg/Kg		10/23/23 12:15	10/24/23 02:53	1
Diesel Range Organics (Over C10-C28)	1780		49.7	14.9	mg/Kg		10/23/23 12:15	10/24/23 02:53	1
Oll Range Organics (Over C28-C36)	241		49.7	14.9	mg/Kg		10/23/23 12:15	10/24/23 02:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130				10/23/23 12:15	10/24/23 02:53	1
o-Terphenyl	118		70 - 130				10/23/23 12:15	10/24/23 02:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	44.1	F1	5.02	0.397	mg/Kg			10/24/23 10:52	1

Client Sample ID: AH-5 1-1.5 Lab Sample ID: 890-5488-24 Date Collected: 10/18/23 00:00 **Matrix: Solid** Date Received: 10/19/23 13:16

Method: SW846 8021B - Volatile Organic Compounds (GC)											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		10/24/23 14:19	10/26/23 01:56	1		
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		10/24/23 14:19	10/26/23 01:56	1		
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		10/24/23 14:19	10/26/23 01:56	1		
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		10/24/23 14:19	10/26/23 01:56	1		
o-Xylene	0.000768	J	0.00199	0.000343	mg/Kg		10/24/23 14:19	10/26/23 01:56	1		
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		10/24/23 14:19	10/26/23 01:56	1		

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10/31/2023

Client: Tetra Tech, Inc. Project/Site: JR Oil

Client Sample ID: AH-5 1-1.5

Date Collected: 10/18/23 00:00 Date Received: 10/19/23 13:16 Lab Sample ID: 890-5488-24

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	10/24/23 14:19	10/26/23 01:56	1
1,4-Difluorobenzene (Surr)	114		70 - 130	10/24/23 14:19	10/26/23 01:56	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.3	JB	50.0	15.0	mg/Kg		10/23/23 12:15	10/24/23 01:50	1
Diesel Range Organics (Over C10-C28)	1360		50.0	15.0	mg/Kg		10/23/23 12:15	10/24/23 01:50	1
Oll Range Organics (Over C28-C36)	214		50.0	15.0	mg/Kg		10/23/23 12:15	10/24/23 01:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				10/23/23 12:15	10/24/23 01:50	1
o-Terphenyl	104		70 - 130				10/23/23 12:15	10/24/23 01:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	77.2	5.05	0.399 mg/Kg			10/24/23 11:12	1			

Client Sample ID: AH-5 2-2.5 Date Collected: 10/18/23 00:00

Date Received: 10/19/23 13:16

Lab Sample ID: 890-5488-25

Matrix: Solid

Method: SW846 8021B - Vo Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000381	mg/Kg		10/24/23 14:19	10/26/23 02:17	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		10/24/23 14:19	10/26/23 02:17	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		10/24/23 14:19	10/26/23 02:17	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg		10/24/23 14:19	10/26/23 02:17	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		10/24/23 14:19	10/26/23 02:17	1
Xylenes, Total	<0.00396	U	0.00396	0.00100	mg/Kg		10/24/23 14:19	10/26/23 02:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				10/24/23 14:19	10/26/23 02:17	1
1,4-Difluorobenzene (Surr)	110		70 - 130				10/24/23 14:19	10/26/23 02:17	1
_									
Method: SW846 8015B NM	- Diesel Range	organics	(DRO) (GC)					
	•	Organics Qualifier	(DRO) (GC) MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	•	Qualifier	, , ,	•		<u>D</u>	Prepared 10/23/23 12:15	Analyzed 10/24/23 03:36	Dil Fac
Analyte	Result	Qualifier	RL	MDL 15.1		<u>D</u>			Dil Fac

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				10/23/23 12:15	10/24/23 03:36	1
o-Terphenyl	133	S1+	70 - 130				10/23/23 12:15	10/24/23 03:36	1
Method: EPA 300.0 - Anions, Id			- Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	255		4.97	0.393	mg/Kg			10/24/23 11:19	1

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C28-C36)

Project/Site: JR Oil

Client Sample ID: AH-5 3-3.5 Lab Sample ID: 890-5488-26

Date Collected: 10/18/23 00:00 Matrix: Solid
Date Received: 10/19/23 13:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		10/24/23 14:19	10/26/23 02:37	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		10/24/23 14:19	10/26/23 02:37	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		10/24/23 14:19	10/26/23 02:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		10/24/23 14:19	10/26/23 02:37	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		10/24/23 14:19	10/26/23 02:37	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		10/24/23 14:19	10/26/23 02:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				10/24/23 14:19	10/26/23 02:37	1
1,4-Difluorobenzene (Surr)	117		70 - 130				10/24/23 14:19	10/26/23 02:37	1
1,4-Difluorobenzene (Surr) Method: SW846 8015B NM -		o Organics)			10/24/23 14:19	10/26/23 02:37	1
	· Diesel Range	Organics Qualifier		•	Unit	D	10/24/23 14:19 Prepared	10/26/23 02:37 Analyzed	1 Dil Fac
Method: SW846 8015B NM -	· Diesel Range	Qualifier	(DRO) (GC	•	Unit mg/Kg	<u>D</u>			
Method: SW846 8015B NM - Analyte Gasoline Range Organics	Diesel Range Result	Qualifier	(DRO) (GC	MDL 15.1		<u>D</u>	Prepared 10/23/23 12:15	Analyzed	Dil Fac
Method: SW846 8015B NM - Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Poiesel Range Result 21.4	Qualifier	(DRO) (GC RL 50.4	MDL 15.1 15.1	mg/Kg	<u>D</u>	Prepared 10/23/23 12:15	Analyzed 10/24/23 04:18 10/24/23 04:18	Dil Fac
Method: SW846 8015B NM - Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Poiesel Range Result 21.4 1260	Qualifier J B	(DRO) (GC RL 50.4	MDL 15.1 15.1	mg/Kg	<u>D</u>	Prepared 10/23/23 12:15 10/23/23 12:15	Analyzed 10/24/23 04:18 10/24/23 04:18	Dil Fac
Method: SW846 8015B NM - Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Poiesel Range Result 21.4 1260	Qualifier J B	50.4 50.4	MDL 15.1 15.1	mg/Kg	<u> </u>	Prepared 10/23/23 12:15 10/23/23 12:15 10/23/23 12:15	Analyzed 10/24/23 04:18 10/24/23 04:18 10/24/23 04:18	Dil Fac 1 1

Method: EPA 300.0 - Anions,	on Chromat	ography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	516		5.01	0.396	mg/Kg			10/24/23 11:39	1

Client Sample ID: AH-5 4-4.5

Date Collected: 10/18/23 00:00

Lab Sample ID: 890-5488-27

Matrix: Solid

Date Collected: 10/18/23 00:00
Date Received: 10/19/23 13:16

Method: SW846 8021B - Vo	latile Organic	Compoun	ds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		10/24/23 14:19	10/26/23 04:47	1
Toluene	< 0.00200	U	0.00200	0.000455	mg/Kg		10/24/23 14:19	10/26/23 04:47	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		10/24/23 14:19	10/26/23 04:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		10/24/23 14:19	10/26/23 04:47	1
o-Xylene	0.000692	J	0.00200	0.000343	mg/Kg		10/24/23 14:19	10/26/23 04:47	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		10/24/23 14:19	10/26/23 04:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130				10/24/23 14:19	10/26/23 04:47	1
1,4-Difluorobenzene (Surr)	104		70 - 130				10/24/23 14:19	10/26/23 04:47	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	40.9	JB	49.7	14.9	mg/Kg		10/23/23 12:15	10/24/23 03:57	1
Diesel Range Organics (Over C10-C28)	3650		49.7	14.9	mg/Kg		10/23/23 12:15	10/24/23 03:57	1
Oll Range Organics (Over C28-C36)	219		49.7	14.9	mg/Kg		10/23/23 12:15	10/24/23 03:57	1

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Client: Tetra Tech, Inc. Project/Site: JR Oil

Client Sample ID: AH-5 4-4.5

Date Collected: 10/18/23 00:00 Date Received: 10/19/23 13:16 Lab Sample ID: 890-5488-27

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	10/23/23 12:15	10/24/23 03:57	1
o-Terphenyl	125		70 - 130	10/23/23 12:15	10/24/23 03:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte MDL Unit Prepared Analyzed Dil Fac Chloride 10/24/23 11:45 540 5.01 0.396 mg/Kg

Client Sample ID: AH-6 0-1 Lab Sample ID: 890-5488-28

Date Collected: 10/18/23 00:00 **Matrix: Solid** Date Received: 10/19/23 13:16

Method: SW846 8021B - Vo	latile Organic	Compoun	ds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		10/24/23 14:19	10/26/23 05:08	1
Toluene	<0.00201	U	0.00201	0.000459	mg/Kg		10/24/23 14:19	10/26/23 05:08	1
Ethylbenzene	0.000958	J	0.00201	0.000568	mg/Kg		10/24/23 14:19	10/26/23 05:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg		10/24/23 14:19	10/26/23 05:08	1
o-Xylene	<0.00201	U	0.00201	0.000346	mg/Kg		10/24/23 14:19	10/26/23 05:08	1
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg		10/24/23 14:19	10/26/23 05:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				10/24/23 14:19	10/26/23 05:08	1
1,4-Difluorobenzene (Surr)	114		70 - 130				10/24/23 14:19	10/26/23 05:08	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	33.4	JB	49.6	14.9	mg/Kg		10/23/23 12:15	10/24/23 01:29	1
Diesel Range Organics (Over C10-C28)	2100		49.6	14.9	mg/Kg		10/23/23 12:15	10/24/23 01:29	1
Oll Range Organics (Over C28-C36)	307		49.6	14.9	mg/Kg		10/23/23 12:15	10/24/23 01:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130				10/23/23 12:15	10/24/23 01:29	1
o-Terphenyl	111		70 - 130				10/23/23 12:15	10/24/23 01:29	1

Method: EPA 300.0 - Anions, lo	n Chromatography - S	oluble					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.7	5.00	0.395 mg/Kg			10/24/23 11:52	1

Client Sample ID: AH-6 1-1.5 Lab Sample ID: 890-5488-29 Date Collected: 10/18/23 00:00 **Matrix: Solid** Date Received: 10/19/23 13:16

Method: SW846 8021B - '	Volatile Organic	Compound	ds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		10/24/23 14:19	10/26/23 05:28	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		10/24/23 14:19	10/26/23 05:28	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		10/24/23 14:19	10/26/23 05:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		10/24/23 14:19	10/26/23 05:28	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		10/24/23 14:19	10/26/23 05:28	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		10/24/23 14:19	10/26/23 05:28	1

Client: Tetra Tech, Inc. Project/Site: JR Oil

Client Sample ID: AH-6 1-1.5

Lab Sample ID: 890-5488-29 Date Collected: 10/18/23 00:00

Matrix: Solid Date Received: 10/19/23 13:16

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92	70 - 130	10/24/23 14:19	10/26/23 05:28	1
1,4-Difluorobenzene (Surr)	115	70 - 130	10/24/23 14:19	10/26/23 05:28	1

Analyte	_	Qualifier	(DRO) (GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	31.5		50.5		mg/Kg		10/23/23 12:15	10/24/23 02:11	
Diesel Range Organics (Over C10-C28)	800		50.5	15.2	mg/Kg		10/23/23 12:15	10/24/23 02:11	•
Oll Range Organics (Over C28-C36)	143		50.5	15.2	mg/Kg		10/23/23 12:15	10/24/23 02:11	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				10/23/23 12:15	10/24/23 02:11	1
o-Terphenyl	107		70 - 130				10/23/23 12:15	10/24/23 02:11	

Method: EPA 300.0 - Anions, I	on Chromat	ography - S	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.5		5.02	0.397	mg/Kg			10/24/23 11:59	1

Client Sample ID: AH-6 2-2.5

Date Collected: 10/18/23 00:00 **Matrix: Solid**

Date Received: 10/19/23 13:16

Method: SW846 8021B - Vola Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		10/24/23 14:19	10/26/23 05:48	1
Toluene	< 0.00199	U	0.00199	0.000454	mg/Kg		10/24/23 14:19	10/26/23 05:48	1
Ethylbenzene	< 0.00199	U	0.00199	0.000563	mg/Kg		10/24/23 14:19	10/26/23 05:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		10/24/23 14:19	10/26/23 05:48	1
o-Xylene	0.000495	J	0.00199	0.000343	mg/Kg		10/24/23 14:19	10/26/23 05:48	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		10/24/23 14:19	10/26/23 05:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	98		70 - 130				10/24/23 14:19	10/26/23 05:48	
1,4-Difluorobenzene (Surr)	110		70 - 130				10/24/23 14:19	10/26/23 05:48	1
: Method: SW846 8015B NM - I			(DRO) (GC	;)					
Mathadi CW04C 004ED NM - I	Nacal Danes	0	(DDO) (CC	Α.					
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared 10/23/23 12:15	Analyzed	Dil Fac
Method: SW846 8015B NM - I Analyte Gasoline Range Organics (GRO)-C6-C10		Qualifier		•		<u>D</u>	Prepared 10/23/23 12:15	Analyzed 10/24/23 00:46	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier	RL	MDL 15.1		<u>D</u>		10/24/23 00:46	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 26.9	Qualifier J B	RL 50.4	MDL 15.1 15.1	mg/Kg	<u> </u>	10/23/23 12:15 10/23/23 12:15	10/24/23 00:46	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	26.9 67.0	Qualifier J B	50.4 50.4	MDL 15.1 15.1	mg/Kg	<u>D</u>	10/23/23 12:15 10/23/23 12:15	10/24/23 00:46 10/24/23 00:46	1
Analyte Gasoline Range Organics	26.9 67.0 <50.4	Qualifier J B	50.4 50.4 50.4	MDL 15.1 15.1	mg/Kg	<u> </u>	10/23/23 12:15 10/23/23 12:15 10/23/23 12:15	10/24/23 00:46 10/24/23 00:46 10/24/23 00:46	1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 26.9 67.0 <50.4 %Recovery	Qualifier J B	50.4 50.4 50.4 <i>Limits</i>	MDL 15.1 15.1	mg/Kg	<u> </u>	10/23/23 12:15 10/23/23 12:15 10/23/23 12:15 Prepared 10/23/23 12:15	10/24/23 00:46 10/24/23 00:46 10/24/23 00:46 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result 26.9 67.0 <50.4 %Recovery 110 115	Qualifier J B U Qualifier	50.4 50.4 50.4 Limits 70 - 130 70 - 130	MDL 15.1 15.1	mg/Kg	<u>D</u>	10/23/23 12:15 10/23/23 12:15 10/23/23 12:15 Prepared 10/23/23 12:15	10/24/23 00:46 10/24/23 00:46 10/24/23 00:46 Analyzed 10/24/23 00:46	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 26.9 67.0 <50.4 %Recovery 110 115	Qualifier J B U Qualifier	50.4 50.4 50.4 Limits 70 - 130 70 - 130	MDL 15.1 15.1 15.1	mg/Kg	<u>D</u>	10/23/23 12:15 10/23/23 12:15 10/23/23 12:15 Prepared 10/23/23 12:15	10/24/23 00:46 10/24/23 00:46 10/24/23 00:46 Analyzed 10/24/23 00:46	Dil Face

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Lab Sample ID: 890-5488-30

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-5488-1

Project/Site: JR Oil

Client Sample ID: AH-6 3-3.5 Lab Sample ID: 890-5488-31

Date Collected: 10/18/23 00:00 Matrix: Solid
Date Received: 10/19/23 13:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000381	mg/Kg		10/24/23 14:19	10/26/23 06:09	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		10/24/23 14:19	10/26/23 06:09	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		10/24/23 14:19	10/26/23 06:09	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg		10/24/23 14:19	10/26/23 06:09	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		10/24/23 14:19	10/26/23 06:09	1
Xylenes, Total	<0.00396	U	0.00396	0.00100	mg/Kg		10/24/23 14:19	10/26/23 06:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				10/24/23 14:19	10/26/23 06:09	1
1,4-Difluorobenzene (Surr)	112		70 - 130				10/24/23 14:19	10/26/23 06:09	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	163	J B	250	74.9	mg/Kg		10/23/23 12:15	10/24/23 03:14	5
Diesel Range Organics (Over C10-C28)	12100		250	74.9	mg/Kg		10/23/23 12:15	10/24/23 03:14	5
Oll Range Organics (Over C28-C36)	1330		250	74.9	mg/Kg		10/23/23 12:15	10/24/23 03:14	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				10/23/23 12:15	10/24/23 03:14	5
o-Terphenyl	118		70 - 130				10/23/23 12:15	10/24/23 03:14	5

Method: EPA 300.0 - Anions, ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	189		5.02	0.397	mg/Kg			10/24/23 12:12	1

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Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-5488-1

Project/Site: JR Oil

Method: 8021B - Volatile Organic Compounds (GC)

Prep Type: Total/NA

				ent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-5488-1	H-1	82	103	
890-5488-1 MS	H-1	95	106	
890-5488-1 MSD	H-1	103	102	
890-5488-2	H-2	99	106	
890-5488-3	H-3	89	113	
890-5488-4	H-4	96	107	
890-5488-5	H-5	99	111	
890-5488-6	H-6	91	113	
890-5488-7	H-7	101	111	
890-5488-8	H-8	103	110	
890-5488-9	AH-1 0-1	71	137 S1+	
890-5488-10	AH-1 1-1.5	52 S1-	127	
390-5488-11	AH-1 2-2.5	71	137 S1+	
890-5488-12	AH-1 3-3.5	99	101	
890-5488-13	AH-1 4-4.5	92	108	
390-5488-14	AH-2 0-1	92	107	
890-5488-15	AH-2 1-1.5	88	105	
890-5488-16	AH-2 2-2.5	96	105	
890-5488-17	AH-3 0-1	91	112	
890-5488-18	AH-3 1-1.5	101	107	
890-5488-19	AH-3 2-2.5	100	107	
890-5488-20	AH-4 0-1	99	105	
890-5488-21	AH-4 1-1.5	113	90	
890-5488-22	AH-4 2-2.5	91	111	
890-5488-23	AH-5 0-1	93	104	
390-5488-24	AH-5 1-1.5	98	114	
890-5488-25	AH-5 2-2.5	95	110	
390-5488-26	AH-5 3-3.5	88	117	
890-5488-27	AH-5 4-4.5	80	104	
890-5488-28	AH-6 0-1	92	114	
890-5488-29	AH-6 1-1.5	92	115	
890-5488-30	AH-6 2-2.5	98	110	
390-5488-31	AH-6 3-3.5	87	112	
LCS 880-65487/1-A	Lab Control Sample	100	107	
LCS 880-65489/1-A	Lab Control Sample	96	102	
LCS 880-65644/1-A	Lab Control Sample	115	99	
LCSD 880-65487/2-A	Lab Control Sample Dup	105	103	
LCSD 880-65489/2-A	Lab Control Sample Dup	96	106	
LCSD 880-65644/2-A	Lab Control Sample Dup	114	119	
MB 880-65466/5-A	Method Blank	103	132 S1+	
MB 880-65487/5-A	Method Blank	125	154 S1+	
MB 880-65489/5-A	Method Blank	111	136 S1+	
MB 880-65555/5-A	Method Blank	109	126	
MB 880-65644/5-A	Method Blank	71	99	
MB 880-65698/5-A	Method Blank	71	93	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-5488-1

Project/Site: JR Oil

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

Matrix: Solid Prep Type: Total/NA

			Perd	cent Surroga	te Re	te Recovery (A
		1001	OTPH1			
Lab Sample ID	Client Sample ID	(70-130)	(70-130)			
890-5488-1	H-1	121	110			
390-5488-1 MS	H-1	127	102			
890-5488-1 MSD	H-1	126	99			
890-5488-2	H-2	119	100			
890-5488-3	H-3	130	113			
890-5488-4	H-4	133 S1+	111			
890-5488-5	H-5	121	105			
890-5488-6	H-6	117	102			
890-5488-7	H-7	118	105			
890-5488-8	H-8	123	105			
890-5488-9	AH-1 0-1	114	103			
890-5488-10	AH-1 1-1.5	124	105			
890-5488-11	AH-1 2-2.5	137 S1+	117			
890-5488-12	AH-1 3-3.5	127	110			
890-5488-13	AH-1 4-4.5	136 S1+	118			
890-5488-14	AH-2 0-1	125	112			
890-5488-15	AH-2 1-1.5	140 S1+	130			
890-5488-16	AH-2 2-2.5	121	105			
890-5488-17	AH-3 0-1	118	105			
890-5488-18	AH-3 1-1.5	121	109			
890-5488-19	AH-3 2-2.5	143 S1+	127			
890-5488-20	AH-4 0-1	136 S1+	125			
890-5488-21	AH-4 1-1.5	113	121			
890-5488-22	AH-4 2-2.5	118	124			
890-5488-23	AH-5 0-1	114	118			
890-5488-24	AH-5 1-1.5	101	104			
890-5488-25	AH-5 2-2.5	123	133 S1+			
890-5488-26						
	AH-5 3-3.5	101 116	105			
890-5488-27	AH-5 4-4.5		125			
890-5488-28	AH-6 0-1	112	111			
890-5488-29	AH-6 1-1.5	105	107			
890-5488-30	AH-6 2-2.5	110	115			
890-5488-31	AH-6 3-3.5	105	118			
LCS 880-65361/2-A	Lab Control Sample	102	112			
LCS 880-65363/2-A	Lab Control Sample	91	93			
LCSD 880-65361/3-A	Lab Control Sample Dup	119	117			
LCSD 880-65363/3-A	Lab Control Sample Dup	84	90			
MB 880-65361/1-A	Method Blank	189 S1+	175 S1+			
MB 880-65363/1-A	Method Blank	187 S1+	210 S1+			
Surrogate Legend						

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Project/Site: JR Oil

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-65466/5-A

Matrix: Solid

Analysis Batch: 65514

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 65466

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000381	mg/Kg		10/24/23 14:30	10/25/23 11:48	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		10/24/23 14:30	10/25/23 11:48	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		10/24/23 14:30	10/25/23 11:48	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg		10/24/23 14:30	10/25/23 11:48	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		10/24/23 14:30	10/25/23 11:48	1
Xylenes, Total	< 0.00396	U	0.00396	0.00100	mg/Kg		10/24/23 14:30	10/25/23 11:48	1

MB MB

MB MB

%Recovery Qualifier Surrogate Limits Prepared Analyzed 70 - 130 10/24/23 14:30 10/25/23 11:48 4-Bromofluorobenzene (Surr) 103 1,4-Difluorobenzene (Surr) 132 S1+ 70 - 130 10/24/23 14:30 10/25/23 11:48

Lab Sample ID: MB 880-65487/5-A

Matrix: Solid

Analysis Batch: 65514

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

Prep Batch: 65487

l .									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		10/24/23 14:19	10/25/23 23:25	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		10/24/23 14:19	10/25/23 23:25	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		10/24/23 14:19	10/25/23 23:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		10/24/23 14:19	10/25/23 23:25	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		10/24/23 14:19	10/25/23 23:25	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		10/24/23 14:19	10/25/23 23:25	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	10/24/23 14:19 10/	/25/23 23:25	1
1,4-Difluorobenzene (Surr)	154	S1+	70 - 130	10/24/23 14:19 10/	/25/23 23:25	1

Lab Sample ID: LCS 880-65487/1-A

Matrix: Solid

Analysis Batch: 65514

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

Prep Batch: 65487

1		Spike	LCS	LCS				%Rec	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	0.100	0.1059		mg/Kg		106	70 - 130	
١	Toluene	0.100	0.08809		mg/Kg		88	70 - 130	
	Ethylbenzene	0.100	0.08876		mg/Kg		89	70 - 130	
İ	m-Xylene & p-Xylene	0.200	0.1747		mg/Kg		87	70 - 130	
	o-Xylene	0.100	0.08888		mg/Kg		89	70 - 130	

LCS LCS

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

Lab Sample ID: LCSD 880-65487/2-A

Matrix: Solid

Analyte Benzene

Analysis Batch: 65514

					Prep Ty	pe: Tot	al/NA
					Prep E	atch: (55487
LCSD	LCSD				%Rec		RPD
Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
0.1064		mg/Kg		106	70 - 130	1	35

Client Sample ID: Lab Control Sample Dup

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Spike Added

0.100

Dil Fac

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-5488-1

Project/Site: JR Oil

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

Lab Sample ID: LCSD 880-65487/2-A

Matrix: Solid

Analysis Batch: 65514

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 65487

LCSD LCSD Spike %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Toluene 0 100 0.08681 mg/Kg 87 70 - 130 35 1 0.100 Ethylbenzene 0.09136 mg/Kg 91 70 - 130 3 35 0.200 0.1646 mg/Kg 82 70 - 130 35 m-Xylene & p-Xylene 6 0.100 2 35 o-Xylene 0.08687 mg/Kg 87 70 - 130

LCSD LCSD

Surrogate	%Recovery Qua	alifier Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: MB 880-65489/5-A

Matrix: Solid

Analysis Batch: 65593

MB MB

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 65489

Analyte Result Qualifier RL MDL Unit Prepared Dil Fac Analyzed Benzene <0.00200 U 0.00200 0.000385 mg/Kg 10/24/23 14:46 10/26/23 23:55 Toluene <0.00200 U 0.00200 0.000456 mg/Kg 10/24/23 14:46 10/26/23 23:55 Ethylbenzene <0.00200 U 0.00200 0.000565 mg/Kg 10/24/23 14:46 10/26/23 23:55 0.00400 0.00101 mg/Kg 10/24/23 14:46 10/26/23 23:55 m-Xylene & p-Xylene <0.00400 U o-Xylene <0.00200 U 0.00200 0.000344 mg/Kg 10/24/23 14:46 10/26/23 23:55 Xylenes, Total <0.00400 U 0.00400 0.00101 mg/Kg 10/24/23 14:46 10/26/23 23:55

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111	70 - 130	10/24/23 14:46	10/26/23 23:55	1
1,4-Difluorobenzene (Surr)	136 S1+	70 - 130	10/24/23 14:46	10/26/23 23:55	1

Lab Sample ID: LCS 880-65489/1-A

Matrix: Solid

Analysis Batch: 65593

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 65489

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits 0.100 Benzene 0.09589 mg/Kg 96 70 - 130 Toluene 0.100 0.08467 mg/Kg 85 70 - 130 Ethylbenzene 0.100 0.07949 mg/Kg 79 70 - 130 m-Xylene & p-Xylene 0.200 0.1834 mg/Kg 92 70 - 130 o-Xylene 0.100 0.09110 70 - 130 mg/Kg 91

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-65489/2-A

Matrix: Solid

Analysis Batch: 65593

Client Sample	ID: Lab	Control	Sample Dup

Prep Type: Total/NA Prep Batch: 65489

•	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09683		mg/Kg		97	70 - 130	1	35
Toluene	0.100	0.08271		mg/Kg		83	70 - 130	2	35
Ethylbenzene	0.100	0.08072		mg/Kg		81	70 - 130	2	35

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-5488-1

Project/Site: JR Oil

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

Lab Sample ID: LCSD 880-65489/2-A

Matrix: Solid

Analysis Batch: 65593

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 65489

LCSD LCSD Spike %Rec Added Result Qualifier Unit D %Rec Limits RPD 0.200 m-Xylene & p-Xylene 0.1861 mg/Kg 93 70 - 130 1 35 o-Xylene 0.100 0.09146 mg/Kg 91 70 - 130 0 35

RPD Limit

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 96 70 - 130 1,4-Difluorobenzene (Surr) 106 70 - 130

Lab Sample ID: 890-5488-1 MS

Matrix: Solid

Analysis Batch: 65593

Client Sample ID: H-1 Prep Type: Total/NA

Prep Batch: 65489

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0996	0.08933		mg/Kg		90	70 - 130	
Toluene	<0.00200	U	0.0996	0.07213		mg/Kg		72	70 - 130	
Ethylbenzene	<0.00200	U	0.0996	0.07159		mg/Kg		72	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1637		mg/Kg		82	70 - 130	
o-Xylene	0.000439	J	0.0996	0.08158		mg/Kg		81	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1.4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-5488-1 MSD

Matrix: Solid

Analysis Batch: 65593

Client Sample ID: H-1 Prep Type: Total/NA

Prep Batch: 65489

•	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.09583		mg/Kg		96	70 - 130	7	35
Toluene	< 0.00200	U	0.100	0.07470		mg/Kg		75	70 - 130	3	35
Ethylbenzene	< 0.00200	U	0.100	0.07206		mg/Kg		72	70 - 130	1	35
m-Xylene & p-Xylene	< 0.00399	U	0.200	0.1544		mg/Kg		77	70 - 130	6	35
o-Xylene	0.000439	J	0.100	0.08861		mg/Kg		88	70 - 130	8	35

MSD MSD

Surrogate	%Recovery Qualifier	r Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: MB 880-65555/5-A

Matrix: Solid

Analysis Batch: 65593

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 65555

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		10/25/23 11:27	10/26/23 11:22	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		10/25/23 11:27	10/26/23 11:22	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		10/25/23 11:27	10/26/23 11:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		10/25/23 11:27	10/26/23 11:22	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		10/25/23 11:27	10/26/23 11:22	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		10/25/23 11:27	10/26/23 11:22	1

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Project/Site: JR Oil

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

	MB I	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	10/25/23 11:27	10/26/23 11:22	1
1,4-Difluorobenzene (Surr)	126		70 - 130	10/25/23 11:27	10/26/23 11:22	1

Lab Sample ID: MB 880-65644/5-A

Matrix: Solid

Analysis Batch: 65680

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

Prep Batch: 65644

MB MB

	1410	1410							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		10/26/23 11:52	10/28/23 10:11	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		10/26/23 11:52	10/28/23 10:11	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		10/26/23 11:52	10/28/23 10:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		10/26/23 11:52	10/28/23 10:11	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		10/26/23 11:52	10/28/23 10:11	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		10/26/23 11:52	10/28/23 10:11	1

MB MB %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 70 - 130 10/26/23 11:52 10/28/23 10:11 4-Bromofluorobenzene (Surr) 71 70 - 130 1,4-Difluorobenzene (Surr) 99 10/26/23 11:52 10/28/23 10:11

Lab Sample ID: LCS 880-65644/1-A

Matrix: Solid

Analysis Batch: 65680

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

Prep Batch: 65644

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1074		mg/Kg		107	70 - 130	
Toluene	0.100	0.1010		mg/Kg		101	70 - 130	
Ethylbenzene	0.100	0.09836		mg/Kg		98	70 - 130	
m-Xylene & p-Xylene	0.200	0.2130		mg/Kg		107	70 - 130	
o-Xylene	0.100	0.1040		mg/Kg		104	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-65644/2-A

Matrix: Solid

Analysis Batch: 65680

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 65644

Analysis Datch. 00000							LIEPL	Jacon. C	75077
-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1023		mg/Kg		102	70 - 130	5	35
Toluene	0.100	0.09513		mg/Kg		95	70 - 130	6	35
Ethylbenzene	0.100	0.09508		mg/Kg		95	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2021		mg/Kg		101	70 - 130	5	35
o-Xylene	0.100	0.09812		mg/Kg		98	70 - 130	6	35

LCSD LCSD

Surrogate	%Recovery Qι	ıalifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	119		70 - 130

Project/Site: JR Oil

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

Lab Sample ID: MB 880-65698/5-A **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Solid Analysis Ratch: 65680

Analysis Batch: 65680								Prep Batch:	. 65698
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		10/27/23 11:54	10/27/23 23:35	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		10/27/23 11:54	10/27/23 23:35	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		10/27/23 11:54	10/27/23 23:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		10/27/23 11:54	10/27/23 23:35	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		10/27/23 11:54	10/27/23 23:35	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		10/27/23 11:54	10/27/23 23:35	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	10/27/23 11:54	10/27/23 23:35	1
1,4-Difluorobenzene (Surr)	93		70 - 130	10/27/23 11:54	10/27/23 23:35	1

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

Lab Sample ID: MB 880-65361/1-A **Client Sample ID: Method Blank**

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 65296** Prep Batch: 65361 MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		10/23/23 12:12	10/23/23 19:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		10/23/23 12:12	10/23/23 19:47	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		10/23/23 12:12	10/23/23 19:47	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	189	S1+	70 - 130	10/23/23 12:12	10/23/23 19:47	1
o-Terphenyl	175	S1+	70 - 130	10/23/23 12:12	10/23/23 19:47	1

Lab Sample ID: LCS 880-65361/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

(GRO)-C6-C10

Prep Type: Total/NA Prep Batch: 65361 **Analysis Batch: 65296** Spike LCS LCS %Rec Added Result Qualifier Unit Limits D %Rec

Analyte Gasoline Range Organics 70 - 130 1000 877.6 mg/Kg 88 (GRO)-C6-C10 Diesel Range Organics (Over 1000 830.1 70 - 130 mg/Kg 83 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: LCSD 880-65361/3-A			(Client Sa	mple	ID: Lab	Control	Sample	Dup
Matrix: Solid							Prep Ty	pe: Tot	al/NA
Analysis Batch: 65296							Prep E	Batch: (55361
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	973.7		mg/Kg		97	70 - 130	10	20

Project/Site: JR Oil

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

Lab Sample ID: LCSD 880-65361/3-A **Matrix: Solid**

Analysis Batch: 65296

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 65361

LCSD LCSD Spike %Rec **RPD** Added Result Qualifier Unit %Rec Limits RPD Limit Diesel Range Organics (Over 1000 993.0 mg/Kg 99 70 - 130 18 20

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 119 70 - 130 o-Terphenyl 117 70 - 130

Lab Sample ID: 890-5488-1 MS

Matrix: Solid

Analysis Batch: 65296

Client Sample ID: H-1 Prep Type: Total/NA

Prep Batch: 65361

Sample Sample Spike MS MS %Rec Result Qualifier Result Qualifier Limits **Analyte** Added Unit %Rec Gasoline Range Organics 24.2 J 1010 945.8 92 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 15.4 J 1010 1162 mg/Kg 114 70 - 130 C10-C28)

MS MS

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 127 70 - 130 o-Terphenyl 102

Lab Sample ID: 890-5488-1 MSD

Matrix: Solid

Analysis Batch: 65296

Client Sample ID: H-1 **Prep Type: Total/NA**

Prep Batch: 65361

_	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	24.2	J	1010	937.1		mg/Kg		91	70 - 130	1	20
Diesel Range Organics (Over	15.4	J	1010	1149		mg/Kg		113	70 - 130	1	20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: MB 880-65363/1-A

Matrix: Solid

Analysis Batch: 65298

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

Prep Batch: 65363

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	16.21	J	50.0	15.0	mg/Kg		10/23/23 12:15	10/23/23 19:47	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0	15.0	mg/Kg		10/23/23 12:15	10/23/23 19:47	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		10/23/23 12:15	10/23/23 19:47	1

MB	MB	

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	187	S1+	70 - 130	10/23/23 12:15	10/23/23 19:47	1
o-Terphenyl	210	S1+	70 - 130	10/23/23 12:15	10/23/23 19:47	1

Spike

Added

1000

1000

Client: Tetra Tech, Inc. Job ID: 890-5488-1

LCS LCS

1000

947.6

Result Qualifier

Unit

mg/Kg

mg/Kg

Project/Site: JR Oil

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

Lab Sample ID: LCS 880-65363/2-A

Lab Sample ID: LCSD 880-65363/3-A

Matrix: Solid

Analysis Batch: 65298

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 65363

%Rec %Rec Limits 100 70 - 130

70 - 130

(GRO)-C6-C10

Matrix: Solid

Diesel Range Organics (Over C10-C28)

Gasoline Range Organics

Analyte

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 91 70 - 130 o-Terphenyl 93

Client Sample ID: Lab Control Sample Dup

95

Prep Type: Total/NA

Prep Batch: 65363

Analysis Batch: 65298 LCSD LCSD Spike %Rec **RPD** Added Result Qualifier Limits **RPD** Limit Analyte Unit D %Rec Gasoline Range Organics 1000 832.3 83 70 - 130 18 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 783.2 mg/Kg 78 70 - 130 19 20 C10-C28)

LCSD LCSD

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-65215/1-A

Matrix: Solid

Analysis Batch: 65419

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

MB MB

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 0.395 mg/Kg 10/24/23 09:00

Lab Sample ID: LCS 880-65215/2-A

Matrix: Solid

Analysis Batch: 65419

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 249.3 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 880-65215/3-A

Matrix: Solid

Analysis Batch: 65419									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	 250	249.3		mg/Kg	_	100	90 - 110	0	20

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Project/Site: JR Oil

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-5488-23 MS Client Sample ID: AH-5 0-1 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 65419

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Unit %Rec Limits Analyte D 44.1 F1 251 Chloride 363.8 F1 mg/Kg 127 90 - 110

Lab Sample ID: 890-5488-23 MSD Client Sample ID: AH-5 0-1 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 65419

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Analyte 44.1 F1 251 90 - 110 Chloride 362.3 F1 mg/Kg 127 n

Lab Sample ID: MB 880-65212/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 65471

MB MB

Result Qualifier RL **MDL** Unit **Analyte** D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 0.395 mg/Kg 10/25/23 03:15

Lab Sample ID: LCS 880-65212/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 65471

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit %Rec Limits Chloride 246.2 250 mg/Kg 98 90 - 110

Lab Sample ID: LCSD 880-65212/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 65471

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 246.7 99 mg/Kg 90 - 110

Lab Sample ID: MB 880-65213/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 65480

MB MB

Result Qualifier RL **MDL** Unit Analyte Dil Fac Prepared Analyzed 5.00 10/25/23 06:16 Chloride <5.00 U 0.395 mg/Kg

Lab Sample ID: LCS 880-65213/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 65480

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit %Rec 250 Chloride 246.1 mg/Kg 98 90 - 110

Lab Sample ID: LCSD 880-65213/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 65480

Spike LCSD LCSD %Rec **RPD** RPD Added Analyte Result Qualifier Unit D %Rec Limits Limit Chloride 250 247.7 mg/Kg 99 90 - 110 20

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-5488-1

Project/Site: JR Oil

Method: 300.0 - Anions,	Ion Chromatograp	hy
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Lab Sample ID: 890-5488-3 MS Client Sample ID: H-3 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 65480

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Chloride 252 32.6 285.0 mg/Kg 100 90 - 110

Lab Sample ID: 890-5488-3 MSD Client Sample ID: H-3 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 65480

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 32.6 252 101 90 - 110 285.7 mg/Kg 0

Lab Sample ID: 890-5488-13 MS Client Sample ID: AH-1 4-4.5 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 65480

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Limits Unit %Rec Chloride 241 249 510.7 108 90 - 110 mg/Kg

Lab Sample ID: 890-5488-13 MSD Client Sample ID: AH-1 4-4.5 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 65480

Spike MSD MSD %Rec **RPD** Sample Sample Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits RPD Limit Chloride 241 249 511.8 109 90 - 110 mg/Kg

Client: Tetra Tech, Inc.

Job ID: 890-5488-1

Project/Site: JR Oil

GC VOA

Prep Batch: 65466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-65466/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 65487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5488-21	AH-4 1-1.5	Total/NA	Solid	5035	
890-5488-22	AH-4 2-2.5	Total/NA	Solid	5035	
890-5488-23	AH-5 0-1	Total/NA	Solid	5035	
890-5488-24	AH-5 1-1.5	Total/NA	Solid	5035	
890-5488-25	AH-5 2-2.5	Total/NA	Solid	5035	
890-5488-26	AH-5 3-3.5	Total/NA	Solid	5035	
890-5488-27	AH-5 4-4.5	Total/NA	Solid	5035	
890-5488-28	AH-6 0-1	Total/NA	Solid	5035	
890-5488-29	AH-6 1-1.5	Total/NA	Solid	5035	
890-5488-30	AH-6 2-2.5	Total/NA	Solid	5035	
890-5488-31	AH-6 3-3.5	Total/NA	Solid	5035	
MB 880-65487/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65487/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65487/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 65489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5488-1	H-1	Total/NA	Solid	5035	<u> </u>
890-5488-2	H-2	Total/NA	Solid	5035	
890-5488-3	H-3	Total/NA	Solid	5035	
890-5488-4	H-4	Total/NA	Solid	5035	
890-5488-5	H-5	Total/NA	Solid	5035	
890-5488-6	H-6	Total/NA	Solid	5035	
890-5488-7	H-7	Total/NA	Solid	5035	
890-5488-8	H-8	Total/NA	Solid	5035	
890-5488-12	AH-1 3-3.5	Total/NA	Solid	5035	
890-5488-13	AH-1 4-4.5	Total/NA	Solid	5035	
890-5488-14	AH-2 0-1	Total/NA	Solid	5035	
890-5488-15	AH-2 1-1.5	Total/NA	Solid	5035	
890-5488-16	AH-2 2-2.5	Total/NA	Solid	5035	
890-5488-17	AH-3 0-1	Total/NA	Solid	5035	
890-5488-18	AH-3 1-1.5	Total/NA	Solid	5035	
890-5488-19	AH-3 2-2.5	Total/NA	Solid	5035	
890-5488-20	AH-4 0-1	Total/NA	Solid	5035	
MB 880-65489/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65489/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65489/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5488-1 MS	H-1	Total/NA	Solid	5035	
890-5488-1 MSD	H-1	Total/NA	Solid	5035	

Analysis Batch: 65514

Lab Sample ID 890-5488-21	Client Sample ID AH-4 1-1.5	Prep Type Total/NA	Matrix Solid	Method 8021B	Prep Batch 65487
890-5488-22	AH-4 2-2.5	Total/NA	Solid	8021B	65487
890-5488-23	AH-5 0-1	Total/NA	Solid	8021B	65487
890-5488-24	AH-5 1-1.5	Total/NA	Solid	8021B	65487
890-5488-25	AH-5 2-2.5	Total/NA	Solid	8021B	65487

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Client: Tetra Tech, Inc.

Job ID: 890-5488-1

Project/Site: JR Oil

GC VOA (Continued)

Analysis Batch: 65514 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5488-26	AH-5 3-3.5	Total/NA	Solid	8021B	65487
890-5488-27	AH-5 4-4.5	Total/NA	Solid	8021B	65487
890-5488-28	AH-6 0-1	Total/NA	Solid	8021B	65487
890-5488-29	AH-6 1-1.5	Total/NA	Solid	8021B	65487
890-5488-30	AH-6 2-2.5	Total/NA	Solid	8021B	65487
890-5488-31	AH-6 3-3.5	Total/NA	Solid	8021B	65487
MB 880-65466/5-A	Method Blank	Total/NA	Solid	8021B	65466
MB 880-65487/5-A	Method Blank	Total/NA	Solid	8021B	65487
LCS 880-65487/1-A	Lab Control Sample	Total/NA	Solid	8021B	65487
LCSD 880-65487/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65487

Prep Batch: 65555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-65555/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 65593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5488-1	H-1	Total/NA	Solid	8021B	65489
890-5488-2	H-2	Total/NA	Solid	8021B	65489
890-5488-3	H-3	Total/NA	Solid	8021B	65489
890-5488-4	H-4	Total/NA	Solid	8021B	65489
890-5488-5	H-5	Total/NA	Solid	8021B	65489
890-5488-6	H-6	Total/NA	Solid	8021B	65489
890-5488-7	H-7	Total/NA	Solid	8021B	65489
890-5488-8	H-8	Total/NA	Solid	8021B	65489
890-5488-12	AH-1 3-3.5	Total/NA	Solid	8021B	65489
890-5488-13	AH-1 4-4.5	Total/NA	Solid	8021B	65489
890-5488-14	AH-2 0-1	Total/NA	Solid	8021B	65489
890-5488-15	AH-2 1-1.5	Total/NA	Solid	8021B	65489
890-5488-16	AH-2 2-2.5	Total/NA	Solid	8021B	65489
890-5488-17	AH-3 0-1	Total/NA	Solid	8021B	65489
890-5488-18	AH-3 1-1.5	Total/NA	Solid	8021B	65489
890-5488-19	AH-3 2-2.5	Total/NA	Solid	8021B	65489
890-5488-20	AH-4 0-1	Total/NA	Solid	8021B	65489
MB 880-65489/5-A	Method Blank	Total/NA	Solid	8021B	65489
MB 880-65555/5-A	Method Blank	Total/NA	Solid	8021B	65555
LCS 880-65489/1-A	Lab Control Sample	Total/NA	Solid	8021B	65489
LCSD 880-65489/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65489
890-5488-1 MS	H-1	Total/NA	Solid	8021B	65489
890-5488-1 MSD	H-1	Total/NA	Solid	8021B	65489

Prep Batch: 65644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5488-9	AH-1 0-1	Total/NA	Solid	5035	
890-5488-10	AH-1 1-1.5	Total/NA	Solid	5035	
890-5488-11	AH-1 2-2.5	Total/NA	Solid	5035	
MB 880-65644/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65644/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65644/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

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Client: Tetra Tech, Inc.

Project/Site: JR Oil

Job ID: 890-5488-1

GC VOA

Analysis Batch: 65680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5488-9	AH-1 0-1	Total/NA	Solid	8021B	65644
890-5488-10	AH-1 1-1.5	Total/NA	Solid	8021B	65644
890-5488-11	AH-1 2-2.5	Total/NA	Solid	8021B	65644
MB 880-65644/5-A	Method Blank	Total/NA	Solid	8021B	65644
MB 880-65698/5-A	Method Blank	Total/NA	Solid	8021B	65698
LCS 880-65644/1-A	Lab Control Sample	Total/NA	Solid	8021B	65644
LCSD 880-65644/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65644

Prep Batch: 65698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-65698/5-A	Method Blank	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 65296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5488-1	H-1	Total/NA	Solid	8015B NM	65361
890-5488-2	H-2	Total/NA	Solid	8015B NM	65361
890-5488-3	H-3	Total/NA	Solid	8015B NM	65361
890-5488-4	H-4	Total/NA	Solid	8015B NM	65361
890-5488-5	H-5	Total/NA	Solid	8015B NM	65361
890-5488-6	H-6	Total/NA	Solid	8015B NM	65361
890-5488-7	H-7	Total/NA	Solid	8015B NM	65361
890-5488-8	H-8	Total/NA	Solid	8015B NM	65361
890-5488-9	AH-1 0-1	Total/NA	Solid	8015B NM	65361
890-5488-10	AH-1 1-1.5	Total/NA	Solid	8015B NM	65361
890-5488-11	AH-1 2-2.5	Total/NA	Solid	8015B NM	65361
890-5488-12	AH-1 3-3.5	Total/NA	Solid	8015B NM	65361
890-5488-13	AH-1 4-4.5	Total/NA	Solid	8015B NM	65361
890-5488-14	AH-2 0-1	Total/NA	Solid	8015B NM	65361
890-5488-15	AH-2 1-1.5	Total/NA	Solid	8015B NM	65361
890-5488-16	AH-2 2-2.5	Total/NA	Solid	8015B NM	65361
890-5488-17	AH-3 0-1	Total/NA	Solid	8015B NM	65361
890-5488-18	AH-3 1-1.5	Total/NA	Solid	8015B NM	65361
890-5488-19	AH-3 2-2.5	Total/NA	Solid	8015B NM	65361
890-5488-20	AH-4 0-1	Total/NA	Solid	8015B NM	65361
MB 880-65361/1-A	Method Blank	Total/NA	Solid	8015B NM	65361
LCS 880-65361/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	65361
LCSD 880-65361/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	65361
890-5488-1 MS	H-1	Total/NA	Solid	8015B NM	65361
890-5488-1 MSD	H-1	Total/NA	Solid	8015B NM	65361

Analysis Batch: 65298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5488-21	AH-4 1-1.5	Total/NA	Solid	8015B NM	65363
890-5488-22	AH-4 2-2.5	Total/NA	Solid	8015B NM	65363
890-5488-23	AH-5 0-1	Total/NA	Solid	8015B NM	65363
890-5488-24	AH-5 1-1.5	Total/NA	Solid	8015B NM	65363
890-5488-25	AH-5 2-2.5	Total/NA	Solid	8015B NM	65363
890-5488-26	AH-5 3-3.5	Total/NA	Solid	8015B NM	65363
890-5488-27	AH-5 4-4.5	Total/NA	Solid	8015B NM	65363

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Client: Tetra Tech, Inc. Job ID: 890-5488-1 Project/Site: JR Oil

GC Semi VOA (Continued)

Analysis Batch: 65298 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5488-28	AH-6 0-1	Total/NA	Solid	8015B NM	65363
890-5488-29	AH-6 1-1.5	Total/NA	Solid	8015B NM	65363
890-5488-30	AH-6 2-2.5	Total/NA	Solid	8015B NM	65363
890-5488-31	AH-6 3-3.5	Total/NA	Solid	8015B NM	65363
MB 880-65363/1-A	Method Blank	Total/NA	Solid	8015B NM	65363
LCS 880-65363/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	65363
LCSD 880-65363/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	65363

Prep Batch: 65361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5488-1	H-1	Total/NA	Solid	8015NM Prep	
890-5488-2	H-2	Total/NA	Solid	8015NM Prep	
890-5488-3	H-3	Total/NA	Solid	8015NM Prep	
890-5488-4	H-4	Total/NA	Solid	8015NM Prep	
890-5488-5	H-5	Total/NA	Solid	8015NM Prep	
890-5488-6	H-6	Total/NA	Solid	8015NM Prep	
890-5488-7	H-7	Total/NA	Solid	8015NM Prep	
890-5488-8	H-8	Total/NA	Solid	8015NM Prep	
890-5488-9	AH-1 0-1	Total/NA	Solid	8015NM Prep	
890-5488-10	AH-1 1-1.5	Total/NA	Solid	8015NM Prep	
890-5488-11	AH-1 2-2.5	Total/NA	Solid	8015NM Prep	
890-5488-12	AH-1 3-3.5	Total/NA	Solid	8015NM Prep	
890-5488-13	AH-1 4-4.5	Total/NA	Solid	8015NM Prep	
890-5488-14	AH-2 0-1	Total/NA	Solid	8015NM Prep	
890-5488-15	AH-2 1-1.5	Total/NA	Solid	8015NM Prep	
890-5488-16	AH-2 2-2.5	Total/NA	Solid	8015NM Prep	
890-5488-17	AH-3 0-1	Total/NA	Solid	8015NM Prep	
890-5488-18	AH-3 1-1.5	Total/NA	Solid	8015NM Prep	
890-5488-19	AH-3 2-2.5	Total/NA	Solid	8015NM Prep	
890-5488-20	AH-4 0-1	Total/NA	Solid	8015NM Prep	
MB 880-65361/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-65361/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-65361/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5488-1 MS	H-1	Total/NA	Solid	8015NM Prep	
890-5488-1 MSD	H-1	Total/NA	Solid	8015NM Prep	

Prep Batch: 65363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5488-21	AH-4 1-1.5	Total/NA	Solid	8015NM Prep	
890-5488-22	AH-4 2-2.5	Total/NA	Solid	8015NM Prep	
890-5488-23	AH-5 0-1	Total/NA	Solid	8015NM Prep	
890-5488-24	AH-5 1-1.5	Total/NA	Solid	8015NM Prep	
890-5488-25	AH-5 2-2.5	Total/NA	Solid	8015NM Prep	
890-5488-26	AH-5 3-3.5	Total/NA	Solid	8015NM Prep	
890-5488-27	AH-5 4-4.5	Total/NA	Solid	8015NM Prep	
890-5488-28	AH-6 0-1	Total/NA	Solid	8015NM Prep	
890-5488-29	AH-6 1-1.5	Total/NA	Solid	8015NM Prep	
890-5488-30	AH-6 2-2.5	Total/NA	Solid	8015NM Prep	
890-5488-31	AH-6 3-3.5	Total/NA	Solid	8015NM Prep	
MB 880-65363/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-65363/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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Client: Tetra Tech, Inc. Job ID: 890-5488-1

Project/Site: JR Oil

GC Semi VOA (Continued)

Prep Batch: 65363 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-65363/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 65212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5488-1	H-1	Soluble	Solid	DI Leach	
890-5488-2	H-2	Soluble	Solid	DI Leach	
MB 880-65212/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-65212/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-65212/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 65213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-5488-3	H-3	Soluble	Solid	DI Leach	
890-5488-4	H-4	Soluble	Solid	DI Leach	
890-5488-5	H-5	Soluble	Solid	DI Leach	
890-5488-6	H-6	Soluble	Solid	DI Leach	
890-5488-7	H-7	Soluble	Solid	DI Leach	
890-5488-8	H-8	Soluble	Solid	DI Leach	
890-5488-9	AH-1 0-1	Soluble	Solid	DI Leach	
890-5488-10	AH-1 1-1.5	Soluble	Solid	DI Leach	
890-5488-11	AH-1 2-2.5	Soluble	Solid	DI Leach	
890-5488-12	AH-1 3-3.5	Soluble	Solid	DI Leach	
890-5488-13	AH-1 4-4.5	Soluble	Solid	DI Leach	
890-5488-14	AH-2 0-1	Soluble	Solid	DI Leach	
890-5488-15	AH-2 1-1.5	Soluble	Solid	DI Leach	
890-5488-16	AH-2 2-2.5	Soluble	Solid	DI Leach	
890-5488-17	AH-3 0-1	Soluble	Solid	DI Leach	
890-5488-18	AH-3 1-1.5	Soluble	Solid	DI Leach	
890-5488-19	AH-3 2-2.5	Soluble	Solid	DI Leach	
890-5488-20	AH-4 0-1	Soluble	Solid	DI Leach	
890-5488-21	AH-4 1-1.5	Soluble	Solid	DI Leach	
890-5488-22	AH-4 2-2.5	Soluble	Solid	DI Leach	
MB 880-65213/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-65213/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-65213/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5488-3 MS	H-3	Soluble	Solid	DI Leach	
890-5488-3 MSD	H-3	Soluble	Solid	DI Leach	
890-5488-13 MS	AH-1 4-4.5	Soluble	Solid	DI Leach	
890-5488-13 MSD	AH-1 4-4.5	Soluble	Solid	DI Leach	

Leach Batch: 65215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5488-23	AH-5 0-1	Soluble	Solid	DI Leach	
890-5488-24	AH-5 1-1.5	Soluble	Solid	DI Leach	
890-5488-25	AH-5 2-2.5	Soluble	Solid	DI Leach	
890-5488-26	AH-5 3-3.5	Soluble	Solid	DI Leach	
890-5488-27	AH-5 4-4.5	Soluble	Solid	DI Leach	
890-5488-28	AH-6 0-1	Soluble	Solid	DI Leach	
890-5488-29	AH-6 1-1.5	Soluble	Solid	DI Leach	

Client: Tetra Tech, Inc. Job ID: 890-5488-1 Project/Site: JR Oil

HPLC/IC (Continued)

Leach Batch: 65215 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5488-30	AH-6 2-2.5	Soluble	Solid	DI Leach	
890-5488-31	AH-6 3-3.5	Soluble	Solid	DI Leach	
MB 880-65215/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-65215/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-65215/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5488-23 MS	AH-5 0-1	Soluble	Solid	DI Leach	
890-5488-23 MSD	AH-5 0-1	Soluble	Solid	DI Leach	

Analysis Batch: 65419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5488-23	AH-5 0-1	Soluble	Solid	300.0	65215
890-5488-24	AH-5 1-1.5	Soluble	Solid	300.0	65215
890-5488-25	AH-5 2-2.5	Soluble	Solid	300.0	65215
890-5488-26	AH-5 3-3.5	Soluble	Solid	300.0	65215
890-5488-27	AH-5 4-4.5	Soluble	Solid	300.0	65215
890-5488-28	AH-6 0-1	Soluble	Solid	300.0	65215
890-5488-29	AH-6 1-1.5	Soluble	Solid	300.0	65215
890-5488-30	AH-6 2-2.5	Soluble	Solid	300.0	65215
890-5488-31	AH-6 3-3.5	Soluble	Solid	300.0	65215
MB 880-65215/1-A	Method Blank	Soluble	Solid	300.0	65215
LCS 880-65215/2-A	Lab Control Sample	Soluble	Solid	300.0	65215
LCSD 880-65215/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	65215
890-5488-23 MS	AH-5 0-1	Soluble	Solid	300.0	65215
890-5488-23 MSD	AH-5 0-1	Soluble	Solid	300.0	65215

Analysis Batch: 65471

Lab Sample ID 890-5488-1	Client Sample ID H-1	Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 65212
890-5488-2	H-2	Soluble	Solid	300.0	65212
MB 880-65212/1-A	Method Blank	Soluble	Solid	300.0	65212
LCS 880-65212/2-A	Lab Control Sample	Soluble	Solid	300.0	65212
LCSD 880-65212/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	65212

Analysis Batch: 65480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5488-3	H-3	Soluble	Solid	300.0	65213
890-5488-4	H-4	Soluble	Solid	300.0	65213
890-5488-5	H-5	Soluble	Solid	300.0	65213
890-5488-6	H-6	Soluble	Solid	300.0	65213
890-5488-7	H-7	Soluble	Solid	300.0	65213
890-5488-8	H-8	Soluble	Solid	300.0	65213
890-5488-9	AH-1 0-1	Soluble	Solid	300.0	65213
890-5488-10	AH-1 1-1.5	Soluble	Solid	300.0	65213
890-5488-11	AH-1 2-2.5	Soluble	Solid	300.0	65213
890-5488-12	AH-1 3-3.5	Soluble	Solid	300.0	65213
890-5488-13	AH-1 4-4.5	Soluble	Solid	300.0	65213
890-5488-14	AH-2 0-1	Soluble	Solid	300.0	65213
890-5488-15	AH-2 1-1.5	Soluble	Solid	300.0	65213
890-5488-16	AH-2 2-2.5	Soluble	Solid	300.0	65213
890-5488-17	AH-3 0-1	Soluble	Solid	300.0	65213
890-5488-18	AH-3 1-1.5	Soluble	Solid	300.0	65213

Client: Tetra Tech, Inc. Job ID: 890-5488-1 Project/Site: JR Oil

HPLC/IC (Continued)

Analysis Batch: 65480 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5488-19	AH-3 2-2.5	Soluble	Solid	300.0	65213
890-5488-20	AH-4 0-1	Soluble	Solid	300.0	65213
890-5488-21	AH-4 1-1.5	Soluble	Solid	300.0	65213
890-5488-22	AH-4 2-2.5	Soluble	Solid	300.0	65213
MB 880-65213/1-A	Method Blank	Soluble	Solid	300.0	65213
LCS 880-65213/2-A	Lab Control Sample	Soluble	Solid	300.0	65213
LCSD 880-65213/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	65213
890-5488-3 MS	H-3	Soluble	Solid	300.0	65213
890-5488-3 MSD	H-3	Soluble	Solid	300.0	65213
890-5488-13 MS	AH-1 4-4.5	Soluble	Solid	300.0	65213
890-5488-13 MSD	AH-1 4-4.5	Soluble	Solid	300.0	65213

Client: Tetra Tech, Inc. Project/Site: JR Oil

Client Sample ID: H-1

Lab Sample ID: 890-5488-1

Matrix: Solid

Date Collected: 10/18/23 00:00 Date Received: 10/19/23 13:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	65489	10/24/23 14:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65593	10/27/23 00:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	65361	10/23/23 12:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65296	10/23/23 20:51	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	65212	10/20/23 11:56	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65471	10/25/23 05:08	CH	EET MID

Client Sample ID: H-2

Date Collected: 10/18/23 00:00

Lab Sample ID: 890-5488-2

Matrix: Solid

Date Received: 10/19/23 13:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	65489	10/24/23 14:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65593	10/27/23 00:44	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	65361	10/23/23 12:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65296	10/23/23 21:55	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	65212	10/20/23 11:56	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65471	10/25/23 05:14	CH	EET MID

Client Sample ID: H-3

Date Collected: 10/18/23 00:00

Lab Sample ID: 890-5488-3

Matrix: Solid

Date Collected: 10/18/23 00:00 Date Received: 10/19/23 13:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	65489	10/24/23 14:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65593	10/27/23 01:05	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	65361	10/23/23 12:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65296	10/23/23 22:17	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	65213	10/20/23 11:58	SMC	EET MID
Soluble	Analysis	300.0		1			65480	10/25/23 06:33	CH	EET MID

Client Sample ID: H-4

Date Collected: 10/18/23 00:00

Lab Sample ID: 890-5488-4

Matrix: Solid

Date Received: 10/19/23 13:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	65489	10/24/23 14:46	MNR	EET MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	65593	10/27/23 01:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	65361	10/23/23 12:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65296	10/23/23 22:38	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	65213	10/20/23 11:58	SMC	EET MI
Soluble	Analysis	300.0		1			65480	10/25/23 06:50	CH	EET MI

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EET MID

Client Sample ID: H-5

Date Collected: 10/18/23 00:00 Date Received: 10/19/23 13:16

Lab Sample ID: 890-5488-5

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	65489	10/24/23 14:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65593	10/27/23 01:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	65361	10/23/23 12:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65296	10/23/23 22:59	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	65213	10/20/23 11:58	SMC	EET MID
Soluble	Analysis	300.0		1			65480	10/25/23 06:55	CH	EET MID

Lab Sample ID: 890-5488-6

Matrix: Solid

Date Collected: 10/18/23 00:00 Date Received: 10/19/23 13:16

Client Sample ID: H-6

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	65489	10/24/23 14:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65593	10/27/23 02:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	65361	10/23/23 12:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65296	10/23/23 23:21	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	65213	10/20/23 11:58	SMC	EET MID
Soluble	Analysis	300.0		1			65480	10/25/23 07:01	CH	EET MID

Client Sample ID: H-7 Lab Sample ID: 890-5488-7

Matrix: Solid

Date Collected: 10/18/23 00:00 Date Received: 10/19/23 13:16

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	65489	10/24/23 14:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65593	10/27/23 02:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	65361	10/23/23 12:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65296	10/23/23 23:42	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	65213	10/20/23 11:58	SMC	EET MID
Soluble	Analysis	300.0		1			65480	10/25/23 07:06	CH	EET MID

Client Sample ID: H-8 Lab Sample ID: 890-5488-8

Date Collected: 10/18/23 00:00 Matrix: Solid Date Received: 10/19/23 13:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	65489	10/24/23 14:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65593	10/27/23 02:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	65361	10/23/23 12:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65296	10/24/23 00:03	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	65213	10/20/23 11:58	SMC	EET MID
Soluble	Analysis	300.0		1			65480	10/25/23 07:23	CH	EET MID

Client Sample ID: AH-1 0-1

Date Collected: 10/18/23 00:00 Date Received: 10/19/23 13:16

Lab Sample ID: 890-5488-9

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Method Factor **Prep Type** Type Run **Amount** Amount Number or Analyzed Analyst Lab Total/NA 5035 65644 EET MID Prep 5.02 g 5 mL 10/26/23 11:52 MNR Total/NA 8021B 65680 10/28/23 16:25 MNR Analysis 10 5 mL 5 mL **EET MID** Total/NA Prep 8015NM Prep 9.92 q 10 mL 65361 10/23/23 12:12 TKC **EET MID** Total/NA Analysis 8015B NM 5 1 uL 1 uL 65296 10/24/23 02:53 SM **EET MID** 50 mL 65213 10/20/23 11:58 SMC Soluble Leach DI Leach 4.96 g **EET MID** Soluble Analysis 300.0 1 65480 10/25/23 07:29 CH **EET MID**

Lab Sample ID: 890-5488-10

Matrix: Solid

Date Collected: 10/18/23 00:00 Date Received: 10/19/23 13:16

Client Sample ID: AH-1 1-1.5

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor Amount Amount** Number or Analyzed **Analyst** Lab Total/NA Prep 5035 5.03 g 5 mL 65644 10/26/23 11:52 MNR **EET MID** 8021B 65680 Total/NA 10 5 mL 5 mL 10/28/23 16:46 MNR Analysis **EET MID** Total/NA Prep 8015NM Prep 9.90 q 10 mL 65361 10/23/23 12:12 TKC **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 65296 10/24/23 01:50 SM **EET MID** 1 Soluble 4.96 g 50 mL 65213 10/20/23 11:58 SMC **EET MID** Leach DI Leach Soluble Analysis 300.0 65480 10/25/23 07:35 CH 1 **EET MID**

Client Sample ID: AH-1 2-2.5 Lab Sample ID: 890-5488-11 Date Collected: 10/18/23 00:00

Matrix: Solid Date Received: 10/19/23 13:16

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	65644	10/26/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	65680	10/28/23 17:06	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	65361	10/23/23 12:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65296	10/24/23 02:11	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	65213	10/20/23 11:58	SMC	EET MID
Soluble	Analysis	300.0		1			65480	10/25/23 07:40	CH	EET MID

Client Sample ID: AH-1 3-3.5 Lab Sample ID: 890-5488-12

Date Collected: 10/18/23 00:00 Matrix: Solid Date Received: 10/19/23 13:16

Bate	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Prep	5035			5.03 g	5 mL	65489	10/24/23 14:46	MNR	EET MID	
Total/NA	Analysis	8021B		1	5 mL	5 mL	65593	10/27/23 05:18	SM	EET MID	
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	65361	10/23/23 12:12	TKC	EET MID	
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65296	10/24/23 00:25	SM	EET MID	
Soluble	Leach	DI Leach			4.99 g	50 mL	65213	10/20/23 11:58	SMC	EET MID	
Soluble	Analysis	300.0		1			65480	10/25/23 07:46	CH	EET MID	

Client: Tetra Tech, Inc. Project/Site: JR Oil

Client Sample ID: AH-1 4-4.5

Date Collected: 10/18/23 00:00 Date Received: 10/19/23 13:16

Lab Sample ID: 890-5488-13

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	65489	10/24/23 14:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65593	10/27/23 05:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	65361	10/23/23 12:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65296	10/24/23 00:46	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	65213	10/20/23 11:58	SMC	EET MID
Soluble	Analysis	300.0		1			65480	10/25/23 07:52	CH	EET MID

Lab Sample ID: 890-5488-14

Matrix: Solid

Date Collected: 10/18/23 00:00 Date Received: 10/19/23 13:16

Client Sample ID: AH-2 0-1

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor** Amount **Amount** Number or Analyzed Analyst Lab Total/NA Prep 5035 4.97 g 5 mL 65489 10/24/23 14:46 MNR **EET MID** Total/NA 8021B 65593 Analysis 5 mL 5 mL 10/27/23 05:59 SM **EET MID** 1 Total/NA Prep 8015NM Prep 10.08 q 10 mL 65361 10/23/23 12:12 TKC **EET MID** Total/NA Analysis 8015B NM 5 1 uL 1 uL 65296 10/24/23 03:14 SM **EET MID** Soluble Leach DI Leach 4.95 g 50 mL 65213 10/20/23 11:58 SMC **EET MID** Soluble Analysis 300.0 65480 10/25/23 08:08 CH **EET MID** 1

Client Sample ID: AH-2 1-1.5 Lab Sample ID: 890-5488-15

Matrix: Solid

Date Collected: 10/18/23 00:00 Date Received: 10/19/23 13:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	65489	10/24/23 14:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65593	10/27/23 06:20	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	65361	10/23/23 12:12	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	65296	10/24/23 03:36	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	65213	10/20/23 11:58	SMC	EET MID
Soluble	Analysis	300.0		1			65480	10/25/23 08:14	CH	EET MID

Client Sample ID: AH-2 2-2.5 Lab Sample ID: 890-5488-16 Date Collected: 10/18/23 00:00 Matrix: Solid

Date Received: 10/19/23 13:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	65489	10/24/23 14:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65593	10/27/23 06:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	65361	10/23/23 12:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65296	10/24/23 04:18	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	65213	10/20/23 11:58	SMC	EET MID
Soluble	Analysis	300.0		1			65480	10/25/23 08:31	CH	EET MID

Client Sample ID: AH-3 0-1

Lab Sample ID: 890-5488-17

Matrix: Solid

Date Collected: 10/18/23 00:00 Date Received: 10/19/23 13:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	65489	10/24/23 14:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65593	10/27/23 07:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	65361	10/23/23 12:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65296	10/24/23 01:29	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	65213	10/20/23 11:58	SMC	EET MID
Soluble	Analysis	300.0		1			65480	10/25/23 08:37	CH	EET MID

Lab Sample ID: 890-5488-18

Date Collected: 10/18/23 00:00 Date Received: 10/19/23 13:16

Client Sample ID: AH-3 1-1.5

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	65489	10/24/23 14:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65593	10/27/23 07:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	65361	10/23/23 12:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65296	10/24/23 02:32	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	65213	10/20/23 11:58	SMC	EET MID
Soluble	Analysis	300.0		1			65480	10/25/23 08:42	CH	EET MID

Client Sample ID: AH-3 2-2.5 Lab Sample ID: 890-5488-19 Date Collected: 10/18/23 00:00

Matrix: Solid

Date Received: 10/19/23 13:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	65489	10/24/23 14:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65593	10/27/23 07:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	65361	10/23/23 12:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65296	10/24/23 04:39	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	65213	10/20/23 11:58	SMC	EET MID
Soluble	Analysis	300.0		1			65480	10/25/23 08:48	CH	EET MID

Client Sample ID: AH-4 0-1 Lab Sample ID: 890-5488-20 Date Collected: 10/18/23 00:00

Date Received: 10/19/23 13:16

Matrix: Solid

ı	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	65489	10/24/23 14:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65593	10/27/23 08:02	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	65361	10/23/23 12:12	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	65296	10/24/23 03:57	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	65213	10/20/23 11:58	SMC	EET MID
Soluble	Analysis	300.0		1			65480	10/25/23 08:53	CH	EET MID

Job ID: 890-5488-1

Client: Tetra Tech, Inc. Project/Site: JR Oil

Client Sample ID: AH-4 1-1.5

Date Collected: 10/18/23 00:00 Date Received: 10/19/23 13:16

Lab Sample ID: 890-5488-21

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	65487	10/24/23 14:19	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	65514	10/26/23 02:58	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	65363	10/23/23 12:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65298	10/24/23 02:32	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	65213	10/20/23 11:58	SMC	EET MID
Soluble	Analysis	300.0		1			65480	10/25/23 08:59	CH	EET MID

Lab Sample ID: 890-5488-22

Matrix: Solid

Date Collected: 10/18/23 00:00 Date Received: 10/19/23 13:16

Client Sample ID: AH-4 2-2.5

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor** Amount **Amount** Number or Analyzed Analyst Lab Total/NA Prep 5035 5.01 g 5 mL 65487 10/24/23 14:19 MNR **EET MID** Total/NA 8021B 65514 Analysis 5 mL 5 mL 10/26/23 01:16 MNR **EET MID** 1 Total/NA Prep 8015NM Prep 10.02 q 10 mL 65363 10/23/23 12:15 TKC **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 65298 10/24/23 04:39 SM **EET MID** Soluble Leach DI Leach 4.99 g 50 mL 65213 10/20/23 11:58 SMC **EET MID** Soluble Analysis 300.0 65480 10/25/23 09:05 CH **EET MID** 1

Client Sample ID: AH-5 0-1 Lab Sample ID: 890-5488-23

Matrix: Solid

Date Collected: 10/18/23 00:00 Date Received: 10/19/23 13:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	65487	10/24/23 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65514	10/26/23 01:36	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	65363	10/23/23 12:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65298	10/24/23 02:53	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	65215	10/23/23 14:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65419	10/24/23 10:52	CH	EET MID

Client Sample ID: AH-5 1-1.5 Lab Sample ID: 890-5488-24 Date Collected: 10/18/23 00:00 Matrix: Solid

Date Received: 10/19/23 13:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	65487	10/24/23 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65514	10/26/23 01:56	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	65363	10/23/23 12:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65298	10/24/23 01:50	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	65215	10/23/23 14:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65419	10/24/23 11:12	CH	EET MID

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Client Sample ID: AH-5 2-2.5

Date Collected: 10/18/23 00:00 Date Received: 10/19/23 13:16

Lab Sample ID: 890-5488-25

Lab Sample ID: 890-5488-27

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	65487	10/24/23 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65514	10/26/23 02:17	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	65363	10/23/23 12:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65298	10/24/23 03:36	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	65215	10/23/23 14:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65419	10/24/23 11:19	CH	EET MID

Client Sample ID: AH-5 3-3.5

Date Collected: 10/18/23 00:00 Date Received: 10/19/23 13:16

Lab Sample ID: 890-5488-26 **Matrix: Solid**

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor** Amount **Amount** Number or Analyzed Analyst Lab Total/NA Prep 5035 5.03 g 5 mL 65487 10/24/23 14:19 MNR **EET MID** Total/NA 8021B 65514 Analysis 5 mL 5 mL 10/26/23 02:37 MNR **EET MID** 1 Total/NA Prep 8015NM Prep 9.93 q 10 mL 65363 10/23/23 12:15 TKC **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 65298 10/24/23 04:18 SM **EET MID** Soluble Leach DI Leach 4.99 a 50 mL 65215 10/23/23 14:00 SMC **EET MID** Soluble Analysis 300.0 50 mL 50 mL 65419 10/24/23 11:39 CH **EET MID** 1

Client Sample ID: AH-5 4-4.5

Date Collected: 10/18/23 00:00

Date Received: 10/19/23 13:16

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	65487	10/24/23 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65514	10/26/23 04:47	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	65363	10/23/23 12:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65298	10/24/23 03:57	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	65215	10/23/23 14:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65419	10/24/23 11:45	CH	EET MID

Client Sample ID: AH-6 0-1

Date Collected: 10/18/23 00:00

Date Received: 10/19/23 13:16

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	65487	10/24/23 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65514	10/26/23 05:08	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	65363	10/23/23 12:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65298	10/24/23 01:29	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	65215	10/23/23 14:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65419	10/24/23 11:52	CH	EET MID

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Lab Sample ID: 890-5488-28 Matrix: Solid

Matrix: Solid

Released to Imaging: 3/7/2025 1:18:59 PM

Job ID: 890-5488-1

Client: Tetra Tech, Inc. Project/Site: JR Oil

Client Sample ID: AH-6 1-1.5

Date Collected: 10/18/23 00:00 Date Received: 10/19/23 13:16 Lab Sample ID: 890-5488-29

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	65487	10/24/23 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65514	10/26/23 05:28	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	65363	10/23/23 12:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65298	10/24/23 02:11	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	65215	10/23/23 14:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65419	10/24/23 11:59	CH	EET MID

Lab Sample ID: 890-5488-30

Matrix: Solid

Date Collected: 10/18/23 00:00 Date Received: 10/19/23 13:16

Client Sample ID: AH-6 2-2.5

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	65487	10/24/23 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65514	10/26/23 05:48	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	65363	10/23/23 12:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65298	10/24/23 00:46	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	65215	10/23/23 14:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65419	10/24/23 12:05	CH	EET MID

Client Sample ID: AH-6 3-3.5

Date Collected: 10/18/23 00:00

Lab Sample ID: 890-5488-31

Matrix: Solid

Date Collected: 10/18/23 00:00 Matrix: Solid
Date Received: 10/19/23 13:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	65487	10/24/23 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65514	10/26/23 06:09	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	65363	10/23/23 12:15	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	65298	10/24/23 03:14	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	65215	10/23/23 14:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65419	10/24/23 12:12	CH	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-5488-1

Project/Site: JR Oil

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

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

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Method Summary

Client: Tetra Tech, Inc. Project/Site: JR Oil

Job ID: 890-5488-1

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

Laboratory References:

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

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: JR Oil

Job ID: 890-5488-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-5488-1	- . H-1	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-2	H-2	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-3	H-3	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-4	H-4	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-5	H-5	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-6	H-6	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-7	H-7	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-8	H-8	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-9	AH-1 0-1	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-10	AH-1 1-1.5	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-11	AH-1 2-2.5	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-12	AH-1 3-3.5	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-13	AH-1 4-4.5	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-14	AH-2 0-1	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-15	AH-2 1-1.5	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-16	AH-2 2-2.5	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-17	AH-3 0-1	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-18	AH-3 1-1.5	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-19	AH-3 2-2.5	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-20	AH-4 0-1	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-21	AH-4 1-1.5	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-22	AH-4 2-2.5	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-23	AH-5 0-1	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-24	AH-5 1-1.5	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-25	AH-5 2-2.5	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-26	AH-5 3-3.5	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-27	AH-5 4-4.5	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-28	AH-6 0-1	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-29	AH-6 1-1.5	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-30	AH-6 2-2.5	Solid	10/18/23 00:00	10/19/23 13:16
890-5488-31	AH-6 3-3.5	Solid	10/18/23 00:00	10/19/23 13:16

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Tetra Tech, Inc. Sampler Separative: Brittany Long @left also hooms Sampler Separative: Brittany Long @left also hooms Sampler Separative: Brittany Long @left also hooms Sampler Separative: Miguel Flores Sampler Separative: Sampler Separative: Sampler Separative: Miguel Flores Sampler Separative: Sampler Separativ		Relinquished by:	Relinquished by:	71.14	Morel &	Relinquished by:	AH-1	1 AH-1	H-8	H-7	H-6	H-5	H-4	H-3	H-2	H-1	(LAII USE)	- App #		Comments:	Receiving Laboratory:	invoice to:	Project Location: (county, state)	Project Name:	Client Name:	급
# CONTAINERS Date: Time: C C C C C C C C C					Pares (0/18/2)	Date:	AH-1 (1-1.5')	AH-1 (0-1')										SAMPLE IDENTIFICATION			Eurofins Xenco	ATTN: JR Oil Rex Tippy	Lea County, NM	Trac C	JR Oil	
# CONTAINERS FILTERED (Y/N)		Received by:	Necessary by:	Received hy:	which	Received by:	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023		YEAR: 2020	SAMPLING		Sampler Signature:		Project #:		Site Manager:	
# CONTAINERS FILTERED (Y/N)				1	10/19												WATER SOIL HCL HNO ₃	₹			Miguel Flores		212C-MD-XXXX	brittany.long@tetrate	Brittany Long	901W Wall Street, Sie 100 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946
TCLP Metals Ag As Ba Cd Cr F TCLP Volatiles TCLP Semi Volatiles	(Circ	ne:				acc	×	×	×	×	×	×	×	×	×	×	# CONT FILTER BTEX 8	ED ('	ERS Y/N) BTI		0В			ch.com		
PLM (Asbestos)	FEDEX	Special Report Limits or TRRP Report	Rush Ct	RUSH	N N N N N N N N N N N N N N N N N N N	REMARKS		×	×	×	×	×	×	×	×	×	TPH 80 PAH 82 Total Me TCLP M TCLP V TCLP S RCI GC/MS GC/MS PCB's I	15M 270C etals etals olatile emi \ Vol. Semi	Ag As Ag	Ba Cd CBa Cd C	Or P				ANALYSIS REQUEST (Circle or Specify Metho	

Sampler Signature: Miguel Flores Steel Size 100	Tetra Tech, Inc.	Tetra Tech, Inc.	Tetra Tech, Inc.	Tetra Tech. Inc.
Brittany Long PRESERVATIVE METHOD METHOD Date: Time: Date: Time: Date: Time:	Brittany Long Britta	Brittany Long Brittany Lon	# CONTAINERS Date: Time: Date: Time: Time: Date: Time: Time: Date: Time: Time: Date: Date:	# CONTAINERS Date: Time: Date: Time: Time: Date: Time: Time: Date: Time: Time: Date: Date:
Miguel Flores Niguel Flores Miguel Flores Niguel Flores	Moderatives 100 Moderatives 79705 Tel (432) 682-3946 Brittany Long Deteratech.com 212C-MD-XXXX 212C-MD-XXXX X X X X X X X X X X X X X X X X X	Brittany_long@tetratech.com	Date: Time: Date: Data: Date: Date: Date: Date: Date: Date: Date: Data	Date: Time: Date: Data: Date: Date: Date: Date: Date: Date: Date: Data
AD-XXXXX PRESERVATIVE METHOD PRESERVATIVE METHOD ADate: Time: Date: Time:	⇒ # CONTAINERS FILTERED (Y/N)	# CONTAINERS FILTERED (Y/N) # CONTAINERS FILTERED (Y/N) FILTERED (Y/N)	# CONTAINERS FILTERED (Y/N) FILTERED (Y/N)	
	γ CONTAINERS FILTERED (Y/N)	# CONTAINERS FILTERED (Y/N) # CONTAINERS FILTERED (Y/N)	# CONTAINERS FILTERED (Y/N)	

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Site Manager: Brittany Long	Sampler Signature: Brittany Long Brittany Long	Sampler Signature: Brittany Long Exc. 2020 Exc	Sampler Signature: Miguel Flores Miguel Fl	Sampler Signature: Miguel Flores Miguel Flores Sampler Signature: Miguel Flores	Sampler Signature: Miguel Flores Sample Flores	Site Manager: Brittany Long Brittany Lon	Sin Manager: Brittany Long Corde Sin Manager: Brittany Long Corde Sin Manager: Brittany Long Brittany Long Corde Sampler Signature: Miguel Flores Sampler Signature: ANA Science Sampler Signature: Sampler	Sin Manager: Brittany Long Corde Sin Manager: Brittany Long Corde Sin Manager: Brittany Long Brittany Long Corde Sampler Signature: Miguel Flores Sampler Signature: ANA Science Sampler Signature: Sampler	Site Manager: Brittany Long Long Site Manager: Brittany Long Britt	Tetra Tech, Inc.	Site Manager: Brittany Long Site Manager: Brittany Long Brittany Lon	Relinquished by:	Relinguished by:	Myny	Relinquished by:					_	1)			(LAB USE)	LAB #		Comments:	Receiving Laboratory:	invoice to:	Project Location: (county, state)	Project Name:	Cilent Name:	7
Site Manager: Brittany Long	Sampler Signature: Brittany Long Brittany Long	Sampler Signature: Brittany Long Exc. 2020 Exc	Sampler Signature: Miguel Flores Miguel Fl	Sampler Signature: Miguel Flores Miguel Flores Sampler Signature: Miguel Flores	Sampler Signature: Miguel Flores Sample Flores	Site Manager: Brittany Long Brittany Lon	Sin Manager: Brittany Long Corde Sin Manager: Brittany Long Corde Sin Manager: Brittany Long Brittany Long Corde Sampler Signature: Miguel Flores Sampler Signature: ANA Science Sampler Signature: Sampler	Sin Manager: Brittany Long Corde Sin Manager: Brittany Long Corde Sin Manager: Brittany Long Brittany Long Corde Sampler Signature: Miguel Flores Sampler Signature: ANA Science Sampler Signature: Sampler	Site Manager: Brittany Long Long Site Manager: Brittany Long Britt	Site Manager: Brittany Long Long Site Manager: Brittany Long Britt	Site Manager: Brittany Long Site Manager: Brittany Long Brittany Lon			t feel	1 1 0	AH-6 (2-2.5')	AH-6 (1-1.5')	AH-6 (0-1')	AH-5 (4-4.5')	AH-5 (3-3.5')	AH-5 (2-2.5')	AH-5 (1-1.5')	AH-5 (0-1')	AH-4 (2-2.5')	AH4 (1-1.5')		SAMPI				ATTN: JR C	Lea County,		JR Oil	Tet
Miguel Flores Time: Date: Time:	Miguel Flores FILTERED (Y/N) PRESERVATIVE NO HCL HNO NO HCONTAINERS FILTERED (Y/N) Pate: Time: Date: Time:	MATRIX PRESERVATIVE HCL Mone PRESERVATIVE HCL Mone PRESERVATIVE NONE PRESERVATIVE PRESERVATIVE NONE PR	Miguel Flores Filtered (422) 662-3946 Filtered (422) 662-462 Filtered (422) 662-462 Filtered (422) 662-462	Miguel Flores Filtered (422) 662-3556 Fax (432) 662-3946 MATRIX PRESERWATIVE MIGUEL Flores Miguel Flores Miguel Flores Miguel Flores FILTERED (Y/N) Date: Time: Date: Time:	Brittany Long WATER WATER Miguel Flores Fax (432) 822-3846 Fax (432) 822-3846 Fax (432) 822-3846 Fax (432) 822-3846 Filtered (y/N) Filtered (y	Date: Time: Date: Time: Time: Date: Data: Date: Date: Date: Date: Date: Date: Date: Data	Date: Time: Date: Time: Time: Date: Data: Date: Date: Date: Date: Date: Date: Date: Data	Date: Time: Date: Time: Time: Date: Data: Date: Date: Date: Date: Date: Date: Date: Data	Date: Time: Date: Time: D	Date: Time: Date: Time: Time: Date: Data: Date: Date: Date: Date: Date: Date: Date: Data	Date: Time: Date: Time: Time: Date: Data: Date: Date: Date: Date: Date: Date: Date: Data			10/18/23													LE IDENTIFICATION			nco	il Rex Tippy	NM			ra Tech, Inc.
Miguel Flores Time: Date: Time: Date: Time:	# CONTAINERS FILTERED (Y/N)	# CONTAINERS FILTERED (Y/N)	# CONTAINERS FILTERED (Y/N)	# CONTAINERS FILTERED (Y/N)	# CONTAINERS # CONTAINERS	# CONTAINERS FILTERED (Y/N)	# CONTAINERS FILTERED (Y/N)	# CONTAINERS FILTERED (Y/N)	Received by:	Received by:	alrah	Received by:	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023		YEAR: 2020	SAMPLING		Sampler Signature:		Project #:		Site Manager:				
ALT EXECUTION OF TIME: Street Street Ste 100 ALT EXECT 79705 32) 662-4559 32) 662-4559 32) 662-4559 32) 662-3946 32) 662-3966 32) 662-3966 32) 662-3966	# CONTAINERS FILTERED (Y/N)	# CONTAINERS FILTERED (Y/N)	# CONTAINERS FILTERED (Y/N)	# CONTAINERS FILTERED (Y/N)	# CONTAINERS # CONTAINERS	# CONTAINERS FILTERED (Y/N)	# CONTAINERS FILTERED (Y/N)	# CONTAINERS FILTERED (Y/N)					×	×	×	×	×	×	×	×	×	×	SOIL	R	MATRIX		Miguel		212C-N	brittany.lon	Brittany Lo	901W Wa Midlam Tel (4 Fax (4			
	# CONTAINERS FILTERED (Y/N)	# CONTAINERS FILTERED (Y/N)	# CONTAINERS FILTERED (Y/N)	# CONTAINERS FILTERED (Y/N)	# CONTAINERS # CONTAINERS	# CONTAINERS FILTERED (Y/N)	# CONTAINERS FILTERED (Y/N)	# CONTAINERS FILTERED (Y/N)				Time:	×	×	×	×	×	×	×	×	×	×	HNO₃ ICE		PRESERVATIVE METHOD		Flores		MD-XXXXXX	g@tetratech.co	gnc	all Street, Sie 100 d.Texas 79705 132) 682-4559 432) 682-3946			
TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Volatiles TCLP Semi Volatiles TCLP Semi Volatiles RCI RUSH: Same Day REMARKS: RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM PLM (Asbestos) X X X X X X X X X X X X Chloride Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance	TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Volatiles TCLP Semi Volatiles TCLP Semi Volatiles RCI RUSH: Special Report Limits or TRRP Report Limits or TRRP Report Anion/Cation Balance	TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Volatiles TCLP Semi Volatiles TCLP Semi Volatiles RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM PLM (Asbestos) X X X X X X X X X X X X Chloride Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance	TCLP Semi Volatiles Special Rush Charges Authorized RUSH: Same Day RUSH: Sa	Cial Report Limits or TRRP Report TRRP Rep	Cial Report Limits or TRRP Report TRRP Rep	P Rep 48 Annon/Cation Balance	P Rep 48 Ann Anion/Cation Balance	P Rep 48 Ann Anion/Cation Balance	Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance	Anion/Cation Balance		4		73		-	+	+	-	-	-	-	+	+	-		-								
TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Volatiles TCLP Semi Volatiles TCLP Semi Volatiles RCI RUSH: Seme Vol. 8260B / 624 GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM PLM (Asbestos) ** Tacking ** Tacking ** TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Volatiles TCLP Semi Volatiles TCLP Semi Volatiles RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM PLM (Asbestos) X X X X X X X X X X X X X Chloride Chloride Sulfate TDS General Water Chemistry (see attached list)	TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Volatiles TCLP Semi Volatiles TCLP Semi Volatiles RCI RUSH: Special Report Limits or TRRP Report Limits or TRRP Report Anion/Cation Balance	TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Volatiles TCLP Semi Volatiles TCLP Semi Volatiles RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM PLM (Asbestos) X X X X X X X X X X X X Chloride Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance	TCLP Semi Volatiles Special Rush Charges Authorized RUSH: Same Day RUSH: Sa	Cial Report Limits or TRRP Report TRRP Rep	Cial Report Limits or TRRP Report TRRP Rep	P Rep 48 Annon/Cation Balance	P Rep 48 Ann Anion/Cation Balance	P Rep 48 Ann Anion/Cation Balance	Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance	Report 72 hr	72 hr																								
TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Volatiles TCLP Semi Volatiles TCLP Semi Volatiles RCI RUSH: Same Day REMARKS: RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM PLM (Asbestos) X X X X X X X X X X X X Chloride Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance	TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Volatiles TCLP Semi Volatiles TCLP Semi Volatiles RCI RUSH: Special Report Limits or TRRP Report Limits or TRRP Report Anion/Cation Balance	TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Volatiles TCLP Semi Volatiles TCLP Semi Volatiles RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM PLM (Asbestos) X X X X X X X X X X X X Chloride Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance	TCLP Semi Volatiles Special Rush Charges Authorized RUSH: Same Day RUSH: Sa	Cial Report Limits or TRRP Report TRRP Rep	Cial Report Limits or TRRP Report TRRP Rep	P Rep 48 Annon/Cation Balance	P Rep 48 Ann Anion/Cation Balance	P Rep 48 Ann Anion/Cation Balance	Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance	Anion/Cation Balance	72 hr							Г				T		T	T	Hold									

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Analysis Request of Chain of Custody Record Project Location (county, state) Receiving Laboratory roject Name: elinquished by voice to: DALL USE LAB# ᆏ AH-6 (3-3.5') Eurofins Xenco JR Oil Lea County, NM Manda B Trac C Battery ATTN: JR Oil Rex Tippy Tetra Tech, Inc. SAMPLE IDENTIFICATION Time: Time Site Manager: Received by: ORIGINAL COPY Received by: 10/18/2023 EAR: 2020 DATE SAMPLING TIME brittany.long@tetratech.com WATER **Brittany Long** MATRIX SOIL Miguel Flores 212C-MD-XXXXX 901W Wall Street. Ste 100 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946 Date: Date: HCL HNO₃ ICE Time: None # CONTAINERS FILTERED (Y/N) BTEX 8260B BTEX 8021B (Circle) HAND DELIVERED FEDEX Sample Temperature AB USE ONLY TPH TX1005 (Ext to C35) TPH 8015M (GRO - DRO - ORO) PAH 8270C Circle or Specify Method Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles REMARKS: ANALYSIS REQUEST TCLP Semi Volatiles RUSH: Same Day Special Report Limits or TRRP Report Rush Charges Authorized RCI STANDARD GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM PLM (Asbestos) 24 hr Chloride No Sulfate TDS 48 hr General Water Chemistry (see attached list) Anion/Cation Balance 72 hr 으 Hold

Login Sample Receipt Checklist

Client: Tetra Tech, Inc. Job Number: 890-5488-1

Login Number: 5488 **List Source: Eurofins Carlsbad**

List Number: 1

Creator: Lopez, Abraham

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

Login Sample Receipt Checklist

Client: Tetra Tech, Inc. Job Number: 890-5488-1

List Source: Eurofins Midland
List Number: 2
List Creation: 10/20/23 11:02 AM

Creator: Rodriguez, Leticia

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	N/A	

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<6mm (1/4").



February 06, 2024

BRITTANY LONG
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: MANDA B TRACT C BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/01/24 8:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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/ga/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.

Celey D. Keene

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

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/01/2024 Sampling Date: 01/31/2024

Reported: 02/06/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Shalyn Rodriguez

Applyand By 14

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: T 1 - (0-1') (H240456-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	2.11	105	2.00	3.03	
Toluene*	<0.050	0.050	02/01/2024	ND	2.11	105	2.00	3.04	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.09	104	2.00	3.09	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.32	105	6.00	3.32	
Total BTEX	<0.300	0.300	02/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/01/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	200	100	200	6.47	
DRO >C10-C28*	2350	10.0	02/01/2024	ND	196	97.9	200	2.96	
EXT DRO >C28-C36	440	10.0	02/01/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	188	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/01/2024 Sampling Date: 01/31/2024

Reported: 02/06/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: JR OIL - LEA COUNTY, NM

ma/ka

Sample ID: T 1 - (1-2') (H240456-02)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	2.11	105	2.00	3.03	
Toluene*	<0.050	0.050	02/01/2024	ND	2.11	105	2.00	3.04	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.09	104	2.00	3.09	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.32	105	6.00	3.32	
Total BTEX	<0.300	0.300	02/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	02/01/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	200	100	200	6.47	
DRO >C10-C28*	1930	10.0	02/01/2024	ND	196	97.9	200	2.96	
EXT DRO >C28-C36	713	10.0	02/01/2024	ND					
Surrogate: 1-Chlorooctane	95.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	140	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/01/2024 Sampling Date: 01/31/2024

Reported: 02/06/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: JR OIL - LEA COUNTY, NM

ma/ka

Sample ID: T 1 - (2-3') (H240456-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	2.11	105	2.00	3.03	
Toluene*	<0.050	0.050	02/01/2024	ND	2.11	105	2.00	3.04	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.09	104	2.00	3.09	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.32	105	6.00	3.32	
Total BTEX	<0.300	0.300	02/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/01/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	191	95.3	200	5.96	
DRO >C10-C28*	1880	10.0	02/01/2024	ND	190	94.9	200	6.90	
EXT DRO >C28-C36	904	10.0	02/01/2024	ND					
Surrogate: 1-Chlorooctane	90.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	135	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/01/2024 Sampling Date: 01/31/2024

Reported: 02/06/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C-MD-03262 Shalyn Rodriguez

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: T 1 - (3-4') (H240456-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	2.11	105	2.00	3.03	
Toluene*	<0.050	0.050	02/01/2024	ND	2.11	105	2.00	3.04	
Ethylbenzene*	< 0.050	0.050	02/01/2024	ND	2.09	104	2.00	3.09	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.32	105	6.00	3.32	
Total BTEX	<0.300	0.300	02/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	02/01/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	191	95.3	200	5.96	
DRO >C10-C28*	296	10.0	02/01/2024	ND	190	94.9	200	6.90	
EXT DRO >C28-C36	158	10.0	02/01/2024	ND					
Surrogate: 1-Chlorooctane	72.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.6	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/01/2024 Sampling Date: 01/31/2024

Reported: 02/06/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C-MD-03262 Shalyn Rodriguez

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: T 2 - (0-1') (H240456-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	2.11	105	2.00	3.03	
Toluene*	<0.050	0.050	02/01/2024	ND	2.11	105	2.00	3.04	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.09	104	2.00	3.09	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.32	105	6.00	3.32	
Total BTEX	<0.300	0.300	02/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	02/01/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2024	ND	191	95.3	200	5.96	
DRO >C10-C28*	1180	10.0	02/02/2024	ND	190	94.9	200	6.90	
EXT DRO >C28-C36	495	10.0	02/02/2024	ND					
Surrogate: 1-Chlorooctane	62.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.3	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/01/2024 Sampling Date: 01/31/2024

Reported: 02/06/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: JR OIL - LEA COUNTY, NM

ma/ka

Sample ID: T 2 - (1-2') (H240456-06)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	2.11	105	2.00	3.03	
Toluene*	<0.050	0.050	02/01/2024	ND	2.11	105	2.00	3.04	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.09	104	2.00	3.09	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.32	105	6.00	3.32	
Total BTEX	<0.300	0.300	02/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	02/01/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	191	95.3	200	5.96	
DRO >C10-C28*	893	10.0	02/01/2024	ND	190	94.9	200	6.90	
EXT DRO >C28-C36	382	10.0	02/01/2024	ND					
Surrogate: 1-Chlorooctane	88.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	8						

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Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/01/2024 Sampling Date: 01/31/2024

Reported: 02/06/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: JR OIL - LEA COUNTY, NM

ma/ka

Sample ID: T 2 - (2-3') (H240456-07)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	1.96	98.1	2.00	0.829	
Toluene*	<0.050	0.050	02/01/2024	ND	2.03	102	2.00	1.75	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.01	100	2.00	1.86	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.06	101	6.00	2.15	
Total BTEX	<0.300	0.300	02/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/01/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	191	95.3	200	5.96	
DRO >C10-C28*	990	10.0	02/01/2024	ND	190	94.9	200	6.90	
EXT DRO >C28-C36	358	10.0	02/01/2024	ND					
Surrogate: 1-Chlorooctane	64.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.0	% 49.1-14	8						

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Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/01/2024 Sampling Date: 01/31/2024

Reported: 02/06/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact Project Number: Shalyn Rodriguez 212C-MD-03262 Sample Received By:

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: T 2 - (3-4') (H240456-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	1.96	98.1	2.00	0.829	
Toluene*	<0.050	0.050	02/01/2024	ND	2.03	102	2.00	1.75	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.01	100	2.00	1.86	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.06	101	6.00	2.15	
Total BTEX	<0.300	0.300	02/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/01/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/06/2024	ND	191	95.3	200	5.96	
DRO >C10-C28*	<10.0	10.0	02/06/2024	ND	190	94.9	200	6.90	
EXT DRO >C28-C36	<10.0	10.0	02/06/2024	ND					
Surrogate: 1-Chlorooctane	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.7	% 49.1-14	8						

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Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/01/2024 Sampling Date: 01/31/2024

Reported: 02/06/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: JR OIL - LEA COUNTY, NM

ma/ka

Sample ID: T 3 - (0-1') (H240456-09)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	1.96	98.1	2.00	0.829	
Toluene*	<0.050	0.050	02/01/2024	ND	2.03	102	2.00	1.75	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.01	100	2.00	1.86	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.06	101	6.00	2.15	
Total BTEX	<0.300	0.300	02/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/01/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	191	95.3	200	5.96	
DRO >C10-C28*	1730	10.0	02/01/2024	ND	190	94.9	200	6.90	
EXT DRO >C28-C36	673	10.0	02/01/2024	ND					
Surrogate: 1-Chlorooctane	78.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

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Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/01/2024 Sampling Date: 01/31/2024

Reported: 02/06/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: T 3 - (1-2') (H240456-10)

RTFY 8021R

B1EX 8021B	mg,	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	1.96	98.1	2.00	0.829	
Toluene*	<0.050	0.050	02/01/2024	ND	2.03	102	2.00	1.75	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.01	100	2.00	1.86	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.06	101	6.00	2.15	
Total BTEX	<0.300	0.300	02/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/01/2024	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	191	95.3	200	5.96	
DRO >C10-C28*	45.4	10.0	02/01/2024	ND	190	94.9	200	6.90	
EXT DRO >C28-C36	39.8	10.0	02/01/2024	ND					
Surrogate: 1-Chlorooctane	54.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	53.4	% 49.1-14	8						

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Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/01/2024 Sampling Date: 01/31/2024

Reported: 02/06/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C-MD-03262 Shalyn Rodriguez

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: T 3 - (2-3') (H240456-11)

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	02/01/2024	ND	1.96	98.1	2.00	0.829	
Toluene*	<0.050	0.050	02/01/2024	ND	2.03	102	2.00	1.75	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.01	100	2.00	1.86	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.06	101	6.00	2.15	
Total BTEX	<0.300	0.300	02/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/01/2024	ND	448	112	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	191	95.3	200	5.96	
DRO >C10-C28*	294	10.0	02/01/2024	ND	190	94.9	200	6.90	
EXT DRO >C28-C36	222	10.0	02/01/2024	ND					
Surrogate: 1-Chlorooctane	81.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.5	% 49.1-14	8						

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Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/01/2024 Sampling Date: 01/31/2024

Reported: 02/06/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: T 3 - (3-4') (H240456-12)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	1.96	98.1	2.00	0.829	
Toluene*	<0.050	0.050	02/01/2024	ND	2.03	102	2.00	1.75	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.01	100	2.00	1.86	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.06	101	6.00	2.15	
Total BTEX	<0.300	0.300	02/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/01/2024	ND	448	112	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	191	95.3	200	5.96	
DRO >C10-C28*	683	10.0	02/01/2024	ND	190	94.9	200	6.90	
EXT DRO >C28-C36	257	10.0	02/01/2024	ND					
Surrogate: 1-Chlorooctane	53.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.8	% 49.1-14	8						

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Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/01/2024 Sampling Date: 01/31/2024

Reported: 02/06/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact Project Number: Sample Received By: Shalyn Rodriguez 212C-MD-03262

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: T 4 - (0-1') (H240456-13)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	1.96	98.1	2.00	0.829	
Toluene*	<0.050	0.050	02/01/2024	ND	2.03	102	2.00	1.75	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.01	100	2.00	1.86	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.06	101	6.00	2.15	
Total BTEX	<0.300	0.300	02/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/01/2024	ND	448	112	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	191	95.3	200	5.96	
DRO >C10-C28*	140	10.0	02/01/2024	ND	190	94.9	200	6.90	
EXT DRO >C28-C36	67.0	10.0	02/01/2024	ND					
Surrogate: 1-Chlorooctane	69.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.3	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/01/2024 Sampling Date: 01/31/2024

Reported: 02/06/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: JR OIL - LEA COUNTY, NM

ma/ka

Sample ID: T 4 - (1-2') (H240456-14)

RTFY 8021R

B1EX 8021B	mg/	^и кд	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	1.96	98.1	2.00	0.829	
Toluene*	<0.050	0.050	02/01/2024	ND	2.03	102	2.00	1.75	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.01	100	2.00	1.86	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.06	101	6.00	2.15	
Total BTEX	<0.300	0.300	02/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/01/2024	ND	448	112	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	191	95.3	200	5.96	
DRO >C10-C28*	48.1	10.0	02/01/2024	ND	190	94.9	200	6.90	
EXT DRO >C28-C36	27.8	10.0	02/01/2024	ND					
Surrogate: 1-Chlorooctane	67.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.5	% 49.1-14	0						

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Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/01/2024 Sampling Date: 01/31/2024

Reported: 02/06/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: JR OIL - LEA COUNTY, NM

ma/ka

Sample ID: T 4 - (2-3') (H240456-15)

RTFY 8021R

BIEX 8021B	mg,	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	1.96	98.1	2.00	0.829	
Toluene*	<0.050	0.050	02/01/2024	ND	2.03	102	2.00	1.75	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.01	100	2.00	1.86	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.06	101	6.00	2.15	
Total BTEX	<0.300	0.300	02/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/01/2024	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	191	95.3	200	5.96	
DRO >C10-C28*	361	10.0	02/01/2024	ND	190	94.9	200	6.90	
EXT DRO >C28-C36	234	10.0	02/01/2024	ND					
Surrogate: 1-Chlorooctane	51.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	57.8	% 49.1-14	8						

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Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/01/2024 Sampling Date: 01/31/2024

Reported: 02/06/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact Project Number: 212C-MD-03262 Sample Received By: Shalyn Rodriguez

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: T 4 - (3-4') (H240456-16)

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	02/01/2024	ND	1.96	98.1	2.00	0.829	
Toluene*	<0.050	0.050	02/01/2024	ND	2.03	102	2.00	1.75	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.01	100	2.00	1.86	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.06	101	6.00	2.15	
Total BTEX	<0.300	0.300	02/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/01/2024	ND	448	112	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	191	95.3	200	5.96	
DRO >C10-C28*	123	10.0	02/01/2024	ND	190	94.9	200	6.90	
EXT DRO >C28-C36	62.1	10.0	02/01/2024	ND					
Surrogate: 1-Chlorooctane	71.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/01/2024 Sampling Date: 01/31/2024

Reported: 02/06/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact Project Number: 212C-MD-03262 Sample Received By: Shalyn Rodriguez

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: T 5 - (0-1') (H240456-17)

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	02/01/2024	ND	1.96	98.1	2.00	0.829	
Toluene*	<0.050	0.050	02/01/2024	ND	2.03	102	2.00	1.75	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.01	100	2.00	1.86	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.06	101	6.00	2.15	
Total BTEX	<0.300	0.300	02/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/01/2024	ND	448	112	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	191	95.3	200	5.96	
DRO >C10-C28*	58.6	10.0	02/01/2024	ND	190	94.9	200	6.90	
EXT DRO >C28-C36	20.4	10.0	02/01/2024	ND					
Surrogate: 1-Chlorooctane	56.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	55.9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/01/2024 Sampling Date: 01/31/2024

Reported: 02/06/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact Project Number: Sample Received By: Shalyn Rodriguez 212C-MD-03262

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: T 5 - (1-2') (H240456-18)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	1.96	98.1	2.00	0.829	
Toluene*	<0.050	0.050	02/01/2024	ND	2.03	102	2.00	1.75	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.01	100	2.00	1.86	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.06	101	6.00	2.15	
Total BTEX	<0.300	0.300	02/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/01/2024	ND	448	112	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	191	95.3	200	5.96	
DRO >C10-C28*	91.7	10.0	02/01/2024	ND	190	94.9	200	6.90	
EXT DRO >C28-C36	39.8	10.0	02/01/2024	ND					
Surrogate: 1-Chlorooctane	64.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	67.5	% 49.1-14	8						

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Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/01/2024 Sampling Date: 01/31/2024

Reported: 02/06/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: JR OIL - LEA COUNTY, NM

ma/ka

Sample ID: T 5 - (2-3') (H240456-19)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	1.96	98.1	2.00	0.829	
Toluene*	<0.050	0.050	02/01/2024	ND	2.03	102	2.00	1.75	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.01	100	2.00	1.86	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.06	101	6.00	2.15	
Total BTEX	<0.300	0.300	02/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/01/2024	ND	448	112	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	191	95.3	200	5.96	
DRO >C10-C28*	51.3	10.0	02/01/2024	ND	190	94.9	200	6.90	
EXT DRO >C28-C36	26.4	10.0	02/01/2024	ND					
Surrogate: 1-Chlorooctane	68.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.0	% 49.1-14	8						

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Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/01/2024 Sampling Date: 01/31/2024

Reported: 02/06/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: JR OIL - LEA COUNTY, NM

mg/kg

Sample ID: T 5 - (3-4') (H240456-20)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	1.96	98.1	2.00	0.829	
Toluene*	<0.050	0.050	02/01/2024	ND	2.03	102	2.00	1.75	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.01	100	2.00	1.86	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.06	101	6.00	2.15	
Total BTEX	<0.300	0.300	02/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/01/2024	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	190	95.1	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/01/2024	ND	211	106	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	02/01/2024	ND					
Surrogate: 1-Chlorooctane	77.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.6	% 49.1-14	8						

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Celey D. Keine



Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

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

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Celeg D. Freene

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				4	7	T3- (1-2')	T3- (0-1')	T2- (3-4')	T2- (2-3')	T2- (1-2')	T2- (0-1')	T1- (3-4')	T1- (2-3')	T1- (1-2')	T1- (0-1')						ratory	'			
		Date:	A Date:	Ruder V	Date:												SAMPLE IDENTIFICATION)	Cardinal Labs	JR OHEN Tetu	Lea County, NM	Manda B Tract C Battery	JR OiL	Tetra Te
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		Late: Ime:	-	Date: Time: 1960))))))	3	3	3	3		SAMPLE IDENTIFICATION			Cardinal Labs	Tetra Tech inc.	Lea County, NM	Manda B Tract C Battery	JR OiL	Tetra Tech, Inc.
	Received by:	Received by:	Tille	del										1/31/24	DATE	YEAR: 2023 2024	SAMPLING		Sampler Signature.	Complex Circulation	Project #:		Site Manager:	5 5
	Date:	Pro-Indian	Je per	7 , 4	/ x	×	×	×	×	×	×	×	×	×	WATER SOIL HCL	₹	MATRIX		Jorge Ferr		212C-MD-0326	432-741-5813 Brittany.long@tetratech.com	Brittany Long	901 W Wall Street, Ste 1 Midland, Texas 79701 Tel (432) 682-4559 Fax (432) 682-3946
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March 13, 2024

BRITTANY LONG
TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MANDA B TRACT C BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/08/24 9:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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/ga/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.

Celey D. Keine

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

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Tamara Oldaker

A I J D. ... 711

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: BH - 1 (4.0') (H241178-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.08	104	2.00	0.254	
Toluene*	<0.050	0.050	03/12/2024	ND	2.08	104	2.00	0.0862	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.04	102	2.00	0.113	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.12	102	6.00	0.577	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	03/11/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	202	101	200	4.26	
DRO >C10-C28*	190	10.0	03/11/2024	ND	190	94.9	200	5.67	
EXT DRO >C28-C36	35.2	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	69.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: JR OIL - LEA COUNTY, NM

mg/kg

Sample ID: BH - 7 (4.0') (H241178-02)

BTEX 8021B

	9/	9	7.1.4.7.2	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	2.08	104	2.00	0.254	
Toluene*	<0.050	0.050	03/11/2024	ND	2.08	104	2.00	0.0862	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	2.04	102	2.00	0.113	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	6.12	102	6.00	0.577	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/11/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	202	101	200	4.26	
DRO >C10-C28*	<10.0	10.0	03/11/2024	ND	190	94.9	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	75.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.8	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: BH - 8 (4.0') (H241178-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	2.08	104	2.00	0.254	
Toluene*	<0.050	0.050	03/11/2024	ND	2.08	104	2.00	0.0862	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	2.04	102	2.00	0.113	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	6.12	102	6.00	0.577	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/11/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	202	101	200	4.26	
DRO >C10-C28*	226	10.0	03/11/2024	ND	190	94.9	200	5.67	
EXT DRO >C28-C36	152	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	92.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.3	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C-MD-03262 Sample Received By:

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: BH - 9 (4.0') (H241178-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	2.08	104	2.00	0.254	
Toluene*	<0.050	0.050	03/11/2024	ND	2.08	104	2.00	0.0862	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	2.04	102	2.00	0.113	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	6.12	102	6.00	0.577	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	03/11/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	202	101	200	4.26	
DRO >C10-C28*	669	10.0	03/11/2024	ND	190	94.9	200	5.67	
EXT DRO >C28-C36	162	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	88.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.4	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: BH - 10 (4.0') (H241178-05)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	2.08	104	2.00	0.254	
Toluene*	<0.050	0.050	03/11/2024	ND	2.08	104	2.00	0.0862	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	2.04	102	2.00	0.113	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	6.12	102	6.00	0.577	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	03/11/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	202	101	200	4.26	
DRO >C10-C28*	892	10.0	03/11/2024	ND	190	94.9	200	5.67	
EXT DRO >C28-C36	209	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	78.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.8	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: Sampling Type: Soil 03/13/2024

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact Project Number: 212C-MD-03262 Sample Received By: Tamara Oldaker

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: BH - 11 (4.0') (H241178-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	1.87	93.6	2.00	4.41	
Toluene*	<0.050	0.050	03/11/2024	ND	1.88	94.0	2.00	4.20	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	1.87	93.5	2.00	3.88	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	5.56	92.7	6.00	3.91	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/11/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	202	101	200	4.26	
DRO >C10-C28*	<10.0	10.0	03/11/2024	ND	190	94.9	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	77.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.1	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: BH - 12 (4.0') (H241178-07)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	1.87	93.6	2.00	4.41	
Toluene*	<0.050	0.050	03/11/2024	ND	1.88	94.0	2.00	4.20	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	1.87	93.5	2.00	3.88	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	5.56	92.7	6.00	3.91	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/11/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	202	101	200	4.26	
DRO >C10-C28*	<10.0	10.0	03/11/2024	ND	190	94.9	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	79.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.6	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Tamara Oldaker

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: BH - 13 (4.0') (H241178-08)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	1.87	93.6	2.00	4.41	
Toluene*	<0.050	0.050	03/11/2024	ND	1.88	94.0	2.00	4.20	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	1.87	93.5	2.00	3.88	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	5.56	92.7	6.00	3.91	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/11/2024	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	202	101	200	4.26	
DRO >C10-C28*	282	10.0	03/11/2024	ND	190	94.9	200	5.67	
EXT DRO >C28-C36	53.4	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	76.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.8	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: JR OIL - LEA COUNTY, NM

mg/kg

Sample ID: SW - 2 (H241178-09)

BTEX 8021B

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	1.87	93.6	2.00	4.41	
Toluene*	<0.050	0.050	03/11/2024	ND	1.88	94.0	2.00	4.20	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	1.87	93.5	2.00	3.88	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	5.56	92.7	6.00	3.91	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/11/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	202	101	200	4.26	
DRO >C10-C28*	<10.0	10.0	03/11/2024	ND	190	94.9	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	83.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.4	% 49.1-14	8						

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Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: Sampling Type: Soil 03/13/2024

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C-MD-03262 Sample Received By:

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: SW - 20 (H241178-10)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	1.87	93.6	2.00	4.41	
Toluene*	<0.050	0.050	03/11/2024	ND	1.88	94.0	2.00	4.20	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	1.87	93.5	2.00	3.88	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	5.56	92.7	6.00	3.91	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/11/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	202	101	200	4.26	
DRO >C10-C28*	<10.0	10.0	03/11/2024	ND	190	94.9	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	80.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.8	% 49.1-14	8						

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Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: JR OIL - LEA COUNTY, NM

mg/kg

Sample ID: SW - 14 (H241178-11)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	1.87	93.6	2.00	4.41	
Toluene*	<0.050	0.050	03/11/2024	ND	1.88	94.0	2.00	4.20	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	1.87	93.5	2.00	3.88	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	5.56	92.7	6.00	3.91	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/11/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	202	101	200	4.26	
DRO >C10-C28*	<10.0	10.0	03/11/2024	ND	190	94.9	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	83.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: Sampling Type: Soil 03/13/2024

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact Project Number: 212C-MD-03262 Sample Received By: Tamara Oldaker

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: SW - 15 (H241178-12)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	1.87	93.6	2.00	4.41	
Toluene*	<0.050	0.050	03/11/2024	ND	1.88	94.0	2.00	4.20	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	1.87	93.5	2.00	3.88	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	5.56	92.7	6.00	3.91	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/11/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	202	101	200	4.26	
DRO >C10-C28*	<10.0	10.0	03/11/2024	ND	190	94.9	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	80.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.7	% 49.1-14	8						

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Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: JR OIL - LEA COUNTY, NM

ma/ka

Sample ID: SW - 16 (H241178-13)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	1.87	93.6	2.00	4.41	
Toluene*	<0.050	0.050	03/11/2024	ND	1.88	94.0	2.00	4.20	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	1.87	93.5	2.00	3.88	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	5.56	92.7	6.00	3.91	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/11/2024	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	202	101	200	4.26	
DRO >C10-C28*	1140	10.0	03/11/2024	ND	190	94.9	200	5.67	
EXT DRO >C28-C36	269	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	78.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.0	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: Sampling Type: Soil 03/13/2024

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C-MD-03262 Sample Received By:

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: SW - 17 (H241178-14)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	1.87	93.6	2.00	4.41	
Toluene*	<0.050	0.050	03/11/2024	ND	1.88	94.0	2.00	4.20	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	1.87	93.5	2.00	3.88	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	5.56	92.7	6.00	3.91	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/11/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	202	101	200	4.26	
DRO >C10-C28*	1390	10.0	03/11/2024	ND	190	94.9	200	5.67	
EXT DRO >C28-C36	336	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	85.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.1	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: Sampling Type: Soil 03/13/2024

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C-MD-03262 Sample Received By:

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: SW - 18 (H241178-15)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	1.87	93.6	2.00	4.41	
Toluene*	<0.050	0.050	03/11/2024	ND	1.88	94.0	2.00	4.20	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	1.87	93.5	2.00	3.88	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	5.56	92.7	6.00	3.91	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/11/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	202	101	200	4.26	
DRO >C10-C28*	1130	10.0	03/11/2024	ND	190	94.9	200	5.67	
EXT DRO >C28-C36	276	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	79.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.8	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Tamara Oldaker

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: BH - 2 (4.0') (H241178-16)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	1.87	93.6	2.00	4.41	
Toluene*	<0.050	0.050	03/11/2024	ND	1.88	94.0	2.00	4.20	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	1.87	93.5	2.00	3.88	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	5.56	92.7	6.00	3.91	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	14						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	03/11/2024	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	202	101	200	4.26	
DRO >C10-C28*	901	10.0	03/11/2024	ND	190	94.9	200	5.67	
EXT DRO >C28-C36	199	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	80.3	% 48.2-13	14						
Surrogate: 1-Chlorooctadecane	81.8	% 49.1-14	18						

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Celey D. Keine

Cardinal Laboratories



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 212C-MD-03262

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: BH - 3 (4.0') (H241178-17)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	1.87	93.6	2.00	4.41	
Toluene*	<0.050	0.050	03/11/2024	ND	1.88	94.0	2.00	4.20	
Ethylbenzene*	< 0.050	0.050	03/11/2024	ND	1.87	93.5	2.00	3.88	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	5.56	92.7	6.00	3.91	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	03/11/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	202	101	200	4.26	
DRO >C10-C28*	761	10.0	03/11/2024	ND	190	94.9	200	5.67	
EXT DRO >C28-C36	167	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	71.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.4	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 212C-MD-03262

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: BH - 4 (4.0') (H241178-18)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	1.87	93.6	2.00	4.41	
Toluene*	<0.050	0.050	03/11/2024	ND	1.88	94.0	2.00	4.20	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	1.87	93.5	2.00	3.88	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	5.56	92.7	6.00	3.91	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1790	16.0	03/11/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	202	101	200	4.26	
DRO >C10-C28*	906	10.0	03/11/2024	ND	190	94.9	200	5.67	
EXT DRO >C28-C36	198	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	78.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.0	% 49.1-14	8						

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Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 212C-MD-03262

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: BH - 5 (4.0') (H241178-19)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	1.87	93.6	2.00	4.41	
Toluene*	<0.050	0.050	03/11/2024	ND	1.88	94.0	2.00	4.20	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	1.87	93.5	2.00	3.88	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	5.56	92.7	6.00	3.91	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/11/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	202	101	200	4.26	
DRO >C10-C28*	143	10.0	03/11/2024	ND	190	94.9	200	5.67	
EXT DRO >C28-C36	90.5	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	75.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.2	% 49.1-14	8						

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Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 212C-MD-03262

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: BH - 6 (4.0') (H241178-20)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	1.87	93.6	2.00	4.41	
Toluene*	<0.050	0.050	03/11/2024	ND	1.88	94.0	2.00	4.20	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	1.87	93.5	2.00	3.88	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	5.56	92.7	6.00	3.91	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/11/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	206	103	200	2.09	
DRO >C10-C28*	164	10.0	03/11/2024	ND	208	104	200	0.307	QM-07
EXT DRO >C28-C36	92.1	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	88.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.7	% 49.1-14	8						

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Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: Sampling Type: Soil 03/13/2024

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C-MD-03262 Sample Received By:

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: SW - 4 (H241178-21)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	1.87	93.6	2.00	4.41	
Toluene*	<0.050	0.050	03/11/2024	ND	1.88	94.0	2.00	4.20	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	1.87	93.5	2.00	3.88	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	5.56	92.7	6.00	3.91	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/11/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	206	103	200	2.09	
DRO >C10-C28*	2270	10.0	03/11/2024	ND	208	104	200	0.307	
EXT DRO >C28-C36	484	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	82.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.0	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: Sampling Type: Soil 03/13/2024

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C-MD-03262 Sample Received By:

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: SW - 5 (H241178-22)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	1.87	93.6	2.00	4.41	
Toluene*	<0.050	0.050	03/11/2024	ND	1.88	94.0	2.00	4.20	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	1.87	93.5	2.00	3.88	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	5.56	92.7	6.00	3.91	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/11/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	206	103	200	2.09	
DRO >C10-C28*	3060	10.0	03/11/2024	ND	208	104	200	0.307	
EXT DRO >C28-C36	731	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	90.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.5	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: Sampling Type: Soil 03/13/2024

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C-MD-03262 Sample Received By:

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: SW - 6 (H241178-23)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	1.87	93.6	2.00	4.41	
Toluene*	<0.050	0.050	03/11/2024	ND	1.88	94.0	2.00	4.20	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	1.87	93.5	2.00	3.88	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	5.56	92.7	6.00	3.91	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/11/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	206	103	200	2.09	
DRO >C10-C28*	270	10.0	03/11/2024	ND	208	104	200	0.307	
EXT DRO >C28-C36	75.6	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	84.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.1	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: Sampling Type: Soil 03/13/2024

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C-MD-03262 Sample Received By:

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: SW - 7 (H241178-24)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	1.87	93.6	2.00	4.41	
Toluene*	<0.050	0.050	03/11/2024	ND	1.88	94.0	2.00	4.20	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	1.87	93.5	2.00	3.88	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	5.56	92.7	6.00	3.91	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/11/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	206	103	200	2.09	
DRO >C10-C28*	93.6	10.0	03/11/2024	ND	208	104	200	0.307	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	80.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.3	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: Sampling Type: Soil 03/13/2024

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C-MD-03262 Sample Received By:

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: SW - 8 (H241178-25)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	1.87	93.6	2.00	4.41	
Toluene*	<0.050	0.050	03/11/2024	ND	1.88	94.0	2.00	4.20	
Ethylbenzene*	< 0.050	0.050	03/11/2024	ND	1.87	93.5	2.00	3.88	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	5.56	92.7	6.00	3.91	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/11/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	206	103	200	2.09	
DRO >C10-C28*	66.7	10.0	03/11/2024	ND	208	104	200	0.307	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	81.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: Sampling Type: Soil 03/13/2024

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C-MD-03262 Sample Received By:

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: SW - 9 (H241178-26)

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	03/11/2024	ND	2.28	114	2.00	0.351	
Toluene*	<0.050	0.050	03/11/2024	ND	2.27	113	2.00	4.26	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	2.33	117	2.00	6.82	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	6.98	116	6.00	7.22	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/11/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	206	103	200	2.09	
DRO >C10-C28*	23.8	10.0	03/11/2024	ND	208	104	200	0.307	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	86.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.4	% 49.1-14	8						

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Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: JR OIL - LEA COUNTY, NM

ma/ka

Sample ID: SW - 10 (H241178-27)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	2.28	114	2.00	0.351	
Toluene*	<0.050	0.050	03/11/2024	ND	2.27	113	2.00	4.26	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	2.33	117	2.00	6.82	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	6.98	116	6.00	7.22	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/11/2024	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	206	103	200	2.09	
DRO >C10-C28*	68.7	10.0	03/11/2024	ND	208	104	200	0.307	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	82.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.6	% 49.1-14	8						

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Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: JR OIL - LEA COUNTY, NM

mg/kg

Sample ID: SW - 11 (H241178-28)

BTEX 8021B

	9/	9	7.1.4.7.2	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	2.28	114	2.00	0.351	
Toluene*	<0.050	0.050	03/11/2024	ND	2.27	113	2.00	4.26	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	2.33	117	2.00	6.82	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	6.98	116	6.00	7.22	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/11/2024	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	206	103	200	2.09	
DRO >C10-C28*	<10.0	10.0	03/11/2024	ND	208	104	200	0.307	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	87.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.8	% 49.1-14	8						

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Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: JR OIL - LEA COUNTY, NM

mg/kg

Sample ID: SW - 12 (H241178-29)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	2.28	114	2.00	0.351	
Toluene*	<0.050	0.050	03/11/2024	ND	2.27	113	2.00	4.26	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	2.33	117	2.00	6.82	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	6.98	116	6.00	7.22	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 % 71.5-13		4						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/11/2024	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	206	103	200	2.09	
DRO >C10-C28*	<10.0	10.0	03/11/2024	ND	208	104	200	0.307	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	85.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.8	% 49.1-14	8						

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Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: Sampling Type: Soil 03/13/2024

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact Project Number: 212C-MD-03262 Sample Received By: Tamara Oldaker

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: SW - 13 (H241178-30)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	2.28	114	2.00	0.351	
Toluene*	<0.050	0.050	03/11/2024	ND	2.27	113	2.00	4.26	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	2.33	117	2.00	6.82	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	6.98	116	6.00	7.22	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/11/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	206	103	200	2.09	
DRO >C10-C28*	29.0	10.0	03/11/2024	ND	208	104	200	0.307	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	83.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: Sampling Type: Soil 03/13/2024

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C-MD-03262 Tamara Oldaker

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: SW - 1 (H241178-31)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	2.28	114	2.00	0.351	
Toluene*	<0.050	0.050	03/11/2024	ND	2.27	113	2.00	4.26	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	2.33	117	2.00	6.82	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	6.98	116	6.00	7.22	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/11/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	206	103	200	2.09	
DRO >C10-C28*	<10.0	10.0	03/11/2024	ND	208	104	200	0.307	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	80.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.5	% 49.1-14	8						

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Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: JR OIL - LEA COUNTY, NM

mg/kg

Sample ID: SW - 3 (H241178-32)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	2.28	114	2.00	0.351	
Toluene*	<0.050	0.050	03/11/2024	ND	2.27	113	2.00	4.26	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	2.33	117	2.00	6.82	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	6.98	116	6.00	7.22	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/11/2024	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	206	103	200	2.09	
DRO >C10-C28*	<10.0	10.0	03/11/2024	ND	208	104	200	0.307	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	73.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	69.9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/08/2024 Sampling Date: 03/06/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: JR OIL - LEA COUNTY, NM

mg/kg

Sample ID: SW - 19 (H241178-33)

BTEX 8021B

	9/	9	7.1.4.7.2	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	2.28	114	2.00	0.351	
Toluene*	<0.050	0.050	03/11/2024	ND	2.27	113	2.00	4.26	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	2.33	117	2.00	6.82	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	6.98	116	6.00	7.22	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/11/2024	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	206	103	200	2.09	
DRO >C10-C28*	<10.0	10.0	03/11/2024	ND	208	104	200	0.307	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	84.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.5	% 49.1-14	8						

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Celey & Keene



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

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

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Celey D. Keene

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April 05, 2024

BRITTANY LONG
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: MANDA B TRACT C BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/01/24 8:59.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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/ga/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.

Celey D. Keine

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

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 04/01/2024 Sampling Date: 03/29/2024

Reported: 04/05/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Tamara Oldaker

A I J D. ... 711

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: SW - 4 (H241657-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2024	ND	2.02	101	2.00	8.02	
Toluene*	<0.050	0.050	04/03/2024	ND	2.12	106	2.00	6.89	
Ethylbenzene*	<0.050	0.050	04/03/2024	ND	2.17	109	2.00	9.23	
Total Xylenes*	<0.150	0.150	04/03/2024	ND	6.80	113	6.00	12.3	
Total BTEX	<0.300	0.300	04/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	04/03/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2024	ND	198	99.2	200	2.87	
DRO >C10-C28*	34.8	10.0	04/02/2024	ND	186	93.2	200	3.70	
EXT DRO >C28-C36	<10.0	10.0	04/02/2024	ND					
Surrogate: 1-Chlorooctane	83.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.4	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 04/01/2024 Sampling Date: 03/29/2024

Reported: 04/05/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: JR OIL - LEA COUNTY, NM

ma/ka

Sample ID: SW - 5 (H241657-02)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2024	ND	2.02	101	2.00	8.02	
Toluene*	<0.050	0.050	04/03/2024	ND	2.12	106	2.00	6.89	
Ethylbenzene*	<0.050	0.050	04/03/2024	ND	2.17	109	2.00	9.23	
Total Xylenes*	<0.150	0.150	04/03/2024	ND	6.80	113	6.00	12.3	
Total BTEX	<0.300	0.300	04/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/03/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2024	ND	198	99.2	200	2.87	
DRO >C10-C28*	36.9	10.0	04/02/2024	ND	186	93.2	200	3.70	
EXT DRO >C28-C36	11.7	10.0	04/02/2024	ND					
Surrogate: 1-Chlorooctane	93.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 04/01/2024 Sampling Date: 03/29/2024

Reported: 04/05/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: JR OIL - LEA COUNTY, NM

ma/ka

Sample ID: SW - 6 (H241657-03)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2024	ND	2.02	101	2.00	8.02	
Toluene*	<0.050	0.050	04/03/2024	ND	2.12	106	2.00	6.89	
Ethylbenzene*	<0.050	0.050	04/03/2024	ND	2.17	109	2.00	9.23	
Total Xylenes*	<0.150	0.150	04/03/2024	ND	6.80	113	6.00	12.3	
Total BTEX	<0.300	0.300	04/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/03/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2024	ND	198	99.2	200	2.87	
DRO >C10-C28*	17.2	10.0	04/03/2024	ND	186	93.2	200	3.70	
EXT DRO >C28-C36	<10.0	10.0	04/03/2024	ND					
Surrogate: 1-Chlorooctane	91.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Celey & Keene



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 04/01/2024 Sampling Date: 03/29/2024

Reported: 04/05/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: JR OIL - LEA COUNTY, NM

ma/ka

Sample ID: SW - 16 (H241657-04)

RTFY 8021R

B1EX 8021B	mg,	кg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2024	ND	2.02	101	2.00	8.02	
Toluene*	<0.050	0.050	04/03/2024	ND	2.12	106	2.00	6.89	
Ethylbenzene*	<0.050	0.050	04/03/2024	ND	2.17	109	2.00	9.23	
Total Xylenes*	<0.150	0.150	04/03/2024	ND	6.80	113	6.00	12.3	
Total BTEX	<0.300	0.300	04/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/03/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2024	ND	195	97.7	200	2.11	
DRO >C10-C28*	<10.0	10.0	04/03/2024	ND	191	95.7	200	3.80	
EXT DRO >C28-C36	<10.0	10.0	04/03/2024	ND					
Surrogate: 1-Chlorooctane	89.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.7	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 04/01/2024 Sampling Date: 03/29/2024

Reported: 04/05/2024 Sampling Type: Soil

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03262 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: JR OIL - LEA COUNTY, NM

ma/ka

Sample ID: SW - 17 (H241657-05)

RTFY 8021R

Result	Reporting Limit	Analyzed	Method Blank	DC				
< 0.050		•	riculou blank	BS	% Recovery	True Value QC	RPD	Qualifier
	0.050	04/03/2024	ND	2.02	101	2.00	8.02	
<0.050	0.050	04/03/2024	ND	2.12	106	2.00	6.89	
<0.050	0.050	04/03/2024	ND	2.17	109	2.00	9.23	
<0.150	0.150	04/03/2024	ND	6.80	113	6.00	12.3	
<0.300	0.300	04/03/2024	ND					
112 %	6 71.5-13	4						
mg/	kg	Analyze	d By: HM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<16.0	16.0	04/03/2024	ND	432	108	400	0.00	
mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	04/03/2024	ND	195	97.7	200	2.11	
<10.0	10.0	04/03/2024	ND	191	95.7	200	3.80	
<10.0	10.0	04/03/2024	ND					
97.3 9	26 48.2-13	4						
< <	mg/ Result 410.0 410.0 410.0 410.0 410.0	Result Reporting Limit 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 97.3 % 48.2-13-	Result Reporting Limit Analyzed (10.0 10.0 04/03/2024 (10.0 10.0 0	Result Reporting Limit Analyzed Method Blank 4:10.0 10.0 04/03/2024 ND 4:10.0 10.0 04/03/2024 ND 4:10.0 10.0 04/03/2024 ND 4:10.0 10.0 04/03/2024 ND 4:10.0 10.0 04/03/2024 ND	(216.0 16.0 04/03/2024 ND 432 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS \$10.0 10.0 04/03/2024 ND 195 \$10.0 10.0 04/03/2024 ND 191 \$10.0 10.0 04/03/2024 ND 191 \$97.3 % 48.2-134	Result Reporting Limit Analyzed Method Blank BS % Recovery 10.0 10.0 04/03/2024 ND 195 97.7 10.0 10.0 04/03/2024 ND 191 95.7 10.0 10.0 04/03/2024 ND 191 95.7 10.0 10.0 04/03/2024 ND 191 95.7 10.0 10.0 04/03/2024 ND	4:16.0 16.0 04/03/2024 ND 432 108 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed By: MS 4:10.0 10.0 04/03/2024 ND 195 97.7 200 4:10.0 10.0 04/03/2024 ND 191 95.7 200 4:10.0 10.0 04/03/2024 ND ND 191 95.7 200 40.2-134 48.2-134 48.2-134 10.0	Result Reporting Limit Analyzed By: MS Result Reporting Limit Analyzed ND 195 97.7 200 2.11 210.0 10.0 04/03/2024 ND 191 95.7 200 3.80 210.0 10.0 04/03/2024 ND 191 95.7 200 3.80 210.0 10.0 04/03/2024 ND

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Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 04/01/2024 Sampling Date: 03/29/2024

Reported: Sampling Type: Soil 04/05/2024

Project Name: MANDA B TRACT C BATTERY Sampling Condition: Cool & Intact Project Number: Sample Received By: 212C-MD-03262 Tamara Oldaker

Project Location: JR OIL - LEA COUNTY, NM

Sample ID: SW - 18 (H241657-06)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2024	ND	2.02	101	2.00	8.02	
Toluene*	<0.050	0.050	04/03/2024	ND	2.12	106	2.00	6.89	
Ethylbenzene*	<0.050	0.050	04/03/2024	ND	2.17	109	2.00	9.23	
Total Xylenes*	<0.150	0.150	04/03/2024	ND	6.80	113	6.00	12.3	
Total BTEX	<0.300	0.300	04/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/03/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2024	ND	195	97.7	200	2.11	
DRO >C10-C28*	<10.0	10.0	04/03/2024	ND	191	95.7	200	3.80	
EXT DRO >C28-C36	<10.0	10.0	04/03/2024	ND					
Surrogate: 1-Chlorooctane	96.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Notes and Definitions

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or S-06 matrix interference's. QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values. QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. 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

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Appendix E

Soil Survey Data



MAP LEGEND

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Water Features

Transportation

Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

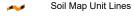
Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Saline Spot
Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 20, Sep 6, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 18, 2020—Feb 17, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BE	Berino-Cacique loamy fine sands association	1.4	100.0%
Totals for Area of Interest		1.4	100.0%

Lea County, New Mexico

BE—Berino-Cacique loamy fine sands association

Map Unit Setting

National map unit symbol: dmpd Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 13 inches
Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 50 percent Cacique and similar soils: 40 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Berino

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock over calcareous sandy alluvium derived from sedimentary

rock

Typical profile

A - 0 to 6 inches: loamy fine sand Btk - 6 to 60 inches: sandy clay loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Moderate (about 8.7

inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Description of Cacique

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Calcareous eolian deposits derived from

sedimentary rock

Typical profile

A - 0 to 12 inches: loamy fine sand

Bt - 12 to 28 inches: sandy clay loam

Bkm - 28 to 38 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 20 to 40 inches to petrocalcic

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low

to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 3.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: C

Ecological site: R070BD004NM - Sandy

Hydric soil rating: No

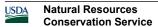
Minor Components

Maljamar

Percent of map unit: 6 percent

Ecological site: R077CY028TX - Limy Upland 16-21" PZ

Hydric soil rating: No



Palomas

Percent of map unit: 4 percent Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 20, Sep 6, 2023 Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 432372

QUESTIONS

Operator:	OGRID:
J R OIL, LTD. CO.	256073
P.O. Box 53657	Action Number:
Lubbock, TX 79453	432372
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites						
Incident ID (n#)	nOY1712541751					
Incident Name	NOY1712541751 MANDA B TRACT C BATTERY @ 30-025-25438					
Incident Type	Oil Release					
Incident Status	Remediation Closure Report Received					
Incident Well	[30-025-25438] MANDA #001					

Location of Release Source						
Please answer all the questions in this group.						
Site Name	Manda B Tract C Battery					
Date Release Discovered	04/26/2017					
Surface Owner	Private					

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Pipeline (Any) Crude Oil Released: 4 BBL Recovered: 0 BBL Lost: 4 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pipeline (Any) Produced Water Released: 10 BBL Recovered: 5 BBL Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 432372

QUESTIONS (conf	inue

Operator.	OGNID.
J R OIL, LTD. CO.	256073
P.O. Box 53657 Lubbock, TX 79453	Action Number: 432372
Eubbock, 17 / 9433	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Brittany Long Title: Consultant Email: brittany.long@tetratech.com

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116

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

QUESTIONS, Page 3

Action 432372

QUESTIONS (continued)

Operator:	OGRID:
J R OIL, LTD. CO.	256073
P.O. Box 53657	Action Number:
Lubbock, TX 79453	432372
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided	Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamina	ation associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	621	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	13593	
GRO+DRO (EPA SW-846 Method 8015M)	12100	
BTEX (EPA SW-846 Method 8021B or 8260B)	0.1	
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence	01/31/2024	
On what date will (or did) the final sampling or liner inspection occur	01/31/2024	
On what date will (or was) the remediation complete(d)	03/29/2024	
What is the estimated surface area (in square feet) that will be reclaimed	4800	
What is the estimated volume (in cubic yards) that will be reclaimed	631	
What is the estimated surface area (in square feet) that will be remediated	4800	
What is the estimated volume (in cubic yards) that will be remediated 631		
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 432372

QUESTIONS (continued)

Operator:	OGRID:
J R OIL, LTD. CO.	256073
P.O. Box 53657	Action Number:
Lubbock, TX 79453	432372
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	J&L LANDFARM [fEEM0112339187]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Title: Consultant
Email: brittany.long@tetratech.com
Date: 02/14/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 432372

QUESTIONS (continued)

Operator:	OGRID:
J R OIL, LTD. CO.	256073
P.O. Box 53657	Action Number:
Lubbock, TX 79453	432372
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 432372

QUESTIONS (continued)

Operator:	OGRID:
J R OIL, LTD. CO.	256073
P.O. Box 53657	Action Number:
Lubbock, TX 79453	432372
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	327202
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/29/2024
What was the (estimated) number of samples that were to be gathered	8
What was the sampling surface area in square feet	1600

Remediation Closure Request			
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.			
Requesting a remediation closure approval with this submission	Yes		
Have the lateral and vertical extents of contamination been fully delineated	Yes		
Was this release entirely contained within a lined containment area	No		
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes		
What was the total surface area (in square feet) remediated	4800		
What was the total volume (cubic yards) remediated	631		
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes		
What was the total surface area (in square feet) reclaimed	4800		
What was the total volume (in cubic yards) reclaimed	631		
Summarize any additional remediation activities not included by answers (above)	No additional comments		

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

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

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Email: brittany.long@tetratech.com

Date: 02/14/2025

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General Information Phone: (505) 629-6116

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

QUESTIONS, Page 7

Action 432372

QUESTIONS (continued)

Operator:	OGRID:
J R OIL, LTD. CO.	256073
P.O. Box 53657	Action Number:
Lubbock, TX 79453	432372
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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

CONDITIONS

Action 432372

CONDITIONS

Operator:	OGRID:
J R OIL, LTD. CO.	256073
P.O. Box 53657	Action Number:
Lubbock, TX 79453	432372
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	3/7/2025
amaxwell	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	3/7/2025
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	3/7/2025
amaxwell	Since a second release occurred where the historical release had a liner in place, this area is now subject to 19.15.29.13 NMAC and will need to be addressed during reclamation activities.	3/7/2025