

February 23, 2022

Bradford Billings Hydrologist/E.Spec.A District 2 Artesia 1220 South St. Francis Drive Oil Conservation Division Santa Fe, NM 87505

Re: Release Characterization and Remediation Work Plan ConocoPhillips Heritage Concho Osudo State Com #001 Unit Letter J, Section 18, Township 20 South, Range 36 East Lea County, New Mexico Incident ID# nCH1819250370 1RP-5119

Mr. Billings:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to assess a Heritage Concho release and subsequent remedial actions taken at the Osudo State Com #001 (API No. 30-025-25143). The release footprint is located in Public Land Survey System (PLSS) Unit Letter J, Section 18, Township 20 South, Range 36 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.570761°, -103.390427°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico Oil Conservation District (NMOCD) C-141 Initial Report, the release was discovered on July 8, 2018. The C-141 reports that the release was caused by a hole in a tank associated with oil and gas operations at the release site. Approximately 25 barrels (bbls) of crude oil were reported released, of which approximately 3 bbls of oil were recovered. The release stayed within the bermed containment, with no release to pasture. The New Mexico Oil Conservation District (NMOCD) approved the initial C-141 on July 9, 2018 and subsequently assigned the release the Incident ID NCH1819250370 and Remediation Permit 1RP-5119. The initial C-141 form is included in Appendix A.

SITE CHARACTERIZATION

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

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there is one (1) water well within approximately 0.50 miles (800 meters) of the Site with a depth to groundwater of 34 feet below ground surface (bgs). The site characterization data are presented in Appendix B.

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REGULATORY FRAMEWORK

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

Based on the site characterization, established depth to groundwater, and in accordance with Table I of 19.15.29.12 NMAC, the RRALs for the Site are as follows:

Constituent	RRAL/Reclamation Requirements
Chloride	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg

SITE ASSESSMENT ACTIVITIES

Following the release, Concho removed the leaking tank from the area and moved the containment immediately east of its former location in order to access the release area for assessment activities. The approximate release extent and former tank location are presented in Figure 3. Figure 4 presents the current conditions at the site. The tank and firewall were relocated just east of the approximate release extent.

Tetra Tech was onsite on January 18, 2022 to conduct additional assessment activities at the Site on behalf of ConocoPhillips. A total of eight (8) borings (BH-1 through BH-8) were installed using an air rotary drill rig to depths ranging from 10 to 50 feet bgs to delineate the release extent and assess soils both vertically and horizontally for environmental impacts from this release.

BH-1 was drilled to a depth of 50 feet bgs within the release extent. The boring log for BH-1 is presented in Appendix C. Vertical delineation was achieved at BH-1. During drilling, a trace of moisture was noted in the samples collected from the 44-45 foot interval, however, the soil sample collected at the 49-50 foot interval was dry. The field screening data collected from the 49-50 foot interval indicated that neither chloride nor TPH would exceed the proposed RRALs for the site. Tetra Tech terminated the boring to avoid encountering groundwater. The borehole was plugged with 3/8-inch chip bentonite. Boring locations are presented in Figure 4.

A total of fifty-two (52) samples were collected from the eight (8) borings and submitted to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for chloride via method SM4500CI-B, TPH via EPA Method 8015M and BTEX via EPA Method 8261B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix D.

SUMMARY OF SAMPLING RESULTS

Results from the January 2022 soil sampling events are summarized in Table 1. Analytical results associated with borings BH-1 (39-40 feet bgs and 44-45 feet bgs), BH-2 (6-7 feet bgs, 9-10 feet bgs, and 14-15 feet bgs), BH-6 (34-35 feet bgs), and BH-8 (14-15 feet bgs) exceeded the Site RRAL for chloride (600 mg/kg). Additionally, analytical results associated with boring locations BH-1, BH-2, BH-3, BH-4, and BH-6 exceeded the Site RRAL for TPH (100 mg/kg) at various depth intervals ranging from surface soils at BH-1 and BH-2 to 45 feet bgs at BH-1. There were no analytical results that exceeded the Site RRAL for BTEX (50 mg/kg) or benzene (10 mg/kg).

Vertical delineation for chloride and TPH impacts was achieved in the 49-50 feet bgs sample collected from BH-1. Horizontal delineation was achieved in surface soils at boring locations BH-4 through BH-8, although

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analytical samples associated with deeper soils had chloride and TPH concentrations that exceeded the Site RRALs at boring locations BH-4, BH-6, and BH-8.

REMEDIATION WORK PLAN

Based on the analytical results from the assessment, ConocoPhillips proposes to remove the impacted source material within the release extent as shown in Figure 5. Impacted soils will be excavated using heavy equipment (backhoes, hoe rams, and track hoes) to a maximum depth of 4 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation is below the reclamation requirements or the Site RRALs. Heavy equipment will come no more than 3 feet from any pressurized lines. Impacted soils within the vicinity of the surface and subsurface lines which intersect the release footprint will be dug by hand to the maximum extent practicable.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation bottom and sidewall samples will be collected for verification of remedial activities, and analyzed for TPH, BTEX, and chlorides. Once analytical results are received, NMOCD will be notified, and the excavation will then be backfilled with clean material to surface grade. The estimated volume of material to be remediated is approximately 140 cubic yards.

Given the NMOSE groundwater data, the release assessment results, and the presence of moist soils encountered in boring BH-1, ConocoPhillips and Tetra Tech reasonably anticipate groundwater impacts at the release Site. Following the excavation of the contaminated source material, ConocoPhillips proposes to submit a permit request to NMOSE to install a temporary groundwater well at the Site to investigate potential groundwater impacts. If groundwater contamination is confirmed with laboratory analytical data, a separate abatement plan will be prepared and submitted to NMOCD in accordance with 19.15.30 NMAC. As there is a reasonable assumption that the depth to protectable water is 50 feet or less, ConocoPhillips anticipates the need for at least one groundwater monitoring well to be installed in the former tank footprint (area of likely maximum contamination). Groundwater samples, if any, will be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, and major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese.

VARIANCE REQUEST

In accordance with 19.15.29.14(A) NMAC, ConocoPhillips requests a variance for the remediation of the historical release area should excavation floor concentrations below 4 feet bgs exceed 600 mg/kg for chlorides or 100 mg/kg for TPH. The historical release extent was delineated horizontally and vertically, as detailed above. A 20-mil reinforced polyethylene liner will be installed and properly seated at a depth of 4 feet within the excavated areas associated with the historical impacts. The liner will provide an engineered barrier that will inhibit the downward migration of residual constituents to groundwater. If impacted groundwater is discovered as a result of the proposed groundwater assessment activities, any need for further soil remediation will be evaluated at that time.

ALTERNATIVE CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, ConocoPhillips proposes the following alternative confirmation sampling plan to adhere with NMOCD requirements. The proposed confirmation sample locations are depicted in Figure 6. Three (3) confirmation floor samples and ten (10) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 1,000 square feet.

These confirmation sidewall and floor samples will be representative of no more than approximately 500 square feet of excavated area. Confirmation samples will be sent to an accredited laboratory for analysis of TPH (Method 8015 modified), BTEX (Method 8260B), and chloride (Method 300.0 or Method SM4500Cl-B). Once results are received, NMOCD will be notified, and the excavation will then be backfilled with clean material to surface grade.

ConocoPhillips

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SITE RECLAMATION AND RESTORATION PLAN

Post-remediation, the backfilled areas in pasture will be seeded (in the next first favorable growing season) to aid in revegetation. Based on the soils at the site, the New Mexico State Land Office (NMSLO) Deep Sand (DS) Sites Seed Mixture will be used for seeding and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. The NMSLO seed mixture details and corresponding pounds pure live seed per acre are included in Appendix E. Final reclamation will create a landform that approximates and blends in with the surrounding landform, while controlling erosion.

CONCLUSION

ConocoPhillips proposes to begin remediation activities at the Site within 120 days of NMOCD plan approval. Upon completion of the proposed work, a final closure report detailing the remediation activities and the results of the confirmation sampling will be submitted to NMOCD. If you have any questions concerning the soil assessment or the proposed remediation activities for the Site, please call me at (512) 739-7874 or Christian at (512) 338-2861.

Sincerely, Tetra Tech, Inc.

Samantha K. Abbott, P.G. Project Manager

cc: Mr. Ike Tavarez, RMR – ConocoPhillips Mr. Ryan Mann – NMSLO

Christian M, Llull, P.G. Program Manager

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ConocoPhillips

LIST OF ATTACHMENTS

Figures:

- Figure 1 Overview Map
- Figure 2 Topographic Map
- Figure 3 Approximate Release Extent and Site Features
- Figure 4 Site Assessment Map
- Figure 5 Proposed Remediation Extent Map
- Figure 6 Alternative Confirmation Sampling Plan Map

Tables:

Table 1 – Summary of Analytical Results – Soil Assessment

Appendices:

Appendix A – C-141 Forms

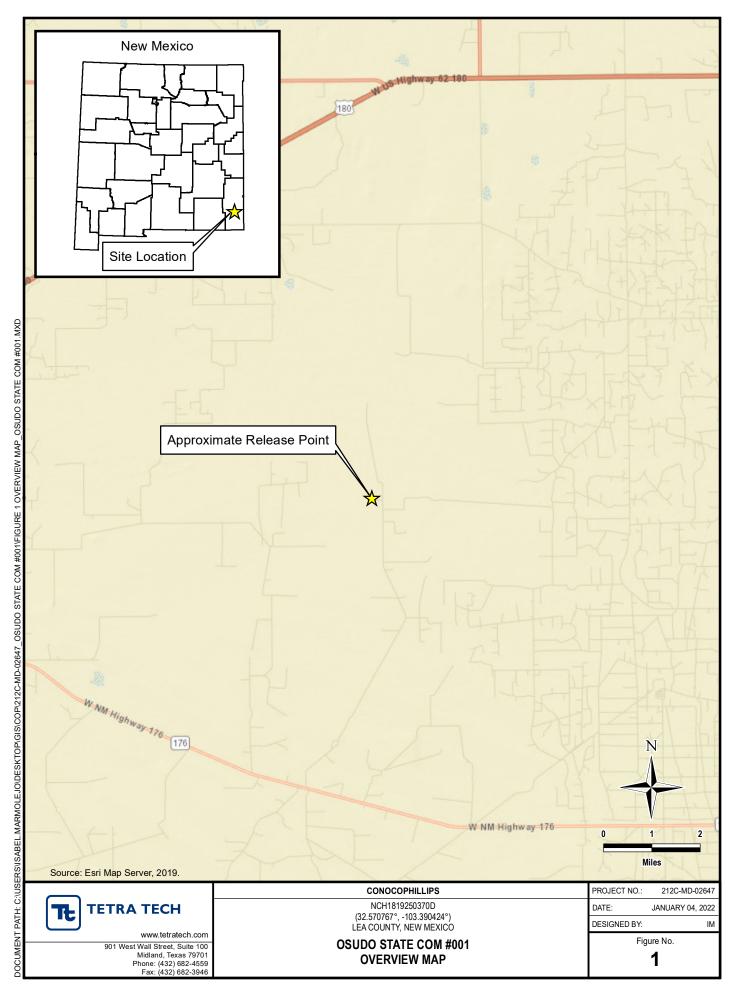
Appendix B – Site Characterization Data

Appendix C – Soil Boring Logs

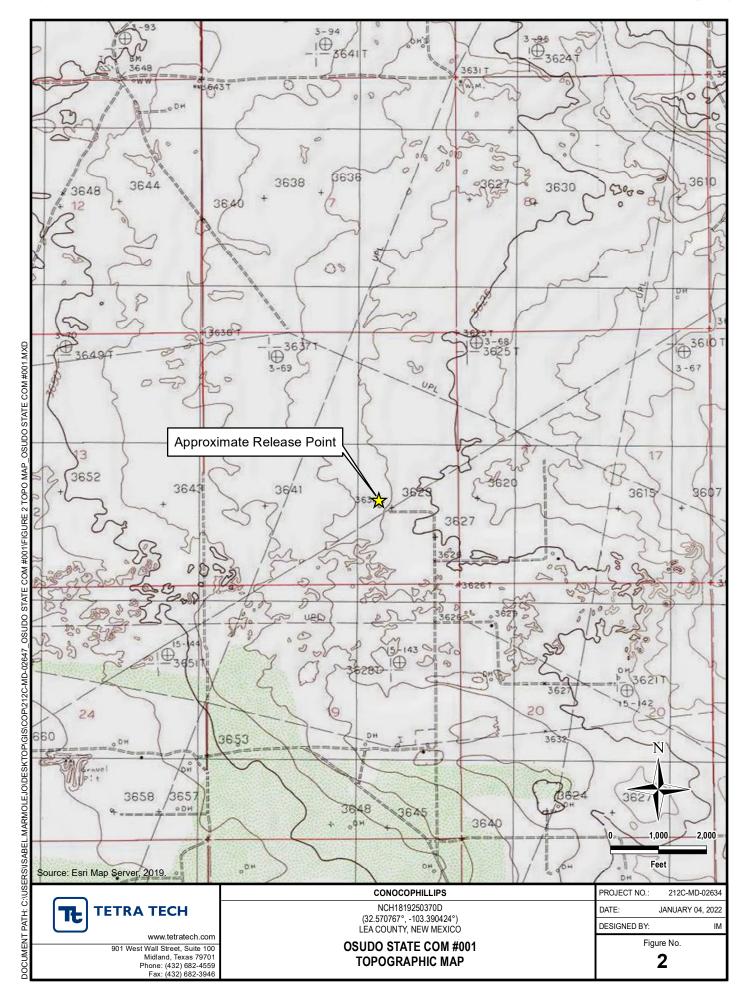
Appendix D – Laboratory Analytical Data

Appendix E – NMSLO Seed Mix Details

FIGURES



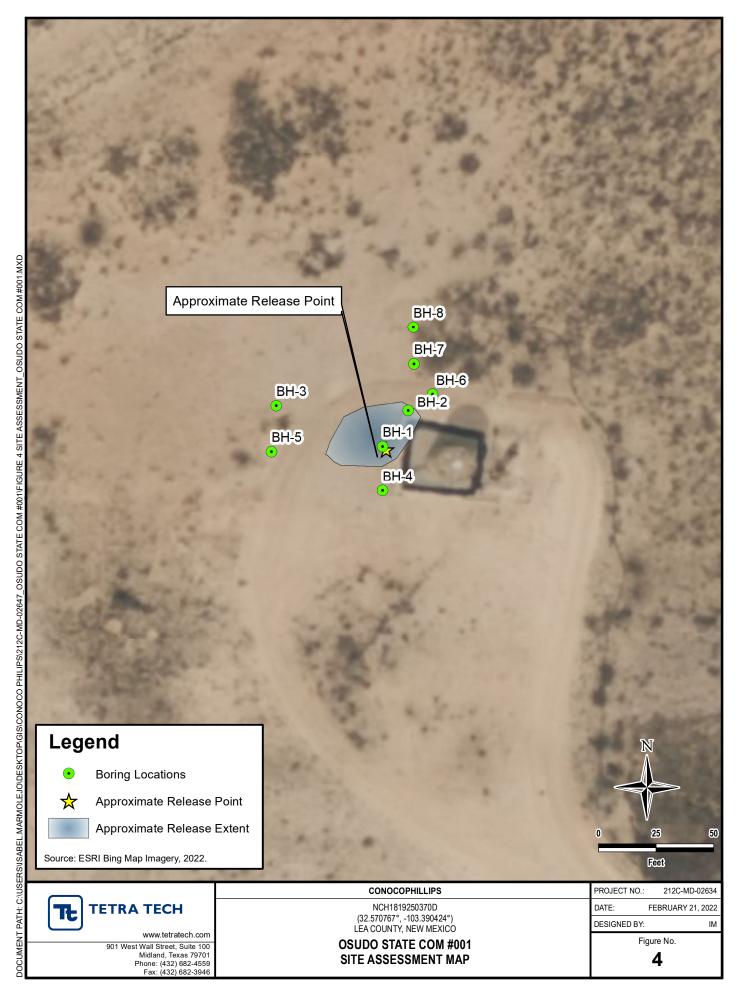
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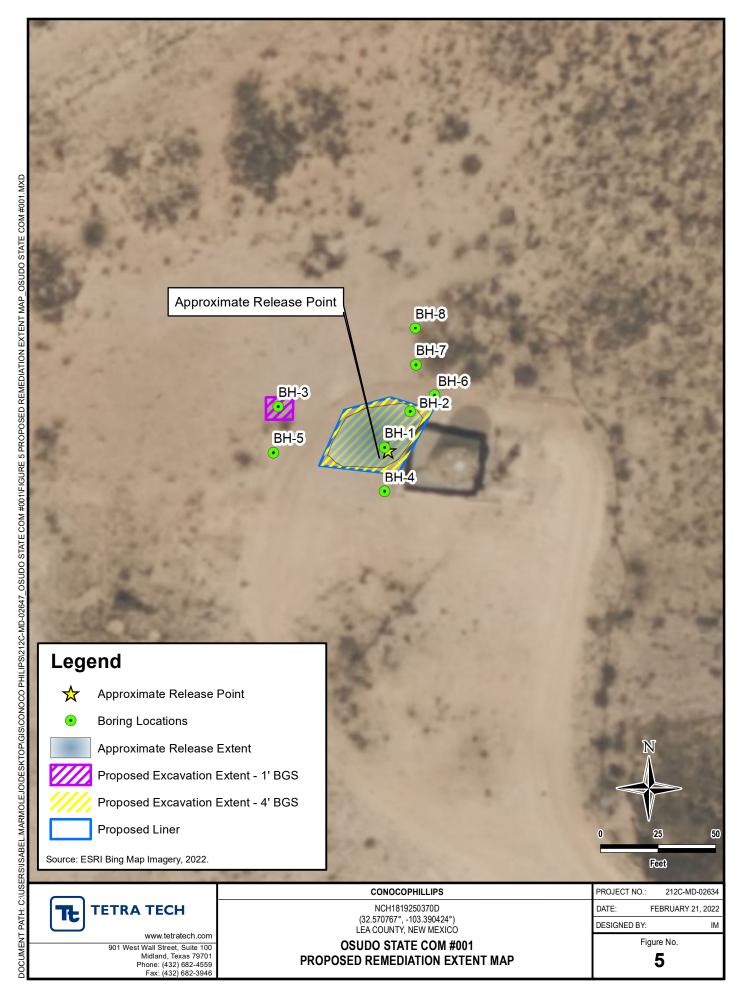


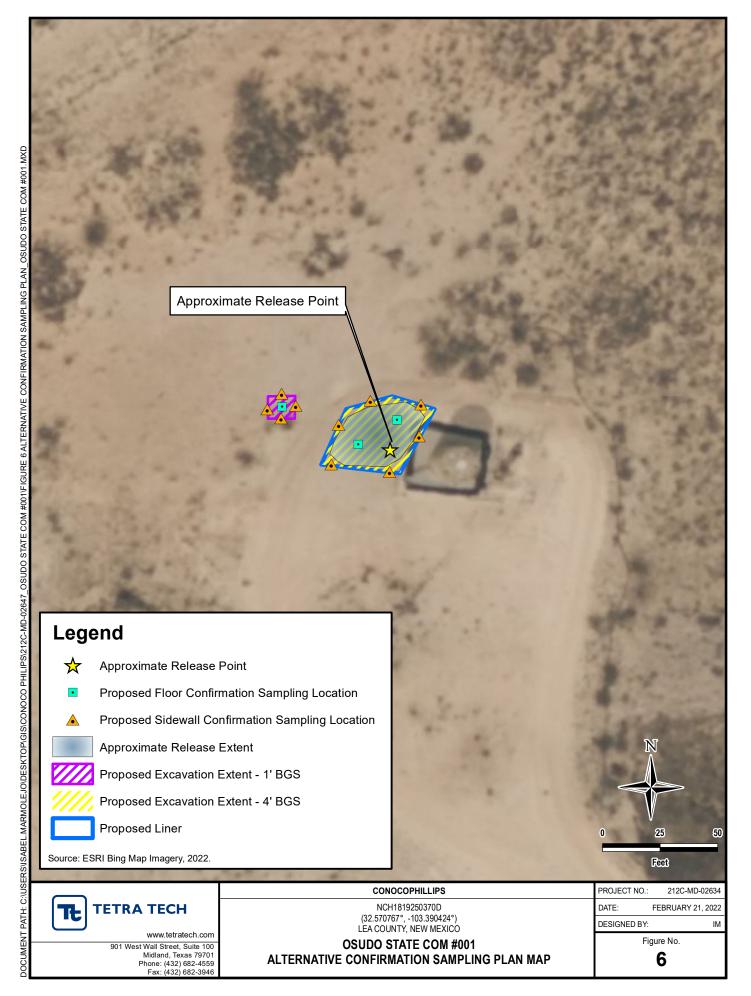
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TABLE

TABLE 1 SUMMARY OF ANALYTICAL RESULTS SOIL ASSESSMENT- 1RP-5119 / NCH1819250370 HERITAGE CONCHO OSUDO STATE COM #001 TB RELEASE EDDY COUNTY, NM

									BTEX	2								TI	PH ³		
Consulta ID	Consula Data	Sample Depth	Chlorid	le ¹			Talua		Tab. db an		Tabal Yol		Tatal	TEV	GRO		DRO)	EXT D	RO	Total TPH
Sample ID	Sample Date				Benzer	ie	Tolue	ne	Ethylben	zene	Total Xyl	enes	Total E	SIEX	C ₆ - C ₁₀		> C ₁₀ -	C ₂₈	> C ₂₈ -	C ₃₆	(GRO+DRO+EXT DRO)
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
		0-1	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		300		< 10.0		300
		2-3	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		116		< 10.0		116
		4-5	128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		14.6		< 10.0		14.6
		6-7	112		< 0.050		< 0.050	GC-NC	0.336	GC-NC1	2.93	GC-NC1	3.27	GC-NC1	54.2		590		< 10.0		644
		9-10	112		< 0.050		< 0.050	GC-NC	0.290	GC-NC1	3.27	GC-NC1	3.56	GC-NC1	31.3		422		< 10.0		453
		14-15	48.0		< 0.050		0.627	GC-NC1	2.91	GC-NC1	21.7	GC-NC1	25.2	GC-NC1	160		816		< 10.0		976
BH-1	1/18/2022	19-20	208		< 0.200		1.01	GC-NC1	3.52	GC-NC1	32.0	GC-NC1	36.5	GC-NC1	221		1,090		< 10.0		1,311
		24-25	192		< 0.050		0.160	GC-NC1	0.564	GC-NC1	6.43	GC-NC1	7.15	GC-NC1	74.7		500		< 10.0		575
		29-30	128		< 0.050		0.419	GC-NC1	1.29	GC-NC1	12.1	GC-NC1	13.8	GC-NC1	176		857		< 10.0		1,033
		34-35	352		< 0.050		0.067	GC-N1, QM-07	0.649	GC-NC1	5.27	GC-NC1	5.98	GC-NC1	219		932		< 10.0		1,151
		39-40	608		< 0.200		0.598	GC-NC1	1.77	GC-NC1	19.5	GC-NC1	21.8	GC-NC1	264		1,530		< 10.0		1,794
		44-45	1,220		< 0.200		1.19	GC-NC1	2.71	GC-NC1	31.2	GC-NC1	35.1	GC-NC1	355		1,870		< 10.0		2,225
		49-50	288		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		76.3		< 10.0		76.3
		0-1	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		231	QM-07	< 10.0		231
		2-3	304		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		149		< 10.0		149
		4-5	416		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		112		< 10.0		122
BH-2	1/18/2022	6-7	816		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		136		< 10.0		136
		9-10	1,100		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		51.1		< 10.0		51.1
		14-15	704		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		61.2		< 10.0		61.2
		0-1	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		107		< 10.0		107
		2-3	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		14.3		< 10.0		14.3
		4-5	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-3	1/18/2022	6-7	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		9-10	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		14-15	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		19-20	512		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		0-1	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		2-3	96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		4-5	144		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-4	1/18/2022	6-7	240		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		144		< 10.0		144
		9-10	272		< 0.050		< 0.050		< 0.050		1.08	GC-NC1	1.08	GC-NC1	55.4		1,070		12.9		1,138
		14-15	272		< 0.200		1.10	GC-NC1	2.65	GC-NC1	28.8	GC-NC1	32.6	GC-NC1	654		2,980		36.4		3,670
		19-20	304		< 0.050		0.312	GC-NC1	1.53	GC-N1, QM-07	14.1	GC-N1, QM-07	15.9	GC-NC1	481		2,840		32.8		3,354
		0-1	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		2-3	96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		4-5	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-5	1/18/2022	6-7	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	1	-
		9-10	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		31.2		< 10.0	1	31.2
		14-15	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	1	-
		19-20	112		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	1	-
														1			1			1	

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TABLE 1 SUMMARY OF ANALYTICAL RESULTS SOIL ASSESSMENT- 1RP-5119 / NCH1819250370 HERITAGE CONCHO OSUDO STATE COM #001 TB RELEASE EDDY COUNTY, NM

									BTEX	2								т	PH ³		
Sample ID	Sample Date	Sample Depth	Chlorid	e1	Benzer	10	Toluen		Ethylben	7000	Total Xyl	ones	Total B	TEV	GRO		DRO		EXT DI	RO	Total TPH
Sample ib	Sample Date				Delizei		Tolden	E	Luiyiben	zene	Total Ay	enes	Total B		C ₆ - C ₁	.0	> C ₁₀ - 0	C ₂₈	> C ₂₈ -	C ₃₆	(GRO+DRO+EXT DRO)
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
		0-1	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		55.8		< 10.0		55.8
		2-3	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		23.0		< 10.0		23.0
BH-6	1/18/2022	4-5	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		19.4		< 10.0		19.4
		14-15	144		< 0.050		< 0.050		0.364	GC-NC1	0.268	GC-NC1	0.633	GC-NC1	52.0		524		< 10.0		576
		34-35	8,320		< 0.050		< 0.050		0.072	GC-NC1	< 0.150		< 0.300		36.4		640		< 10.0		676
		0-1	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-7	1/18/2022	4-5	144		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		96.2		< 10.0		96.2
		9-10	240		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		0-1	144		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		16.7		< 10.0		16.7
BH-8	1/18/2022	4-5	208		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
0-110	1/ 10/ 2022	9-10	224		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		14-15	1,150		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

Total Petroleum Hydrocarbons TPH

GRO Gasoline range organics

DRO Diesel range organics

Method SM4500Cl-B 1

Method 8021B 2

Method 8015M 3

Bold and italicized values indicate exceedance of proposed Remediation RRALs (600 mg/kg Chlorides; 100 mg/kg TPH)

Shaded rows indicate intervals proposed for excavation

QUALIFIERS:

GC-NC

GC-NC1

QM-07

8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND. 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds. The spike recovery was outside acceptance limits for the MS and MS/MSD. The batch was accepted based on acceptable LCS recovery.

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APPENDIX A C-141 Forms

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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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	\bowtie	Initial Report	Final Repor
Name of Company: COG Operating, LLC (OGR	ID #229137)	Contact:	Robert McNe	ill	
Address: 600 West Illinois Avenue, Midland, T.	Telephone No.	432-683-7443			
Facility Name: Osudo State Com #001		Facility Type: Tank I	Battery		
Surface Owner: Private	Mineral Owner	:: State		API No. 30-025-2	5143

LOCATION OF RELEASE

TT '/ T //	G (;	TT 1 '	D		N (1/C) (1 L)			C (
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	18	20S	36E	1,650	South	1,650	East	Lea

Latitude 32.5704575 Longitude -103.3904495 NAD83

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Oil	25 bbl.	3 bbl.
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Hole in tank	July 8, 2018 10:00am	July 8, 2018 10:00am
Was Immediate Notice Given?	If YES, To Whom?	
🛛 Yes 🗌 No 🗌 Not Required	Olivia Yu – NMOCD	
	Christina Hernandez – NMOCD	
	Ryan Mann – SLO	
By Whom? DeAnn Grant	Date and Hour July 9, 2018 8:33am	1
Was a Watercourse Reached?	If YES, Volume Impacting the Wate	ercourse.
🗌 Yes 🖾 No		
If a Watercourse was Impacted, Describe Fully.*		
	RECEIVED	
	NECLIVED	
	By CHernandez at 1	1:04 pm, Jul 11, 2018
		··· p···, ··· , ···)
Describe Cause of Problem and Remedial Action Taken.*		
The release was caused by a hole in the tank. The hole is being repaired.		
Describe Area Affected and Cleanup Action Taken.*		
The release was on location. A vacuum truck was dispatched to remove a		
possible impact from the release and we will present a remediation work		
I hereby certify that the information given above is true and complete to t		
regulations all operators are required to report and/or file certain release n		
public health or the environment. The acceptance of a C-141 report by th		
should their operations have failed to adequately investigate and remediat		
or the environment. In addition, NMOCD acceptance of a C-141 report d	oes not relieve the operator of respons	ibility for compliance with any other
federal, state, or local laws and/or regulations.		
\Rightarrow \land \land	<u>OIL CONSERV</u>	ATION DIVISION
Delinin (magint		
Signature:		
	Approved by Environmental Specialis	$t: \bigcup \bigcup$
Printed Name: DeAnn Grant		
	Approval Date: 7/11/2018	
Title: HSE Administrative Assistant	Approval Date: 7/11/2018	Expiration Date:
	~ ~ ~ ~ ~ ~ ~	
E-mail Address: agrant@concho.com	Conditions of Approval:	Attached
	See attached directive	
Date: July 9, 2018 Phone: (432) 253-4513	L	
Attach Additional Sheets If Necessary	1RP-5119	CH1819250851
		011010200001
	nCH1819250370D	

Received by OCD: 2/23/2022 9:46:06 PM Form C-141 State of New Mexico

Oil Conservation Division

	Page 18 of 106
Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

Laboratory data including chain of custody

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

Received by OCD: 2/23/2	2022 9:46:06 PM State of New Mexico	Page 19 of 10
		Incident ID
Page 4	Oil Conservation Division	District RP
		Facility ID
		Application ID
regulations all operators a public health or the envirt failed to adequately inves addition, OCD acceptance and/or regulations. Printed Name: Signature:	re required to report and/or file certain release notificat onment. The acceptance of a C-141 report by the OCD tigate and remediate contamination that pose a threat to e of a C-141 report does not relieve the operator of resp 	t of my knowledge and understand that pursuant to OCD rules and tions and perform corrective actions for releases which may endanger 0 does not relieve the operator of liability should their operations have o groundwater, surface water, human health or the environment. In ponsibility for compliance with any other federal, state, or local laws itle:
OCD Only		
Received by:		Date:

Received by OCD: 2/23/2022 9:46:06 PM Form C-141 State of New Mexico

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan. Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Title: Signature: _____ Date: _____ Telephone: _____ email: OCD Only Date: Received by: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Bradford Billings Signature: Date:

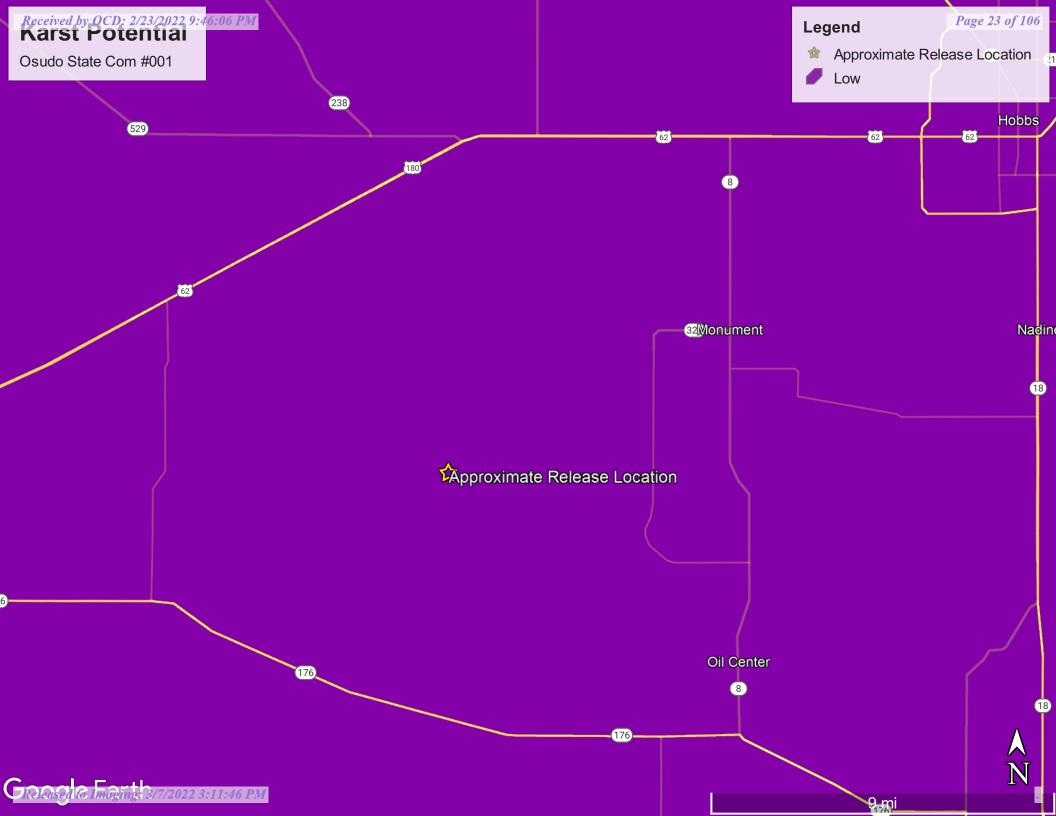
Page 5

APPENDIX B Site Characterization Data

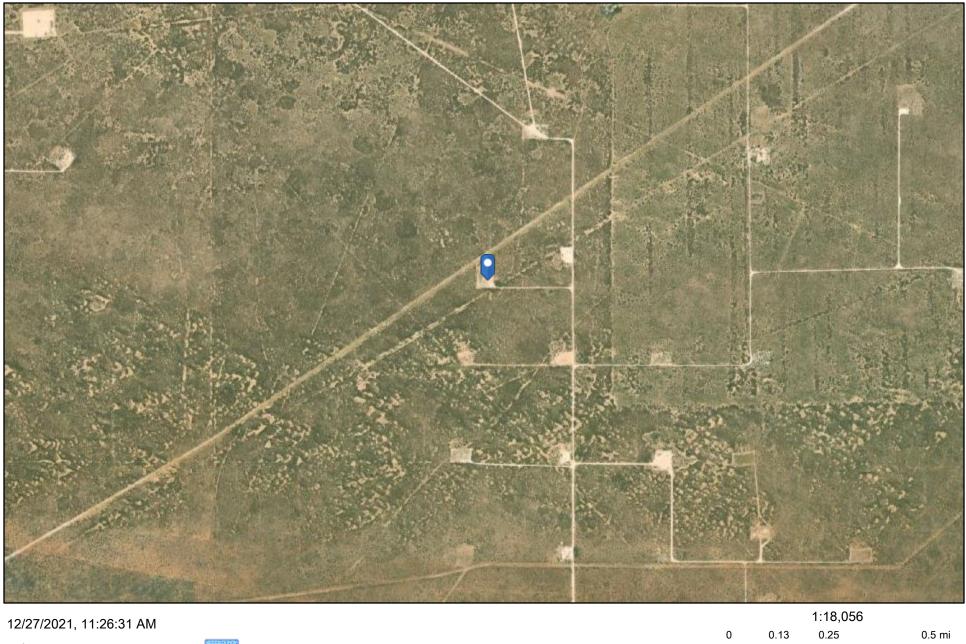
New Mexico Office of the State Engineer Water Column/Average Depth to Water (A CLW###### in the (R=POD has POD suffix indicates the been replaced. POD has been replaced O=orphaned, & no longer serves a (quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is water right file.) (quarters are smallest to largest) (NAD83 UTM in meters) (In feet) closed) POD Sub-Q Q QWater **POD** Number Code basin County 64 16 4 Sec Tws Rng Х Υ DistanceDepthWellDepthWater Column L 02420 L LE 4 1 18 20S 36E 650577 3605304* 🦲 710 80 34 46 Average Depth to Water: 34 feet 34 feet Minimum Depth: Maximum Depth: 34 feet Record Count: 1 UTMNAD83 Radius Search (in meters): **Radius: 800** Easting (X): 651090 **Northing (Y):** 3604812 *UTM location was derived from PLSS - see Help The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

12/27/21 10:33 AM

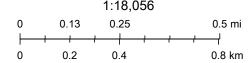
WATER COLUMN/ AVERAGE DEPTH TO WATER



OCD Water Bodies







New Mexico Oil Conservation Division

OCD, Maxar

Released to Imaging: 3/7/2022 3:11:46 PM

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

APPENDIX C Soil Boring Logs

212C-MD-02647	2/23/2022 9:46:06 PM TETRA TECH	LOG OF BORING BH-1	Page 26 Page 1 of 1
Project Name: O	udo State Com #001		
Borehole Location:	GPS: 32.570786°, -103.390472	Surface Elevation: 3635 ft	
Borehole Number:	BH-1	Borehole Diameter (in.): 8 in. Date Started: 1/18/2022 Date Finis	hed: 1/18/2022
ELD (ppm)	ppm) ERY (%) TENT (%) cf)	WATER LEVEL OBSERVATIONS While Drilling <u>V DRY</u> ft Upon Completion of Drilling <u>V</u> Remarks:	<u>DRY</u> ft
DEPTH (ft) OPERATION TYPE SAMPLE CHLORIDE FIELD SCREENING (ppm)	< ⊻ ⊻ ⊈	MATERIAL DESCRIPTION	E REMARKS
0 0 ExStill - - -	κ PID ∅ ≥ □ LL P 245	 SM- SILTY SAND, red, loose, dry, fine grained, faint staining, faint hydrocarbons odor SM- SILTY SAND, grey, loose, dry, fine grained, heavy staining, heavy hydrocarbons odor 	
	218		
	228	-SC- CLAYEY SAND, red, dense, dry, with Clay pockets, faint hydrocarbons odor	
	400	-SC- CLAYEY SAND, red, dense, moist, with Clay pockets, faint hydrocarbons odor 	
Sampler Split Types: Spor	Iby 🗍 Vane Shear	Bottom of borehole at 50.0 feet.	
Shell Bulk Sam Grail Sam	nple Discrete Sample	a Air Rotary ntinuous ht Auger Direct Push sh tary Core Barrel	

 Logger:
 Adrian Garcia
 Drilling Equipment:
 Air Rotary
 Driller:
 Scarborough

 OSUDO.STATE COM 001.GP1 * 2.14.22 * TT. AUSTIN. GEOTECH_NOWELL3 * 2015 TT TEMPLATE DECEMBER WELL.GDT **
 Driller:
 Scarborough
 Driller: Scarborough Drilling

APPENDIX D Laboratory Analytical Data



January 26, 2022

SAM ABBOTT TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: OSUDO STATE COM #001 TB RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/21/22 13:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 1 (0'-1') (H220246-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.16	108	2.00	0.717	
Toluene*	<0.050	0.050	01/24/2022	ND	2.06	103	2.00	0.219	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.09	104	2.00	0.160	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.34	106	6.00	0.319	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/23/2022	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	01/24/2022	ND	201	101	200	3.20	
DRO >C10-C28*	300	10.0	01/24/2022	ND	192	95.8	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	89.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	91.7	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 1 (2' - 3') (H220246-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.16	108	2.00	0.717	
Toluene*	<0.050	0.050	01/24/2022	ND	2.06	103	2.00	0.219	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.09	104	2.00	0.160	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.34	106	6.00	0.319	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/23/2022	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	01/24/2022	ND	201	101	200	3.20	
DRO >C10-C28*	116	10.0	01/24/2022	ND	192	95.8	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	86.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	82.4	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 1 (4' - 5') (H220246-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.16	108	2.00	0.717	
Toluene*	<0.050	0.050	01/24/2022	ND	2.06	103	2.00	0.219	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.09	104	2.00	0.160	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.34	106	6.00	0.319	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/23/2022	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	01/24/2022	ND	201	101	200	3.20	
DRO >C10-C28*	14.6	10.0	01/24/2022	ND	192	95.8	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	92.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	81.8	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 1 (6' - 7') (H220246-04)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.16	108	2.00	0.717	
Toluene*	<0.050	0.050	01/24/2022	ND	2.06	103	2.00	0.219	GC-NC
Ethylbenzene*	0.336	0.050	01/24/2022	ND	2.09	104	2.00	0.160	GC-NC1
Total Xylenes*	2.93	0.150	01/24/2022	ND	6.34	106	6.00	0.319	GC-NC1
Total BTEX	3.27	0.300	01/24/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	271	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/23/2022	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*	54.2	10.0	01/24/2022	ND	201	101	200	3.20	
DRO >C10-C28*	590	10.0	01/24/2022	ND	192	95.8	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	110	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	87.4	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 1 (9' - 10') (H220246-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.16	108	2.00	0.717	
Toluene*	<0.050	0.050	01/24/2022	ND	2.06	103	2.00	0.219	GC-NC
Ethylbenzene*	0.290	0.050	01/24/2022	ND	2.09	104	2.00	0.160	GC-NC1
Total Xylenes*	3.27	0.150	01/24/2022	ND	6.34	106	6.00	0.319	GC-NC1
Total BTEX	3.56	0.300	01/24/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	217 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/23/2022	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*	31.3	10.0	01/24/2022	ND	201	101	200	3.20	
DRO >C10-C28*	422	10.0	01/24/2022	ND	192	95.8	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	115 %	66.9-13	6						
Surrogate: 1-Chlorooctadecane	92.6 9	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 1 (14' - 15') (H220246-06)

BTEX 8021B	mg/kg		Analyzed By: MS/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.16	108	2.00	0.717	
Toluene*	0.627	0.050	01/24/2022	ND	2.06	103	2.00	0.219	GC-NC1
Ethylbenzene*	2.91	0.050	01/24/2022	ND	2.09	104	2.00	0.160	GC-NC1
Total Xylenes*	21.7	0.150	01/24/2022	ND	6.34	106	6.00	0.319	GC-NC1
Total BTEX	25.2	0.300	01/24/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	337	% 69.9-14	0						
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	01/23/2022	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*	160	10.0	01/24/2022	ND	201	101	200	3.20	
DRO >C10-C28*	816	10.0	01/24/2022	ND	192	95.8	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	134	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	86.9	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 1 (19' - 20') (H220246-07)

BTEX 8021B	mg/kg		Analyzed By: MS/				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	01/24/2022	ND	2.16	108	2.00	0.717	
Toluene*	1.01	0.200	01/24/2022	ND	2.06	103	2.00	0.219	GC-NC
Ethylbenzene*	3.52	0.200	01/24/2022	ND	2.09	104	2.00	0.160	GC-NC
Total Xylenes*	32.0	0.600	01/24/2022	ND	6.34	106	6.00	0.319	GC-NC
Total BTEX	36.5	1.20	01/24/2022	ND					GC-NC
Surrogate: 4-Bromofluorobenzene (PID	187 :	% 69.9-14	10						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/23/2022	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	221	10.0	01/24/2022	ND	201	101	200	3.20	
DRO >C10-C28*	1090	10.0	01/24/2022	ND	192	95.8	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	163	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	89.1	% 59.5-14	12						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 1 (24' - 25') (H220246-08)

BTEX 8021B	mg/kg		Analyzed By: MS/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.16	108	2.00	0.717	
Toluene*	0.160	0.050	01/24/2022	ND	2.06	103	2.00	0.219	GC-NC1
Ethylbenzene*	0.564	0.050	01/24/2022	ND	2.09	104	2.00	0.160	GC-NC1
Total Xylenes*	6.43	0.150	01/24/2022	ND	6.34	106	6.00	0.319	GC-NC1
Total BTEX	7.15	0.300	01/24/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	196 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/23/2022	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*	74.7	10.0	01/24/2022	ND	201	101	200	3.20	
DRO >C10-C28*	500	10.0	01/24/2022	ND	192	95.8	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	121 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	84.8	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 1 (29' - 30') (H220246-09)

BTEX 8021B	mg/	'kg	Analyze	d By: MS/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.16	108	2.00	0.717	
Toluene*	0.419	0.050	01/24/2022	ND	2.06	103	2.00	0.219	GC-NC1
Ethylbenzene*	1.29	0.050	01/24/2022	ND	2.09	104	2.00	0.160	GC-NC1
Total Xylenes*	12.1	0.150	01/24/2022	ND	6.34	106	6.00	0.319	GC-NC1
Total BTEX	13.8	0.300	01/24/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	245 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/23/2022	ND	432	108	400	3.77	
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*	176	10.0	01/24/2022	ND	201	101	200	3.20	
DRO >C10-C28*	857	10.0	01/24/2022	ND	192	95.8	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	146 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	87.6	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 1 (39' - 40') (H220246-10)

BTEX 8021B	mg/	'kg	Analyze	d By: MS/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	01/24/2022	ND	2.16	108	2.00	0.717	
Toluene*	0.598	0.200	01/24/2022	ND	2.06	103	2.00	0.219	GC-NC1
Ethylbenzene*	1.77	0.200	01/24/2022	ND	2.09	104	2.00	0.160	GC-NC1
Total Xylenes*	19.5	0.600	01/24/2022	ND	6.34	106	6.00	0.319	GC-NC1
Total BTEX	21.8	1.20	01/24/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	158 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	01/23/2022	ND	432	108	400	3.77	
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*	264	10.0	01/24/2022	ND	201	101	200	3.20	
DRO >C10-C28*	1530	10.0	01/24/2022	ND	192	95.8	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	158 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	89.3	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 1 (44' - 45') (H220246-11)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	01/24/2022	ND	2.16	108	2.00	0.717	
Toluene*	1.19	0.200	01/24/2022	ND	2.06	103	2.00	0.219	GC-NC1
Ethylbenzene*	2.71	0.200	01/24/2022	ND	2.09	104	2.00	0.160	GC-NC1
Total Xylenes*	31.2	0.600	01/24/2022	ND	6.34	106	6.00	0.319	GC-NC1
Total BTEX	35.1	1.20	01/24/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	181	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	01/23/2022	ND	432	108	400	3.77	
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*	355	10.0	01/24/2022	ND	201	101	200	3.20	
DRO >C10-C28*	1870	10.0	01/24/2022	ND	192	95.8	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	264	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	89.9	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 1 (49' - 50') (H220246-12)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.15	108	2.00	4.07	
Toluene*	<0.050	0.050	01/24/2022	ND	2.08	104	2.00	3.77	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.07	104	2.00	4.05	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.27	104	6.00	3.70	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	01/23/2022	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	01/24/2022	ND	201	101	200	3.20	
DRO >C10-C28*	76.3	10.0	01/24/2022	ND	192	95.8	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	94.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	81.9	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 2 (0'-1') (H220246-13)

BTEX 8021B	mg/	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.15	108	2.00	4.07	
Toluene*	<0.050	0.050	01/24/2022	ND	2.08	104	2.00	3.77	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.07	104	2.00	4.05	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.27	104	6.00	3.70	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/23/2022	ND	432	108	400	3.77	
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	01/24/2022	ND	198	99.1	200	5.93	
DRO >C10-C28*	231	10.0	01/24/2022	ND	190	94.8	200	4.97	QM-07
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	90.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	147	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 2 (2' - 3') (H220246-14)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.15	108	2.00	4.07	
Toluene*	<0.050	0.050	01/24/2022	ND	2.08	104	2.00	3.77	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.07	104	2.00	4.05	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.27	104	6.00	3.70	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
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	01/23/2022	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	01/24/2022	ND	198	99.1	200	5.93	
DRO >C10-C28*	149	10.0	01/24/2022	ND	190	94.8	200	4.97	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	85.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	139	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 2 (4'-5') (H220246-15)

BTEX 8021B	mg/	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.15	108	2.00	4.07	
Toluene*	<0.050	0.050	01/24/2022	ND	2.08	104	2.00	3.77	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.07	104	2.00	4.05	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.27	104	6.00	3.70	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	01/23/2022	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	01/24/2022	ND	198	99.1	200	5.93	
DRO >C10-C28*	112	10.0	01/24/2022	ND	190	94.8	200	4.97	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	87.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	104	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 2 (6' - 7') (H220246-16)

BTEX 8021B	mg/	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.15	108	2.00	4.07	
Toluene*	<0.050	0.050	01/24/2022	ND	2.08	104	2.00	3.77	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.07	104	2.00	4.05	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.27	104	6.00	3.70	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	01/23/2022	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	01/24/2022	ND	198	99.1	200	5.93	
DRO >C10-C28*	136	10.0	01/24/2022	ND	190	94.8	200	4.97	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	85.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	114 9	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 2 (9' - 10') (H220246-17)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.15	108	2.00	4.07	
Toluene*	<0.050	0.050	01/24/2022	ND	2.08	104	2.00	3.77	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.07	104	2.00	4.05	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.27	104	6.00	3.70	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	01/23/2022	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	01/24/2022	ND	198	99.1	200	5.93	
DRO >C10-C28*	51.1	10.0	01/24/2022	ND	190	94.8	200	4.97	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	84.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	99.4	% 59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 2 (14'-15') (H220246-18)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.15	108	2.00	4.07	
Toluene*	<0.050	0.050	01/24/2022	ND	2.08	104	2.00	3.77	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.07	104	2.00	4.05	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.27	104	6.00	3.70	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	01/23/2022	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	01/24/2022	ND	198	99.1	200	5.93	
DRO >C10-C28*	61.2	10.0	01/24/2022	ND	190	94.8	200	4.97	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	86.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	94.0	% 59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 3 (0'-1') (H220246-19)

BTEX 8021B	mg/	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.15	108	2.00	4.07	
Toluene*	<0.050	0.050	01/24/2022	ND	2.08	104	2.00	3.77	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.07	104	2.00	4.05	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.27	104	6.00	3.70	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/23/2022	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	01/24/2022	ND	198	99.1	200	5.93	
DRO >C10-C28*	107	10.0	01/24/2022	ND	190	94.8	200	4.97	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	86.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	91.3	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 3 (2' - 3') (H220246-20)

BTEX 8021B	mg/	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.15	108	2.00	4.07	
Toluene*	<0.050	0.050	01/24/2022	ND	2.08	104	2.00	3.77	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.07	104	2.00	4.05	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.27	104	6.00	3.70	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 69.9-14	0						
Chloride, SM4500Cl-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	01/23/2022	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	01/24/2022	ND	198	99.1	200	5.93	
DRO >C10-C28*	14.3	10.0	01/24/2022	ND	190	94.8	200	4.97	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	79.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	83.1	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 3 (4' - 5') (H220246-21)

BTEX 8021B	mg/	′kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.15	108	2.00	4.07	
Toluene*	<0.050	0.050	01/24/2022	ND	2.08	104	2.00	3.77	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.07	104	2.00	4.05	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.27	104	6.00	3.70	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/23/2022	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	01/24/2022	ND	198	99.1	200	5.93	
DRO >C10-C28*	<10.0	10.0	01/24/2022	ND	190	94.8	200	4.97	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	89.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	92.2	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 3 (6' - 7') (H220246-22)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.15	108	2.00	4.07	
Toluene*	<0.050	0.050	01/24/2022	ND	2.08	104	2.00	3.77	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.07	104	2.00	4.05	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.27	104	6.00	3.70	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/23/2022	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	01/24/2022	ND	198	99.1	200	5.93	
DRO >C10-C28*	<10.0	10.0	01/24/2022	ND	190	94.8	200	4.97	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	89.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	92.3	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 3 (9' - 10') (H220246-23)

BTEX 8021B	mg/	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.15	108	2.00	4.07	
Toluene*	<0.050	0.050	01/24/2022	ND	2.08	104	2.00	3.77	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.07	104	2.00	4.05	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.27	104	6.00	3.70	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/23/2022	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	01/24/2022	ND	198	99.1	200	5.93	
DRO >C10-C28*	<10.0	10.0	01/24/2022	ND	190	94.8	200	4.97	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	79.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	79.5	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 3 (14' - 15') (H220246-24)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.15	108	2.00	4.07	
Toluene*	<0.050	0.050	01/24/2022	ND	2.08	104	2.00	3.77	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.07	104	2.00	4.05	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.27	104	6.00	3.70	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/23/2022	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	01/24/2022	ND	198	99.1	200	5.93	
DRO >C10-C28*	<10.0	10.0	01/24/2022	ND	190	94.8	200	4.97	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	86.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	86.2	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 3 (19' - 20') (H220246-25)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.15	108	2.00	4.07	
Toluene*	<0.050	0.050	01/24/2022	ND	2.08	104	2.00	3.77	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.07	104	2.00	4.05	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.27	104	6.00	3.70	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	01/23/2022	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	01/24/2022	ND	198	99.1	200	5.93	
DRO >C10-C28*	<10.0	10.0	01/24/2022	ND	190	94.8	200	4.97	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	77.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	77.6	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 4 (0'-1') (H220246-26)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.15	108	2.00	4.07	
Toluene*	<0.050	0.050	01/24/2022	ND	2.08	104	2.00	3.77	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.07	104	2.00	4.05	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.27	104	6.00	3.70	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-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	01/23/2022	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	01/24/2022	ND	198	99.1	200	5.93	
DRO >C10-C28*	<10.0	10.0	01/24/2022	ND	190	94.8	200	4.97	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	88.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	88.1	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 4 (2' - 3') (H220246-27)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.15	108	2.00	4.07	
Toluene*	<0.050	0.050	01/24/2022	ND	2.08	104	2.00	3.77	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.07	104	2.00	4.05	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.27	104	6.00	3.70	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/23/2022	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	01/24/2022	ND	198	99.1	200	5.93	
DRO >C10-C28*	<10.0	10.0	01/24/2022	ND	190	94.8	200	4.97	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	88.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	88.1	% 59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 4 (4' - 5') (H220246-28)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.15	108	2.00	4.07	
Toluene*	<0.050	0.050	01/24/2022	ND	2.08	104	2.00	3.77	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.07	104	2.00	4.05	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.27	104	6.00	3.70	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/23/2022	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	01/24/2022	ND	198	99.1	200	5.93	
DRO >C10-C28*	<10.0	10.0	01/24/2022	ND	190	94.8	200	4.97	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	86.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	86.2	% 59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 4 (6' - 7') (H220246-29)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.15	108	2.00	4.07	
Toluene*	<0.050	0.050	01/24/2022	ND	2.08	104	2.00	3.77	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.07	104	2.00	4.05	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.27	104	6.00	3.70	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/23/2022	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	01/24/2022	ND	198	99.1	200	5.93	
DRO >C10-C28*	144	10.0	01/24/2022	ND	190	94.8	200	4.97	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	91.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	94.0	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 4 (9'-10') (H220246-30)

BTEX 8021B	mg/	/kg	Analyze	d By: MS/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.15	108	2.00	4.07	
Toluene*	<0.050	0.050	01/24/2022	ND	2.08	104	2.00	3.77	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.07	104	2.00	4.05	
Total Xylenes*	1.08	0.150	01/24/2022	ND	6.27	104	6.00	3.70	GC-NC1
Total BTEX	1.08	0.300	01/24/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	172 9	% 69.9-14	0						
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	01/23/2022	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*	55.4	10.0	01/24/2022	ND	198	99.1	200	5.93	
DRO >C10-C28*	1070	10.0	01/24/2022	ND	190	94.8	200	4.97	
EXT DRO >C28-C36	12.9	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	132 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	123 9	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 4 (14' - 15') (H220246-31)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	01/24/2022	ND	2.15	108	2.00	4.07	
Toluene*	1.10	0.200	01/24/2022	ND	2.08	104	2.00	3.77	GC-NC1
Ethylbenzene*	2.65	0.200	01/24/2022	ND	2.07	104	2.00	4.05	GC-NC1
Total Xylenes*	28.8	0.600	01/24/2022	ND	6.27	104	6.00	3.70	GC-NC1
Total BTEX	32.6	1.20	01/24/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	184	% 69.9-14	0						
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	01/23/2022	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*	654	10.0	01/24/2022	ND	198	99.1	200	5.93	
DRO >C10-C28*	2980	10.0	01/24/2022	ND	190	94.8	200	4.97	
EXT DRO >C28-C36	36.4	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	374	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	176	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 4 (19' - 20') (H220246-32)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.01	100	2.00	1.17	
Toluene*	0.312	0.050	01/24/2022	ND	2.15	107	2.00	0.733	GC-NC1
Ethylbenzene*	1.53	0.050	01/24/2022	ND	2.05	102	2.00	2.20	GC-NC1, QM-0
Total Xylenes*	14.1	0.150	01/24/2022	ND	6.45	108	6.00	2.07	GC-NC1, QM-0
Total BTEX	15.9	0.300	01/24/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	179	% 69.9-14	10						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	01/23/2022	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*	481	10.0	01/24/2022	ND	198	99.1	200	5.93	
DRO >C10-C28*	2840	10.0	01/24/2022	ND	190	94.8	200	4.97	
EXT DRO >C28-C36	32.8	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	335	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	228	% 59.5-14	12						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 5 (0'-1') (H220246-33)

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	01/24/2022	ND	2.01	100	2.00	1.17	
Toluene*	<0.050	0.050	01/24/2022	ND	2.15	107	2.00	0.733	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.05	102	2.00	2.20	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.45	108	6.00	2.07	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-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	01/23/2022	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	01/24/2022	ND	216	108	200	4.62	
DRO >C10-C28*	<10.0	10.0	01/24/2022	ND	203	102	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	94.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	98.7	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 5 (2' - 3') (H220246-34)

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	01/24/2022	ND	2.01	100	2.00	1.17	
Toluene*	<0.050	0.050	01/24/2022	ND	2.15	107	2.00	0.733	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.05	102	2.00	2.20	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.45	108	6.00	2.07	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-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	01/23/2022	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	01/24/2022	ND	216	108	200	4.62	
DRO >C10-C28*	<10.0	10.0	01/24/2022	ND	203	102	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	105	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	109	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 5 (4' - 5') (H220246-35)

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	01/24/2022	ND	2.01	100	2.00	1.17	
Toluene*	<0.050	0.050	01/24/2022	ND	2.15	107	2.00	0.733	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.05	102	2.00	2.20	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.45	108	6.00	2.07	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
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	01/23/2022	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	01/24/2022	ND	216	108	200	4.62	
DRO >C10-C28*	<10.0	10.0	01/24/2022	ND	203	102	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	102	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	107	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 5 (6' - 7') (H220246-36)

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	01/24/2022	ND	2.01	100	2.00	1.17	
Toluene*	<0.050	0.050	01/24/2022	ND	2.15	107	2.00	0.733	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.05	102	2.00	2.20	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.45	108	6.00	2.07	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-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	01/23/2022	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	01/24/2022	ND	216	108	200	4.62	
DRO >C10-C28*	<10.0	10.0	01/24/2022	ND	203	102	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	107	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	112 9	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 5 (9'-10') (H220246-37)

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	01/24/2022	ND	2.01	100	2.00	1.17	
Toluene*	<0.050	0.050	01/24/2022	ND	2.15	107	2.00	0.733	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.05	102	2.00	2.20	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.45	108	6.00	2.07	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-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	01/23/2022	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	01/24/2022	ND	216	108	200	4.62	
DRO >C10-C28*	31.2	10.0	01/24/2022	ND	203	102	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	101	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	106	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 5 (14' - 15') (H220246-38)

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	01/24/2022	ND	2.01	100	2.00	1.17	
Toluene*	<0.050	0.050	01/24/2022	ND	2.15	107	2.00	0.733	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.05	102	2.00	2.20	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.45	108	6.00	2.07	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/24/2022	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	01/24/2022	ND	216	108	200	4.62	
DRO >C10-C28*	<10.0	10.0	01/24/2022	ND	203	102	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	95.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	100	% 59.5-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 5 (19' - 20') (H220246-39)

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	01/24/2022	ND	2.01	100	2.00	1.17	
Toluene*	<0.050	0.050	01/24/2022	ND	2.15	107	2.00	0.733	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.05	102	2.00	2.20	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.45	108	6.00	2.07	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/24/2022	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	01/24/2022	ND	216	108	200	4.62	
DRO >C10-C28*	<10.0	10.0	01/24/2022	ND	203	102	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	103	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	109	% 59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 6 (0'-1') (H220246-40)

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	01/24/2022	ND	2.01	100	2.00	1.17	
Toluene*	<0.050	0.050	01/24/2022	ND	2.15	107	2.00	0.733	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.05	102	2.00	2.20	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.45	108	6.00	2.07	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/24/2022	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	01/24/2022	ND	216	108	200	4.62	
DRO >C10-C28*	55.8	10.0	01/24/2022	ND	203	102	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	106	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	111 9	% 59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 6 (2' - 3') (H220246-41)

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	01/24/2022	ND	2.01	100	2.00	1.17	
Toluene*	<0.050	0.050	01/24/2022	ND	2.15	107	2.00	0.733	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.05	102	2.00	2.20	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.45	108	6.00	2.07	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/24/2022	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	01/24/2022	ND	216	108	200	4.62	
DRO >C10-C28*	23.0	10.0	01/24/2022	ND	203	102	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	112 9	66.9-13	6						
Surrogate: 1-Chlorooctadecane	115 9	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 6 (4' - 5') (H220246-42)

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	01/24/2022	ND	2.01	100	2.00	1.17	
Toluene*	<0.050	0.050	01/24/2022	ND	2.15	107	2.00	0.733	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.05	102	2.00	2.20	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.45	108	6.00	2.07	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/24/2022	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	01/24/2022	ND	216	108	200	4.62	
DRO >C10-C28*	19.4	10.0	01/24/2022	ND	203	102	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	115 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	116 9	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 6 (14' - 15') (H220246-43)

BTEX 8021B	mg/	kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2022	ND	2.01	100	2.00	1.17	
Toluene*	<0.050	0.050	01/24/2022	ND	2.15	107	2.00	0.733	
Ethylbenzene*	0.364	0.050	01/24/2022	ND	2.05	102	2.00	2.20	GC-NC1
Total Xylenes*	0.268	0.150	01/24/2022	ND	6.45	108	6.00	2.07	GC-NC1
Total BTEX	0.633	0.300	01/24/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	166 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/24/2022	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*	52.0	10.0	01/24/2022	ND	216	108	200	4.62	
DRO >C10-C28*	524	10.0	01/24/2022	ND	203	102	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	140 9	66.9-13	6						
Surrogate: 1-Chlorooctadecane	115 %	6 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 6 (34' - 35') (H220246-44)

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	01/24/2022	ND	2.01	100	2.00	1.17	
Toluene*	<0.050	0.050	01/24/2022	ND	2.15	107	2.00	0.733	
Ethylbenzene*	0.072	0.050	01/24/2022	ND	2.05	102	2.00	2.20	GC-NC1
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.45	108	6.00	2.07	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8320	16.0	01/24/2022	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*	36.4	10.0	01/24/2022	ND	216	108	200	4.62	
DRO >C10-C28*	640	10.0	01/24/2022	ND	203	102	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	137	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	116 9	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 7 (0'-1') (H220246-45)

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	01/24/2022	ND	2.01	100	2.00	1.17	
Toluene*	<0.050	0.050	01/24/2022	ND	2.15	107	2.00	0.733	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.05	102	2.00	2.20	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.45	108	6.00	2.07	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/24/2022	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	01/24/2022	ND	216	108	200	4.62	
DRO >C10-C28*	<10.0	10.0	01/24/2022	ND	203	102	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	109	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	111 9	59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 7 (4'-5') (H220246-46)

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	01/24/2022	ND	2.01	100	2.00	1.17	
Toluene*	<0.050	0.050	01/24/2022	ND	2.15	107	2.00	0.733	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.05	102	2.00	2.20	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.45	108	6.00	2.07	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/24/2022	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	01/24/2022	ND	216	108	200	4.62	
DRO >C10-C28*	96.2	10.0	01/24/2022	ND	203	102	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	104	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	110 9	% 59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 7 (9'-10') (H220246-47)

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	01/24/2022	ND	2.01	100	2.00	1.17	
Toluene*	<0.050	0.050	01/24/2022	ND	2.15	107	2.00	0.733	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.05	102	2.00	2.20	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.45	108	6.00	2.07	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/24/2022	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	01/24/2022	ND	216	108	200	4.62	
DRO >C10-C28*	<10.0	10.0	01/24/2022	ND	203	102	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	103	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	104	% 59.5-14	2						

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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 8 (0'-1') (H220246-48)

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	01/24/2022	ND	2.01	100	2.00	1.17	
Toluene*	<0.050	0.050	01/24/2022	ND	2.15	107	2.00	0.733	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.05	102	2.00	2.20	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.45	108	6.00	2.07	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/24/2022	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	01/24/2022	ND	216	108	200	4.62	
DRO >C10-C28*	16.7	10.0	01/24/2022	ND	203	102	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/24/2022	ND					
Surrogate: 1-Chlorooctane	108	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	109	% 59.5-14	2						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 8 (4' - 5') (H220246-49)

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	01/24/2022	ND	2.01	100	2.00	1.17	
Toluene*	<0.050	0.050	01/24/2022	ND	2.15	107	2.00	0.733	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.05	102	2.00	2.20	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.45	108	6.00	2.07	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/24/2022	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	01/25/2022	ND	216	108	200	4.62	
DRO >C10-C28*	<10.0	10.0	01/25/2022	ND	203	102	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/25/2022	ND					
Surrogate: 1-Chlorooctane	113 9	66.9-13	6						
Surrogate: 1-Chlorooctadecane	115 9	59.5-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 8 (9' - 10') (H220246-50)

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	01/24/2022	ND	2.01	100	2.00	1.17	
Toluene*	<0.050	0.050	01/24/2022	ND	2.15	107	2.00	0.733	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.05	102	2.00	2.20	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.45	108	6.00	2.07	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/24/2022	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	01/25/2022	ND	216	108	200	4.62	
DRO >C10-C28*	<10.0	10.0	01/25/2022	ND	203	102	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/25/2022	ND					
Surrogate: 1-Chlorooctane	101	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	99.8	% 59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 8 (14' - 15') (H220246-51)

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	01/24/2022	ND	2.01	100	2.00	1.17	
Toluene*	<0.050	0.050	01/24/2022	ND	2.15	107	2.00	0.733	
Ethylbenzene*	<0.050	0.050	01/24/2022	ND	2.05	102	2.00	2.20	
Total Xylenes*	<0.150	0.150	01/24/2022	ND	6.45	108	6.00	2.07	
Total BTEX	<0.300	0.300	01/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	01/24/2022	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	01/25/2022	ND	216	108	200	4.62	
DRO >C10-C28*	<10.0	10.0	01/25/2022	ND	203	102	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/25/2022	ND					
Surrogate: 1-Chlorooctane	102	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	101	% 59.5-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/21/2022	Sampling Date:	01/18/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02647	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: BH 1 (34' - 35') (H220246-52)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/25/2022	ND	2.01	101	2.00	0.475	
Toluene*	0.067	0.050	01/25/2022	ND	2.16	108	2.00	0.437	GC-NC1, QM-07
Ethylbenzene*	0.649	0.050	01/25/2022	ND	2.01	101	2.00	1.37	GC-NC1
Total Xylenes*	5.27	0.150	01/25/2022	ND	6.25	104	6.00	1.37	GC-NC1
Total BTEX	5.98	0.300	01/25/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	253	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	01/24/2022	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*	219	10.0	01/25/2022	ND	216	108	200	4.62	
DRO >C10-C28*	932	10.0	01/25/2022	ND	203	102	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/25/2022	ND					
Surrogate: 1-Chlorooctane	209	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	115 9	59.5-14	2						

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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 recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Project Name Project Locat (county, state Receiving L Comments: H122D2 LAB # (LAB USI ONLY Invoice to: Relinqui

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Indicate Transmistic Sam Abott Carcle or Specify Method No. Fax (422) 682-3946 Connect Info: Find:: Sam Abott Circle or Specify Method No. Fax (422) 682-3946 Sampler Signature: Adrian Garcia: Circle or Specify Method No. Material Abott Sampler Signature: Adrian Garcia: Adrian Garcia: Image: Sampler Signature: Adrian Garcia: Image: Adrian Garcia: Material Abott Image: Image: Adrian Garcia: Material Abott Image: Image: Adrian Garcia: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: <			Date:	Donew 1/21/22 15	Date: Time	BH 1 (29-307)	BH 1 (24-20)	BH 1 (19-20)	BH 1 (14-10)	BH I (9-10)	BH 1 (0-7 /)				RH 1 (0'-1")		SAMPLE IDENTIFICATION		COPTETRA Acctnum	Cardinal Laus	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79	Lea County, New Mexico	Osudo State Common	Conoco Phillips	Icha room	Totro Tech. Inc.
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Malandi, Texes 44990 Another (1422) 682-3946 Concerts an abore determine the (512) 739-787.4. Adrian Garcia Antrix FreeEEEWANTVE (12) 739-787.4. Circle or Specify Method No. (F)(2) 739-787.4. Antrix FreeEEEWANTVE (F)(2) 739-787.4. Adrian Garcia Circle or Specify Method No. (F) Adrian Garcia Circle or Specify Method No. (F) Non Nice Circle or Specify Method No. (F) Non Nice Circle of Special Park 82608 Circle of NICP No. (Gross Semi, Vol. 828008 / 624 On Nor Circle Metal Ad As Ba Cd Cr Pb Se Hig Norther Circle Semi Volatilies Norther <td>VAL COP</td> <td>y:</td> <td>7</td> <td>uara.</td> <td></td> <td>1230</td> <td>1200</td> <td>1130</td> <td>1100</td> <td>1030</td> <td>1000</td> <td>930</td> <td>900</td> <td>830</td> <td>800</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ure:</td> <td></td> <td>21</td> <td>Em</td> <td>San</td> <td></td>	VAL COP	y:	7	uara.		1230	1200	1130	1100	1030	1000	930	900	830	800						ure:		21	Em	San	
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In Charges Authorized 24 hr. 48 hr. 72 hr. <t< td=""><td>RED</td><td></td><td></td><td></td><td>×</td><td>REMA</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>Semi</td><td>Volatiles</td><td></td><td></td><td></td><td></td><td></td><td>ALY Sp</td><td></td></t<>	RED				×	REMA											-	Semi	Volatiles						ALY Sp	
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Project Name: Client Name: Project Location Invoice to: (county, state) **Receiving Laboratory:** HERDRAHL Comments: LAB USE Relinquished by: Relinquished by: Relinquished by: LAB # ONLY 러 Suond 24 23 22 12 30 20 28 26 22 N COPTETRA Acctnum PURY Conoco Phillips Osudo State Com #001 TB Release Lea County, New Mexico Cardinal Labs 901 West Wall Street, Accounts Payable **Fetra Tech**, Inc. SAMPLE IDENTIFICATION BH 3 (4'-5') BH 3 (9'-10') BH 3 (6'-7') BH 3 (14'-15') BH 4 (2'-3') BH 4 (0'-1') BH 3 (19'-20") BH 4 (9'-10') BH 4 (6-7") BH 4 (4'-5') , Suite 21/22 Date: Date: 100 Midland, Time: Texas 79701 Time: Ime: 205 Project #: Site Manager: Sampler Signature: Contact Info: YEAR: 2022 01/18/22 01/18/22 01/18/22 01/18/22 Received by Received by Received by 01/18/22 01/18/22 01/18/22 DATE 01/18/22 01/18/22 01/18/22 ORIGINAL COPY SAMPLING TIME 900 800 930 058 1030 1000 1130 1100 1200 1230 Email: sam.abbott@tetratech.com Phone: (512) 739-7874 Sam Abbott 212C-MD-02647 WATER MATRIX Adrian Garcia SOIL × × × × × × × × × × Fax (432) 682-3946 Tel (432) 682-4559 PRESERVATIVE HCL Date: Date: Date: HNO₃ METHOD 1-21-22 ICE × × × × × × × × × × NONE #`CONTAINERS --_ I ime: -Time: Ime ----_ -1310 FILTERED (Y/N) Z Z Z Z Z Z Z Z Z Z **BTEX 8260B** BTEX 8021B × × × × × × Sample Temperature × × × × TPH TX1005 (Ext to C35) 0-0.50 (Circle) HAND DELIVERED 'n TPH 8015M (GRO - DRO - ORO - MRO) LAB USE ONLY de × × × × × × × × × × 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 Ħ 6 TCLP Volatiles ANALYSIS REQUEST

TCLP Semi Volatiles

PCB's 8082 / 608

PLM (Asbestos)

Chloride 300.0

Chloride

TPH 8015R

HOLD

GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625

Sulfate

Anion/Cation Balance

TDS

General Water Chemistry (see attached list)

RCI

NORM

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× ×

REMARKS:

× ×

X Standard

RUSH: Same Day 24 hr.

48 hr.

72 hr.

Rush Charges Authorized

Special Report Limits or TRRP Report

FEDEX

UPS

Tracking #:

Page 84 of 106

Analysis Request of Chain of Custody Record

901 West Wall Street, Suite Midland, Texas 79701

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Record	

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Received by:	01/18/22	01/10/22	CC/01/10	01/18/22	01/18/22	01/18/22		01/18/22	01/18/22	01/18/22	01/18/22	01/18/22		DATE	YEAR: 2022	SAMPLING			Sampler Signature:			Project #:	Contact Info:	Site Manager:		
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Special Report Limits or TRRP Report

Sample Temperature

Rush Charges Authorized

ORIGINAL COPY

Relinquished by

dues

11/22 Date:

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Time:

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Date:

Time: 0/2

RUSH: Same Day 24 hr. 48 hr. 72 hr.

Analysis Request of Chain of Custody Record

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ORIGINAL COPY	Received by:		Received by:	a form	Received by:	01/18/22	01/18/22	01/18/22	01/18/22	01/18/22	01/18/22	22/81/10	22/81/10	22/81/10		01/18/22	DAIE		YEAR: 2022	SAMPLING			Sampler Signature:		Project #:	1	Contact Info:	Site Manager:			
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APPENDIX E NMSLO Seed Mix Details



United States Department of Agriculture

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Lea County, New Mexico



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/? cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

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Map Unit Descriptions	
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PU—Pyote and Maljamar fine sands	
References	

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

.

Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

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	MAP LEG	END		MAP INFORMATION
Area of Interest (A	OI)	📄 Spo	bil Area	The soil surveys that comprise your AOI were mapped at
Area of	Interest (AOI)	▲ Stor	ny Spot	1:20,000.
Soils Soil Ma	ıp Unit Polygons	🔊 Ver	y Stony Spot	Warning: Soil Map may not be valid at this scale.
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- 0 ***	•	∆ Oth	ier	Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil
-	ip Unit Points	Spe	ecial Line Features	line placement. The maps do not show the small areas of
Special Point Fea	14/-	ater Features		contrasting soils that could have been shown at a more detailed scale.
•			eams and Canals	
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💥 🛛 Clay Sp	oot	+++ Rai	ls	measurements.
Closed	Depression	🛹 Inte	erstate Highways	Source of Man: Notural Resources Conservation Service
💥 Gravel	Pit	🥪 US	Routes	Source of Map: Natural Resources Conservation Service Web Soil Survey URL:
🔹 Gravell	y Spot	🥪 Maj	jor Roads	Coordinate System: Web Mercator (EPSG:3857)
🙆 Landfill			al Roads	Maps from the Web Soil Survey are based on the Web Mercato
👗 🛛 Lava F	ow	ackground		projection, which preserves direction and shape but distorts
	or swamp	•	ial Photography	distance and area. A projection that preserves area, such as th Albers equal-area conic projection, should be used if more
💮 Mine or	· Quarry			accurate calculations of distance or area are required.
**	aneous Water			This product is generated from the USDA-NRCS certified data
0	ial Water			of the version date(s) listed below.
Rock C				
¥				Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 18, Sep 10, 2021
1				
Sandy				Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.
	ly Eroded Spot			
Sinkhol	e			Date(s) aerial images were photographed: Feb 7, 2020—May
Slide of	r Slip			12, 2020
🧭 Sodic S	Spot			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	
PU	Pyote and Maljamar fine sands	0.5	100.0%	
Totals for Area of Interest		0.5	100.0%	

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Lea County, New Mexico

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq Elevation: 3,000 to 3,900 feet Mean annual precipitation: 10 to 12 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

Pyote and similar soils: 46 percent *Maljamar and similar soils:* 44 percent *Minor components:* 10 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Pyote

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

Typical profile

A - 0 to 30 inches: fine sand Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 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 5.1 inches)

Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7s Hydrologic Soil Group: A Ecological site: R042XC003NM - Loamy Sand Hydric soil rating: No

Description of Maljamar

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

Typical profile

A - 0 to 24 inches: fine sand Bt - 24 to 50 inches: sandy clay loam Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very low
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 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7e Hydrologic Soil Group: B Ecological site: R042XC003NM - Loamy Sand Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent Ecological site: R042XC022NM - Sandhills Hydric soil rating: No

SLO Seed Mix

1 REVEGETATION PLANS

The following Revegetation Plans were developed for revegetation of sites in southeastern New Mexico. To determine which revegetation plan is appropriate follow procedures in the section titled Determining the Revegetation Plan.

Revegetation Plans contain seed mixtures, as well as seed bed preparation and planting requirements. The detailed instructions for seedbed preparation and planting can be found in the section Revegetation Techniques.

REVEGTATION PLANS	CODE	SOIL TEXTURES
Clay	С	Clay, Silty Clay, Stony Silty Clay, Clay Loam, Silty Clay Loam (including saline and sodic Clay soils)
Loam	L	Silty Loam, Cobbly Silt Loam, Stony Silt Loam, Silt, Loam, Sandy, Clay Loam
Sandy Loam	SL	Very Fine Sandy Loam, Fine Sandy Loam, Cobbly Fine Sandy Loam, Sandy Loam, Cobbly Sandy Loam, Gravelly Fine Sandy Loam, Very Gravelly Fine Sand Loam, Stony Fine Sandy Loam, Stony Sandy Loam
Shallow	SH	Rocky Loam, Cobbly Loam
Course	CS	Gravelly Loam, very Gravelly Loam, Gravelly Sandy Loam, Very Gravelly Sandy Loam, Stony Loam, Stony Sandy Loam
Sandy	S	Loamy Fine Sand, Loam Sand, Very Gravelly Loamy Fine Sand
Blow Sand	BS	Fine Sand, Sand, Coarse Sand
Mountain Meadow	MM	Clay, Loam
Mountain Upland	MU	Clay Loam, Loam

Table 3 - Revegetation Plans, Codes, and Soil Types for Southeastern New Mexico



Version 1 - 200808

New Mexico State Land Office Southeastern New Mexico Revegetation Handbook

NMSLO Seed Mix

Deep Sand (DS)

1.1 BLOW SAND SITES REVEGETATION PLAN (BS)

Use this Revegetation Plan with the following ESD's:

CP2 – Sandy Plains, Sandhills, Deep Sand, Shallow Plains HP3 – Loamy Sand, Sandy Plains, Sandhills, Deep Sand SD3 – Loamy Sand, Deep Sand, Sandhills, Salt Meadow

Soil Texture: Fine Sand, Sand, Course Sand

Revegetation Procedures:

I. For flat or gently sloping areas with slopes less than or equal to 3H:1V:

- 1. Soil Amendments: Apply composted manure or similar at the rate of 30.0 air dry tons/acre.
- 2. Fertilize: Type 2
- 3. Mulch Grass Hay mulch applied at 2.0 tons/acre
- 4. Prepare the seedbed and incorporate mulch, fertilizer, and soil amendments:
 - a. Scarify
 - b. Disc (thoroughly mix mulch, fertilizer, and soil amendments in top 6-8 inches of soil before proceeding).
- 5. **Drill Seed** use rangeland drill and apply Drill box seed to 0.5-0.75 inch depth, apply small seed to surface and lightly cover with drag chains or packer wheels or equal.
- 6. Mulch Grass Hay mulch applied at 2.0 tons/acre
- 7. Crimp
- 8. **Tackify** tackify to minimize risk of mulch blowing and to hold soil and mulch in place until vegetation begins to establish.
- 9. Wind Fence Install wind fence.



NMSLO Seed Mix

Deep Sand (DS)

DEEP SAND (DS) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX	
Grasses:				
Sand bluestem	Elida, VNS, So.	4.0	F	
Sideoats grama	Vaughn, El Reno	4.0	F	
Little bluestem	Cimarron, Pastura	3.0	F	
Plains bristlegrass	VNS, Southern	1.0	D	
Sand dropseed	VNS, Southern	2.0	S	
Blue grama	Lovington	1.0	D	
			2	
Forbs:			8	
Firewheel (Gaillardia)	VNS, Southern	1.0	D	
Anuual Sunflower	VNS, Southern	0.5	D	
Prairie Conflower	VNS, Southern	0.5	D	
108	Total PLS/ac	ere 17		

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at http://plants.usda.gov.



District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

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

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

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

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	83846
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS Created By Condition Condition Date bbillings 500 sq/ft confirm samples is a maximum. Agree with need of a monitor well (temp at first), to be completed with data in an agree location with OCD, at same 3/7/2022 time as soil remediation. 120 days from 3/7/22 is allocated to finish work on approval.

Action 83846

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