

January 10, 2023

Brittany Hall Projects Environmental Specialist New Mexico Energy, Minerals, and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

Re: Closure Report / Deferral Request ConocoPhillips (Heritage COG Operating LLC) Lychee BWS State Com #001H Release Unit Letter O, Section 22, Township 21 South, Range 34 East Lea County, New Mexico Incident ID# NOY1815234060

Ms. Hall:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (COPC) to assess a historical release that occurred from the Lychee BWS State Com #001H Release (API # 30-025-42445). The approximate release site coordinates are 32.457433°, -103.456074°, located in the Public Land Survey System (PLSS) Unit Letter O, Section 22, Township 21 South, Range 34 East, Lea County, New Mexico (Site). The Site location is shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report (Appendix A), the release was discovered on May 26, 2018. The release occurred due to a water dump valve eroding allowing fluid to form a hole in the liner. Approximately 200 barrels (bbls) of produced water and 20 bbls of oil were released, of which 105 bbls of produced water and 15 bbls of oil were recovered. The NMOCD received the initial C-141 on June 1, 2018, and subsequently assigned the release the Remediation Permit (RP) 1RP-5077 and the Incident ID nOY1815234060.

LAND OWNERSHIP

According to the NMOCD Oil and Gas Map, the site is located on state lands managed by the New Mexico State Land Office (NMSLO). It is also our understanding that COPC has a Surface Use and Compensation Agreement (SUA) in place with the Merchant Livestock Company (MLSCO). According to information provided by COG, the Merchant SUA stipulates that the site must be remediated and reclaimed per the SUA requirements. This report documents the completion of remediation and reclamation per the SUA. Prior to assessment and remedial activities, the appropriate parties were contacted and informed of the work and remedial work was coordinated with the landowner.

CULTURAL PROPERTIES PROTECTION

Tetra Tech, on behalf of ConocoPhillips, contracted SWCA Environmental Consultants (SWCA) to conduct an Archeological Resources Management Section (ARMS) review in the release area to comply with 19.2.24 New Mexico Administrative Code (NMAC). On September 28, 2023, SWCA completed a literature and file search using the New Mexico Cultural Resources Information System (NMCRIS) online database which included a review of known cultural resources, such as the built environment, archaeological sites, and State/National Register listed properties. Other sources reviewed include the Bureau of Land

Tetra Tech

Management General Land Office Records web site, which include land patent and general land office survey data. As this area was not settled by Spain, land grant records were not reviewed.

In the review, SWCA found the area surrounding the site footprint 1 km (0.62 mile) has been subject to thirteen (13) cultural resource surveys, twelve (12) of which are qualifying. Three (3) previously recorded sites are located outside of the project area but within the 1,000-foot search buffer. The project area is entirely located NMSLO-managed lands and is covered by four (4) qualifying surveys conducted within the last ten years (NMCRIS Activity Numbers 136309, 137350, 137737, and 142675) and is located on previously disturbed land from oil and gas construction activities.

All remediation work will remain within the previously qualifying survey area and the approved existing disturbance. If cultural materials are identified during ground disturbing activities, work will be stopped and the NMSLO will be contacted. A copy of the ARMS letter is included in Appendix B.

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 NMAC. The Site is in an area of low karst potential.

According to the NMOSE reporting system, there are no water wells within ½ mile (800 meters) of the Site. There are two (2) wells within 1.05 miles (1,695 meters) of the Site with an average depth to groundwater of 140 feet below ground surface (bgs). There is one (1) USGS groundwater monitoring well located within 0.6 miles of the Site with a depth to groundwater of 774.99 feet bgs.

Due to the limit of groundwater monitoring wells within 800 meters of the site, a licensed well drilling subcontractor was onsite on July 19, 2023, to drill a groundwater determination borehole (DTW-1) to 55 feet bgs at the southeastern edge of the Lychee BWS State Com #001H lease pad, located approximately 315 feet east of the approximate release point. The borehole location is indicated on Figure 5. The borehole was temporarily set and screened using 2-inch PVC well materials: 20 feet of blank casing and 35 feet of 0.010" slotted screen. The borehole was left for 72 hours and checked for the presence of groundwater. The borehole was dry upon drilling, and no water was present in the well after 72 hours. The well screen and casing were removed, and the borehole was plugged with 3/8-inch bentonite chips. The site characterization data, boring log, and temporary well diagram are presented in Appendix C.

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, and 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 and in accordance with Table I of 19.15.29.12 NMAC, the RRALs for the Site are as follows:

Constituent	Site RRALs
Chloride	10,000 mg/kg
TPH (GRO+DRO+ORO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule* (19.15.29 NMAC) (September 6, 2019), the following reclamation requirements for surface soils (0-4 feet bgs) outside of active oil and gas operations are as follows:

Constituent	Reclamation Requirement
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg
BTEX	50 mg/kg

INITIAL SITE ASSESSMENT AND BBC WORK PLAN

Based on information provided by ConocoPhillips, BBC International Incorporated (BBC) was initially contracted to mobilize to the release Site, map the extent and sample the release footprint and the surrounding vicinity. Based on the initial extent provided by BBC, the release area footprint was mapped as approximately 4,800 square feet of lease pad and pastureland.

On July 6 and 9, 2018, BBC installed eight (8) borings (SP-1 through SP-8) within the release footprint to a maximum depth of 3 ft bgs. Eight borings were completed (North, East, South, West, North 2, East 2, South 2, West 2) in the cardinal directions to establish horizontal delineation. Additionally, BBC installed three (3) borings (SP1 through SP3) within the lined area to a depth of 2 feet bgs on December 5, 2018. Boring locations from the July and December 2018 sampling event are shown on Figure 3.

A total of forty-nine (49) samples were collected from the sample locations and transferred under chain of custody by Cardinal Laboratories (Cardinal). All soil samples were analyzed for chloride via Method SM4500Cl-B. Selected samples were analyzed for TPH via Method 8015 Modified and BTEX via Method 8021B.

Based on the results of the July and December 2018 sampling events, BBC prepared a Delineation Work Plan. This work plan proposed to remediate areas in the pastureland to the west to a depth of 1.5 feet bgs and the lease pad area to the east to a depth of 2.5 feet bgs. Sidewall and bottom confirmation samples were proposed to be collected at no greater than 50-foot intervals within the excavated areas. The estimated volume of material proposed to be remediated was approximately 80 cubic yards. As part of the work plan, BBC requested that the area inside the lined facility be deferred until decommissioning of the facility. Photographic documentation was not provided in the Delineation Workplan.

The Delineation Workplan completed by BBC was submitted to NMOCD through CentreStack by COG in 2018. Via the Internal Manual Incident File Supporting Documentation (ENV) (IM-BNF) review by NMOCD, the Delineation Workplan was approved by Brittany Hall via email on Monday November 28, 2022, with the following comments:

- Remediation plan approved with the condition that the remediation meets 19.15.29.12 and 19.15.29.13 NMAC.
- Lined facility area deferral request is denied. Delineation, both vertically and horizontally, in this area is incomplete. Delineation vertically and horizontally must be completed to the most stringent standards of Table I in 19.15.29.12 NMAC.
- 1RP-5077 closed. Refer to incident #nOY1815234060 in all future communications.
- Submit a complete closure and deferral report through the OCD Permitting website by 3/3/2023.

A 90-day extension request to June 3, 2023, was approved in an email dated March 22, 2023. Figure 3 shows the initial release extent and the 2018 soil boring locations as depicted in the BBC Workplan. A copy of the BBC Delineation Workplan is available on the NMOCD online incident files.

ADDITIONAL SITE ASSESSMENT AND SAMPLING RESULTS

Based on the lapse of time, Tetra Tech was contracted by COPC to conduct additional assessment activities at the site prior to the NMOCD approval. In September 2022, Tetra Tech personnel conducted a site visit on behalf of ConocoPhillips. No obvious signs of staining nor residual impact on the lease pad and the adjacent pastureland were observed. Photographic documentation of the visual Site inspection is included in Appendix D.

In October 2022, Tetra Tech personnel returned to the Site to conduct a soil sampling event to determine if the site remained impacted at concentrations noted by BBC. Twenty-five (25) borings (AH-22-1 through AH-22-25) were installed using a hand auger within and around the release extent to depths ranging from 1 to 3 feet bgs to confirm vertical and horizontal delineation, as depicted in Figure 4. No sampling was conducted in the interior of the lined containment as it would destroy the liner integrity. Thus, no discrete samples were collected.

A total of twenty-eight (28) samples were collected from the twenty-five (25) borings and submitted to Cardinal Laboratories to be analyzed for chlorides via SM4500Cl-B, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B.

Results from the October 2022 soil sampling event are summarized in Table 2. The analytical results associated with interior boring locations AH-22-14, AH-22-15, AH-22-16 and AH-22-19 exceeded the reclamation requirement for TPH (100 mg/kg) in surface soils (0-4 feet bgs) outside of active oil and gas operations. In addition, AH-22-19 exceeded the reclamation requirements for chloride (600 mg/kg). All other analytical results from the October 2022 sampling event were below Site RRALs and reclamation requirements in surface soils outside of active oil and gas operations.

Results of the additional assessment indicated that the release footprint provided by BBC no longer appears to reflect current site conditions. This discrepancy, given the age of the release, may be due to rain, sheet flow and/or natural attenuation which has condensed the release footprint over time. The release extent observed by Tetra Tech is presented in Figures 4 and 5.

2023 REVISED REMEDIATION WORK PLAN

Based on the conditions of the NMOCD approval and the additional assessment completed in October 2022, Tetra Tech prepared a Revised Release Characterization and Remediation Work Plan dated August 18, 2023 on behalf of ConocoPhillips. In this report, ConocoPhillips proposed to remove the remaining impacted material in the release footprint to a depth of 1 to 3 feet bgs or until a representative sample from the walls and bottom of the excavation is below the RRALs. This report included a deferral request for the lined area of the facility with TPH concentrations greater than the Site RRAL of 100 mg/kg be deferred until facility deconstruction.

The work plan was approved in an email dated September 13, 2023, with the following conditions:

- Remediation plan and sampling plan approved.
- Deferral denied. Per the BBC workplan "When the release occurred the pressure from the ruptured line punctured the liner causing produced water to remain under the liner and then allowed fluids to escape outside of the lined facility onto the pad and into the pasture." Per 19.15.29.11 A.(5)(b) NMAC the entire release will need to be delineated horizontally and vertically.
- Per 19.15.29.12 C.(2) NMAC a deferral may be granted as long the contamination is fully delineated.
- A variance of any requirement of 19.15.29 NMAC can be requested. A variance request will need
 to include a statement that explains the need of the variance and a detailed demonstration that the
 variance will provide equal or better protection of freshwater, public health, and the environment.
- Submit a complete report through the OCD Permitting website by 12/13/2023.

Additionally, during a meeting with the NMOCD on September 21, 2023, the NMOCD agreed that a variance could be requested with additional horizontal locations to the north and south of the tank battery. In the call, Tetra Tech proposed to install one horizontal delineation location to the south and one to the north while heavy equipment was onsite during the remedial activities. The NMOCD agreed with this approach but did request that the sampling be completed to a depth of 4' to verify subsurface conditions. The NMOCD noted this information, with the variance request, could be submitted with the Remediation Closure Report.

A copy of the Revised Release Characterization and Remediation Work Plan is available on the NMOCD online incident files.

NMSLO CORRESPONDENCE

On September 22, 2023, Tetra Tech sent a request via email to the NMSLO for approval of the initiation of remedial activities at the Site. Tami Knight of the SLO Environmental Compliance Office (ECO) approved remediation activities at the Site via email on October 23, 2023. Documentation of associated regulatory correspondence is included in Appendix B.

REMEDIAL ACTIVITIES AND CONFIRMATION SAMPLING

From November 9 to November 21, 2023, Tetra Tech personnel were onsite to supervise the remedial activities proposed in the approved Revised Work Plan, including excavation, disposal, and confirmation sampling. Prior to confirmation sampling, on November 3, 2023, the NMOCD district office was notified via email in accordance with Subsection D of 19.15.29.12 NMAC. Documentation of associated regulatory correspondence is included in Appendix B.

The approximate release extent was updated based on a historical photograph provided by COPC, which depicts the extent of the release area south of the facility. This photograph is presented in Appendix D and the revised excavation area is shown on Figure 6. The areas within the release footprint above Site RRALs and/or reclamation requirements were excavated to depths ranging from 1 to 3 feet bgs. Due to safety concerns associated with three (3) subsurface pipelines that traverse the excavation area at approximately 4 feet bgs, the excavation above/immediately adjacent to the pipelines was extended to approximately 2 feet bgs. As indicated by the analytical results for sample location FS-1, the 2-foot excavation in this area above/adjacent to the pipelines was sufficient to remove impacted soil above RRALs. The historical data presented by BBC on the east side of the facility indicated impacts to 2' bgs on pad.

Although contemporaneous data indicated that these areas no longer exceeded the proposed limits, based on this historical data and in an abundance of caution, these areas were excavated to 2 feet bgs. Please note this area was not included in the approved Remediation Work Plan. This additional excavation was also completed to satisfy stipulations found within the MLSCO SUA. All excavated material was transported offsite for proper disposal. Approximately 120 cubic yards of material were transported to the R360 Halfway Facility in Hobbs, New Mexico. Copies of the waste manifests are included in Appendix F. Historical photographs of the release and from the excavated areas prior to backfill are provided in Appendix D.

Following excavation, confirmation floor and sidewall samples were collected and submitted for laboratory analysis to verify efficacy of remediation activities. Per NMOCD approval, confirmation samples were collected such that each discrete sample (sidewall and floor) was representative of no more than 400 square feet of excavated area. A total of six (6) confirmation floor samples and seven (7) confirmation sidewall samples were collected during remedial activities. Confirmation sidewall sample locations were categorized with the cardinal direction (N, E, S, W) followed by SW-#. Confirmation floor sample locations were labeled with "FS"-#. Excavated areas, depths and confirmation sample locations are indicated in Figure 6.

Collected confirmation samples were placed into laboratory-provided sample containers, transferred under chain-of-custody, and analyzed within appropriate holding times by Cardinal. The soil samples were analyzed for TPH (GRO+DRO+MRO) by EPA Method 8015M, BTEX by EPA Method 8021B, and chlorides by SM4500Cl-B. The analytical results were directly compared to the established Site RRALs and/or reclamation requirements to demonstrate compliance. All final confirmation soil samples (floor and sidewall) were below applicable cleanup levels for chloride, TPH and BTEX. The results of the November 2023 confirmation sampling events are summarized in Table 4. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E.

ADDITIONAL DELINEATION AND VARIANCE REQUEST

As noted above, during a meeting between COP, Tetra Tech and NMOCD on September 21, 2023, the NMOCD agreed that a variance could be requested with additional horizontal delineation locations to the north and south of the tank battery.

During remedial activities on November 9, 2023, two (2) trenches (T-1 and T-2) were installed to the north and south of the tank battery to a depth of 4' ft bgs. A total of six (6) samples were collected from the two

trenches and submitted to Cardinal Laboratories to be analyzed for chlorides via SM4500Cl-B, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix E. The two trench locations are indicated in Figures 4 and 5.

Results from the November 2023 soil sampling event are summarized in Table 3. All analytical results from the November 2023 sampling event were below Site RRALs and/or reclamation requirements. Additional horizontal delineation was achieved, per NMOCD request. Based on the results of the additional Site delineation and characterization, COP respectfully requests that further remediation of soils within the fenced area of the facility with TPH concentrations greater than the Site RRAL of 100 mg/kg be deferred until facility deconstruction.

Any additional excavation of the impacted area located inside the walled containment would cause a major facility deconstruction, in addition to creating safety risks associated with excavating near production equipment via aggressive excavation methods (i.e., backhoe/track hoe, excavators, hydraulic hammer, etc.). These aggressive activities pose a risk which could result in a potentially hazardous condition and/or property damage. A depth to groundwater boring was drilled and verified that groundwater is not present at 50 feet bgs or less and the remaining contamination does not pose a threat to freshwater, human health, or the environment. Given the established depth to groundwater determination, the soils in the lined area with TPH concentrations above Site RRALs of 100 mg/kg do not pose a threat to freshwater, human health, or the environment. 19.15.29.13 NMAC will be implemented when completing abandonment of the tank battery and the associated pipelines and equipment. The area requested for deferral is indicated in Figure 6

RECLAMATION ACTIVITIES

On November 17, 2023, Tetra Tech personnel were onsite to supervise the reclamation and restoration activities at the site. The land surface was recontoured to reflect the surroundings to the best extent practicable. Based on the soils at the site, the NMSLO Loamy Sites seed mix was used for seeding and planted in the amount specified in the pounds pure live seed (PLS) per acre. Photographic documentation of the excavated areas prior to and following reclamation activities are provided in Appendix G.

CONCLUSION

As described above, the facility is currently active. The remedial work completed was successful in removing impacted soils from the release footprint outside the deferral area. ConocoPhillips respectfully requests closure of the release based on the confirmation sampling results and remediation activities performed.

Final remediation and reclamation shall take place in accordance with 19.15.29.12 NMAC once the Site is no longer being used for oil and gas production. Thus, ConocoPhillips requests deferral of the remaining impacted soils associated with the NOY1815234060 within the fenced area of the facility. The completed C-141 forms are enclosed as Appendix A. If you have any questions concerning the remediation activities for the Site, please call me at (512) 560-9064 or Ryan at (832) 251-5161.

Sincerely,

Tetra Tech, Inc.

Lisbeth Chavira
Project Geoscientist

Ryan F. Carroll Senior Project Manager

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CC:

Mr. Ike Tavarez, RMR - ConocoPhillips

LIST OF ATTACHMENTS

Figures:

- Figure 1 Overview Map
- Figure 2 Site Location/Topographic Map
- Figure 3 Approximate Release Extent and Initial Assessment (BBC International)
- Figure 4 Additional Assessment and Inferred Release Extent (Tetra Tech)
- Figure 5 Additional Assessment and Inferred Release Extent and DTW Location (Tetra Tech)
- Figure 6 Remediation Extent and Confirmation Sample Locations

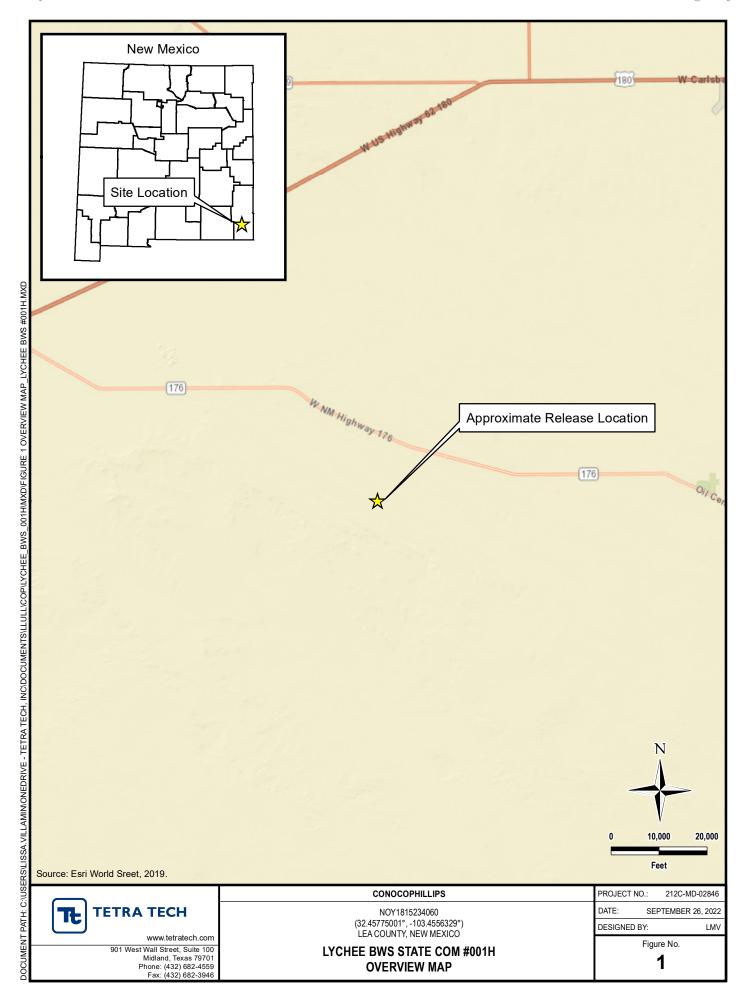
Tables:

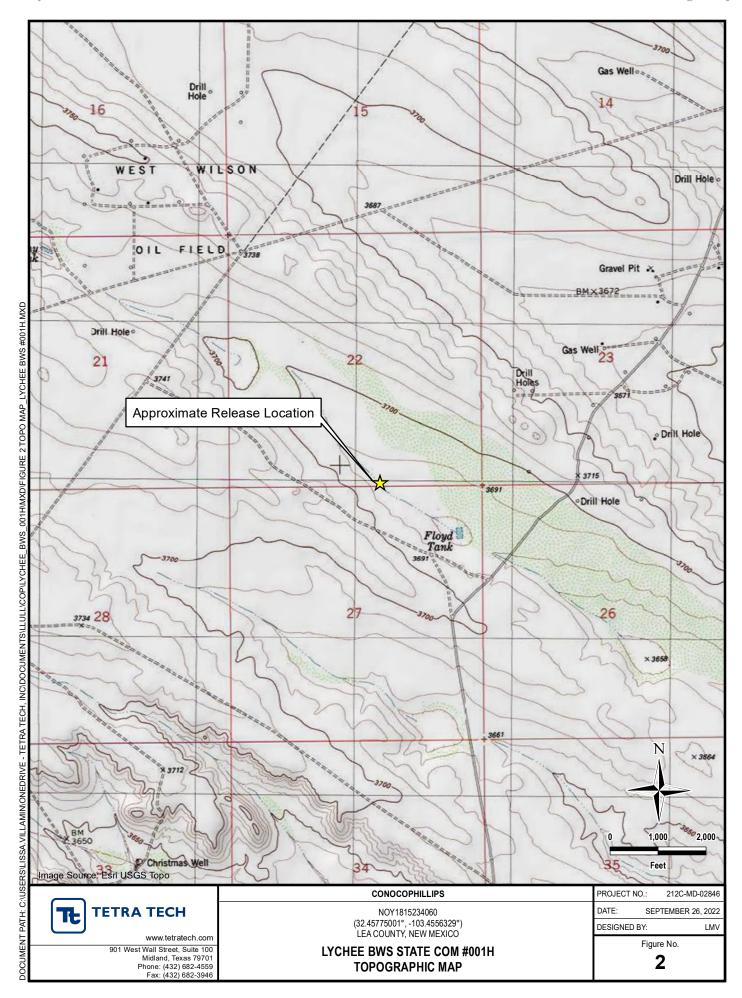
- Table 1 Summary of Analytical Results BBC Soil Assessment (2018)
- Table 2 Summary of Analytical Results Tetra Tech Additional Soil Assessment
- Table 3 Summary of Analytical Results Confirmation Sampling

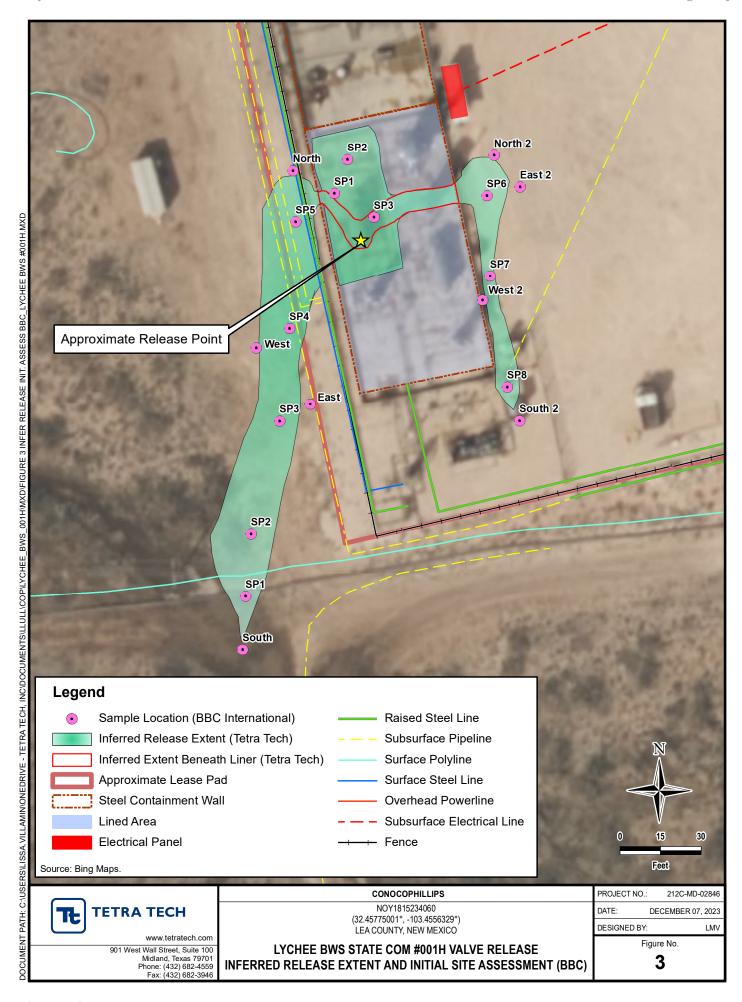
Appendices:

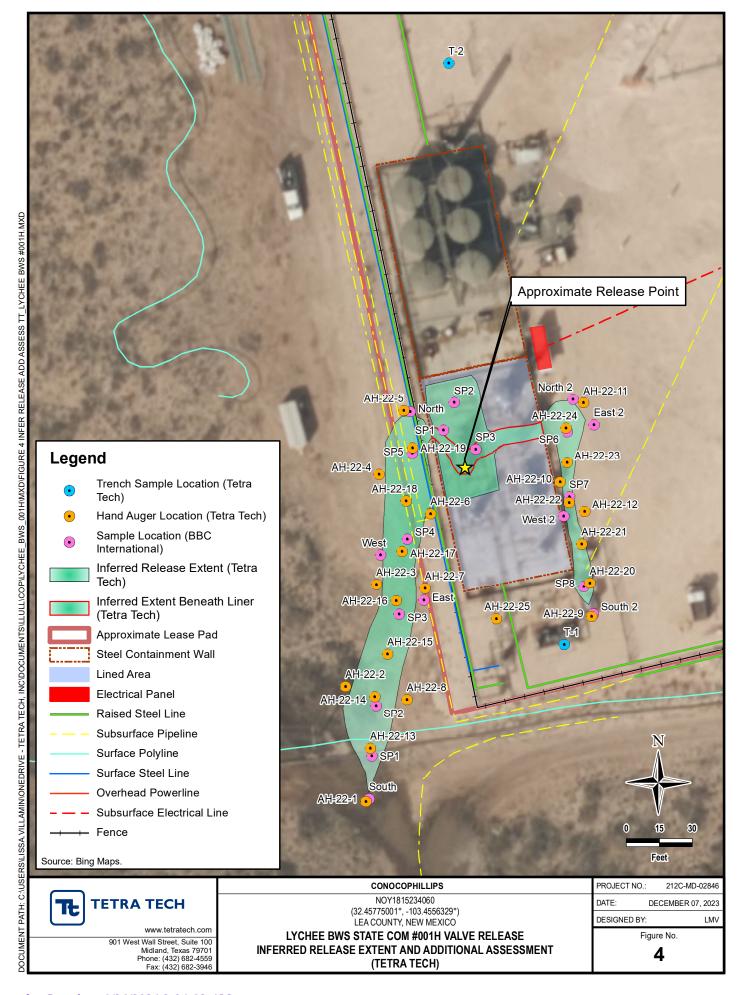
- Appendix A C-141 Forms
- Appendix B Regulatory Correspondence/ARMS Letter
- Appendix C Site Characterization
- Appendix D Photographic Documentation
- Appendix E Laboratory Analytical Data
- Appendix F Waste Manifests
- Appendix G Seed Mixture Details

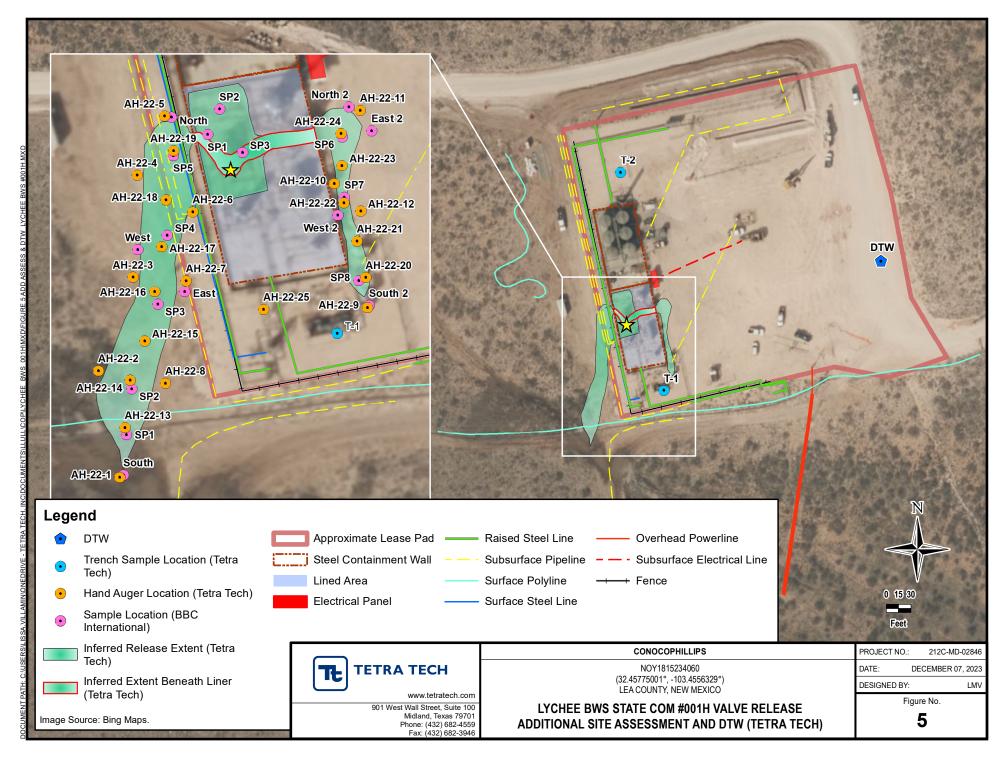
FIGURES

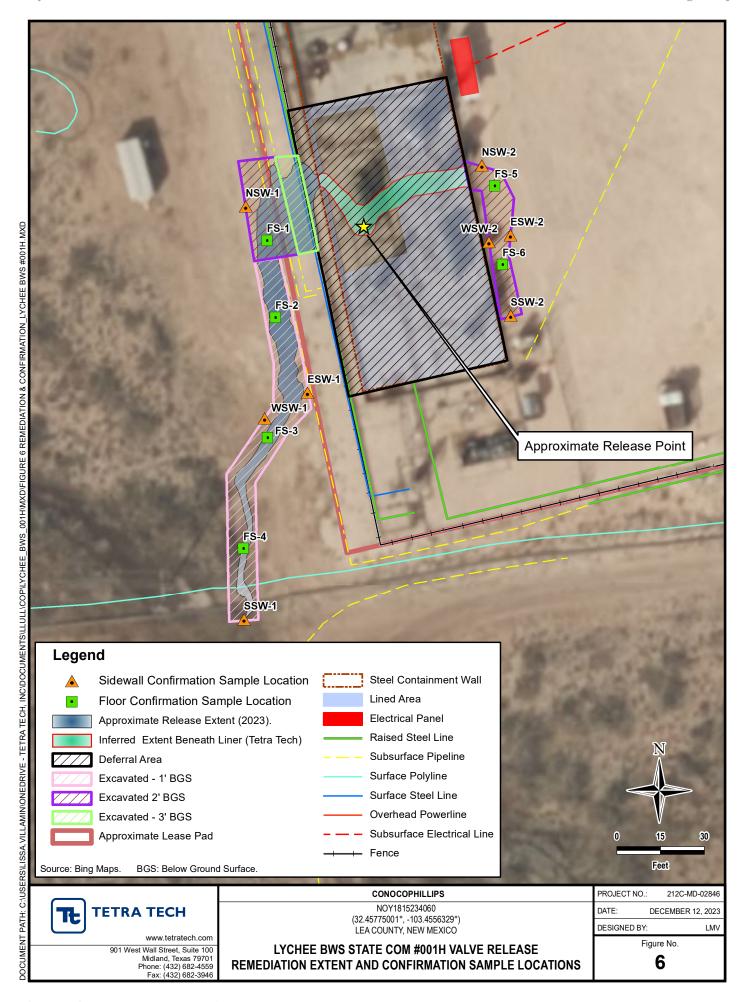












TABLES

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TABLE 1

SUMMARY OF ANALYTICAL RESULTS

2018 SOIL ASSESSMENT - 1RP-5077 / NOY1815234060

CONOCOPHILLIPS

LYCHEE BWS STATE COM #001H VALVE RELEASE

LEA COUNTY, NM

									BTEX	2									TPH ³			
Committe ID	Committe Body	Sample Depth	Chlorid	e ¹	B		Talasa		Fals alls and		T-4-LV-1		Total B	-EV	GRO		DRO		EXT DR	10	ТРН	Total TPH
Sample ID	Sample Date				Benzen	ie	Toluei	ne	Ethylben	zene	Total Xyl	enes	I Otal B	EX	C ₆ - C ₁	10	> C ₁₀ - (C ₂₈	> C ₂₈ - (C ₃₆	(GRO + DRO)	(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	mg/kg
		SURFACE	2,200		< 0.100		0.998		1.32		4.34		6.66		187		35,000		7,650		35,187	42,837
SP-1	7/6/2018	1	96.0		< 0.050		< 0.050		0.175		0.350		0.526		36.9		1,470		238		1,507	1,745
51 1	770/2010	2	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-
		3	176		NA		NA		NA		NA		NA		NA		NA		NA		NA	NA
		SURFACE	3,200		< 0.100		0.773		0.992		3.73		5.49		148		41,100		8,990		41,248	50,090
SP-2	7/6/2018	1	128		< 0.050		0.083		0.362		0.769		1.21		96.2		3,210		503		3,306	3,809
	1,1,2,2020	2	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		30.4		< 10.0		30.4	30.4
		3	160		NA		NA		NA		NA		NA		NA		NA		NA		NA	NA
		SURFACE	1,920		< 0.050		0.378		0.654		2.49		3.52		108		34,200		8510	QM-07, QR- 03	34,308	42,818
SP-3	7/6/2018	1	112		< 0.050		< 0.050		0.246		0.62		0.866		36.3		2,330		387		2,366	2,753
5. 5	7,0,2010	2	160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		20.1		< 10.0		20.1	20.1
		3	176		NA		NA		NA		NA		NA		NA		NA		NA		NA	NA
		SURFACE	2,200		< 0.100		0.646		0.926		3.55		5.12		141		42,000		9,440		42,141	51,581
SP-4	7/6/2018	1	96.0		< 0.050		< 0.050		0.254		0.546		0.818		61.6		2,400		389		2,462	2,851
31-4		2	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		29.3		< 10.0		29.3	29.3
		3	160		NA		NA		NA		NA		NA		NA		NA		NA		NA	NA
		SURFACE	1,460		< 0.050		0.407		0.643		2.68		3.73		129		43,700		9,720		43,829	53,549
SP-5	7/6/2018	1	96.0		< 0.050		< 0.050		0.305		0.647		0.953		55.4		2,460		390		2,515	2,905
31 3	770/2010	2	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		37.8		11.7		37.8	49.5
		3	160		NA		NA		NA		NA		NA		NA		NA		NA		NA	NA
		SURFACE	7,600		< 0.100		0.988		2.12		8.56		11.7		202		17,500		3,510		17,702	21,212
SP-6	7/9/2018	1	2,200		< 0.200		0.443		2.08		4.80		7.33		377		4,770		691		5,147	5,838
5. 0	77572010	2	1,230		< 0.050		0.061		0.380		1.43		1.87		64.5		1,260		188		1,325	1,513
		3	80.0		NA		NA		NA		NA		NA		NA		NA		NA		NA	NA
		SURFACE	13,300		< 0.100		1.23		1.67		7.29		10.2		150		18,000		3,580		18,150	21,730
SP-7	7/9/2018	1	2,200		< 0.200		0.638		3.64		12.6		16.9		433		4,470		653		4,903	5,556
5. ,	77572010	2	1,250		< 0.050		< 0.050		0.226		0.853		1.08		47.4		1,430		238		1,477	1,715
		3	96.0		NA		NA		NA		NA		NA		NA		NA		NA		NA	NA
		SURFACE	15,000		< 0.050		0.998		1.29		6.12		8.41		133		17,900		3,560		18,033	24,593
SP-8	7/9/2018	1	2,360		< 0.050		0.526		3.21		10.5		14.2		488		5,220		740		5,708	6,448
51 0	7/3/2010	2	1,300		< 0.050		0.066		0.325		0.716		1.11		60.8		1,490		229		1,551	1,780
		3	96.0		NA		NA		NA		NA		NA		NA		NA		NA		NA	NA

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TABLE 1

SUMMARY OF ANALYTICAL RESULTS

2018 SOIL ASSESSMENT - 1RP-5077 / NOY1815234060

CONOCOPHILLIPS

LYCHEE BWS STATE COM #001H VALVE RELEASE

LEA COUNTY, NM

									ВТЕХ	2									TPH ³			
Sample ID	Sample Date	Sample Depth	Chloric	ie¹	Benzer	10	Toluer		Ethylben	zono.	Total Xyl	nnor	Total B	EV	GRO		DRO		EXT DI	RO	ТРН	Total TPH
Sample 15	Sample Date				Delizei	ic	Toluei	ic	Ethylben	zene	Total Ayı	iles	Total B	LA	C ₆ - C	10	> C ₁₀ - 0	C ₂₈	> C ₂₈ -	C ₃₆	(GRO + DRO)	(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	mg/kg
NORTH	7/9/2022	-	160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-
EAST	7/9/2022	-	128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-
SOUTH	7/9/2022	-	176		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	÷
WEST	7/9/2022	-	128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-
NORTH 2	7/9/2022	-	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-
EAST 2	7/9/2022	-	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-
SOUTH 2	7/9/2022	-	112		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-
WEST 2	7/9/2022	-	96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-
		SURFACE	1,040		0.237		5.36		< 0.050		16.6		22.2		462		3,540		619		4,002	4,621
SP-1	12/5/2018	1	3,000		< 0.050		0.115		< 0.050		0.666		0.780		22.4		379		92.7		401	494
		2	912		< 0.050		0.176		< 0.050		0.958		1.13		31.1		814		166		845.1	1,011
	Ī	SURFACE	3,200	QM-07	< 0.500		15.7		12.8		59.2		87.7		977		6,010		957		6,987	7,944
SP-2	12/5/2018	1	3,600		2.91		60.8		45.7		121		230		1380		5,730		866		7,110	7,976
		2	2,720		< 0.050		1.12		1.66		6.57		9.36		153		1,780		331		1,933	2,264
		SURFACE	5,040		3.04		28.2		12.2		47.4		101		1,670		11,800		2,020		13,470	15,490
SP-3	12/5/2018	1	3,480		0.672		23.7		21.3		88.3		134		1,240		5,510		820		6,750	7,570
		2	4,400		0.122		5.53		7.64		28.2		41.5		562		3,790		605		4,352	4,957

NOTES:

ft. Fee

bgs Below ground surface

ppm Parts per million

mg/kg Milligrams per kilogram
NA Sample not analyzed

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

Method 8021B
 Method 8015M

QUALIFIERS:

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted

based on acceptable LCS

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix

interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

Received by OCD: 1/10/2024 1:07:07 PM

TABLE 2

SUMMARY OF ANALYTICAL RESULTS

OCTOBER 2022 SOIL ASSESSMENT- (NOY1815234060)

CONOCOPHILLIPS

LYCHEE BWS STATE #001H VALVE RELEASE LEA COUNTY, NM

										BTEX	2									TPI	1 ³		
		Sample Depth	Field Screening Results	Chloric	lo ¹					BIEA						GRO		DRO		EXT D		Total TPH	
			Chloride	Cilionic		Benzer	ie	Toluen	e	Ethylben	zene	Total Xyl	enes	Total BTE	х	C ₆ - C ₁	0	> C ₁₀ - 0		> C ₂₈ -		(GRO+DRO+EXT DRO)	(GRO+DRO)
Sample ID	Sample Date	ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	mg/kg
		Closure Criteria for P Soils 0-4'		<600 mg	ı/kg	< 10 mg/	/kg	-		-	•			< 50 mg/k	<u>a</u>							<100 mg/kg	-
		Closure Criteria for S		<10,000 m	ng/kg	< 10 mg/	⁄kg	-		-				< 50 mg/k	g							<2,500 mg/kg	<1,000 mg/kg
AH-22-1	10/26/20222	0-1	96	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
AH-22-2	10/26/2022	0-1	77.9	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
AH-22-3	10/26/2022	0-1	50.6	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		58		16.5		74.5	58.0
AH-22-4	10/26/2022	0-1	40.4	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		12.7		<10.0		12.7	12.7
AH-22-5	10/26/2022	0-1	67.8	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
AH-22-6	10/26/2022	0-1	62.6	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
AH-22-7	10/26/2022	0-1	69.1	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
AH-22-8	10/26/2022	0-1	90.4	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
AH-22-9	10/26/2022	0-1	71.9	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
AH-22-10	10/26/2022	0-1	54.7	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		26.9		65.0		91.9	26.9
AH-22-11	10/26/2022	0-1	144	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
AH-22-12	10/26/2022	0-1	293	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
AH-22-13	10/26/2022	0-1	-	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
AR-22-13	10/26/2022	2-3	95.7	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
AH-22-14	10/26/2022	0-1	125	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		66.9		33.3		100.2	66.9
AH-22-15	10/26/2022	0-1	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<50.0		1,890		563		2453	1,890
AH-22-16	10/26/2022	0-1	-	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		209		85.5		294.5	209
AH-22-17	10/26/2022	0-1	53.6	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
AH-22-18	10/26/2022	0-1	75.4	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
AH-22-19	10/26/2022	0-1	-	1,140	S-06	<0.050		<0.050		<0.050		<0.150		<0.300		<50.0		14,100		3,710		17,810	14,100
711122 13	10/10/1011	2-2.5	-	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		974		216		1,190	974
AH-22-20	10/26/2022	0-1	152	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
AH-22-21	10/26/2022	0-1	159	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
AH-22-22	10/26/2022	0-1	358	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
AH-22-23	10/26/2022	0-1	1.44	1,630		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
AH-22-24	10/26/2022	0-1	529	272		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		2-3	183	32.0	<u> </u>	<0.050		<0.050		<0.050	<u> </u>	<0.150		<0.300		<10.0		<10.0		<10.0	<u> </u>	-	-
AH-22-25	10/26/2022	0-1	129	16.0		<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

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

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

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS: S-06

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

matrix interference's.

TABLE 3 SUMMARY OF ANALYTICAL RESULTS 2023 SOIL ASSESSMENT- NOY1815234060 CONOCOPHILLIPS LYCHEE BWS STATE #001H VALVE RELEASE LEA COUNTY, NM

10.1	5.29.12 NMAC Closure (Critoria for Coils Impas	ted by a Roles	asa /c E0 #\	Chlorid	es¹					ВТЕХ	!									TPI	d ³		
15.1	.5.25.12 NIVIAC CIOSUTE C	criteria for 30ils illipac	teu by a Relea	ase (2 30 It).	< 600 mg	g/kg	< 10 mg	/kg							< 50 mg	/kg	GRO		DRO	,	EXT D	PO	< 100 mg/kg	•
		Sample Depth	Field Screen	ning Results	Chlorie	40	Benzei	10	Toluer	ne	Ethylben	ene	Total Xyl	enes	Total B1	rex	dico		DIO	"	LAI D		Total TPH	GRO+DRO
Sample ID	Sample Date	Interval	Chlorides	PID	Cilion	16	Denize											C ₆ - C ₁₀		C ₂₈	> C ₂₈ -	C ₃₆	(GRO+DRO+EXT DRO)	GIIO I DIIO
		ft. bgs	pp	m	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	mg/kg
		0-1	374	-	64		<0.050		<0.050		<0.050		< 0.150		<0.300		<10.0		<10.0		<10.0		-	-
T-1	11/9/2023	2-3	218	-	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		3-4	86.9	-	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		0-1	111	-	32		<0.050		<0.050		<0.050		< 0.150		<0.300		<10.0		<10.0		<10.0		-	-
T-2	11/10/2023	2-3	156	-	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		3-4	145	-	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-

NOTES:

ft. Feet

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

bgs Below ground surface mg/kg Milligrams per kilogram

ilig/kg Willigrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

Method SM4500Cl-B
 Method 8021B

3 Method 8015M

TABLE 4 SUMMARY OF ANALYTICAL RESULTS SOIL REMEDIATION - NOY1815234060 CONOCOPHILLIPS

LYCHEE BWS STATE #001H VALVE RELEASE LEA COUNTY, NM

			Field Screen	ina Dasulka							BTEX	2								Т	PH ³		
Carrada IB	County Date	Sample Depth	rieid Screen	iing Kesuits	Chlorid	le¹	Benzei		Toluer		Ethylben		Total Xyl		Total B	TEV	GRO		DRO		EXT DI	RO	Total TPH
Sample ID	Sample Date		Chloride	PID				ie	Toluei	ie	Ethylben	zene	TOTAL AY	enes	TOTAL	IEX	C ₆ - C ₁	0	> C ₁₀ -	C ₂₈	> C ₂₈ -	C ₃₆	(GRO+DRO+EXT DRO)
		ft. bgs	pp	m	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
FS-1	11/14/2023	=	-	-	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
FS-2	11/14/2023	-	-	-	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
FS-3	11/14/2023	=	-	-	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
FS-4	11/14/2023	=	-	-	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
FS-5	11/17/2023	=	-	-	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
FS-6	11/17/2023	=	-	-	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
NSW-1	11/14/2023	=	-	-	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
NSW-2	11/17/2023	-	-	-	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
SSW-1	11/14/2023	=	-	-	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
SSW-2	11/17/2023	=	-	-	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
ESW-1	11/14/2023	-	-	-	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
ESW-2	11/17/2023	=	-	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
WSW-1	11/14/2023	=	-	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		÷
WSW-2	11/17/2023	-	-	-	16		<0.050		<0.050		<0.050		<0.150		< 0.300		<10.0		<10.0		<10.0		-

NOTES:

ft. Fee

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

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

Gold highlight represents soil horizons that were removed during deepening of excavation floors.

Green highlight represents soil intervals that were removed during horizontal expansion of excavation sidewalls.

^{*} These iterative samples are located to encompass the original sample location that triggered removal, with further excavation in each area indicated in ().

APPENDIX A C-141 Forms

Form C-141

Revised April 3, 2017

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

State of New Mexico Energy Minerals and Natural Resources

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr.

1220 S. St. Flan	cis Di., Saiiu	a 1°C, 19191 67505	,	Sa	anta F	e, NM 875	05			
			Rele	ease Notific	catio	n and Co	rrective A	ction		
						OPERAT		_	ial Report	Final Repor
Name of Co	mpany: C	OG Operatir	ng, LLC (OGRID #22913	37)	Contact:		ert McNeill	лат кероге	т плат керог
				nd, TX 79701		Telephone N		683-7443		
Facility Na	ne: Lyche	e BWS Stat	e Com #0	001H		Facility Typ	e: Tank Battery			
Surface Ow	ner: Sta	te		Mineral C	Owner:	State		API N	o. 30-025-42	445
				LOCA	ATIO	N OF REI	EASE			
Unit Letter	Section	Township	Range	Feet from the		n/South Line	Feet from the	East/West Line		County
О	22	21S	34E	200		South	1,980	East		Lea
			La	titude 32.4577	5001 L	ongitude -10)3.4556329 NA	D83		
				NAT	TURE	OF RELI	EASE			
Type of Rele	ase					Volume of	Release		Recovered	
		Oil & Produc	eed Water			20 bbl. – O	il Produced Water	15 bbl. =	- Oil — Produced W	ater
Source of Re	lease						lour of Occurrence		d Hour of Disc	
777 7 11		Valve Er	rosion			May 26, 20		May 26,	2018 6:30am	
Was Immedi	ate Notice (Yes [No Not R	eanired	If YES, To Olivia Yu -				
						Ryan Manı	n – SLO			
By Whom? I Was a Water							Iour May 26, 20 blume Impacting t			
was a water	course Read		Yes 🗵	No		II IES, VC	nume impacting t	ne watercourse.		
If a Watercon	ırse was Im	pacted, Descr	ibe Fully.*	*						
		F				RE	CEIVED			
								nt 9:24 am,	lun 01	2018
						Dy	Jiivia Tu e	it 3.24 am,	, Juli 01,	2010
Describe Cau	ise of Probl	em and Reme	dial Action	n Taken.*						
The release v	vas caused 1	by the water d	ump valve	eroding allowing	g fluid t	o form a hole	in the liner. The c	lump valve is bein	ng replaced and	the oil dump is
being inspect	ed for dama	age.								
Describe Are	a Affected	and Cleanup A	Action Tak	ten.*						
										oncho will have the
			ssible impa	act from the releas	se and v	we will present	t a remediation w	ork plan to the NN	MOCD for app	roval prior to any
significant re			iven above	is true and comp	lete to 1	the best of my	knowledge and u	nderstand that pur	rsuant to NMO	CD rules and
regulations a	ll operators	are required t	o report ar	nd/or file certain r	elease r	notifications ar	nd perform correc	tive actions for re	eleases which n	nay endanger
								eport" does not re eat to ground wate		
or the enviro	nment. In a	ddition, NMC	OCD accep					responsibility for		
federal, state	, or local la	ws and/or regu	ılations.							
							OIL CON	<u>SERVATION</u>	N DIVISIO	<u>N</u>
Signature:		Delinn Or	eant					ථ	7	
Printed Name	a•	DeAnn Gra				Approved by	Environmental S	pecialist:		
	<u>. </u>						6/1/2018			
Title:		HSE Admir	nistrative A	Assistant		Approval Dat	e: [57.772010	Expiration	n Date:	
E-mail Addre	ess:	agrant@coi	ncho.com			Conditions of			Attached	
Date: May 29	9, 2018		Pŀ	none: (432) 253-4	513	See atta	ched directive	ve.		-
* Attach Addi		ets If Necess		() 	- 1				1	

nOY1815234060

1RP-5077

pOY1815234776

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _5/26/2018_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number _1RP-5077__ has been assigned. Please refer to this case number in all future correspondence.

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

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

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before 7/1/2018__. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

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

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

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

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

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

Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us From: Dakota Neel

To: Ryan Mann; Yu, Olivia, EMNRD

Cc: Sheldon Hitchcock; Rebecca Haskell; Robert McNeill; DeAnn Grant; Billings, Bradford, EMNRD

Subject: (Notification) LYCHEE BWS STATE COM #001H (30-025-42445) 5-26-18

Date: Saturday, May 26, 2018 10:57:58 PM

Ms. Yu/Mr. Mann,

COG Operating LLC is reporting a release from the LYCHEE BWS STATE COM #001H (30-025-42445).

Release location: Unit O Section 22, Township 21S, Range 34E

The release occurred on May 26th, 2018.

Released: Approximately >25 barrels of produced water.

This release occurred within a lined facility and the area is being evaluated and a C-141 will be submitted. If you have any questions please don't hesitate to contact me.

Thanks,

Dakota Neel Concho Resources HSE Coordinator 432-215-2783

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of New Mexico

Incident ID	NOY1815234060
District RP	1RP-5077
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?	>100 (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 ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 well. 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	ls.

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: 1/10/2024 1:07:07 PM Form C-141 State of New Mexico Oil Conservation Division Page 4

Page 27 of 111

Incident ID	NOY1815234060
District RP	1RP-5077
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Title: Program Manager, Remediation Printed Name: Ike Tavarez Date: 8/18/23

Signature:	
email: ike.tavarez@conocophillips.com	Telephone: 432-685-2573
OCD Only	
Received by:	Date:

New Mexico

Incident ID	NOY1815234060
District RP	1RP-5077
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must b	e included in the plan.
 ✓ Detailed description of proposed remediation technique ✓ Scaled sitemap with GPS coordinates showing delineation poin ✓ Estimated volume of material to be remediated ✓ Closure criteria is to Table 1 specifications subject to 19.15.29. ✓ Proposed schedule for remediation (note if remediation plan tin 	12(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con-	nfirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around padeconstruction.	roduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: Ike Tavarez	Title: Program Manager, Remediation
Signature:	Date: 8/18/23
email: ike.tavarez@conocophillips.com	Telephone: 432-685-2573
och o L	
OCD Only	
Received by:	Date:
Approved With Attached Conditions of	Approval Denied Deferral Denied
Signature: Buttan Hall	Date: 09/13/2023

Received by OCD: 1/10/2024 1:07:07 PM Form C-141 State of New Mexico Page 5 Oil Conservation Division

	Page 29 of 111
Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

D. I. C. D. C. L. C. T. L. C. J. C. H. L. C. J.	
Remediation Plan Checklist: Each of the following items must b	e included in the plan.
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	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name:	Title:
Signature:	
email:	Telephone:
OCD Only	
Received by:	Date:
☐ Approved	Approval
Signature:	Date:

APPENDIX B Regulatory Correspondence/ARMS Letter

Chavira, Lisbeth

From: Knight, Tami C. <tknight@slo.state.nm.us>
Sent: Monday, October 23, 2023 3:22 PM

To: Carroll, Ryan; Llull, Christian

Cc: SLO Surface ECO

Subject: Conoco_Remediaton Plan Approval_Lychee BWS State Com #001H_NOY1815234060

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

Ryan

Documentation of proposed remediation actions for the well site identified as Lychee BWS State Com #001H, NMOCD Incident # NOY1815234060 was received from your office on September 22, 2023. The NMSLO Environmental Compliance Office (ECO) has reviewed the plan, and based on the information provided in the document received from your office, ECO has approved the remediation plan. ECO agrees with NMOCD's conditions of approval, and also encourages the application of a microbial agent to aid in the breakdown of residual hydrocarbons in the areas where mechanical remediation is not feasible. Please submit the remediation closure report to eco@slo.state.nm.us.

Thank you,

PLEASE SUBMIT WORKPLANS AND REPORTS TO ECO@SLO.STATE.NM.US

Tami Knight, CHMM



Environmental Specialist
SRD-Environmental
Compliance Office (ECO)
505.670.1638
New Mexico State Land Office
1300 W. Broadway Avenue, Suite A
Bloomfield, NM 87413
tknight@slo.state.nm.us
nmstatelands.org

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Chavira, Lisbeth

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Friday, November 3, 2023 3:05 PM

To: Chavira, Lisbeth

Cc: Carroll, Ryan; Hall, Brittany, EMNRD; Bratcher, Michael, EMNRD

Subject: RE: [EXTERNAL] Incident ID: nOY1815234060 - Confirmation Sampling

You don't often get email from shelly.wells@emnrd.nm.gov. Learn why this is important

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

 \triangle

Hi Lisbeth,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced

Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Chavira, Lisbeth < LISBETH.CHAVIRA@tetratech.com>

Sent: Friday, November 3, 2023 1:32 PM

To: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov> **Cc:** Carroll, Ryan < RYAN.CARROLL@tetratech.com>

Subject: [EXTERNAL] Incident ID: nOY1815234060 - Confirmation Sampling

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

Incident ID (n#) nOY1815234060 (Lychee BWS State Com #001H Valve Release)

To whom it may concern,

In accordance with Subsection D of 19.15.29.12 NMAC, the responsible party must verbally notify the appropriate division district office prior to conducting confirmation sampling.

Remediation activities of the release will begin Thursday, November 9, 2023.

Thus, on behalf of ConocoPhillips for the above referenced incident, Tetra Tech is duly providing this communication which serves as notification that final confirmation sampling will be conducted at this site **Thursday**, **November 9, 2023.**

NOTE: If you have any questions regarding this sampling schedule, please contact me.

Thank you,

Lisbeth Chavira | Staff Geoscientist

Direct Mobile +1 (512) 596-8201 Lisbeth.chavira@tetratech.com

Tetra Tech | Leading with Science® | OGA

8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | tetratech.com

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7770 Jefferson Street NE, Suite 410 Albuquerque, New Mexico 87109 Tel 505.254.1115 Fax 505.254.1116 www.swca.com

October 5, 2023

TO: Ethan Ortega, Division Director & Archaeologist, New Mexico State Land Office, Santa Fe, New

Mexico

FROM: SWCA Environmental Consultants

SUBJECT: Completion of an Archaeological Records Management Section (ARMS) Review for the Lychee BWS

State Com #001H Valve Release Remediation Project on New Mexico State Land Office (NMSLO) lands

in Lea County, NM

Company Ref No: None-Provided

PROJECT DESCRIPTION:

Tetra Tech, Inc. has requested that SWCA Environmental Consultants (SWCA) conduct an Archaeological Resources Management Section (ARMS) review for an inadvertent release in Lea County, New Mexico. The proposed project is lands managed by the New Mexico State Land Office (NMSLO) approximately 40.2 kilometers (25.0 miles) southwest of Hobbs, NM in T21S R34E, Section 22 (SESW) and T21S R34E, Section 27.

A literature and file search were conducted on September 28, 2023, using the New Mexico Cultural Resources Information System (NMCRIS) online database which included a review of known cultural resources, such as the built environment, archaeological sites, and State/National Register listed properties. Other sources reviewed include the BLM GLO Records web site, http://www.glorecords.blm.gov, which include land patent and general land office survey data. As this area was not settled by Spain, land grant records were not reviewed. The review was conducted for the Area of Potential Effect (APE) and 1 km (0.62 mile) surrounding the APE. The land the proposed project is located on is part of the June 20, 1910: New Mexico Enabling Act (36 Stat. 557) patented on October 7, 1919.

Recommendation:

The project area and surrounding 1 km (0.62 mile) have been subject to thirteen (13) cultural resource surveys, twelve (12) of which are qualifying. Three (3) previously recorded sites are located outside of the project area but within the 1k search buffer. The project area is entirely located on NMSLO-managed lands and is covered by four (4) qualifying surveys conducted within the last ten years (NMCRIS Activity Numbers 136309, 137350, 137737, and 142675) and is located on previously disturbed land from oil and gas construction activities. SWCA recommends the completion of an ARMS letter to satisfy the requirements of release remediation. All remediation work will remain within the previously qualifying survey area and the approved existing disturbance. If cultural materials are identified during ground disturbing activities, work must stop and the NMSLO must be contacted.

Information regarding the findings can be found in Tables 1-2 and Figure 1.

Archaeologist Paisley DeFreese

Attached: (1) Review Results, (1) ARMS Map



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Archaeological Resources Management Section (ARMS) Review Results

Table 1: Cultural surveys within 1 kilometer (0.62 mile) of proposed project.

NMCRIS No.	Performing Organization	Date of Investigation	Acres Surveyed 88.88	Sites Visited
32771	Pecos Archaeological Consultants	12/31/1990		0
132962	Boone Arch Svcs of NM	3/18/2015	60.45	0
136309	Boone Archaeological Consultants, LLC.	7/22/2016	20.19	0
137737	Boone Archaeological Consultants, LLC.	3/21/2017	14.04	0
137350	Lone Mountain Archaeological Services	9/15/2017	39,453.25	324
139333	Boone Archaeological Consultants, LLC.	11/13/2017	464.94	2
142675	Tetra Tech, Inc.	3/15/2019	52	0
142718	Lone Mountain Archaeological Services	3/22/2019	56.26	2
143639	SWCA Environmental Consultants	7/25/2019	7.6	0
144697	Boone Archaeological Consultants, LLC. 11/26/2019 2.47		2.47	0
145756	Boone Archaeological Consultants, LLC. 5/1/2020 14.09		0	
142944	SWCA Environmental Consultants 3/16/2020 433.68		1	
147756	Boone Archaeological Consultants, LLC.	4/7/2021	1.62	0

Table 1. Cultural resources within 1 kilometer (0.62 mile) of the proposed project area.

LA No.	Discovering NMCRIS No.	Site Type/Cultural Affiliation and Age	Eligibility	Relationship to APE
187302	137350	Artifact Scatter/Unknown Aboriginal (9500 B.C.–A.D. 1880)	Unevaluated (11/13/2017 HPD Log No. 106514)	Outside
187305	137350	Artifact Scatter/Unknown Aboriginal (A.D. 1100–1500)	Unevaluated (11/13/2017 HPD Log No. 106514)	Outside
193829	142718	Not Listed in NMCRIS	Not Entered in NMCRIS	Outside



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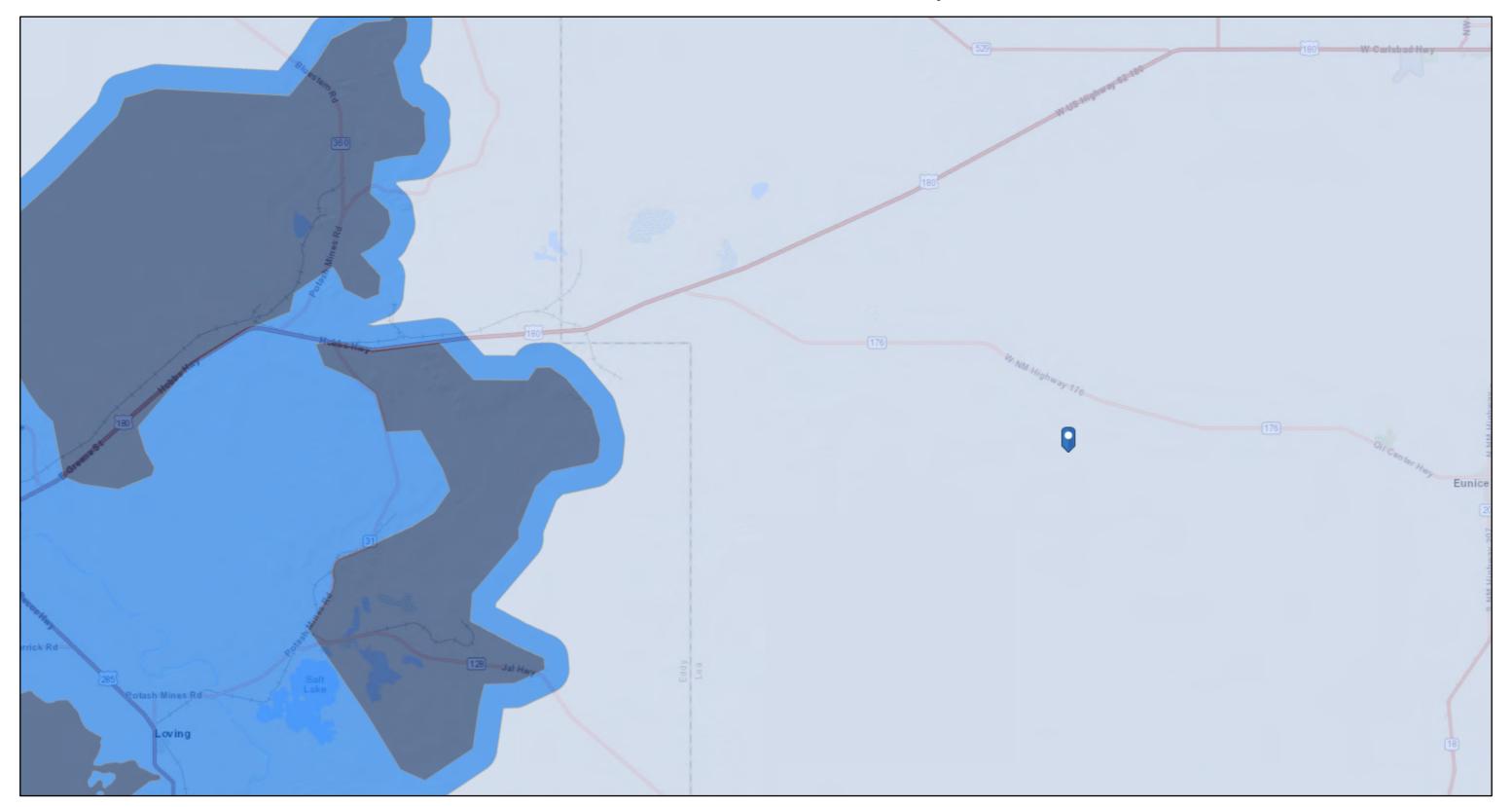
*Redacted

Figure 1. NMCRIS screenshot showing location of the proposed Lychee BWS State Com #001H Valve Release Remediation Project area (blue polygon) with 1 km (0.62 mile) buffer area. Previously conducted investigations are brown and yellow polygons, and previously recorded sites are orange and tan polygons.

APPENDIX C Site Characterization Data

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OCD Karst Potential Map



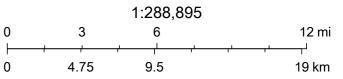


Karst Occurrence Potential



Medium

Low



BLM, OCD, New Mexico Tech, Bureau of Land Management, Esri, HERE, Garmin, NGA, USGS, NPS

Received by OCD: 1/10/2024 1:07:07 PM

OCD USGS Well Data Map

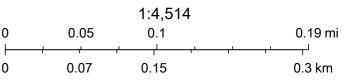


9/20/2022, 1:05:53 PM

USGS Historical GW Wells

Released to Imaging: 1/26/2024 9:34:02 AM

USGS Active Monitoring GW Wells



Esri, HERE, Garmin, GeoTechnologies, Inc., USGS, Maxar

212C-MD-02846	TE	TETRAT	ECH					LOG OF BOI	ring DTW		Page 1 of 1
Project Name: L	/chee BWS \$	State Co	m #00	1H							
Borehole Location:	GPS Coordinates	s: 32.4575	595°, -10	3.4551	01°	:	Surface Elevation	: 3694 ft			
Borehole Number:	DTW				Bor Dia	reho met	le er (in.):	Date Started:	7/19/2023	Date Finished:	7/19/2023
PE (bom)	(ppm)	ITENT (%)	ocf)	INDEX			While Drilling Remarks:		L OBSERVATION OON Completion of Dr		RY_ft
DEPTH (ft) OPERATION TYPE SAMPLE CHLORIDE FIELD SCREENING (DDM)		MOISTURE CONTENT (%)	DRY DENSITY (pcf)	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	МАТ	ERIAL DESCF	RIPTION	DEPTH (ft)	REMARKS
5 S Exsti	k PID	DW DW		PI	IW	6F	-SM- SAND: fine-grained -SM- SAND: fine-grained -SM- SAND: fine-grained, -SP- SAND: trace Caliche -SM- SAND: very fine-grained	e-grained, pad m Brown to dark b ed, with Caliche f EL (Caliche): Ligi Light brown to ta trace gravel-sized Brown, loose, dr fragments Light brown, ver ned	rown, dry, fine- to fragments ht gray to white, d	dry,2	
							\dry Bo	ottom of borehole	e at 55.0 feet.		
Sampler Types: Split Spoon Acetate Liner Types: Shelby Vane Shear Shelby Discrete Sample Sample Grab Sample Test Pit Operation Types: Mud Rotary Mud Rotary Wash Rotary Wash Rotary						Air Rotary Direct Push Core Barrel	arth data.	s an approximate	value obtained	from Google	



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

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

(R=POD has been replaced, O=orphaned,

(quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is closed)

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

	POD Sub-		Q	Q (Q						Depth	Depth	Water
POD Number	Code basin	County	64	16	4 Sec	Tws	Rng	Х	Υ	Distance	•	•	Column
CP 01066 POD1	CP	LE	4	3	2 28	21S	34E	643735	3591345 🌑	1614	210	140	70
CP 01069 POD1	СР	LE	2	1	4 28	21S	34E	643737	3591191 🌕	1698	210	140	70

Average Depth to Water: 140 feet

> Minimum Depth: 140 feet

140 feet Maximum Depth:

Record Count: 2

UTMNAD83 Radius Search (in meters):

Radius: 1700 Easting (X): 645110.91 Northing (Y): 3592189.94

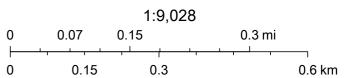
OCD Waterbodies Map



9/20/2022, 12:17:39 PM

OSW Water Bodys

OSE Probable Playas



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

ORelease To Imaging: 1/26/2024 9.94:02 AM

Received by OCD: 1/10/2024 1:07:07.PM National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway

> areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X Area with Flood Risk due to Levee Zone D

0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage

NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs

OTHER AREAS Area of Undetermined Flood Hazard Zone D

- - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLIL Levee, Dike, or Floodwall

> 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study **Jurisdiction Boundary** — --- Coastal Transect Baseline

FEATURES Hydrographic Feature Digital Data Available

OTHER

MAP PANELS

No Digital Data Available

Profile Baseline

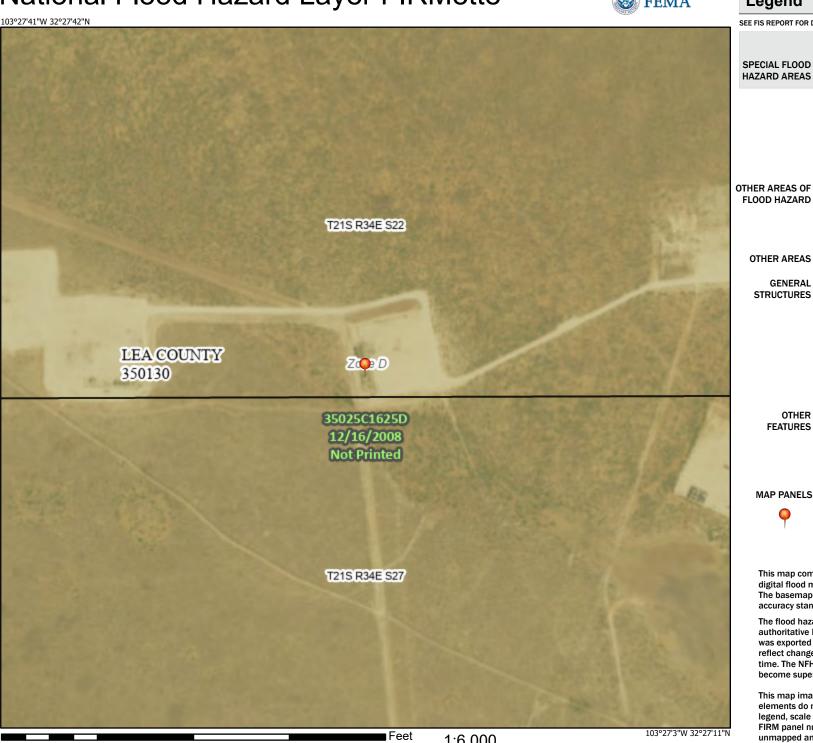
Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/5/2022 at 3:45 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



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APPENDIX D Photographic Documentation



TETRA TECH, INC. PROJECT NO. 212C-MD-02846	DESCRIPTION	View south. View of release extent.	1
	SITE NAME	ConocoPhillips Lychee BWS State Com #001 Valve Release	5/29/2018



TETRA TECH, INC. PROJECT NO. 212C-MD-02846	DESCRIPTION	Site Signage. Lychee BWS State Com #001 Valve Release Site.	2
	SITE NAME	ConocoPhillips Lychee BWS State Com #001 Valve Release	10/26/2022



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View south southwest. View of lease pad, production equipment and subsurface line.	3
212C-MD-02846	SITE NAME	ConocoPhillips Lychee BWS State Com #001 Valve Release	10/26/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02846	DESCRIPTION	View south. View of production equipment and subsurface line.	4
	SITE NAME	ConocoPhillips Lychee BWS State Com #001 Valve Release	10/26/2022



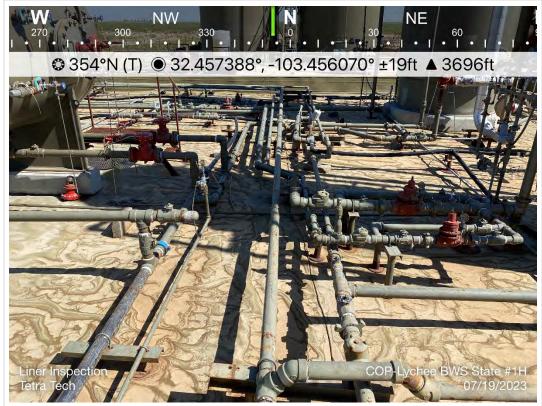
TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View south. View of approximate release. Vegetation present.	5
212C-MD-02846	SITE NAME	ConocoPhillips Lychee BWS State Com #001 Valve Release	10/26/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02846	DESCRIPTION	View north. Approximate release area. View of surface lines.	6
	SITE NAME	ConocoPhillips Lychee BWS State Com #001 Valve Release	10/26/2022



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View north. View of approximate release extent.	7
212C-MD-02846	SITE NAME	ConocoPhillips Lychee BWS State Com #001 Valve Release	10/26/2022



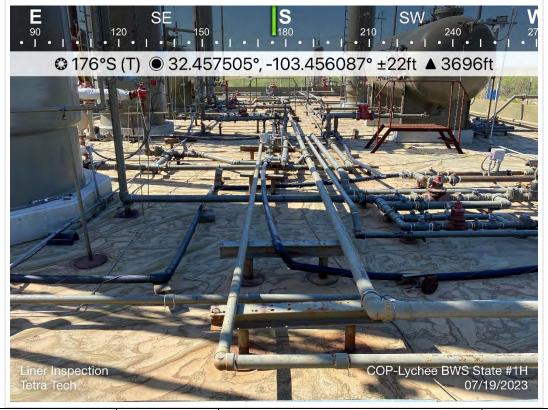
TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View north. View of approximate release extent inside facility. View of multiple steel lines. Liner integrity intact.	8
212C-MD-02846	SITE NAME	ConocoPhillips Lychee BWS State Com #001 Valve Release	7/19/2023



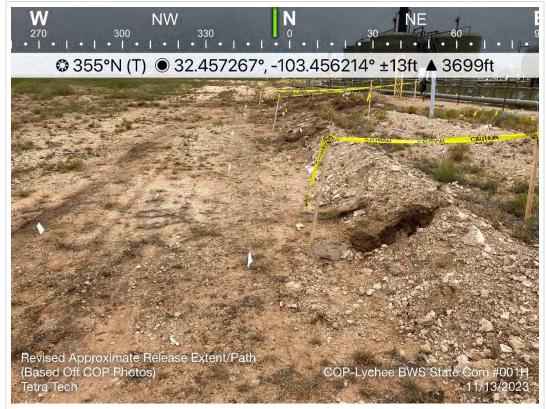
TETRA TECH, INC. PROJECT NO. 212C-MD-02846	DESCRIPTION	View northwest. View of approximate release extent inside facility. View of production equipment.	9
	SITE NAME	ConocoPhillips Lychee BWS State Com #001 Valve Release	7/19/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02846	DESCRIPTION	View east. View of approximate release extent inside facility. View of multiple steel lines. Liner integrity intact.	10
	SITE NAME	ConocoPhillips Lychee BWS State Com #001 Valve Release	7/19/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View south. View of approximate release extent inside facility. View of multiple steel lines. Liner integrity intact.	11
212C-MD-02846	SITE NAME	ConocoPhillips Lychee BWS State Com #001 Valve Release	7/19/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View north. View of subsurface lines and approximate release extemt.	12
212C-MD-02846	SITE NAME	ConocoPhillips Lychee BWS State Com #001 Valve Release	11/13/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View south. View of subsurface lines within the release extent.	13
212C-MD-02846	SITE NAME	ConocoPhillips Lychee BWS State Com #001 Valve Release	11/13/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View north. View of remedial activities.	14
212C-MD-02846	SITE NAME	ConocoPhillips Lychee BWS State Com #001 Valve Release	11/16/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View north. View of remedial activities.	15
212C-MD-02846	SITE NAME	ConocoPhillips Lychee BWS State Com #001 Valve Release	11/16/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View north northeast. View of remedial activities.	16
212C-MD-02846	SITE NAME	ConocoPhillips Lychee BWS State Com #001 Valve Release	11/16/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View north. View of remedial activities.	17
212C-MD-02846	SITE NAME	ConocoPhillips Lychee BWS State Com #001 Valve Release	11/16/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View south southwest. View of remedial activities.	18
212C-MD-02846	SITE NAME	ConocoPhillips Lychee BWS State Com #001 Valve Release	11/20/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View south. View of remedial activities.	17
212C-MD-02846	SITE NAME	ConocoPhillips Lychee BWS State Com #001 Valve Release	11/20/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View southeast. View of backfilled area. View of reclamation activities.	18
212C-MD-02846	SITE NAME	ConocoPhillips Lychee BWS State Com #001 Valve Release	11/17/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View northwest. View of backfilled area. View of reclamation activities.	17
212C-MD-02846	SITE NAME	ConocoPhillips Lychee BWS State Com #001 Valve Release	11/17/2023

APPENDIX E Laboratory Analytical Data



November 10, 2023

CHRISTIAN LLULL
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: LYCHEE BWS STATE COM #001H RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 11/09/23 12:50.

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

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

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

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 11/09/2023 Sampling Date: 11/09/2023

Reported: 11/10/2023 Sampling Type: Soil

Project Name: LYCHEE BWS STATE COM #001H RELEA: Sampling Condition: Cool & Intact
Project Number: 212C-MD-02846 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: LEA COUNTY, NM

mg/kg

Sample ID: T - 1 (0-1') (H236150-01)

BTEX 8021B

B 1 EX COLL B	9/	wa .	Analyze	a 2 y : 3 : 1					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.06	103	2.00	0.844	
Toluene*	<0.050	0.050	11/10/2023	ND	2.17	109	2.00	1.72	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	0.335	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.53	109	6.00	0.190	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/10/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	180	90.0	200	4.09	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	182	91.0	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					
Surrogate: 1-Chlorooctane	92.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.2	% 49.1-14	8						

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Celeg D. Keine



Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 11/09/2023 Sampling Date: 11/09/2023

Reported: 11/10/2023 Sampling Type: Soil

Project Name: LYCHEE BWS STATE COM #001H RELEA! Sampling Condition: Cool & Intact
Project Number: 212C-MD-02846 Sample Received By: Tamara Oldaker

Project Location: LEA COUNTY, NM

Sample ID: T - 1 (2'-3') (H236150-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.06	103	2.00	0.844	
Toluene*	<0.050	0.050	11/10/2023	ND	2.17	109	2.00	1.72	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	0.335	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.53	109	6.00	0.190	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/10/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	180	90.0	200	4.09	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	182	91.0	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					
Surrogate: 1-Chlorooctane	96.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 11/09/2023 Sampling Date: 11/09/2023

Reported: 11/10/2023 Sampling Type: Soil

Project Name: LYCHEE BWS STATE COM #001H RELEA! Sampling Condition: Cool & Intact
Project Number: 212C-MD-02846 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: LEA COUNTY, NM

Sample ID: T - 1 (3'-4') (H236150-03)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.17	109	2.00	0.794	
Toluene*	<0.050	0.050	11/10/2023	ND	2.17	109	2.00	0.692	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.14	107	2.00	0.955	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.65	111	6.00	0.763	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/10/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2023	ND	186	92.8	200	1.63	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	178	88.9	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 11/09/2023 Sampling Date: 11/09/2023

Reported: 11/10/2023 Sampling Type: Soil

Project Name: LYCHEE BWS STATE COM #001H RELEA! Sampling Condition: Cool & Intact
Project Number: 212C-MD-02846 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: LEA COUNTY, NM

Sample ID: T - 2 (0-1') (H236150-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.17	109	2.00	0.794	
Toluene*	<0.050	0.050	11/10/2023	ND	2.17	109	2.00	0.692	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.14	107	2.00	0.955	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.65	111	6.00	0.763	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/10/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2023	ND	186	92.8	200	1.63	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	178	88.9	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						
Surrogaic. 1 Cinorobetauceane	102	70 77.1 17	•						

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Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 11/09/2023 Sampling Date: 11/09/2023

Reported: Sampling Type: Soil 11/10/2023

Project Name: LYCHEE BWS STATE COM #001H RELEA! Sampling Condition: Cool & Intact Project Number: 212C-MD-02846 Sample Received By: Tamara Oldaker

Project Location: LEA COUNTY, NM

Sample ID: T - 2 (2'-3') (H236150-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.01	101	2.00	3.53	
Toluene*	<0.050	0.050	11/10/2023	ND	2.10	105	2.00	4.41	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.11	106	2.00	5.26	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.28	105	6.00	4.76	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 %	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/10/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2023	ND	186	92.8	200	1.63	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	178	88.9	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					
Surrogate: 1-Chlorooctane	101 %	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.0	% 49.1-14	8						

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11/09/2023

Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 11/09/2023 Sampling Date:

Reported: Sampling Type: Soil 11/10/2023

Fax To:

Project Name: LYCHEE BWS STATE COM #001H RELEA! Sampling Condition: Cool & Intact Project Number: 212C-MD-02846 Sample Received By: Tamara Oldaker

Project Location: LEA COUNTY, NM

Sample ID: T - 2 (3'-4') (H236150-06)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.01	101	2.00	3.53	
Toluene*	<0.050	0.050	11/10/2023	ND	2.10	105	2.00	4.41	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.11	106	2.00	5.26	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.28	105	6.00	4.76	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/10/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2023	ND	186	92.8	200	1.63	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	178	88.9	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech Project Manager: Christian LIull Address: 8911 Capital o Texas Hwy, Suite 2310 City: Austin Phone #: (512)565-0190 Fax #:	Project #: 212C-MD-02846	Project Name: Lychee BWS State Com #00 In Neisease	Project Location: Lea County, New Mexico	Sampler Name: Colton Bickerstaff	OR LAB LOSE CHAY	Lab I.D.	177	CSIOISU	/ T-1 (0-1")	2 1-1 (2-3)	× 11-1 (3-4)	3	_	133:			T-2 (3-4) T-2 (3-4) T-2 (3-4) T-2 (3-4)	T-2 (3-4')	T.2 (2'-3') T.2 (2'-3') T.2 (3'-4') T.2 (3'-4') T.2 (3'-4') T.2 (3'-6') T.3 (3'-6') T.4 (3'-6') T.5 (T.2 (2'-3') T.2 (2'-3') T.2 (3'-4')	T-2	T.2 (2'-3') (T.2 (2'-3') (T.2 (3'-4') (T.
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Page 9 of 9



November 15, 2023

CHRISTIAN LLULL
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: LYCHEE BWS STATE COM #001H RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 11/14/23 15:16.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 11/14/2023 Sampling Date: 11/14/2023

Reported: 11/15/2023 Sampling Type: Soil

Project Name: LYCHEE BWS STATE COM #001H RELEA! Sampling Condition: Cool & Intact Project Number: 212C-MD-02846 Sample Received By: Tamara Oldaker

Project Location: LEA COUNTY, NM

Sample ID: FS - 1 (H236229-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.90	95.0	2.00	8.42	
Toluene*	<0.050	0.050	11/15/2023	ND	1.95	97.6	2.00	1.51	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.08	104	2.00	1.19	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.31	105	6.00	2.46	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/15/2023	ND	448	112	400	3.64	
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	11/15/2023	ND	183	91.5	200	0.0371	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	199	99.5	200	0.0131	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	99.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	6 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 11/14/2023 Sampling Date: 11/14/2023

Reported: 11/15/2023 Sampling Type: Soil

Project Name: LYCHEE BWS STATE COM #001H RELEA! Sampling Condition: Cool & Intact
Project Number: 212C-MD-02846 Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: LEA COUNTY, NM

mg/kg

Sample ID: FS - 2 (H236229-02)

BTEX 8021B

DILX GOZID	ilig/	, kg	Andryzo	a by. 511/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.90	95.0	2.00	8.42	
Toluene*	<0.050	0.050	11/15/2023	ND	1.95	97.6	2.00	1.51	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.08	104	2.00	1.19	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.31	105	6.00	2.46	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/15/2023	ND	448	112	400	3.64	
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	11/15/2023	ND	183	91.5	200	0.0371	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	199	99.5	200	0.0131	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	93.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 11/14/2023 Sampling Date: 11/14/2023

Reported: 11/15/2023 Sampling Type: Soil

Project Name: LYCHEE BWS STATE COM #001H RELEA! Sampling Condition: Cool & Intact
Project Number: 212C-MD-02846 Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: LEA COUNTY, NM

mg/kg

Sample ID: FS - 3 (H236229-03)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	a by. 5117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.90	95.0	2.00	8.42	
Toluene*	<0.050	0.050	11/15/2023	ND	1.95	97.6	2.00	1.51	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.08	104	2.00	1.19	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.31	105	6.00	2.46	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/15/2023	ND	448	112	400	3.64	
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	11/15/2023	ND	183	91.5	200	0.0371	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	199	99.5	200	0.0131	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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Celeg & Freene



Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 11/14/2023 Sampling Date: 11/14/2023

Reported: 11/15/2023 Sampling Type: Soil

Project Name: LYCHEE BWS STATE COM #001H RELEA! Sampling Condition: Cool & Intact
Project Number: 212C-MD-02846 Sample Received By: Tamara Oldaker

Applyzod By: 1H /

Project Location: LEA COUNTY, NM

ma/ka

Sample ID: FS - 4 (H236229-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.90	95.0	2.00	8.42	
Toluene*	<0.050	0.050	11/15/2023	ND	1.95	97.6	2.00	1.51	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.08	104	2.00	1.19	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.31	105	6.00	2.46	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/15/2023	ND	448	112	400	3.64	
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	11/15/2023	ND	183	91.5	200	0.0371	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	199	99.5	200	0.0131	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 11/14/2023 Sampling Date: 11/14/2023

Reported: 11/15/2023 Sampling Type: Soil

Project Name: LYCHEE BWS STATE COM #001H RELEA! Sampling Condition: Cool & Intact
Project Number: 212C-MD-02846 Sample Received By: Tamara Oldaker

Project Location: LEA COUNTY, NM

Sample ID: NSW - 1 (H236229-05)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.90	95.0	2.00	8.42	
Toluene*	<0.050	0.050	11/15/2023	ND	1.95	97.6	2.00	1.51	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.08	104	2.00	1.19	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.31	105	6.00	2.46	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/15/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2023	ND	183	91.5	200	0.0371	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	199	99.5	200	0.0131	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 11/14/2023 Sampling Date: 11/14/2023

Reported: Sampling Type: Soil 11/15/2023

Project Name: LYCHEE BWS STATE COM #001H RELEA! Sampling Condition: Cool & Intact Project Number: 212C-MD-02846 Sample Received By: Tamara Oldaker

Project Location: LEA COUNTY, NM

Sample ID: SSW - 1 (H236229-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.90	95.0	2.00	8.42	
Toluene*	<0.050	0.050	11/15/2023	ND	1.95	97.6	2.00	1.51	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.08	104	2.00	1.19	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.31	105	6.00	2.46	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/15/2023	ND	432	108	400	3.64	
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	11/15/2023	ND	183	91.5	200	0.0371	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	199	99.5	200	0.0131	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	93.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



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

Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 11/14/2023 Sampling Date: 11/14/2023

Reported: 11/15/2023 Sampling Type: Soil

Project Name: LYCHEE BWS STATE COM #001H RELEA! Sampling Condition: Cool & Intact
Project Number: 212C-MD-02846 Sample Received By: Tamara Oldaker

Applyzod By: 1H /

Project Location: LEA COUNTY, NM

ma/ka

Sample ID: ESW - 1 (H236229-07)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	ea By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2023	ND	1.81	90.3	2.00	0.0557	
Toluene*	<0.050	0.050	11/14/2023	ND	1.94	96.8	2.00	0.265	
Ethylbenzene*	<0.050	0.050	11/14/2023	ND	1.95	97.6	2.00	0.694	
Total Xylenes*	<0.150	0.150	11/14/2023	ND	5.91	98.4	6.00	0.565	
Total BTEX	<0.300	0.300	11/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/15/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2023	ND	183	91.5	200	0.0371	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	199	99.5	200	0.0131	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 11/14/2023 Sampling Date: 11/14/2023

Reported: 11/15/2023 Sampling Type: Soil

Project Name: LYCHEE BWS STATE COM #001H RELEA: Sampling Condition: Cool & Intact
Project Number: 212C-MD-02846 Sample Received By: Tamara Oldaker

Project Location: LEA COUNTY, NM

Sample ID: WSW - 1 (H236229-08)

BTEX 8021B	mg,	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.81	90.3	2.00	0.0557	
Toluene*	<0.050	0.050	11/15/2023	ND	1.94	96.8	2.00	0.265	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.6	2.00	0.694	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.91	98.4	6.00	0.565	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/15/2023	ND	432	108	400	3.64	
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	11/15/2023	ND	183	91.5	200	0.0371	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	199	99.5	200	0.0131	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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State: TX Zip: P.O. #: Company: Tetra Tech	Delivered By: (Circle On.) Sampler - UPS - Bus - Other:		Colton Bickerstan	and the party of t	enages Cestrafo isolay and then's ex- ter nodestal or consequental damage		WSW-I	ESW-I	SSW-I	NSW-1	FS-4	FS-3	FS-2	FS-1	Sample	Ollon Dicholomic	dien Bickerstaff	ea County, New Mex	hee BWS State Com #				pital o Texas Hwy, Sui	Christian Llull	-	(575) 393-2
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APPENDIX F Waste Manifests

Received by OCD: 1/10/2024 1:07:07 PMstomer: Page 78 of 111 CONOCOPHILLIPS 700-1496988 Ticket #: Customer #: CRI2190 Bid #: O6UJ9A000JEC Ordered by: SAM WIDMER Date: 11/13/2023 AFE #: Generator: CONOCOPHILLIPS PO #: Generator #: 40946 Manifest #: 1 Well Ser. #: 42445 SOLUTIONS Manif. Date: 11/13/2023 Well Name: LYCHEE BWS STATE COM Hauler: MCNABB PARTNERS Well #: Permian Basin 001H Driver NOE Field: Truck # 104 Field # Card # Rig: NON-DRILLING Job Ref# County LEA (NM) Facility: CRI Product / Service **Quantity Units** Contaminated Soil (RCRA Exempt) 12.00 yards Jet Wash (Recycled Water) 1.00 hour Generator Certification Statement of Waste Status I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste _ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): __ MSDS Information __ RCRA Hazardous Waste Analysis __ Process Knowledge __ Other (Provide description above) Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: Date:

TRANSPORTER'S MANIFEST

MANIFEST#

SHIPPING FACILITY NAME & ADDRESS:

ConocoPhillips Company

600 W. Illinois Avenue, Midland, TX 79701

Attn. Ike Tavarez

Ike.Tavarez@conocophillips.com

432.701.8630

ACCOUNTING INFORMATION

Lychee BWS State Com #001H Release - RMR Project

GL Account No.: 702000

WBS Element: WAO.000.7267.00.RM

LOCATION OF MATERIAL:

ConocoPhillips Company

Lychee BWS State Com #001H (AoC 7267)

Unit Letter O, Section 22, Township 21 South, Range 34 East

Lea County, New Mexico

TRANSPORTER NAME AND ADDRESS:

McNabb Partners 4008 N. Grimes

Hobbs, New Mexico 88240

575.397.0050

TRUCK #

181

DESCRIPTION OF WASTE:

Impacted Soil

TRUCK CAPACITY:

20 cg

APPROXIMATE % FULL

90%

APPROXIMATE VOLUME HAULED OFF

18 cg

FACILITY CONTACT:

Date: 1/1/27

Signature of Contact:

(Agent for ConocoPhillips)

432-280-9943

NAME OF TRANSPORTER (Driver):

Date:

11/16/23

Signature Driver:

1

BILKENSER

DISPOSAL SITE:

R360 P.O. Box 388 4507 W Carlsbad Hwy Hobbs, New Mexico 88241

Date:

11/14/23

Representative Signature ympulinus

Received by OCD: 1/10/2024 1:07:07 RMomer: 700-1498359 Page 80 of 111 CONOCOPHILLIPS Ticket #: Customer #: CRI2190 O6UJ9A000JEC Bid #: 11/16/2023 Ordered by: IKE TAVAREZ Date: CONOCOPHILLIPS Generator: AFE #: Generator #: 40946 PO #: Well Ser. #: 42445 Manifest #: SOLUTIONS Well Name: LYCHEE BWS STATE COM Manif. Date: 11/16/2023 Well #: 001H Hauler: MCNABB PARTNERS Permian Basin Field: Driver **JESSE** Field #: Truck # M81 NON-DRILLING Rig: Card # LEA (NM) Job Ref# County Facility: CRI **Quantity Units** Product / Service 18.00 yards Contaminated Soil (RCRA Exempt) Generator Certification Statement of Waste Status I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): __ MSDS Information __ RCRA Hazardous Waste Analysis __ Process Knowledge __ Other (Provide description above) **R360 Representative Signature** Driver/ Agent Signature **Customer Approval** THIS IS NOT AN INVOICE!

Date:

IGUJ9A01XCUW

Approved By:

TRANSPORTER'S MANIFEST

MANIFEST# 3

SHIPPING FACILITY NAME & ADDRESS: ConocoPhillips Company

600 W. Illinois Avenue, Midland, TX 79701 Attn. Ike Tavarez

Ike.Tavarez@conocophillips.com

432.701.8630

ACCOUNTING INFORMATION

Lychee BWS State Com #001H Release - RMR Project

GL Account No.: 702000

WBS Element: WAO.000.7267.00.RM

LOCA	TION	OF MA	TERIAL
LUCH	LIUI	OF MA	UERIAL

ConocoPhillips Company

Lychee BWS State Com #001H (AoC 7267)

Unit Letter O, Section 22, Township 21 South, Range 34 East

Lea County, New Mexico

TRANSPORTER NAME AND ADDRESS:

McNabb Partners

4008 N. Grimes

Hobbs, New Mexico 88240

575.397.0050

M87 TRUCK #

DESCRIPTION OF WASTE:

Impacted Soil

TRUCK CAPACITY:

APPROXIMATE % FULL

90%

APPROXIMATE VOLUME HAULED OFF

End lum

FACILITY CONTACT:

Date:

Signature of Contact:

(Agent for ConocoPhillips)

432-250-9943

NAME OF TRANSPORTER (Driver):

Date: 11-16-23

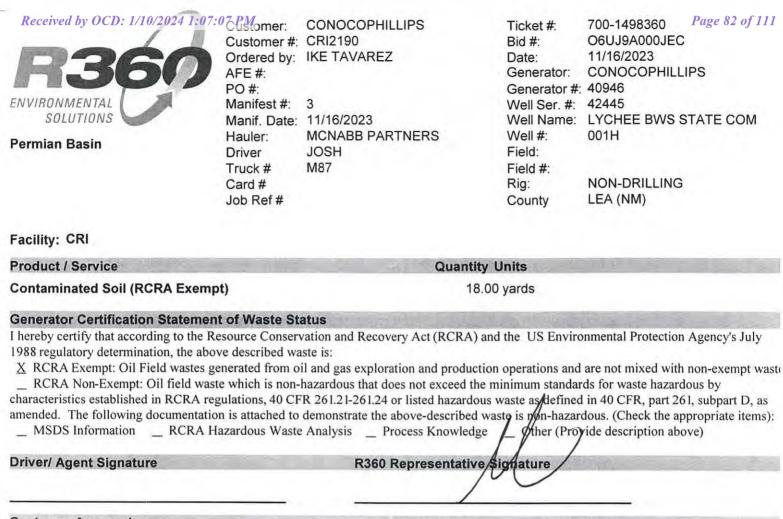
Signature Driver:

DISPOSAL SITE:

R360 P.O. Box 388 4507 W Carlsbad Hwy Hobbs, New Mexico 88241

Representative

MeM1 Signature



Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____ Date:

t6UJ9A01XCUZ

TRANSPORTER'S MANIFEST

MANIFEST# 4

SHIPPING FACILITY NAME & ADDRESS:

ConocoPhillips Company

600 W. Illinois Avenue, Midland, TX 79701

Attn. Ike Tavarez

Ike.Tavarez@conocophillips.com

432.701.8630

ACCOUNTING INFORMATION

Lychee BWS State Com #001H Release - RMR Project

GL Account No.: 702000

WBS Element: WAO.000.7267.00.RM

LOCATION OF MATERIAL:

ConocoPhillips Company

Lychee BWS State Com #001H (AoC 7267)

Unit Letter O, Section 22, Township 21 South, Range 34 East

Lea County, New Mexico

TRANSPORTER NAME AND ADDRESS:

McNabb Partners 4008 N. Grimes

Hobbs, New Mexico 88240

575.397.0050

TRUCK #

M8

DESCRIPTION OF WASTE:

Impacted Soil

TRUCK CAPACITY:

20 cm

APPROXIMATE % FULL

90%

APPROXIMATE VOLUME HAULED OFF

18 cy

FACILITY CONTACT:

Date: 11/16/23

Signature of Contact:

(Agent for ConocoPhillips)

16

Male Phina

NAME OF TRANSPORTER (Driver):

Date:

11/14/23

Signature Driver:

esse Moceno

DISPOSAL SITE:

R360 P.O. Box 388 4507 W Carlsbad Hwy Hobbs, New Mexico 88241

Date:

11/14/23

Representative

Signature

martinez

Received by OCD: 1/10/2024 1:07: BOUTTONS Permian Basin	Customer #:	IKE TAVAREZ	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	42445
Facility: CRI				
Product / Service		Quan	tity Units	
Contaminated Soil (RCRA Exemp	ot)		18.00 yards	
Generator Certification Statemen I hereby certify that according to the R 1988 regulatory determination, the abo X RCRA Exempt: Oil Field wastes g RCRA Non-Exempt: Oil field was characteristics established in RCRA re amended. The following documentation MSDS Information RCRA H Driver/Accept Signature	esource Conserve described was enerated from o te which is non- gulations, 40 CF on is attached to	vation and Recovery Act (RCRA iste is: il and gas exploration and prod hazardous that does not exceed R 261.21-261.24 or listed hazar demonstrate the above-describ	uction operations and the minimum standar dous waste as defined ed waste is non-hazar edge Other (Prov	are not mixed with non-exempt wards for waste hazardous by I in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items)
Driver/ Agent Signature		KJOU Kepresentat	ive Signature	
Customer Approval			W	
	THI	S IS NOT AN INV	OICE!	

Date: _____

Approved By:

TRANSPORTER'S MANIFEST

MANIFEST# _____

SHIPPING FACILITY NAME & ADDRESS:

ConocoPhillips Company

600 W. Illinois Avenue, Midland, TX 79701

Attn. Ike Tavarez

Ike.Tavarez@conocophillips.com

432.701.8630

ACCOUNTING INFORMATION

Lychee BWS State Com #001H Release - RMR Project

GL Account No.: 702000

WBS Element: WAO.000.7267.00.RM

LOCATION OF MATERIAL:

ConocoPhillips Company

Lychee BWS State Com #001H (AoC 7267)

Unit Letter O, Section 22, Township 21 South, Range 34 East

Lea County, New Mexico

TRANSPORTER NAME AND ADDRESS:

McNabb Partners

4008 N. Grimes

Hobbs, New Mexico 88240

575.397.0050

DESCRIPTION OF WASTE:

Impacted Soil

TRUCK CAPACITY:

20 cm

APPROXIMATE % FULL

M87

90%

APPROXIMATE VOLUME HAULED OFF

18 cg

FACILITY CONTACT:

Date: 1/16/23

Signature of Contact:

(Agent for ConocoPhillips)

TRUCK #

(15

432-250-9943 Lotton Bizkerstall

NAME OF TRANSPORTER (Driver):

Date: 11-16-23

Signature Driver:

Josh Busby

DISPOSAL SITE:

R360 P.O. Box 388 4507 W Carlsbad Hwy Hobbs, New Mexico 88241

Date:

11-14.23

Representative Signature 4 Mals nac

Received by OCD: 1/10/2024 1:07:07-PuMomer: Page 86 of 111 CONOCOPHILLIPS Ticket #: 700-1498475 Customer #: CRI2190 Bid #: O6UJ9A000JEC Ordered by: IKE TAVAREZ Date: 11/16/2023 AFE #: Generator: CONOCOPHILLIPS PO #: Generator #: 40946 ENVIRONMENTAL Manifest #: 5 Well Ser. #: 42445 SOLUTIONS Manif. Date: 11/16/2023 LYCHEE BWS STATE COM Well Name: Hauler: MCNABB PARTNERS Well #: 001H Permian Basin Driver JOSH Field: Truck # M87 Field #: Card # Rig: NON-DRILLING Job Ref# LEA (NM) County Facility: CRI Product / Service **Quantity Units** Contaminated Soil (RCRA Exempt) 18.00 yards **Generator Certification Statement of Waste Status** I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): __ MSDS Information __ RCRA Hazardous Waste Analysis __ Process Knowledge __ Other (Provide description above) Driver/ Agent Signature R360 Representative Signature **Customer Approval**

THIS IS NOT AN INVOICE!

Date:

t6UJ9A01XD19

Approved By:

TRANSPORTER'S MANIFEST

MANIFEST#

SHIPPING FACILITY NAME & ADDRESS:

ConocoPhillips Company

600 W. Illinois Avenue, Midland, TX 79701

Attn. Ike Tavarez

Ike. Tavarez@conocophillips.com

432,701,8630

ACCOUNTING INFORMATION

Lychee BWS State Com #001H Release - RMR Project

GL Account No.: 702000

WBS Element: WAO,000,7267.00.RM

LOCATION OF MATERIAL:

ConocoPhillips Company

Lychee BWS State Com #001H (AoC 7267)

Unit Letter O, Section 22, Township 21 South, Range 34 East

Lea County, New Mexico

TRANSPORTER NAME AND ADDRESS:

McNabb Partners 4008 N. Grimes

Hobbs, New Mexico 88240

575.397.0050

TRUCK #

DESCRIPTION OF WASTE:

Impacted Soil

TRUCK CAPACITY:

APPROXIMATE % FULL

APPROXIMATE VOLUME HAULED OFF

FACILITY CONTACT:

Date:

Signature of Contact:

(Agent for ConocoPhillips)

432-250-9943

NAME OF TRANSPORTER (Driver):

Date: 11-20-23

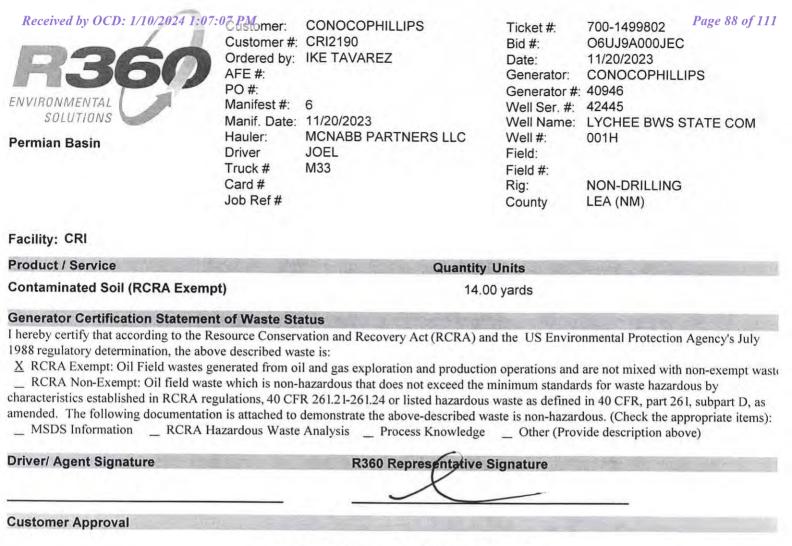
Signature Driver: Jal Van Buskirk

DISPOSAL SITE:

R360 P.O. Box 388 4507 W Carlsbad Hwv Hobbs, New Mexico 88241

Representative

Signature



Approved By:

THIS IS NOT AN INVOICE!

t6UJ9A01XEZC

TRANSPORTER'S MANIFEST

MANIFEST# 7

SHIPPING FACILITY NAME & ADDRESS:

ConocoPhillips Company

600 W. Illinois Avenue, Midland, TX 79701

Attn. Ike Tavarez

Ike. Tavarez@conocophillips.com

432,701,8630

ACCOUNTING INFORMATION

Lychee BWS State Com #001H Release - RMR Project

GL Account No.: 702000

WBS Element: WAO.000,7267.00.RM

LOCATION OF MATERIAL:

ConocoPhillips Company

Lychee BWS State Com #001H (AoC 7267)

Unit Letter O, Section 22, Township 21 South, Range 34 East

Lea County, New Mexico

TRANSPORTER NAME AND ADDRESS:

McNabb Partners

4008 N. Grimes

Hobbs, New Mexico 88240

575.397.0050

DESCRIPTION OF WASTE:

Impacted Soil

TRUCK CAPACITY:

APPROXIMATE % FULL

APPROXIMATE VOLUME HAULED OFF

FACILITY CONTACT:

Date:

Signature of Contact:

(Agent for ConocoPhillips)

TRUCK #

432-250-9943

Coltan Blekerterp

NAME OF TRANSPORTER (Driver):

Date: 11-20-03

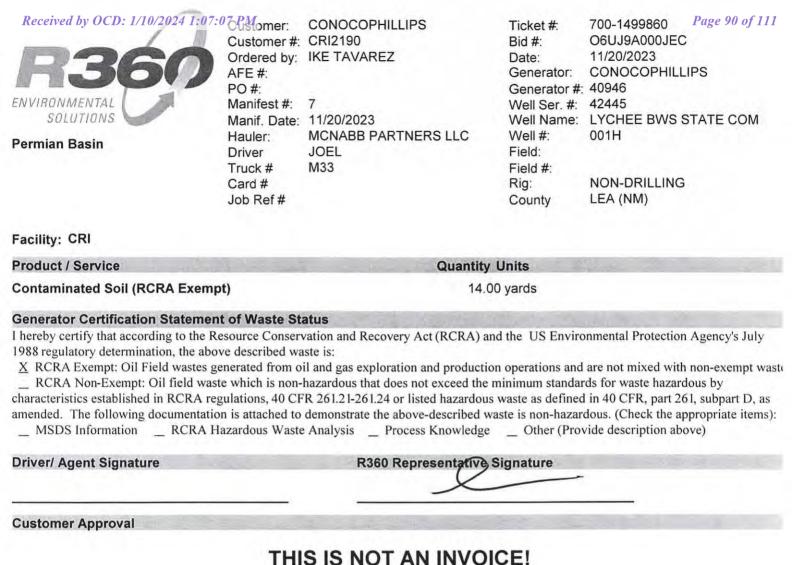
Signature Driver:

DISPOSAL SITE:

R360 P.O. Box 388 4507 W Carlsbad Hwy Hobbs, New Mexico 88241

Representative

Signature



Date:

Approved By:

TRANSPORTER'S MANIFEST

MANIFEST#

SHIPPING FACILITY NAME & ADDRESS: ConocoPhillips Company

600 W. Illinois Avenue, Midland, TX 79701

Attn. Ike Tavarez

Ike.Tavarez@conocophillips.com

432,701,8630

ACCOUNTING INFORMATION

Lychee BWS State Com #001H Release - RMR Project

GL Account No.: 702000

WBS Element: WAO.000.7267.00.RM

LOCATION OF MATERIAL:

ConocoPhillips Company

Lychee BWS State Com #001H (AoC 7267)

Unit Letter O, Section 22, Township 21 South, Range 34 East

Lea County, New Mexico

TRANSPORTER NAME AND ADDRESS:

McNabb Partners 4008 N. Grimes

Hobbs, New Mexico 88240

575.397.0050

TRUCK #

DESCRIPTION OF WASTE:

Impacted Soil

TRUCK CAPACITY:

16cm

APPROXIMATE % FULL

APPROXIMATE VOLUME HAULED OFF

FACILITY CONTACT:

Date: 1/-20-23

Signature of Contact:

(Agent for ConocoPhillips)

432-250-9943

NAME OF TRANSPORTER (Driver):

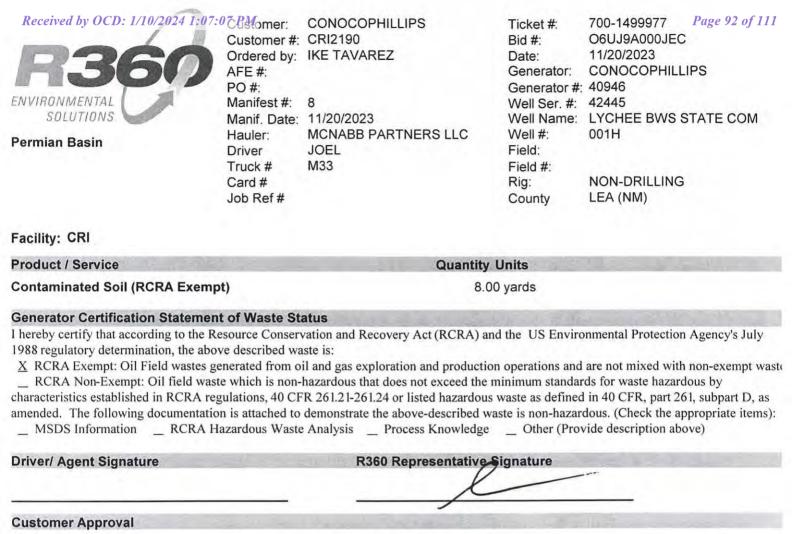
Date: 11-00-33

Signature Driver: Joel Von Brokery

DISPOSAL SITE:

R360 P.O. Box 388 4507 W Carlsbad Hwy Hobbs, New Mexico 88241

Representative Signature

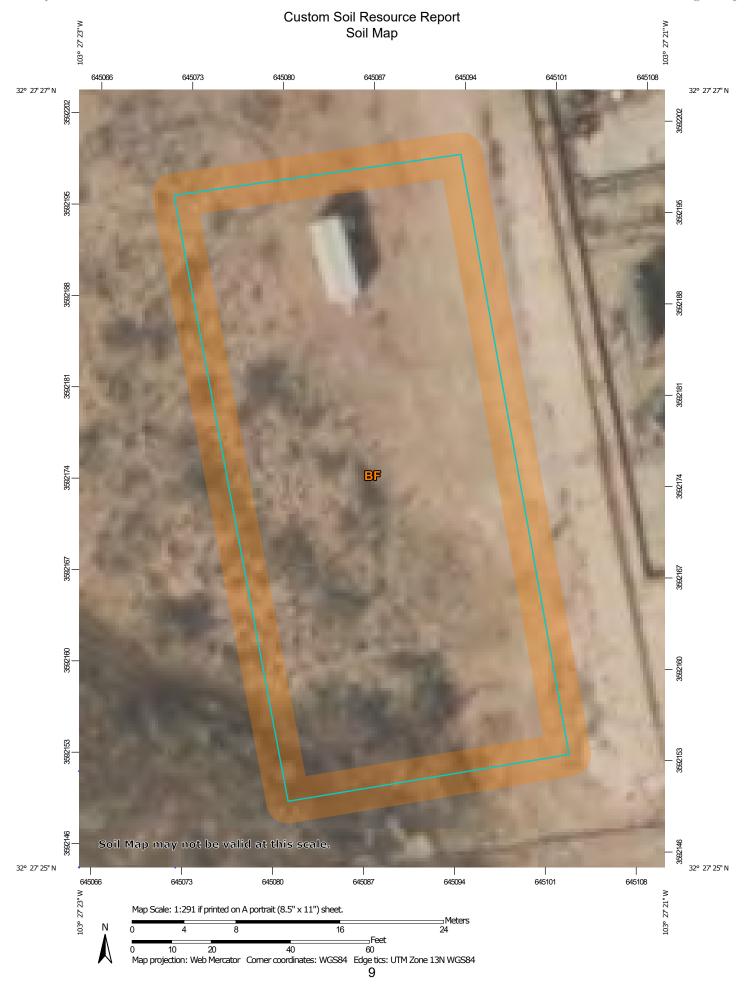


THIS IS NOT AN INVOICE!

Approved By: _____ Date: ____

t6UJ9A01XFBY 11/20/2023 2:11:10PM

APPENDIX G Seed Mixture Details



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

ဖ

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow Marsh or swamp

Mine or Quarry

Miscellaneous Water Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot Severely Eroded Spot

Sinkhole

Sodic Spot

Slide or Slip

Spoil Area

å

Stony Spot Very Stony Spot

Ŷ

Wet Spot Other

Δ

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

00

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 18, Sep 10, 2021

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12. 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BF	Berino-Cacique fine sandy loams association	0.3	100.0%
Totals for Area of Interest		0.3	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 class rarely, if ever, can be mapped without including areas of other 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

BF—Berino-Cacique fine sandy loams association

Map Unit Setting

National map unit symbol: dmpf Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 50 percent Cacique and similar soils: 40 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock over

calcareous sandy alluvium derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sandy loam

Btk - 8 to 60 inches: sandy clay loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Moderate (about 8.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: B

Ecological site: R042XC004NM - Sandy

Hydric soil rating: No

Description of Cacique

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sandy loam

Bt - 8 to 28 inches: sandy clay loam

Bkm - 28 to 38 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 20 to 40 inches to petrocalcic

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 4.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: C

Ecological site: R042XC004NM - Sandy

Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 4 percent

Ecological site: R042XC005NM - Deep Sand

Hydric soil rating: No

Pyote

Percent of map unit: 3 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Wink

Percent of map unit: 3 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

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SLO Seed Mix

SM Series

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.

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

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



NMSLO Seed Mix

Loamy (L)

LOAMY (L) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Black grama	VNS, Southern	1.0	D
Blue grama	Lovington	1.0	D
Sideoats grama	Vaughn, El Reno	4.0	F
Sand dropseed	VNS, Southern	2.0	\mathbf{S}
Alkali sacaton	VNS, Southern	1.0	
Little bluestem	Cimarron, Pastura	1.5	F
<u>Forbs:</u> Firewheel (<i>Gaillardia</i>)	VNS, Southern	1.0	D
Shrubs: Fourwing saltbush Common winterfat	Marana, Santa Rita VNS, Southern	1.0 0.5	D F
	Total PLS/acr	e 18.0	818

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

- 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.



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

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

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

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

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

QUESTIONS

Action 302158

QUESTIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	302158
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites						
Incident ID (n#)	nOY1815234060					
Incident Name	NOY1815234060 LYCHEE BWS STATE COM #001H @ 30-025-42445					
Incident Type	Oil Release					
Incident Status	Deferral Request Received					
Incident Well	[30-025-42445] LYCHEE BWS STATE COM #001H					

ocation of Release Source						
Please answer all the questions in this group.						
Site Name	LYCHEE BWS STATE COM #001H					
Date Release Discovered	05/26/2018					
Surface Owner	State					

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Corrosion Valve Crude Oil Released: 20 BBL Recovered: 15 BBL Lost: 5 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion Valve Produced Water Released: 200 BBL Recovered: 105 BBL Lost: 95 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

1220 S. St Francis Dr., Santa Fe, NM 87505

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

QUESTIONS, Page 2

Action 302158

Phone:(505) 476-3470 Fax:(505) 476-3462		
QUESTI	ONS (continued)	
Operator: COG OPERATING LLC 600 W Illinois Ave	OGRID:	
Midland, TX 79701	302158 Action Type:	
	[C-141] Deferral Request C-141 (C-141-v-Deferral)	
QUESTIONS		
Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes	
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.	
Initial Response		
The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.	
The source of the release has been stopped True		
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	t True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	Not answered.	
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.	
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 to 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.		
	Name: Christian LLuLL	

Title: Project Manager

Date: 01/10/2024

Email: christian.llull@tetratech.com

I hereby agree and sign off to the above statement

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

QUESTIONS, Page 3

Action 302158

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	302158
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	Estimate or Other
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be	e provided to the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil of	contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delinea	ated Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for	each, in milligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 CI B)	15000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	53549
GRO+DRO (EPA SW-846 Method 8015M)	43829
BTEX (EPA SW-846 Method 8021B or 8260E	B) 230
Benzene (EPA SW-846 Method 8021B or 8260	DB) 3
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report include which includes the anticipated timelines for beginning and completing the remediati	des completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, ion.
On what estimated date will the remediation commence	11/09/2023
On what date will (or did) the final sampling or liner inspection occur	11/09/2023
On what date will (or was) the remediation complete(d)	11/21/2023
What is the estimated surface area (in square feet) that will be reclaim	ned 2019
What is the estimated volume (in cubic yards) that will be reclaimed	120
What is the estimated surface area (in square feet) that will be remedia	ated 2440
What is the estimated volume (in cubic yards) that will be remediated	120
These estimated dates and measurements are recognized to be the best guess or call	culation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed remediation measures may have to be minimally	adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

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

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

QUESTIONS, Page 4

Action 302158

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	302158
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:	
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement

Name: Christian LLuLL Title: Project Manager Email: christian.llull@tetratech.com

Date: 01/10/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District III

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

QUESTIONS, Page 5

Action 302158

QUESTI	ONS (continued)
Operator: COG OPERATING LLC	OGRID: 229137
600 W Illinois Ave Midland, TX 79701	Action Number: 302158
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)
QUESTIONS	
Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of	f the following items must be confirmed as part of any request for deferral of remediation.
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Any additional excavation of the impacted area located inside the walled containment would cause a major facility deconstruction, in addition to creating safety risks associated with excavating near production equipment via aggressive excavation methods (i.e., backhoe/track hoe, excavators, hydraulic hammer, etc.). These aggressive activities pose a risk which could result in a potentially hazardous condition and/or property damage.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	1755
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	195
	ately under or around production equipment such as production tanks, wellheads and pipelines where In may be deferred with division written approval until the equipment is removed during other operations, or when
Enter the facility ID (f#) on which this deferral should be granted	LYCHEE BWS STATE COM 1H - BATTERY [fAPP2204034353]
Enter the well API (30-) on which this deferral should be granted	30-025-42445 LYCHEE BWS STATE COM #001H
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed el which includes the anticipated timelines for beginning and completing the remediation.	forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
to report and/or file certain release notifications and perform corrective actions for releate OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or

Name: Christian LLuLL Title: Project Manager

Date: 01/10/2024

Email: christian.llull@tetratech.com

I hereby agree and sign off to the above statement

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QUESTIONS, Page 6

Action 302158

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	302158
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	294366
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/14/2023
What was the (estimated) number of samples that were to be gathered	14
What was the sampling surface area in square feet	2460

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

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CONDITIONS

Action 302158

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
	Action Number:
Midland, TX 79701	302158
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
bhall	Deferral approved. Deferral of the lined containment area is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time. The reclamation report will need to address all the requirements of 19.15.29.13 NMAC.	1/26/2024
bhall	The reclamation report will need to address all the requirements of 19.15.29.13 NMAC including an executive summary of the reclamation activities; scaled site map including sampling locations; analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing if the backfill is coming from a rancher's pit or other local source AND/OR proof from the landfill/landfarm that their backfill is non-waste containing; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	1/26/2024
bhall	Subsequent to the approval of a reclamation plan, a revegetation report will need to be submitted, including pictures of the revegetated areas, once the site meets the requirements for vegetation cover found in 19.15.29.13 D.(3) NMAC. Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used as long as the requirements of the surface owner provide equal or better protection of freshwater, human health and the environment.	1/26/2024