

May 24, 2024

District Supervisor Oil Conservation Division, District 2 506 W. Texas Ave. Artesia, New Mexico 88210

Re: Revised Closure Report ConocoPhillips Company (Heritage COG Operating LLC) GJ West Coop Unit South Tank Battery Release Unit Letter B, Section 28, Township 17 South, Range 29 East Eddy County, New Mexico 2RP-4923 Incident ID nMAP1822950996

Dear Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (ConocoPhillips) to assess a historical release that occurred from the GJ West Coop Unit South Tank Battery. The approximate release site coordinates are 32.811015°, -104.075707°, located in the Public Land Survey System (PLSS) Unit Letter B, Section 28, Township 17 South, Range 29 East, Eddy County, New Mexico (Site). The Site location is shown on Figures 1 and 2. The site is located on State Trust Lands.

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report (Appendix A), the release was discovered on August 10, 2018. The release was caused by Lact Services leaving the proving valves on the LACT unit open. The release consisted of approximately 34 barrels (bbls) of crude oil, of which 5 bbls were recovered during the initial response activities via vacuum truck. The release occurred on the lease pad as well as in the adjacent pasture. The NMOCD received the C-141 on August 10, 2028 and, subsequently, assigned the release the Incident ID nMAP1822950996 and the remediation permit (RP) number 2RP-4923.

The GJ West Coop South Tank Battery Release (2RP-4923/nMAP1822950996) is included in an Agreed Compliance Order ("ACO") with the NMOCD, related to unresolved releases from ConocoPhillips' predecessor-in-interest ("COG"). The ACO required ConocoPhillips to submit characterization and/or remediation plans with proposed timeframes for the ongoing corrective actions or remediations identified to the NMOCD no later than March 31, 2022.

As of March 11, 2022, ConocoPhillips has submitted characterization and remediation plans for all of the properties identified and owned. All documentation was submitted in accordance with ACO terms. These documents have been submitted to the NMOCD via CentreStack, a Secure Access & File Sharing platform, at the direction of Mr. Bradford Billings, NMOCD. The Remediation Plan previously completed by White Buffalo Environmental Inc. (WBE) was included as a portion of the ACO.

LAND OWNERSHIP

According to the NMOCD Oil and Gas Map, the site is located on State Trust Lands managed by the New Mexico State Land Office (NMSLO). A review of the NMSLO Land Status Map was completed, and the Site is within active oil and gas lease B005140012. The active lease is under Concho Oil & Gas LLC/COG Operations LLC. Based on guidance provided by the NMSLO, as the release footprint is located on an

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active oil and gas lease and the footprint is wholly located within the boundaries of the active oil and gas lease, no Remediation Right of Entry (ROE) is required at the Site.

CULTURAL PROPERTIES PROTECTION

As of December 1, 2022, the NMSLO Cultural Properties Protection (CPP) Rule is in effect. In tandem with this CPP rule, the NMSLO has begun enforcing application and permitting requirements per Rule 12 (19.2.12 NMAC) for Water/Soil Boring Exploration Permits. Any intrusive activities must be permitted through the Water Bureau, Oil, Gas, and Minerals Division, NMSLO.

To comply with the NMSLO CPP Rule, Tetra Tech, on behalf of ConocoPhillips, contracted SWCA Environmental Consultants (SWCA) to conduct an intensive pedestrian survey for the GJ West Coop South TB release covering 8.81 acres (3.56 ha) on the SLO-managed land Eddy County, New Mexico. On June 7, 2023, SWCA surveyed a 100-foot buffer from the inadvertent release location footprint, located entirely on SLO-managed land.

No archaeological sites or historic properties were observed during the investigation. Two isolated occurrences (IO) were discovered. IO 1 consisted of three quartzite pieces of lithic debitage and six coke bottle glass pieces. IO 2 consisted of a chert tested cobble and lithic debitage piece of quartzite with a cortical platform that measured 3-4 cm. No additional investigation or treatment was recommended regarding the current undertaking. A copy of the NMCRIS Activity No. 153146 is included in the 2023 Work Plan.

SITE CHARACTERIZATION

A site characterization was performed in accordance with 19.15.29.11 New Mexico State Administrative Code (NMAC) and the guidance document Process Updates re: Submissions of Form C-141 Release Notification and Corrective Actions (12/01/2023). A summary of the site characterization is presented below:

Shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (feet bgs)	76 feet bgs
Method used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water?	No
What is the minimum distance between the closest lateral extents of the release and th	e following surface areas:
A continuously flowing watercourse or any other significant watercourse	Greater than 5 miles
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 miles
An occupied permanent residence, school, hospital, institution, or church	18 miles
A spring or private domestic fresh water well used by less than five households for domestic or stock watering purposes	1.1 miles
Any other fresh water well or spring	0.63 miles
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 miles
A wetland	0.25 miles
A subsurface mine	Greater than 5 miles
A (non-karst) unstable area	Greater than 5 miles
Categorized risk of this well / site being in a karst geology	Medium

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A 100-year floodplain	0.35 miles	
Did the release impact areas not on an exploration, development, production, or storage site?	No	

There are no water wells listed in the New Mexico Office of the State Engineer (NMOSE) database located within approximately 0.5 miles (800 meters) of the Site. The nearest well with recent groundwater data is located approximately 0.63 miles from the Site with a depth to water of 76 feet below ground surface (bgs). Based on recent conversations with NMOCD representatives concerning other incidents, this 0.63-mile distance is with the discretionary limit for use as groundwater depth determination. The site characterization data are presented in Appendix B.

REGULATORY FRAMEWORK

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

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

Constituent	Site RRAL
Chloride	10,000 mg/kg
TPH (GRO+DRO+ORO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
ВТЕХ	50 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 ft bgs) outside of active oil and gas operations are as follows:

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

WBE ASSESSMENT AND REMEDIAL ACTION

Based on available documentation, White Buffalo Environmental, Inc. (WBE) was contracted by Lact Services to assess the nMAP1822950996 release. Beginning on August 11, 2018, WBE conducted site assessment activities based on visual observations and information included on the Form C-141. A total of twenty-three (23) locations (SP1 through SP23) within the release extent were field tested/screened for chloride, TPH and benzene at multiple depths. A total of 23 soil samples were submitted to Cardinal Laboratory for analysis of chloride via Standard Method SM4500CI-B, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. Analytical results for SP1 through SP23 are summarized in Table 1.

To enable access to the facility, WBE excavated the on-pad release footprint to 6 inches bgs to remove saturated soils. Approximately 40 cubic yards of impacted soil was removed and disposed of at Lea Land Disposal. The excavated area was backfilled with non-impacted, like material.

Additionally, WBE field tested/screened and collected a total forty-four (44) surface soil samples (SW1 through SW44) around the release extent in an attempt to laterally bound the impacted area. The soil samples were submitted to Cardinal Laboratory for analysis of chloride via Standard Method SM4500Cl-B,

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TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. Analytical results for SW1 through SW44 are summarized in Table 2.

Of the sixty-seven (67) analyzed soil samples, analytical results associated with SP16, SW-24, SW-30 and SW43 were above the reclamation requirements for TPH. There was no other reclamation requirement or RRAL exceedances from the 2018 assessment activities. The approximate release extent and assessment sample locations are shown on Figure 3. The extent of remedial action performed by WBE is shown in Figure 4.

WHITE BUFFALO ENVIRONMENTAL REMEDIATION WORK PLAN

Based on the results of the 2018 assessment activities and remedial action, WBE prepared a Remediation Work Plan Request to address the nMAP1822950996 release area. It is unclear when the Remediation Work Plan Request, dated October 25, 2018, was initially submitted to NMOCD by COG Operating, LLC (COG). There is no documentation available indicating the Remediation Work Plan Request was initially approved or rejected.

As previously mentioned, the WBE Remediation Work Plan Request was resubmitted to the NMOCD by Tetra Tech in March 2022 as part of the ACO submittals. The work plan was rejected on December 9, 2022 via email from Brittany Hall of the NMOCD with the following reasoning:

- "The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater.
- Horizontal delineation submitted was incomplete and did not meet the requirements of 19.15.29.11 NMAC. The values for determination of horizontal impact are derived by either approved "background" values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less. This is especially important for "on-pad" releases to ensure the release did not extend to the "off-pad"/pasture area. A visual footprint on the surface is not sufficient to assess the horizontal extent of the release. Laboratory data must be provided as evidence of delineation efforts. Any sample exceeding approved "background" values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less requires additional samples for horizontal delineation.
- In the report it states "Pad Area WBE excavated the top 6" bgs of saturated soil, loaded into dump truck and hauled to Lea Landfill. The pad area was backfilled with non-impacted like material imported to the site and that no further actions will be conducted on the pad with the sample results indicating the pad area is under the Site Closure Criteria." The field screening results show TPH levels below the TPH closure standard at 1' bgs. There is no analytical data that shows TPH is below closure standards. The field results also do not show if GRO+DRO is under the 1,000 mg/kg closure standard.
- 2RP-4923 closed. Refer to incident #nMAP1822950996 in all future communication.
- Please submit a complete report through the OCD Permitting website by 03/10/2023."

A copy of the NMOCD email correspondence is included in the 2023 Work Plan.

ADDITIONAL ASSESSMENT AND SAMPLING RESULTS

On behalf of ConocoPhillips, Tetra Tech conducted a visual Site inspection on September 21, 2022 to assess current Site conditions, document the observed impact, and photograph the area. Tetra Tech observed no obvious signs of staining and/or residual impact at the Site. Additionally, the pasture portions of the WBE-reported release footprint exhibited vegetation growth. Photographic documentation of current site conditions during the 2022 site visit is included in the 2023 Work Plan.

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Based on the findings of the visual inspection and the WBE analytical data, additional soil sampling was conducted in select locations to assess the current soil contaminant concentrations within the reported release footprint. On November 8, 2022, Tetra Tech installed eleven (11) hand auger borings (SP 2-22, SP 4-22, SP 7-22, SP 11-22, SP 13-22, SP 16-22, SP 17-22, SP 18-22, SP 21-22, SW 26-22 and SW 32-22) at locations previously sampled by WBE. A total of sixteen (16) soil samples were submitted to Cardinal Laboratories in Hobbs, New Mexico for analysis of chloride via Standard Method SM4500CI-B, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B.

Analytical results from the 2022 additional assessment sampling activities are summarized in Table 3. Analytical results associated with sample location SP 17-22 exceeded the TPH reclamation requirements for soils above 4 feet bgs outside of oil gas operations of 100 mg/kg. All other analytical results were below the reclamation requirements and Site RRALs for all constituents.

2023 ASSESSMENT ACTIVITIES

On behalf of ConocoPhillips, Tetra Tech conducted additional soil sampling at the Site to complete delineation at hand auger location SP-17-22. On September 11, 2023, 2023, Tetra Tech installed five (5) borings (SP-17-22 and AH-23-1 through AH-23-4) around the previously sampled SP-17-22 hand auger location. AH-23-1 through A-23-4 were installed to 1 feet bgs around SP-17-22 to complete horizontal delineation. SP-17-22 was installed from 1 to 6 feet bgs to complete vertical delineation.

A total of ten (10) soil samples were submitted to Cardinal Laboratories in Hobbs, New Mexico for analysis of chloride via Standard Method SM4500CI-B, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B.

Analytical results from the 2023 additional assessment activities are summarized in Table 4. Analytical results associated with sample location SP 17-22 exceeded reclamation requirements for TPH of 100 mg/kg from 2-3 feet. All other analytical results were below the reclamation requirements and Site RRALs for all constituents.

Results from the additional assessment activities from November 2022 and September 2023 indicate that the release footprint provided by WBE no longer appears to be accurate to field. This discrepancy, given the age of the release, may be due to the previous remedial activities conducted on-pad, rain, sheet flow, and/or natural attenuation of hydrocarbon which have modified the release footprint over time. Based on the results of the 2022 and 2023 analytical results, it appears that the soil contaminant concentrations are no longer above cleanup levels with the exception of the area near sample location SP17/SP17-22. The November 2022 and September 2023 hand auger locations, as well as the release extent observed by Tetra Tech, are presented in Figure 5.

REVISED REMEDIATION WORK PLAN AND NMOCD APPROVAL

Tetra Tech, on behalf of ConocoPhillips, prepared a Revised Remediation Work Plan dated November 8, 2023. The Revised Remediation Work Plan described the results of the release assessment and provided characterization of the impact at the site. ConocoPhillips proposed to remove soils that exceeded the Site reclamation limits and RRALs as determined by the results of the assessment activities.

The Revised Work Plan was approved via email by Ashley Maxwell of the NMOCD on Monday, November 30, 2023, with the following comment:

• *"Remediation plan approved. Submit report via the OCD permitting portal by May 14, 2024."*

Regulatory correspondence is included in Appendix C.

NMSLO ECO CORRESPONDENCE

The approved Revised Work Plan dated September 1, 2023, describing the Site assessment and proposed remedial activities was submitted via email to Tami Knight of the State Land Office Environmental

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Compliance Office (ECO) on November 30, 2023. The Revised Remediation Work Plan was approved by Tami Knight on December 15, 2023, with the following comments:

 "Documentation of proposed remediation actions for the subject was received from your office on November 30, 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. Please submit the remediation closure report to eco@slo.state.nm.us."

Regulatory correspondence is included in Appendix C.

REMEDIAL ACTIVITIES AND CONFIRMATION SAMPLING

From February 27-29, 2024, Tetra Tech personnel were onsite to supervise the remedial activities proposed in the approved Revised Remediation Work Plan, including excavation, disposal, and confirmation sampling. Prior to confirmation sampling, on February 22, 2024, the NMOCD district office was notified via the OCD Portal in accordance with Subsection D of 19.15.29.12 NMAC. Documentation of associated regulatory correspondence is included in Appendix C.

Impacted soils were excavated as indicated in Figure 6. The areas within the release footprint were excavated to a maximum depth of 4 feet below surrounding grade. Due to safety concerns associated with working around pressurized lines, impacted soils were excavated by hand or hydro-excavation within 4 feet of subsurface lines. Heavy machinery remained outside this buffer zone to avoid any associated risk or disturbance. Photographs from the excavated areas prior to backfill are provided in Appendix D.

All excavated material was transported offsite for proper disposal. Approximately 64 cubic yards of material were transported to the R360 Permian Basin facility. Copies of the waste manifests are included in Appendix E.

Following excavation, confirmation floor and sidewall samples were collected and submitted for laboratory analysis to verify efficacy of remediation activities. Per the NMOCD approved confirmation sampling plan, confirmation samples were collected such that each discrete sample (sidewall and floor) was representative of no more than 200 square feet of excavated area. One (1) confirmation floor sample location and four (4) confirmation sidewall sample locations were collected for laboratory analysis 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 reclamation limits and established Site RRALs to demonstrate compliance.

The results of the February 2024 confirmation sampling events are summarized in Table 5. All final confirmation soil samples (floor and sidewall) were below applicable cleanup levels for chloride, TPH, and BTEX. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix F.

RECLAMATION ACTIVITIES

Based on 19.15.29.13 NMAC, all areas disturbed by the remediation have been reclaimed. Collected confirmation samples were placed into laboratory-provided sample containers, transferred under chain-ofcustody, 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 SM4500CI-B. The analytical results were directly compared to the reclamation requirements and established Site RRALs to demonstrate compliance. All final confirmation soil samples (floor and sidewall) were below applicable cleanup levels for chloride, TPH, and BTEX. Excavated areas, depths and

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confirmation sample locations are indicated in Figure 5. The results of the February 2024 confirmation sampling events are summarized in Table 5.

Once acceptable confirmation sample results were received, the excavation was backfilled with clean material to pre-release grade. In accordance with 19.15.29.12 NMAC, the reclaimed area contained a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by SM4500Cl-B. The soil cover included a top layer consisting of one foot of suitable material to establish vegetation at the site. The backfilled areas in the pasture were seeded following backfilling, to aid in revegetation. Based on the soils of the site, the NMSLO Sandy Loam (SL) Sites Seed Mixture was used for seeding and was planted in the amount specified in the pounds pure live seed (PLS) per acre. One (1) representative 5-point composite sample was collected from the backfill material used for the reclamation of the project site. Soil backfill composite sampling results are summarized in Table 6. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix F.

Site inspections will be performed annually to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. The NMSLO seed mixture details in corresponding pounds per live seed per acre are included in Appendix G. Reclamation activities have been implemented in consultation with the State Land Office in accordance with 19.2.100.67 NMAC for surface reclamations on State Oil and Gas Leases.

NMOCD REJECTION AND 2024 ADDITIONAL ASSESSMENT SAMPLING

A Closure Report dated April 2, 2024 was prepared by Tetra Tech on behalf of ConocoPhillips and submitted to the NMOCD for review. In an email dated April 16, 2024, Ms. Ashley Maxwell of the NMOCD asked for clarification on the 2022-2023 assessment activities:

"Can you address why sample SW24 wasn't addressed during the Tetra Tech's resampling event? The initial sample collected by White Buffalo exceeds closure and reclamation criteria at 1,049 TPH @ 1 foot bgs."

In response, Tetra Tech proposed to collect an additional soil sample from the 0-1 foot interval at the SW24 location for laboratory analysis. The Closure Report was subsequently rejected by NMOCD on April 19, 2024 with the following comments:

• "Tetra Tech is conducting additional sampling."

A copy of the regulatory correspondence is included in Appendix C.

On May 2, 2024, Tetra Tech personnel returned to the Site to install one (1) boring (SW 24-R) to 1 foot bgs at the previously sampled SW24 hand auger location. The sample location is indicated on Figure 5. One (1) soil sample was submitted to Cardinal Laboratories for analysis of chloride via Standard Method SM4500CI-B, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B.

Analytical results from the 2024 additional assessment are summarized in Table 7. Analytical results associated with the additional soil sample requested by the NMOCD were below the reclamation requirements and Site RRALs for all constituents. Toluene was detected at a concentration of 0.088 mg/kg. All other results were below the laboratory detection limits.

CONCLUSION

The Closure Report for the GJ West Coop South Tank Battery release was originally submitted to the NMOCD on April 5, 2024. Upon review, the NMOCD identified a data gap in the 2022-2023 resampling events (Appendix C). To address the NMOCD comment, Tetra Tech conducted additional soil sampling on behalf of ConocoPhillips at the 2018 SW24 sampling location in order to assess current soil concentrations

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at that location. The resampling event was conducted on May 2, 2024, and the analytical results were below the reclamation requirements and Site RRALs for all Table 1 constituents.

ConocoPhillips respectfully requests closure of the incident based on the confirmation sampling results and remedial activities performed, as well as the results of the 2024 additional assessment sampling requested by the NMOCD. The final C-141 forms are enclosed in Appendix A.

Sincerely, **Tetra Tech, Inc.**

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Samantha Abbott, P.G. Project Manager

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Christian M. Llull, P.G. Program Manager

cc: Mr. Ike Tavarez, RMR – ConocoPhillips

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LIST OF ATTACHMENTS

Figures:

- Figure 1 Overview Map
- Figure 2 Topographic Map
- Figure 3 Approximate Release Extent and Site Assessment (WBE)
- Figure 4 Initial Response by WBE
- Figure 5 Additional Site Assessment
- Figure 6 Remediation Extent and Confirmation Sampling Locations

Tables:

- Table 1 Summary of Analytical Results 2018 Sample Point Soil Assessment
- Table 2 Summary of Analytical Results 2018 Sidewall Soil Assessment
- Table 3 Summary of Analytical Results 2022 Additional Soil Assessment
- Table 4 Summary of Analytical Results 2023 Additional Soil Assessment
- Table 5 Summary of Analytical Results Soil Remediation
- Table 6 Summary of Analytical Results Soil Backfill
- Table 7 Summary of Analytical Results 2024 Additional Soil Assessment

Appendices:

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

FIGURES





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TABLES

TABLE 1 SUMMARY OF ANALYTICAL RESULTS 2018 SAMPLE POINT SOIL ASSESSMENT- 2RP-4923 / nMAP1822925828 CONOCOPHILLIPS GJ WEST COOP SOUTH TB RELEASE EDDY COUNTY, NM

											BTEX	2								T	PH ³		
Sample ID	Sample Date	Sample Depth	Field Screen	ing Results	Chlorid	le1	Benze		Tolue		Ethylben		Total Xv		Total B		GRO		DRO		EXT DI	RO	Total TPH
Sample ID	Sample Date		Chloride	PID			benze	ne	Tolue	ne	Ethylben	zene	TOLAT AV	enes	TOLAT D		C ₆ - C ₁	10	> C ₁₀ - 0	C ₂₈	> C ₂₈ -	C ₃₆	(GRO+DRO+EXT DRO)
		ft. bgs	рр	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
SP1	8/23/2018	3	< 30	35	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SP2	8/23/2018	3	< 30	19	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SP3	8/23/2018	3	< 30	40	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SP4	8/23/2018	3	< 30	48	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SP5	8/23/2018	3	68	112	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SP6	8/23/2018	3	< 30	80	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SP7	8/23/2018	3	< 30	92	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SP8	8/23/2018	3	< 30	52	96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		29.2		< 10.0		29.2
SP9	8/23/2018	2	< 30	12	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SP10	8/23/2018	2	< 30	51	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SP11	8/23/2018	4	278	12	640		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SP12	8/23/2018	6	278	12	656		< 0.050	QM-07	< 0.050	QM-07	< 0.050	QM-07	< 0.150	QM-07	< 0.300	QM-07	< 10.0		< 10.0		< 10.0		-
SP13	8/23/2018	2	147	18	128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SP14	8/23/2018	2	87	15	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SP15	8/23/2018	2	157	19	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SP16	9/14/2018	10	304	298	304		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		191		29.3		220
SP17	8/23/2018	3	< 30	72	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		58.1		11.7		69.8
SP18	8/23/2018	3	112	22	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		18.7		< 10.0		18.7
SP19	8/23/2018	2	40	6	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SP20	8/23/2018	2	95	4	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SP21	9/7/2018	2	42	9	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SP22	8/23/2018	2	52	2	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SP23	9/7/2018	2	45	15	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-

NOTES: ft. Feet

Released to Imaging: 6/21/2024 9:19:24 AM

.

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

Method SM4500Cl-B 1

2 Method 8021B

Method 8015M 3

based on acceptable LCS recovery.

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

TABLE 2 SUMMARY OF ANALYTICAL RESULTS 2018 SIDEWALL SOIL ASSESSMENT- 2RP-4923 / nMAP1822925828 CONOCOPHILLIPS GJ WEST COOP SOUTH TB RELEASE

											BTEX	2						TI	PH ³		
		Sample Depth	Field Screen	ning Results	Chlorid	e1										GRO	DRO)	EXT DR	10	Total TPH
Sample ID	Sample Date		Chloride	PID			Benzer	ne	Toluen	e	Ethylben	zene	Total Xy	lenes	Total BTEX	C ₆ - C ₁₀	> 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
SW1	9/11/2018	1	20	8	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW2	9/11/2018	1	56	45	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW3	9/11/2018	1	28	21	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW4	9/11/2018	1	70	62	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	42.8		< 10.0		42.8
SW5	9/11/2018	1	80	0	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW6	9/11/2018	1	52	0	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW7	9/11/2018	1	70	0	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW8	9/11/2018	1	84	0	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW9	9/11/2018	1	42	0	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW10	9/11/2018	1	70	0	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW11	9/11/2018	1	46	9	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW12	9/11/2018	1	70	0	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW13	9/11/2018	1	74	0	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW14	9/11/2018	1	52	19	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW15	9/11/2018	1	60	0	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW16	9/11/2018	1	52	0	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW17	9/11/2018	1	54	4	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW18	9/11/2018	1	40	2	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW19	9/11/2018	1	68	12	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW20	9/11/2018	1	92	0	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW21	9/11/2018	1	58	0	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW22	9/11/2018	1	71	0	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW23	9/11/2018	1	58	0	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	28.7		< 10.0		28.7
SW24	9/11/2018	1	70	0	224		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	869		180		1,049
SW25	9/11/2018	1	65	3	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW26	9/14/2018	6	70	68	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW27	9/13/2018	1	50	5	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW28	9/14/2018	5	320	104	464		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW29	9/13/2018	1	< 30	4	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW30	9/13/2018	1	68	605	112		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	515		77.9		593
SW31	9/14/2018	3	394	10	384		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW32	9/14/2018	8	46	4	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW33	9/13/2018	1	52	4	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW34	9/13/2018	1	52	10	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW35	9/13/2018	1	62	0	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW36	9/13/2018	1	70	2	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW37	9/14/2018	1	60	0	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW38	9/14/2018	1	45	0	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW39	9/14/2018	1	20	4	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW40	9/14/2018	1	68	31	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	21.8		< 10.0		21.8
SW41	9/14/2018	1	189	0	208		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW42	9/14/2018	1	169	7	192		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-
SW43	9/14/2018	1	62	301	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	261		30.9		292
SW44	9/14/2018	1	< 30	2	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	< 10.0		< 10.0		-

NOTES:

Released to Imaging: 6/21/2024 9:19:24 AM

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram TPH Total Petroleum Hydrocarbons QUALIFIERS:

based on acceptable LCS recovery.

QM-07

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500CI-B

2 Method 8021B

3 Method 8015M

Page 19 of 89

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

TABLE 3 SUMMARY OF ANALYTICAL RESULTS 2022 ADDITIONAL SOIL ASSESSMENT- nMAP1822925828/2RP-4923 CONOCOPHILLIPS GJ WEST COOP SOUTH TB RELEASE EDDY COUNTY, NM

									BTEX	2								TI	ън³		
		Sample Depth	Chlorid	le ¹	Benzei	ne	Toluer	e	Ethylben	zene	Total Xyle	enes	Total BT	EX	GRO		DRO		EXT D		Total TPH
						-		-							C ₆ - C ₁	10	> C ₁₀ -	C ₂₈	> C ₂₈ -	C ₃₆	(GRO+DRO+EXT DRO)
Sample ID	Sample Date	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
		Closure Criteria for Pasture / Off-Pad Soils 0-4' bgs:	<u>600 mg</u> ,	/kg	<u>< 10 mg</u>	<u>/kg</u>	-		-		-		<u>< 50 mg/</u>	′kg	-		-		-		<u>100 mg/kg</u>
		Closure Criteria for Soils >4' bgs (GW >100 ft):	<u>10,000 m</u>	g/kg	<u>< 10 mg</u>	<u>/kg</u>	-		-		-		<u>< 50 mg/</u>	′kg	-		-		-		<u>2,500 mg/kg</u>
SP 2 - 22	11/8/2022	0-1	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
SP 4 - 22	11/8/2022	1-2	96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
SP 7 - 22	11/8/2022	0-1	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
SP 11 - 22	11/8/2022	0-1	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
3P 11 - 22	11/8/2022	2-3	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
SP 13 - 22	11/8/2022	1-2	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		0-1	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
SP 16 -22	11/8/2022	2-3	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		5-6	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
SP 17 - 22	11/8/2022	0-1	64.0	S-04	<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		771		177		948
SP 18 - 22	11/8/2022	0-1	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
SP 21 - 22	11/8/2022	1-2	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
SW 26 - 22	11/8/2022	1-2	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
500-22	11/0/2022	4-5	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
SW 32 - 22	11/8/2022	0-1	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
5 52 22	11,0,2022	2-3	32.0		<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 Remediation RRALs and/or Reclamation Requirements.

bgs Below ground surface

mg/kg Milligrams per kilogram трн

Total Petroleum Hydrocarbons Gasoline range organics

GRO Diesel range organics DRO

Method SM4500CI-B

1 2 Method 8021B

Method 8015M з

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

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

TABLE 4 SUMMARY OF ANALYTICAL RESULTS 2023 ADDITIONAL SOIL ASSESSMENT- nMAP1822925828/2RP-4923 CONOCOPHILLIPS GJ WEST COOP SOUTH TB RELEASE EDDY COUNTY, NM

									BTEX	(²								Т	PH ³		
		Sample Depth	Chloric	de1	Benze	ne	Tolue	ne	Ethylben	zene	Total Xyl	enes	Total B	FX	GRO		DRO	1	EXT DE	10	Total TPH
					Denie		Tonac		Lunyhoen		iotai Ayi	enes	Total D		C ₆ - C ₁	10	> C ₁₀ -	C ₂₈	> C ₂₈ -	C ₃₆	(GRO+DRO+EXT DRO)
Sample ID	Sample Date	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
		Closure Criteria for Pasture / Off-Pad Soils 0-4' bgs:	<u>600 mg</u>	<u>/kg</u>	<u>< 10 mg</u>	<u>/kg</u>	-		-		-		<u>< 50 mg</u>	/kg	-		-		-		<u>100 mg/kg</u>
		Closure Criteria for Soils >4' bgs (GW >100 ft):	<u>10,000 m</u>	g/kg	<u>< 10 mg</u>	/kg	-		-		-		<u>< 50 mg,</u>	/kg	-		-		-		<u>2,500 mg/kg</u>
		1-2	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
SP-17-22	9/13/2023	2-3	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		108		30.4		138.4
		5-6	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-1	9/13/2023	0-1	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-2	9/13/2023	0-1	16.0		<0.050	QM-07	<0.050	QM-07	<0.050	QM-07	<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-3	9/13/2023	0-1	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-4	9/13/2023	0-1	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-5	9/13/2023	0-1	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-6	9/13/2023	0-1	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-7	9/13/2023	0-1	32.0		<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 SM4500CI-B

2 Method 8021B

3 Method 8015M

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

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

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

TABLE 5 SUMMARY OF ANALYTICAL RESULTS SOIL REMEDIATION - nMAP1822925828/2RP-4923 CONOCOPHILLIPS GJ WEST COOP SOUTH TB RELEASE EDDY COUNTY, STATE

									BTEX ²	2								TF	РН ³		
Sample ID	Sample Date	Sample Depth	Chlorid	le ¹	Benzer	20	Toluer		Ethylbenz	iono	Total Xyle	onoc	Total B1	EV	GRO		DRO		EXT DF	NO	Total TPH
Sample ID	Sample Date				Delizei	le	Toluei	le	Ethyibeliz	ene	ΤΟτάι Χγι	enes	TOLAT D	LA	C ₆ - C ₁	.0	> C ₁₀ - 0	C ₂₈	> C ₂₈ -	C ₃₆	(GRO+DRO+EXT DRO)
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
NSW-1	2/27/2024	-	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
ESW-1	2/27/2024	-	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
WSW-1	2/27/2024	-	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
SSW-1	2/27/2024	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		12.2		10.6		22.8
FS-1	2/27/2024	-	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-

NOTES: ft. Feet

Below ground surface bgs

mg/kg Milligrams per kilogram

Total Petroleum Hydrocarbons TPH

Gasoline range organics GRO

DRO Diesel range organics

Method SM4500Cl-B 1

Method 8021B 2

Method 8015M 3

-

TABLE 6 SUMMARY OF ANALYTICAL RESULTS SOIL BACKFILL CONOCOPHILLIPS CAVENESS PIT (32.7486806, -103.8670468) EDDY COUNTY, STATE

								BTEX	2								TF	۲H³		
Sample ID	Sample ID Sample Date	Chlorid	le ¹	Benzer	20	Toluen	•	Ethylbenz	2000	Total Xyle	noc	Total B	EV	GRO		DRO		EXT DR	0	Total TPH
Sample ID	Sample Date			Delizei	le	Toluell	e	Ethylbenz	Lene		illes	TOTAL	EA	C ₆ - C ₁	.0	> C ₁₀ - 0	C ₂₈	> C ₂₈ - C	2 ₃₆	(GRO+DRO+EXT DRO)
		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
BACKFILL - COMPOSITE	2/27/2024	<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

-

TABLE 7 SUMMARY OF ANALYTICAL RESULTS 2024 ADDITIONAL SOIL ASSESSMENT - nMAP1822925828/2RP-4923 CONOCOPHILLIPS GJ WEST COOP SOUTH TB RELEASE EDDY COUNTY, NM

									BTEX ²	!								TF	νH³		
	Sampla Data	Sample Depth	Chlorid	Chloride ¹	Bonzon		Toluon		Ethylbon	1000	Total Vy/	2006	Total BT	ĒV	GRO		DRO		EXT DR	0	Total TPH
Sample ID Sample Date				Denzen	le	roluen	le	Ethylbenz	ene	TOLALAYI	enes		EA	C ₆ - C ₁	0	> C ₁₀ - C	28	> C ₂₈ - 0	2 ₃₆	(GRO+DRO+EXT DRO)	
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
4-R	5/2/2024	0-1	32		<0.050		0.088		<0.050		<0.150		0.088		<10.0		<10.0		<10.0		-
	l e ID 24-R		le ID Sample Date ft. bgs	Ile ID Sample Date ft. bgs mg/kg	Sample Date ft. bgs mg/kg Q	Sample Date Benzen ft. bgs mg/kg Q mg/kg	Sample Date ft. bgs mg/kg Q mg/kg Q	Ie ID Sample Date Toluen ft. bgs mg/kg Q mg/kg Q	Sample Date ft. bgs mg/kg Q mg/kg Q mg/kg Q	Sample Date Image: Sample Date Image: Sample Date Image: Sample Date Toluene Ethylbenz ft. bgs mg/kg Q mg/kg Q mg/kg Q mg/kg Q mg/kg	Image: Sample Date Sample Date Image: Sample Date Image: Sample Date Toluene Ethylbenzene ft. bgs mg/kg Q Mg/kg	Sample Date Image: Sample Date Image: Sample Date Image: Sample Date Image: Sample Date Ethylbenzene Total Xyle ft. bgs mg/kg Q Mg/kg Q </td <td>Image: Sample Date Sample Date Image: Sample Date Image: Sample Date Image: Sample Date Total Xylenes ft. bgs mg/kg Q Mg/kg</td> <td>Image: Sample Date Sample Date Image: Sample Date Image: Sample Date Image: Sample Date Total Xylenes Total Xylenes Total BT ft. bgs mg/kg Q Mg/kg Q</td> <td>Image: Sample Date Sample Date Image: Sample</td> <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td>	Image: Sample Date Sample Date Image: Sample Date Image: Sample Date Image: Sample Date Total Xylenes ft. bgs mg/kg Q Mg/kg	Image: Sample Date Sample Date Image: Sample Date Image: Sample Date Image: Sample Date Total Xylenes Total Xylenes Total BT ft. bgs mg/kg Q Mg/kg Q	Image: Sample Date Sample Date Image: Sample	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$

<u>NOTES:</u>

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

-

APPENDIX A C-141 Forms

State of New Mexico Energy Minerals and Natural Resources

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

Form C-141 Revised April 3, 2017

Page 26 of 89

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

Release Notification and Corrective Action

		OPERATOR		Initial Report	Final	Report
Name of Company: COG Operating, LLC (2291	.37)	Contact:	Robert McN	eill		
Address: 600 West Illinois Avenue, Midland, 7	TX 79701	Telephone No.	432-683-7443	3		
Facility Name: G J West Coop Unit South		Facility Type: Tank E	Battery			
Surface Owner: State	Mineral Owner	: State		API No.		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
В	28	17S	29E					Eddy

Latitude 32.81101574 Longitude -104.07570738 NAD83

NATURE OF RELEASE

Type of Release		Volume of Release	Volume Re	ecovered		
	Oil	34 bbl.		5 bbl.		
Source of Release		Date and Hour of Occurrence	Date and H	Iour of Discovery		
	Open Valve	August 10, 2018 12:00am	August 10,	, 2018 12:00am		
Was Immediate Notice Gi	ven?	If YES, To Whom?				
	🛛 Yes 🗌 No 🗌 Not Required	Mike Bratcher – NMOCD				
		Maria Pruett – NMOCD				
		Ryan Mann – SLO				
By Whom? Dakota Neel		Date and Hour August 10, 2018 5:	05pm			
Was a Watercourse Reach	ned?	If YES, Volume Impacting the Wa				
	🗌 Yes 🖾 No					
If a Watercourse was Imp	acted, Describe Fully.*					
Describe Cause of Problem	m and Remedial Action Taken.*					
	ard a state of the					
	y a 3 rd party leaving the proving valves open. Th	e valves were closed.				
Describe Area Affected and Cleanup Action Taken.*						
	sture. A vacuum truck was dispatched to remove					
	elease and we will present a remediation work p					
	formation given above is true and complete to the					
	re required to report and/or file certain release n					
	onment. The acceptance of a C-141 report by the					
	ve failed to adequately investigate and remediat					
	dition, NMOCD acceptance of a C-141 report d	oes not relieve the operator of respons	sibility for co	mpliance with any other		
federal, state, or local law	s and/or regulations.					
		OIL CONSERV	VATION	DIVISION		
	DA Ame					
Signature:	DelinnOpeant					
	0.	Approved by Environmental Specialist:				
Printed Name:	DeAnn Grant					
Title:	HSE Administrative Assistant	Approval Date:	Expiration D	Date:		
E-mail Address:	agrant@concho.com	Conditions of Approval:		Attached		
Date: August 13, 2018	Phone: (432) 253-4513					

* Attach Additional Sheets If Necessary

Received by OCD: 6/3/2024 12:15:07 PM Form C-141 State of New Mexico

Oil Conservation Division

	Page 27 of 89
Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

Laboratory data including chain of custody

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

Received by OCD: 6/3/202	24 12:15:07 PM State of New Mexic	20		Page 28 of 89
			Incident ID	
Page 4	Oil Conservation Divi	sion	District RP	
			Facility ID	
			Application ID	
regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations. Printed Name: Signature:	Ch ST	ase notifications and perform c by the OCD does not relieve th se a threat to groundwater, surfa- rator of responsibility for comp Title: Date:	orrective actions for rele e operator of liability she ace water, human health liance with any other fee	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only				
Received by: Shelly Wel	lls	Date: <u>11/9/2</u>	2023	

Received by OCD: 6/3/2024 12:15:07 PM Form C-141 State of New Mexico

Page 5

Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Title: Printed Name: Date: email: Telephone: _____ OCD Only Received by: Shelly Wells Date: 11/9/2023 Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date:

Page 6

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

<u>Closure Report Attachment Checklist</u>: Each of the following it	tems must be included in the closure report.				
A scaled site and sampling diagram as described in 19.15.29.11 NMAC					
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)					
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)					
Description of remediation activities					
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rer human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the co- accordance with 19.15.29.13 NMAC including notification to the O	Ations. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.				
email:	Telephone:				
OCD Only					
Received by:	Date:				
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.					
Closure Approved by:	Date:				
Printed Name:	Title:				

APPENDIX B Site Characterization Data



(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)	(quarters are 1=NW (quarters are smalle		E) IAD83 UTM in meters)	(In feet)
POD Number	POD Sub- Code basin Cou	QQQ Inty 64 16 4 Sec Tws	Rng X	Y Distanc	Depth Depth Water ce Well Water Column
RA 11807 POD1	RA EI	-		3631585 🌍 104	45 131 76 55
				Average Depth	to Water: 76 feet
				Minimu	Im Depth: 76 feet
				Maximu	Im Depth: 76 feet
Pocord Count: 1					

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 586743

Northing (Y): 3630740.96

Radius: 1200

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

OCD Karst Potential Map





Inc., NGA, USGS

OCD Mineral & Surface Ownership



9/26/2023, 10:06:04 AM

Mineral Ownership



N-No minerals are owned by the U.S.

Land Ownership

S



U.S. BLM, Maxar, Microsoft, Esri, HERE, Garmin, iPC

•

OCD Waterbodies Map



9/23/2022, 3:49:17 PM

OSE Streams



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

APPENDIX C Regulatory Correspondence
From:	OCDOnline@state.nm.us
To:	Llull, Christian
Subject:	The Oil Conservation Division (OCD) has approved the application, Application ID: 284157
Date:	Thursday, November 30, 2023 9:56:21 AM

To whom it may concern (c/o Christian Llull for COG OPERATING LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nMAP1822950996, with the following conditions:

• Remediation plan approved. Submit report via the OCD permitting portal by May 14, 2024.

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you, Ashley Maxwell Projects Environmental Specialist - A 505-635-5000 Ashley.Maxwell@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

From:	<u>Knight, Tami C.</u>
To:	<u>Llull, Christian</u>
Cc:	Chama, Sam; Poole, Nicholas; Barnes, Will; Griffin, Becky R.; David, Deon W.
Subject:	Remediation Plan_NMAP1822950996 _GJ West Coop_FINAL.pdf - Approved
Date:	Friday, December 15, 2023 9:25:51 AM
Attachments:	image001.jpg
	image002.jpg
	image003.jpg
	image004.jpg

Documentation of proposed remediation actions for the subject was received from your office on November 30, 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. Please submit the remediation closure report to <u>eco@slo.state.nm.us</u>.

Environmental Compliance Office

Surface Resources Division eco@slo.state.nm.us nmstatelands.org

.....

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From:	OCDOnline@state.nm.us
То:	<u>Llull, Christian</u>
Subject:	The Oil Conservation Division (OCD) has accepted the application, Application ID: 316619
Date:	Thursday, February 22, 2024 11:26:25 AM

To whom it may concern (c/o Christian Llull for COG OPERATING LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nMAP1822950996.

The sampling event is expected to take place:

When: 02/27/2024 @ 10:00 **Where:** B-28-17S-29E 0 FNL 0 FEL (32.811015,-104.075707)

Additional Information: GJ West Coop South TB Release ConocoPhillips - Heritage COG Operating LLC Section 34, Township 17 South, Range 27 East Eddy County, New Mexico INCIDENT ID nMAP1822950996 DOR: 8/10/2018 Landowner: NMSLO Release Location: 32.81101574, -104.07570738

Additional Instructions: GJ West Coop South TB Release ConocoPhillips - Heritage COG Operating LLC Section 34, Township 17 South, Range 27 East Eddy County, New Mexico INCIDENT ID nMAP1822950996 DOR: 8/10/2018 Landowner: NMSLO Release Location: 32.81101574, -104.07570738

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

From:	Maxwell, Ashley, EMNRD
То:	Llull, Christian; Abbott, Sam
Subject:	NMAP1822950996 G J WEST COOP UNIT SOUTH Reclamation
Date:	Tuesday, April 16, 2024 10:39:10 AM
Attachments:	APP 330603 991670.pdf

Good Morning,

Can you address why sample SW24 wasn't addressed during the Tetra Tech's resampling event? The initial sample collected by White Buffalo exceeds closure and reclamation criteria at 1,049 TPH @ 1 foot bgs.

Ashley Maxwell • Environmental Specialist Environmental Bureau Projects Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 505.635.5000 | Ashley.Maxwell@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMRND Website prior to submitting any C-141s. The guidance documents can be found at https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ or https://www.emnrd.nm.gov/ocd/ocd-forms/.

From:	Maxwell, Ashley, EMNRD
То:	Abbott, Sam; Llull, Christian
Subject:	RE: [EXTERNAL] RE: NMAP1822950996 G J WEST COOP UNIT SOUTH Reclamation
Date:	Friday, April 19, 2024 10:29:05 AM
Attachments:	image001.png
	image002.png
	image003.png
	image004.png
	image005.png

Not a problem. I'm going to move forward with rejecting the initial report so that this new sampling will be included.

Thanks!

Ashley

Ashley Maxwell • Environmental Specialist Environmental Bureau Projects Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 505.635.5000 | Ashley.Maxwell@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMRND Website prior to submitting any C-141s. The guidance documents can be found at https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ or https://www.emnrd.nm.gov/ocd/ocd-forms/.

From: Abbott, Sam <Sam.Abbott@tetratech.com>
Sent: Friday, April 19, 2024 9:22 AM
To: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>; Llull, Christian
<Christian.Llull@tetratech.com>
Subject: [EXTERNAL] RE: NMAP1822950996 G J WEST COOP UNIT SOUTH Reclamation

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

Hi Ashley,

It appears that this may have been an unintentional oversight at the time of the additional assessment.

With OCD approval, Tetra Tech and ConocoPhillips propose to collect an additional soil sample from the 0-1' interval at the SW24 location to be analyzed for Table I constituents and characterize the current soil concentrations.

Thank you,

Sam

Samantha Abbott, PG | Project Manager Direct Mobile +1 (512) 739-7874 | Business +1 (512) 338-1667 | Sam.Abbott@tetratech.com

Tetra Tech, Inc. | Leading with Science[®] | OGA

8911 N Capital of Texas Hwy #2310 | Austin, TX 78759 | tetratech.com

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F Sease consider the environment before printing. Read more



From: Maxwell, Ashley, EMNRD <<u>Ashley.Maxwell@emnrd.nm.gov</u>>
Sent: Tuesday, April 16, 2024 10:38 AM
To: Llull, Christian <<u>Christian.Llull@tetratech.com</u>>; Abbott, Sam <<u>Sam.Abbott@tetratech.com</u>>
Subject: NMAP1822950996 G J WEST COOP UNIT SOUTH Reclamation

Abbott, Sam

From:	Llull, Christian
Sent:	Friday, April 19, 2024 10:33 AM
То:	Tavarez, Ike
Cc:	Abbott, Sam
Subject:	FW: The Oil Conservation Division (OCD) has rejected the application, Application ID: 330603
Follow Up Flag:	Follow up

Flag Status: Flagged

Rejected – requires additional sampling and report revisions.

GJ West Coop South TB Release ConocoPhillips - Heritage COG Operating LLC Section 34, Township 17 South, Range 27 East Eddy County, New Mexico INCIDENT ID nMAP1822950996 2RP-4923 DOR: 8/10/2018 Landowner: NMSLO Release Location: 32.81101574, -104.07570738

Christian

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Friday, April 19, 2024 10:30 AM
To: Llull, Christian <christian.llull@tetratech.com>
Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 330603

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

To whom it may concern (c/o Christian Llull for COG OPERATING LLC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nMAP1822950996, for the following reasons:

• Tetra Tech is conducting additional sampling.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 330603. Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you, Ashley Maxwell Projects Environmental Specialist - A

.

505-635-5000 Ashley.Maxwell@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

APPENDIX D Photographic Documentation







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APPENDIX E Waste Manifests

Received by OCD: 6/3/2024 12:13 RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	IKE TAVAREZ		Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County		^{>} UNIT
Facility: CRI						
Product / Service			Quantity U	nits		
Contaminated Soil (RCRA Exem	ipt)		16.00	yards		
Generator Certification Stateme	nt of Waste Sta	atus				
I hereby certify that according to the I 1988 regulatory determination, the ab X RCRA Exempt: Oil Field wastes RCRA Non-Exempt: Oil field wa characteristics established in RCRA r amended. The following documentation MSDS Information RCRA I	ove described wa generated from o ste which is non- egulations, 40 CF ion is attached to	ste is: il and gas exploration hazardous that does n R 261.21-261.24 or lis demonstrate the abov	and production ot exceed the mi sted hazardous w e-described wast	operations and nimum standar aste as defined te is non-hazard	are not mixed with 1 ds for waste hazardo in 40 CFR, part 261 dous. (Check the app	non-exempt wast ous by l, subpart D, as propriate items):
Driver/ Agent Signature		R360 Rep	resentative S	gnature		
Customer Approval						
	THI	S IS NOT AI		E!		
Approved By:			Date:			

Received by OCD: 6/3/2024 12:15 RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	IKE TAVAREZ		Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well A: Field: Field #: Rig: County	999908		
Facility: CRI							
Product / Service			Quantity U	Inits			
Contaminated Soil (RCRA Exemp	ot)		16.00 yards				
Generator Certification Statemen I hereby certify that according to the Re 1988 regulatory determination, the abo X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentation MSDS Information RCRA H Driver/ Agent Signature	esource Conserv ve described wa enerated from o te which is non- gulations, 40 CF on is attached to	vation and Recovery ste is: il and gas exploration hazardous that does n R 261.21-261.24 or li demonstrate the abov Analysis Proce	n and production not exceed the mi sted hazardous w we-described was	operations and inimum standar vaste as defined te is non-hazard Other (Prov	are not mixed with n ds for waste hazardou in 40 CFR, part 261,	on-exempt waste is by subpart D, as opriate items):	
Customer Approval							
	THI	S IS NOT A		E!			
Approved By:			Date:				

Received by OCD: 6/3/2024 12:15:0 RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	IKE TAVAREZ		Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County		P UNIT
Facility: CRI						
Product / Service	A MARKET AND		Quantity U	nits		
Contaminated Soil (RCRA Exemp	t)		8.00	yards		
Generator Certification Statement I hereby certify that according to the Re 1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentation MSDS Information RCRA Ha	source Conserv e described wa nerated from oi which is non-l ulations, 40 CF n is attached to	vation and Recovery ste is: 1 and gas exploration nazardous that does n R 261.21-261.24 or li demonstrate the abo	n and production not exceed the mi sted hazardous w ve-described was	operations and nimum standard aste as defined te is non-hazard	are not mixed with 1 ds for waste hazardo in 40 CFR, part 261 dous. (Check the apr	non-exempt wasto bus by l, subpart D, as propriate items);
Driver/ Agent Signature	Serie Barrier	R360 Rep	presentative Sig	gnature		
Customer Approval						
	THI	S IS NOT A		E!		
Approved By:			Date:			

Received by OCD: 6/3/2024 12:15:0 RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	IKE TAVAREZ	Bid Date Ger Ger Wel Wel	e: herator: Il Ser. #: Il Name: Il #: d: d:	
Facility: CRI					
Product / Service			Quantity Units		
Contaminated Soil (RCRA Exemp	t)		8.00 yards	S	
Generator Certification Statement I hereby certify that according to the Re 1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentation MSDS Information _ RCRA Ha	esource Conserv ve described was enerated from oi e which is non-l gulations, 40 CF n is attached to	vation and Recovery Act (ste is: 1 and gas exploration and nazardous that does not ex R 261.21-261.24 or listed demonstrate the above-de	production opera ceed the minimu nazardous waste a scribed waste is r	ntions and m standard as defined non-hazard	are not mixed with non-exempt wast ds for waste hazardous by in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
Driver/ Agent Signature		R360 Represe	entative Signat	ure	
Customer Approval Approved By:	THI	S IS NOT AN I	NVOICE!	R	
30					

Received by OCD: 6/3/2024 12:15:0 RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	CONOCOPHILLIF CRI2190 IKE TAVAREZ 04 2/28/2024 MCNABB PARTN ISAIAH M09			
Facility: CRI					
Product / Service			Quantity U	Inits	
Contaminated Soil (RCRA Exemp	t)		8.00	yards	
I hereby certify that according to the Re 1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentation MSDS Information RCRA Ha	ve described wa enerated from o e which is non- gulations, 40 CF n is attached to	aste is: il and gas exploration hazardous that does r R 261.21-261.24 or li demonstrate the above	and production not exceed the m sted hazardous w we-described was	operations and inimum standar vaste as defined ite is non-hazard	are not mixed with non-exempt waster rds for waste hazardous by l in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
Driver/ Agent Signature		R360 Rep	resentative Si	gnature	
Customer Approval	THI	S IS NOT A	N INVOIC	Engl	/
Approved By:			Date:		

Received by OCD: 6/3/2024 12:15 RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	IKE TAVAREZ	Ticket #: Bid #: Date: Generator: Generator # Well Ser. #: Well Name: Well Name: Vell #: Field: Field #: Rig: County	999908		
Facility: CRI						
Product / Service		Qı	antity Units			
Contaminated Soil (RCRA Exem	pt)		8.00 yards			
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 Represen	tative Signature			
Customer Approval		-	GN			
	THI	S IS NOT AN IN	IVOICE!			
Approved By:		Da	ite:			

.

APPENDIX F Analytical Laboratory Data



February 28, 2024

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

RE: GJ WEST LOOP SOUTH TB RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/27/24 16:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	02/27/2024	Sampling Date:	02/27/2024
Reported:	02/28/2024	Sampling Type:	Soil
Project Name:	GJ WEST LOOP SOUTH TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD 02848	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO NM		

Sample ID: NSW - 1 (H240963-01)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2024	ND	2.12	106	2.00	4.53	
Toluene*	<0.050	0.050	02/27/2024	ND	2.09	105	2.00	4.91	
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.06	103	2.00	4.43	
Total Xylenes*	<0.150	0.150	02/27/2024	ND	6.01	100	6.00	4.68	
Total BTEX	<0.300	0.300	02/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.6	% 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	32.0	16.0	02/28/2024	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	02/28/2024	ND	187	93.4	200	0.797	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	174	86.8	200	0.839	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					
Surrogate: 1-Chlorooctane	117 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	0						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/27/2024	Sampling Date:	02/27/2024
Reported:	02/28/2024	Sampling Type:	Soil
Project Name:	GJ WEST LOOP SOUTH TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD 02848	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO NM		

Sample ID: ESW - 1 (H240963-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2024	ND	2.12	106	2.00	4.53	
Toluene*	<0.050	0.050	02/27/2024	ND	2.09	105	2.00	4.91	
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.06	103	2.00	4.43	
Total Xylenes*	<0.150	0.150	02/27/2024	ND	6.01	100	6.00	4.68	
Total BTEX	<0.300	0.300	02/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/28/2024	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	02/28/2024	ND	187	93.4	200	0.797	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	174	86.8	200	0.839	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					
Surrogate: 1-Chlorooctane	123 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/27/2024	Sampling Date:	02/27/2024
Reported:	02/28/2024	Sampling Type:	Soil
Project Name:	GJ WEST LOOP SOUTH TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD 02848	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO NM		

Sample ID: WSW - 1 (H240963-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2024	ND	2.12	106	2.00	4.53	
Toluene*	<0.050	0.050	02/27/2024	ND	2.09	105	2.00	4.91	
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.06	103	2.00	4.43	
Total Xylenes*	<0.150	0.150	02/27/2024	ND	6.01	100	6.00	4.68	
Total BTEX	<0.300	0.300	02/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.5	% 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	32.0	16.0	02/28/2024	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	02/28/2024	ND	187	93.4	200	0.797	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	174	86.8	200	0.839	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.6	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/27/2024	Sampling Date:	02/27/2024
Reported:	02/28/2024	Sampling Type:	Soil
Project Name:	GJ WEST LOOP SOUTH TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD 02848	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO NM		

Sample ID: SSW - 1 (H240963-04)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2024	ND	2.12	106	2.00	4.53	
Toluene*	<0.050	0.050	02/27/2024	ND	2.09	105	2.00	4.91	
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.06	103	2.00	4.43	
Total Xylenes*	<0.150	0.150	02/27/2024	ND	6.01	100	6.00	4.68	
Total BTEX	<0.300	0.300	02/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/28/2024	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	02/28/2024	ND	196	97.9	200	2.72	
DRO >C10-C28*	12.2	10.0	02/28/2024	ND	192	95.8	200	2.52	
EXT DRO >C28-C36	10.6	10.0	02/28/2024	ND					
Surrogate: 1-Chlorooctane	124 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/27/2024	Sampling Date:	02/27/2024
Reported:	02/28/2024	Sampling Type:	Soil
Project Name:	GJ WEST LOOP SOUTH TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD 02848	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO NM		

Sample ID: FS - 1 (H240963-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2024	ND	2.12	106	2.00	4.53	
Toluene*	<0.050	0.050	02/27/2024	ND	2.09	105	2.00	4.91	
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.06	103	2.00	4.43	
Total Xylenes*	<0.150	0.150	02/27/2024	ND	6.01	100	6.00	4.68	
Total BTEX	<0.300	0.300	02/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 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	32.0	16.0	02/28/2024	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	02/28/2024	ND	196	97.9	200	2.72	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	192	95.8	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.0	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/27/2024	Sampling Date:	02/27/2024
Reported:	02/28/2024	Sampling Type:	Soil
Project Name:	GJ WEST LOOP SOUTH TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD 02848	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO NM		

Sample ID: BACKFILL - COMPOSITE (H240963-06)

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	02/27/2024	ND	2.12	106	2.00	4.53	
Toluene*	<0.050	0.050	02/27/2024	ND	2.09	105	2.00	4.91	
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.06	103	2.00	4.43	
Total Xylenes*	<0.150	0.150	02/27/2024	ND	6.01	100	6.00	4.68	
Total BTEX	<0.300 0.300		02/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.7	% 71.5-13	4						
Chloride, SM4500Cl-B	de, SM4500Cl-B mg/kg								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/28/2024	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	02/28/2024	ND	196	97.9	200	2.72	
DRO >C10-C28*	<10.0 10.0		02/28/2024	ND	192	95.8	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					
Surrogate: 1-Chlorooctane	115 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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101 East Marland, Hobbs, NM 88240

Page 66 of 89

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinguished By: City: analyses. All claims including those for negligence and any service. In no event shall Cardinal be liable for incidental or Project Name: Company Name: Relinquished By: Project Location: Project #: 2/2C-Phone #: Project Manager: PLEASE NOTE: Liability and Dar Sampler Name: Sampler - UPS - Bus - Other: Address: Delivered By: (Circle One) 241BH2 FOR LAB USE ONLY Lab I.D Andrew S-GLDE 6 GJ West Coop South Garace Backfill- Composite (575) 393-2326 FAX (575) 393-2476 * Source of Eddy 6 MD-02848 for negligence and any other onoco - Phulips Cardinal's liability and client's exclusive remedy for any claim WSK-NSK-ESW -5522-Mostica ted to the FS-Sample I.D. Ě yarca 23 Corrected Temp. °C Observed Temp. °C Project Owner Lucy Time: 22 Fax #: Time: Date: † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com 27 Feb 25 Date: ntal dar State: ages, including without limitation, business inter shall be dee ider by Zip: して G)RAB OR (C)OMP der IB **Received By** Received By: **# CONTAINERS** Remediat GROUNDWATER Cool Intact Sample Condition WASTEWATER made in writing and rece MATRIX XE SOIL × OIL ions, loss of use, or SLUDGE backfill material: State: OTHER City: Fax #: Phone #: Company: Tetra P.O. #: Address: Attn: Christian 444 shall be limited to the amount paid by the client for the ved by Cardinal within 30 days after completion of the applicable ACID/BASE: PRESERV CHECKED BY: ×₹ ICE / COOL loss of profits inc BILL TO (Initials) OTHER Zip Feb 27 2024 DATE SAMPLING ed by client, its subsidiaries Tech Thermometer ID #113 Correction Factor -0.6°C Turnaround Time: All Results are emailed. Please provide Email address: REMARKS: 1000 1400 1030 Verbal Result: 1130 100 TIME 50 Chastian Lucy e Fotate ch. com Nicholes, Poole e Fetatech, con, Sam. Abbott entrate in con Caveness TPH □ Yes BTEX × X Standard 24 HR Chlondes 4500 ON D Pit ANALYSIS Add'l Phone #: 1 Cool Intact Bacteria (only) Sample Condition 202 Yes Yes REQUEST 7486806 Samathe. Allence Usbat Observed Temp. °C Corrected Temp. °C 1 Chenn 103 HOLDS. ertates and a Page 9 of 9



May 08, 2024

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

RE: GJ WEST COOP SOUTH TB RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 05/02/24 9:34.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	GJ WEST COOP SOUTH TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02848	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO NM		

Sample ID: SW 24-R (0-1') (H242358-01)

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	05/04/2024	ND	2.22	111	2.00	14.8	
Toluene*	0.088	0.050	05/04/2024	ND	2.19	110	2.00	15.0	
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	2.25	112	2.00	14.3	
Total Xylenes*	<0.150	0.150	05/04/2024	ND	6.71	112	6.00	13.8	
Total BTEX	<0.300 0.300		05/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/07/2024	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	05/03/2024	ND	198	98.9	200	1.40	
DRO >C10-C28*	<10.0 10.0		05/03/2024	ND	207	104	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					
Surrogate: 1-Chlorooctane	e: 1-Chlorooctane 112 % 48.2-13		4						
Surrogate: 1-Chlorooctadecane	126 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Sampler - UPS - Bus - Other: FORM-006 R 3.2 10/07/21		Relinauished By:	Relinquished By: Colton Bickerstaff	filiates or successors arising o	LEASE NOTE: Liablity and Dam							1	424-2353	Lab I.D.	FOR LAB USE ONLY	Sampler Name: C	Project Name: G.	Project #:	Phone #:	City: Austin	Address: 8911 C	Project Manager: Sam Abbott	Company Mane. Tend Tech	Company Namo	
- Other: 3.2 10/07/21			Colton Bickerstaff	incidental or consequental damages ut of or related to the performance of	ages. Cardinal's liability and client's excli							SW24-R (0-1')	Sample I.D.		OTOTI DICKETSTATT	Sampler Name: College Biology, New Mexico	Project Name: GJ West Coop South Tank Battery Release	212C-MD-02848	(512) 565-0190		Address: 8911 Capital o Texas Hwy, Suite 2310	: Sam Abbott	Iena Iech	101 East / (575) 39:	Laboratories
Corrected Temp. °C 4. 3	Time:	Time0434	Date: 05/02/24	, including without limitation, busines reservices hereunder by Cardinal, reg	usive remedy for any claim arising wheth								9 I.D.			lexico	ank Battery Release	Project Owner:	Fax #:	State: T	uite 2310			101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	tories
Sample Condition Cool Intact	Received By:	Alman	Received By:	errors shall cultural be lable for incidental or consequential damages, including without limitation, business interruptions, less of use, on sea uncours use acrossry so by new event or the an affliantes or successors arising out of or related to the performance of services horeunder by Cardinal, regardless of whether such claim is based upon any of the above statisfications.	er based in contract or fort shall be limited to a						-		(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL	MATRIX				ConocoPhillips		TX Zip:				88240 3-2476	
tion CHECKED BY: (Initials)		2 dellas	Mal	on any of the above stated reasons or other	The appropriate solution is a set of the set								DTHER : CID/BASE: CE / COOL THER :	IX PRESERV.	Fax #:	Phone #:	State: Zip:	-	Address: EMAIL	Attn: Sam Abbott	Company: Tetra Tech	P.O. #:	BILL TO		
Turnariound Time: Stand Rush: WA [] coo Thermometer ID #140 Correction Factor 0"C	REMARKS:	All Results are emailed. Please provide Email address: Sam,Abbott@tetratech.com AND Christian.Llull@tetratech.com	Verhal Decult	analyses. All claims including those for negligence and any other cause rise, otherwise.							5/2/2024	IME		SAMPLING							ech		10		원
dard 🗰 ol Intact		nailed. Plea		igence and any o	H	+	\square	$\left \right $	-	$\left \right $	XX	t	TPH 8015M STEX 8021B									-			AIN-O
Bacteria (on Observed Temp.		ase provid m		ther cause what							X	┝	Chloride SM		000	CI-]	B				-				F-CUS
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Condition		dress: Sar		deemed waives	+	+		+	+		+			-					-			- 00	Veic		AND
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Corrected Temp. "C		tetratech.c		writing and rec	+	+		-		-															YSIS I
		om AND		deemed waived unless made in writing and received by Cardinal within 30 days after	+	-		+		+	+							_							CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
				within 30 days																					TS

Page 4 of 4

APPENDIX G NMSLO Seed Mix Details



Released to Imaging: 6/21/2024 9:19:24 AM

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Custom Soil Resource Report

MAP LEGEND				MAP INFORMATION
Area of In	iterest (AOI)	88	Spoil Area	The soil surveys that comprise your AOI were mapped at
	Area of Interest (AOI)	۵	Stony Spot	1:20,000.
Soils		å	Very Stony Spot	Warning: Soil Map may not be valid at this scale.
	Soil Map Unit Polygons	8	Wet Spot	Warning. Son wap may not be valid at this scale.
~	Soil Map Unit Lines	× ∆	Other	Enlargement of maps beyond the scale of mapping can cause
	Soil Map Unit Points	-	Special Line Features	misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of
Special	Point Features	Water Features	contrasting soils that could have been shown at a more detailed	
ၑ	Blowout	water rea	Streams and Canals	scale.
\boxtimes	Borrow Pit	Transport	ation	Please rely on the bar scale on each map sheet for map
*	Clay Spot	+++	Rails	measurements.
\diamond	Closed Depression	~	Interstate Highways	Course of Mary Matural Decourses Concernation Comise
X	Gravel Pit	~	US Routes	Source of Map: Natural Resources Conservation Service Web Soil Survey URL:
00	Gravelly Spot	~	Major Roads	Coordinate System: Web Mercator (EPSG:3857)
0	Landfill	~	Local Roads	Maps from the Web Soil Survey are based on the Web Mercato
A.	Lava Flow	Backgrou	nd	projection, which preserves direction and shape but distorts
عليه	Marsh or swamp	Ma.	Aerial Photography	distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more
Ŕ	Mine or Quarry			accurate calculations of distance or area are required.
0	Miscellaneous Water			This product is generated from the USDA-NRCS certified data a
0	Perennial Water			of the version date(s) listed below.
\sim	Rock Outcrop			Soil Survey Area: Eddy Area, New Mexico
+	Saline Spot			Survey Area Data: Version 18, Sep 8, 2022
• ••	Sandy Spot			Soil map units are labeled (as space allows) for map scales
-	Severely Eroded Spot			1:50,000 or larger.
0	Sinkhole			Date(s) aerial images were photographed: Feb 27, 2020—Fe
ò	Slide or Slip			28, 2020
ø	Sodic Spot			The ended to be the second sec
<i>Q</i>	·			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
BD	Berino-Dune land complex, 0 to 3 percent slopes	1.6	100.0%
Totals for Area of Interest		1.6	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.

Eddy Area, New Mexico

BD—Berino-Dune land complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w44 Elevation: 2,450 to 5,500 feet Mean annual precipitation: 8 to 15 inches Mean annual air temperature: 57 to 70 degrees F Frost-free period: 180 to 230 days Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 45 percent Dune land: 40 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino

Setting

Landform: Plains, fan piedmonts Landform position (three-dimensional): Riser Down-slope shape: Convex Across-slope shape: Linear Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sandy loam *H2 - 17 to 50 inches:* sandy clay loam *H3 - 50 to 60 inches:* loamy sand

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
Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 7.7 inches)

Interpretive groups

Land capability classification (irrigated): 3e Land capability classification (nonirrigated): 7e Hydrologic Soil Group: B Ecological site: R070BC007NM - Loamy Hydric soil rating: No

Description of Dune Land

Setting

Landform: Dune fields Landform position (two-dimensional): Shoulder, backslope, footslope Landform position (three-dimensional): Talf Down-slope shape: Convex, linear Across-slope shape: Convex, linear Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 6 inches: sandy loam H2 - 6 to 60 inches: sandy loam

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e Hydric soil rating: No

Minor Components

Cacique

Percent of map unit: 5 percent *Ecological site:* R070BD004NM - Sandy *Hydric soil rating:* No

Kermit

Percent of map unit: 5 percent Ecological site: R070BD005NM - Deep Sand Hydric soil rating: No

Active dune land

Percent of map unit: 5 percent *Hydric soil rating:* No

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NMSLO Seed Mix

Sandy Loam (SL)

SANDY LOAM (SL) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX	
Grasses:				
Galleta grass	Viva, VNS, So.	2.5	F	
Little bluestem	Cimmaron, Pastura	2.5	F	
Blue grama	Hachita, Lovington	2.0	D	
Sideoats grama	Vaughn, El Reno	2.0	F	
Sand dropseed	VNS, Southern	1.0	S	
Forbs:				
Indian blanketflower	VNS, Southern	1.0	D	
Parry penstemon	VNS, Southern	1.0	D	
Blue flax	Appar	1.0	D	
Desert globemallow	VNS, Southern	1.0	D	
Shrubs:				
Fourwing saltbush	VNS, Southern	2.0	D	
Common winterfat	VNS, Southern	1.0	F	
Apache plume	VNS, Southern	0.75	F	
	Total PLS/acr	e 17.75		

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

• VNS, Southern – No Variety Stated, seed should be from a southern latitude collection of this species.

• Double above seed rates for broadcast or hydroseeding.

• If Parry penstemon is not available, substitute firecracker penstemon.

• If desert globemallow is not available, substitute scarlet globemallow or Nelson globemallow.

• If a species is not available, provide a suggested substitute to the New Mexico Land Office for approval. Increasing all other species proportionately may be acceptable.



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

District III

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

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

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

QUESTIONS

Action 350285

QUESTIONS		
Operator:	OGRID:	
COG OPERATING LLC	229137	
600 W Illinois Ave	Action Number:	
Midland, TX 79701	350285	
	Action Type:	
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS Proroquisitos

rierequisites	
Incident ID (n#)	nMAP1822950996
Incident Name	NMAP1822950996 G J WEST COOP UNIT SOUTH @ 0
Incident Type	Oil Release
Incident Status	Reclamation Report Received
Incident Facility	[fMAP1822950566] G J West Coop Unit South

Location of Release Source

Please answer all the questions in this group.	
Site Name	G J WEST COOP UNIT SOUTH
Date Release Discovered	08/10/2018
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	Νο	
	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: Human Error Valve Crude Oil Released: 34 BBL Recovered: 5 BBL Lost: 29 BBL.	
Produced Water Released (bbls) Details	Not answered.	
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.	
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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District III

Operator:

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

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

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

QUESTIONS, Page 2

Action 350285

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QUESTIONS (continued)

	UGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	350285
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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. 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 safety hazard that would result in injury.		
The source of the release has been stopped	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	Not answered.	
	iation 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 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: 06/03/2024	

District I

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

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

District III

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

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

Phone: (505) 476-3470 Fax: (505) 476-3462

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

QUESTIONS, Page 3

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Action 350285

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	350285
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (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	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date. Requesting a remediation plan approval with this submission Yes Attach a comprehensive report demonstrating the lateral and vertical extents of soil 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 delineated Yes Was this release entirely contained within a lined containment area No Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.) Chloride (EPA 300.0 or SM4500 CI B) 656 TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) 1049 GRO+DRO (EPA SW-846 Method 8015M) 869 BTEX (EPA SW-846 Method 8021B or 8260B) 0.1 (EPA SW-846 Method 8021B or 8260B) Benzene 0 Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation. On what estimated date will the remediation commence 02/27/2024 On what date will (or did) the final sampling or liner inspection occur 02/27/2024 On what date will (or was) the remediation complete(d) 02/29/2024 What is the estimated surface area (in square feet) that will be reclaimed 425 What is the estimated volume (in cubic yards) that will be reclaimed 64 What is the estimated surface area (in square feet) that will be remediated 425 What is the estimated volume (in cubic yards) that will be remediated 64 These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed 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

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

District III

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

District IV

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

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

QUESTIONS, Page 4

Action 350285

QUESTIONS (continued)		
Operator: OGRID:		
COG OPERATING LLC	229137	
600 W Illinois Ave	Action Number:	
Midland, TX 79701	350285	
	Action Type:	
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

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.		
und 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 ef 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 relea the 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	
I hereby agree and sign off to the above statement	Name: Christian LLuLL Title: Project Manager Email: christian.llull@tetratech.com Date: 06/03/2024	

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.

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

District III

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

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

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Action 350285

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QUESTIONS (continued)		
Operator: COG OPERATING LLC	OGRID: 229137	
600 W Illinois Ave Midland, TX 79701	Action Number: 350285	
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)	
QUESTIONS		

Deferral	Requests	Only

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	Νο

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

District III

Operator:

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

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

Midland, TX 79701

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QUESTIONS (continued) OGRID: COG OPERATING LLC 229137 600 W Illinois Ave Action Number

350285

[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

Action Type:

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	316619
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/27/2024
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	425

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all r	remediation steps have been completed.
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	425
What was the total volume (cubic yards) remediated	64
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	425
What was the total volume (in cubic yards) reclaimed	64
Summarize any additional remediation activities not included by answers (above)	N/A
	closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents o
	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

the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete

I hereby agree and sign off to the above statement	Name: Christian LLuLL
	Title: Project Manager
	Email: christian.llull@tetratech.com
	Date: 06/03/2024

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

District III

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

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

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Action 350285

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	350285
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report		
Only answer the questions in this group if all reclamation steps have been completed.		
Requesting a reclamation approval with this submission	Yes	
What was the total reclamation surface area (in square feet) for this site	425	
What was the total volume of replacement material (in cubic yards) for this site	64	
Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a 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.		
Is the soil top layer complete and is it suitable material to establish vegetation	Yes	
On what (estimated) date will (or was) the reseeding commence(d)	02/29/2024	
	N/A reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form t field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13	
NMAC.	t nelo notes, photographis of reclaimed area, and a narrative of the reclamation activities. Relef to 19.15.29.15	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.		
I hereby agree and sign off to the above statement	Title: Project Manager Email: christian.llull@tetratech.com Date: 06/03/2024	

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

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QUESTIONS, Page 8

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QUESTIONS (continued) Operator: OGRID: COG OPERATING LLC 229137 600 W Illinois Ave Action Number Midland, TX 79701 350285 Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report

Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied

Requesting a restoration complete approval with this submission

No Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.

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

District IV

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

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CONDITIONS

Action 350285

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	350285
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	The reclamation report has been approved pursuant to 19.15.29.13 E. NMAC. The acceptance of this 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; or if the location fails to revegetate properly. In addition, OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	6/21/2024
amaxwell	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	6/21/2024