

August 28, 2024

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

Re: **Remediation Closure and Reclamation Report** ConocoPhillips (Heritage COG Operating, LLC) West Brushy 8 Federal SWD #001 Release Unit Letter A, Section 08, Township 26 South, Range 29 East **Eddy County, New Mexico** Incident ID# nAB1715742101 2RP-4240

Ms. Hall,

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (ConocoPhillips) to evaluate a historical Heritage COG Operating, LLC (COG) release and subsequent remedial actions performed at the West Brushy 8 Federal SWD #001 release site (API No. 30-015-31675). The release footprint is located in Public Land Survey System (PLSS) Unit Letter A, Section 08, Township 26 South, Range 29 East, in Eddy County, New Mexico (Site). The release point coordinates reported in the initial spill notification are 32.063037°, -103.997621°, as shown on Figures 1 and 2. The release extent provided in prior reporting is located approximately 300 feet north of the reported coordinates. The Site is located on federal lands managed by the Bureau of Land Management (BLM). The release occurred from a COG flowline on a facility operated by a third party.

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, the release was discovered on May 27, 2017. The release was caused by a hole in the bottom of a fitting in a flowline. The fitting was replaced, and a vacuum truck was dispatched to remove all freestanding fluids. Approximately 30 bbls of produced water were released to pasture and along the ditch south of the lease road, of which approximately 20 bbls were recovered. The approximate release extent is shown in Figure 3.

The NMOCD approved the initial C-141 on June 5, 2017, and subsequently assigned the release the Incident ID nAB1715742101 and the remediation permit (RP) number 2RP-4240. This incident is included in an Agreed Compliance Order-Releases (ACO-R) between COG and the NMOCD signed on November 20 and 26, 2018, respectively. The initial C-141 form is included in Appendix A.

2017 BBC SITE ASSESSMENT

From July 3, 2017 to October 11, 2017 BBC International (BBC) conducted assessment activities at the nAB1715742101 release site on behalf of COG. Assessment activities consisted of advancing fifteen (15) hand auger borings (SP1 through SP10, and 1-P through 5-P) and two (2) soil borings (SB1 and SB2) to various depths to delineate the release extent horizontally and vertically. The BBC sampling locations are presented in Figure 3.

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A total of forty-one (41) soil samples were collected from the seventeen (17) sampling locations and submitted to Cardinal Laboratories in Hobbs, New Mexico (Cardinal) for analysis. Analytical results were above the reclamation limit for chloride (600 mg/kg) in surface (0-4 feet bgs) soils at seven (7) of the sampling locations. Analytical results associated with samples collected during the 2017 BBC assessment activities are summarized in Table 1.

2017 NMOCD-APPROVED WORKPLAN

A Delineation Workplan was prepared by BBC based on the results of the 2017 BBC assessment activities. The Delineation Workplan was submitted to the NMOCD and the BLM via email on November 22, 2017. In the report, BBC proposes the following:

- The leak area near SP1 SP3 will be excavated to a depth of 1 foot.
- The leak area near SP4 SP7, SB1, and SB2 will be excavated to a depth of 4 feet with an impermeable liner placed in the bottom of the excavation.
- The leak area near SP8 SP10 will require zero remediation.
- The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner.

A copy of the Delineation Workplan is included in the OCD Online Imaging files. The proposed excavation extents are indicated in Figure 3.

The Delineation Workplan was conditionally approved by Crystal Weaver of the NMOCD via email on February 16, 2018. Ms. Weaver states:

"Due to the amount of time this work plan has sat in OCD's que I will go ahead and approve it, however, delineation on this is not Complete and it will need to be Completed during the excavation process.

- In the area of the spill that is demarked as the pink area (according to the site map in the work plan) recommended action proposed by BBC is 4ft excavation and a liner placed, however, sampling for all of that area only goes down to either a max of 3ft depth in some places (SP-6 & SP-7) and 4ft depth in other places (SP-4 & SP-5) and then has follow up delineation effort via soil boring that starts at Sft depth (SB-i & SB-2). Now I understand that there is a road along the pink demarked area but if able to delineate why was a gap made in the data? OCD factors vertical cumulations of chlorides in the soil column when determining where liner placement will be ideal to set if indeed a liner is the most appropriate measure that can be taken for remediation. So, without a full delineation liner placement cannot be determined. Please collect delineation data near the SB-1 and SB-2 areas, starting SB-1 at 5ft and SB-2 at 4ft. thru the 8ft interval. Upon receipt of data for delineation completion please contact OCD and mention that the project has an urgent need for liner placement determination to be able to backfill.
- I measured on my map that this release has a proximity of 1400÷/- to the bank of the Pecos River and is on a steep elevational raise that appears to have a seamless downgrade starting from the boundary area of the release going to the river, because this release has sat for some time and because it has a sister release that has some overlap (2RP-3774) and that release has sat for even longer OCD would like to request a prompt submission of work plan be remitted for the older 2RP-3774 release (since one was never received) and requests that if practicable the two releases be remediated at the same time.
- The site ranking is never stated out right in this work plan, but it can be inferred. So based on data OCD has referenced we will concur with the inferred ranking of 10 based on depth to ground water data cited in the work plan and cross checked by OCD. Since site ranking is not applicable for target delineation and clean up levels on chlorides, chlorides will need to be remediated (if practicable) and delineated to 600ppm or less both vertically and horizontally.
- Confirmation side wall lab tested samples will be required for all excavated areas."

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Follow-up email correspondence from Mike Bratcher of the NMOCD on February 22, 2018 removed the conditions of the prior NMOCD approval and approved the remediation proposal as written.

Mr. Bratcher states:

"After consulting with Ms. Weaver and going over the previous releases at this site, this proposal (2RP-4240) is approved as submitted. Some of the data and information from the previous releases was not available to Ms. Weaver when she reviewed this proposal and was my fault. Since there are several releases to be addressed relative to this site, OCD notes the open RP numbers, and status, as follows:

- 2RP-3353 and 2RP-3774 releases cover basically the same area and have approved remediation proposals.
- 2RP-4094 has an approved remediation proposal.
- 2RP-4330 has an approved remediation proposal.
- 2RP-4240 now has an approved remediation proposal.

It is OCD's understanding that all the releases associated with this site, as listed above, will be addressed upon mobilization to the site, and that mobilization will occur in the very near future. Please advise once that has been scheduled. Also, please advise if this information is not as reflected in COG records.

In addition, for future reference, when performing vertical delineation and transitioning from conventional delineation to utilizing boring equipment, please attempt where possible, to obtain samples in a manner that does not leave gaps in the analytical data. OCD would prefer to see uniform data throughout the delineation process.

Federal sites will require like approval from BLM, if not previously obtained."

Copies of the regulatory correspondence are included in the Remediation Work Plan dated January 29, 2024, available on the NMOCD permitting website.

REMEDIAL ACTION, 2019 CLOSURE REPORT, AND NMOCD REJECTION

The West Brushy 8 Federal SWD #001 facility was subject to numerous releases in the period between 2015 and 2017. Based on available correspondence, BBC bundled several incidents into one remedial action. Post-assessment, BBC began the excavation of impacted soils in pasture. A Closure Report prepared by BBC states that excavation activities were completed in accordance with the approved work plan for each release. The northern area of the nAB1715742101 release extent was reportedly excavated to 1 foot bgs, and the middle portion was reportedly excavated to 4 feet bgs with a liner placed as the bottom of the excavation, in accordance with the approved Delineation Workplan. Photographs of the excavated and backfilled areas were included in the Closure Report. The figure provided in the Closure Report for Incident nAB1715742101 was identical to that provided in the Delineation Workplan. A copy of the 2019 BBC Closure Report is included in the Remediation Work Plan dated January 29, 2024, available on the NMOCD permitting website.

The Closure Report for four separate releases that occurred at the West Brushy 8 Federal SWD #001 Site, including Incident nAB1715742101, was submitted on January 22, 2019. The Closure Report was rejected by NMOCD for Incident nAB1715742101 on December 12, 2022 with the following comments:

- "In the email dated 02/16/2018 found in the incident files, conditions of approval included confirmation side walls lab tested samples were required. No laboratory analytical results included in the report.
- 2RP-4240 closed. Refer to incident #nAB1715742101 in all future communication.
- Submit a complete report through the OCD Permitting website by 3/17/2023."

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Copies of the NMOCD correspondence are included in the Remediation Work Plan dated January 29, 2024, available on the NMOCD permitting website.

EVALUATION OF REMEDIAL ACTION

Following receipt of the Closure Report rejection, ConocoPhillips engaged Tetra Tech to review all available historical documentation for all release incidents associated with the West Brushy 8 Federal SWD #001 facility, and to perform visual site inspections of the numerous release incidents in order to ascertain the extent of the remedial actions taken by BBC. No laboratory analytical data or other evidence of confirmation sampling was discovered during the file review.

Tetra Tech personnel visited the release site in February and August 2023 in order to geolocate the photographs of excavated and backfilled areas included in the Closure Report and to determine current site conditions. Photographic documentation of the 2018 remedial activities and the 2023 site conditions is presented in the Remediation Work Plan dated January 29, 2024, available on the NMOCD permitting website.

The area reported by BBC as remediated to 4 feet bgs with a liner at the base of the excavation, as presented in Figure 3, was identified in the field based on the figure included in the approved Delineation Workplan and BBC Closure Report and was corroborated by the photographs included in the BBC Closure Report as well as observations made during the 2023 visual site inspections. The remediated area is located in a third-party right-of-way on the south side of the lease road. Vegetative growth was observed in portions of the remediated extent, and no staining or other visible evidence of the release were present at the time of the site inspections.

The area reported by BBC as remediated to 1 foot bgs on the north side of the lease road was identified in the field as a natural drainage area adjacent to a third-party pipeline right-of-way. Sparse vegetation was observed in this area.

SITE CHARACTERIZATION

The Site Characterization performed by BBC at the time of the assessment (and ensuing proposed Delineation Workplan) established a depth to groundwater at 75 feet bgs based on the New Mexico Office of the State Engineer (NMOSE) reporting system. This Site Characterization was accepted when the Delineation Workplan was approved.

Given the age of the release and the associated actions, a contemporized site characterization was performed and no sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, playa lakes, streams, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). The Site is in an area of medium karst potential. The Pecos River is located approximately 1,800 feet northwest of the Site. Two NMOSE stream bodies are located approximately 600 and 1,000 feet from the release areas, respectively.

There are no water wells listed in the NMOSE database located within approximately $\frac{1}{2}$ mile (800 meters) of the site. According to data from two (2) wells listed in the NMOSE database located approximately 1.5 miles (2,400 meters) from the Site, groundwater was encountered at a minimum depth of 75 feet below ground surface (bgs). The Site characterization data is presented in Appendix B.

REGULATORY FRAMEWORK

Based upon the lack of groundwater data within a ½ mile radius and the proximity to the Pecos River and stream bodies, 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,

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toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the previously-approved Delineation Workplan and the contemporized site characterization, and in accordance with Table I of 19.15.29.12 NMAC, the recommended remedial action levels (RRALs) for the Site are as follows:

Constituent	Site RRALs
Chloride	10,000 mg/kg
TPH	2,500 mg/kg
BTEX	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	Reclamation Requirements
Chloride	600 mg/kg
TPH	100 mg/kg

2023-2024 ADDITIONAL ASSESSMENT ACTIVITIES

Tetra Tech conducted additional assessment sampling at the Site on behalf of ConocoPhillips in order to evaluate current soil concentrations and confirm the reported remedial actions performed at the nAB1715742101 release Site. On September 21, 2023 Tetra Tech installed fifteen (15) hand auger borings (AH-23-1 through AH-23-15) to depths ranging from 1 to 4 feet bgs in a cross section pattern across the release extent.

Tetra Tech personnel returned to the Site on November 30, 2023 to install two (2) soil trenches (T-1 and T-5) in the northern drainage area in an attempt to vertically delineate the release in this area, as well as two (2) hand auger borings (AH-23-16 and AH-23-17) to further delineate the release horizontally. Due to the proximity of a buried Energy Transfer pipeline, these soil trenches were placed 25 feet east of the buried line and were not centered within the release extent.

In coordination with all third-party utility operators in the area, Tetra Tech personnel returned to the Site on January 4-5, 2024 to install an additional sixteen (16) soil trenches (T-24-1 through T-24-16) and four (4) hand auger borings (H-24-1 through H-24-4). The 2024 sampling efforts were expanded to delineate two adjacent and overlapping historical releases (incident IDs nAB1619432451 and nAB1529948530).

Tetra Tech personnel returned to the Site on January 10, 2024 to oversee the installation of six (6) borings with an air rotary drill rig. Boring locations were chosen based on all previous sampling results in order to vertically delineate soil impacts from the various historical releases.

The 2023-2024 sampling locations pertaining to the nAB1715742101 incident alone are shown on Figure 4. All 2023-2024 sampling locations are presented along with the nAB1619432451 and nAB1529948530 release incident extents in Figure 5.

A total of ninety-seven (97) soil samples were collected from forty-five (45) sampling locations during the four (4) mobilizations and submitted to Cardinal under five (5) separate chain-of-custody and analysis requests to be analyzed for chloride via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8261B. A copy of the laboratory analytical reports and chain-of-custody documentation for the 2023-2024 sampling events are included in the Remediation Work Plan dated January 29, 2024, available on the NMOCD permitting website.

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Analytical results from the 2023-2024 soil assessment efforts are summarized in Table 2. The analytical results associated with the 0-1 foot bgs soil interval at trench location T-24-6 exceeded the reclamation limit of 100 mg/kg for TPH. There were no other TPH or BTEX results which exceeded the applicable reclamation limits or RRALs in any of the analyzed samples.

Chloride concentrations were detected in surface soils (0-4 feet bgs) at levels above the reclamation limit of 600 mg/kg at seventeen (17) of the sample locations. There were no analytical results associated with subsurface (greater than 4 feet bgs) soils which exceeded the chloride RRAL of 10,000 mg/kg.

The sampling locations associated with the nAB1715742101 incident which exceeded the reclamation limits were those associated with the drainage feature in the portion of the release extent located north of the lease road. The analytical results associated with the portion of the release extent located south of the lease road (AH-10 through AH-15) were all below the reclamation limits for all constituents. These sampling locations also correspond geographically with the photographic documentation provided in the 2019 BBC Closure Report. Horizontal and vertical delineation of the release extent was achieved in accordance with 19.15.29.11(5) NMAC as a result of the 2023-2024 sampling events. The 2023-2024 sampling locations pertaining to the nAB1715742101 incident alone are shown on Figure 4.

The analytical results associated with the two adjacent and overlapping historical releases (incident IDs nAB1619432451 and nAB1529948530) will be discussed in further detail in separate reports prepared for those incidents.

REMEDIATION WORK PLAN AND REGULATORY APPROVAL

Tetra Tech, on behalf of ConocoPhillips, prepared a Remediation Work Plan dated January 29, 2024 and submitted it to the NMOCD and the BLM for approval. The Remediation Work Plan described the results of the assessment activities and proposed to remove soils that exceeded the Site reclamation limits and RRALs as determined by the results of the assessment activities. The proposed remedial action addressed the nAB1715742101 incident, which is the subject of this report, as well as the two adjacent and overlapping historical releases (incident IDs nAB1619432451 and nAB1529948530).

The Remediation Work Plan was approved via email by Brittany Hall of the NMOCD on January 31, 2024, with the following conditions:

"Remediation plan approved. Sidewall confirmation samples in the immediate vicinity of any
pressurized lines and the "exclusion zone" on Figure 6 must be collected. Confirmation bottom and
sidewall samples representative of no more than 400 square feet is approved. A complete and
accurate remediation closure report will need to be submitted by April 30, 2024."

A series of extensions were requested for the remedial activities and associated reporting. The final extension was approved by Brittany Hall on July 30, 2024, and the new due date is August 30, 2024. Copies of the regulatory correspondence are included in Appendix C.

CULTURAL SURVEY

In associated correspondence, the BLM conditionally approved the proposed remedial action upon the condition that a full archeological survey be conducted to include any areas that will be disturbed in order to access the release area. An extension request for reporting was submitted to the NMOCD via email on April 30, 2024 to allow time for the cultural survey and to get concurrent approval from the BLM. The extension request was approved via email on May 1, 2024 for a new due date of July 30, 2024. Copies of the regulatory correspondence are included in Appendix C.

Tetra Tech subcontracted SWCA Environmental Consultants (SWCA) to conduct an intensive pedestrian cultural resources survey for the West Brushy 8 Federal SWD #1- Proposed Remediation Project in Eddy County, New Mexico. The survey included the pipe location encompassed by the release remediation area and a 30-meter (m) (100-foot) cultural resources buffer as well as a portion of LA 66112. Portions of the

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proposed project are covered by three previous qualifying surveys, surveyed within the past 10 years (New Mexico Cultural Resource Information System [NMCRIS] Activity Numbers 132233, 137329, and 145263); these areas were not resurveyed at this time. The total survey area is 6.08 acres (2.46 hectare [ha]). No new historic cultural properties, archaeological sites, or isolated occurrences were identified during the investigation. One previously recorded archaeological site, LA 66112, was visited due to its proximity to the inadvertent release. The western third of the site was updated based on communication with Aaron Whaley at the BLM Carlsbad Field Office (CFO) (2/26/2024).

In accordance with Section 106 of the National Historic Preservation Act (Public Law 89-665), as amended, a cultural resources inventory was completed to locate, identify, and record any cultural resources that may be affected within the area of potential effects (APE) of the proposed project, and provide recommendations regarding their eligibility for listing in the National Register of Historic Places (NRHP).

LA 66112 was determined eligible for the NRHP. The observed portion of the site does not contribute to the eligibility. The inadvertent release area does not extend into the site, and no remediation activities will take place within 100 feet of the site. No additional investigation or treatment is recommended regarding the current undertaking. If subsurface cultural materials are encountered during remediation, all work should cease, and the BLM CFO should be notified immediately.

The BLM approved ConocoPhillips to proceed with the remedial action following the completion of the cultural survey in an email dated June 26, 2024. Copies of the regulatory correspondence are included in Appendix C.

REMEDIAL ACTIVITIES AND CONFIRMATION SAMPLING

From July 10 through August 7, 2024, Tetra Tech personnel were onsite to supervise the remedial activities proposed in the approved Remediation Work Plan, including excavation, disposal, and confirmation sampling. Prior to confirmation sampling, on July 11, 2024, the NMOCD district office was first notified via the OCD Portal in accordance with Subsection D of 19.15.29.12 NMAC. As mentioned, a second extension request was submitted to the NMOCD on July 30, 2024 and was approved for a new due date of August 30, 2024. Regulatory correspondence, including the approved extension request and release notifications and variance requests are documented 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. The remediated surface area associated with incident nAB1715742101 was comprised of approximately 17,650 square feet. Photographs from the excavated areas prior to backfill are provided in Appendix D.

Following excavation, confirmation floor and sidewall samples were collected from the entire remediated area 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 400 square feet of excavated area. The combined remediated extent had a surface area of approximately 19,890 square feet. A total of fifty-one (51) confirmation floor sample locations and twenty-two (22) 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-#. Internal sidewall samples were collected from the vertical faces of the excavation between the 1-ft and 4-ft areas and labeled with ISW-#.

At select sidewall locations where the initial confirmation soil sampling analytical results exceeded the reclamation limits, the sidewalls were expanded, and iterative confirmation samples were collected to encompass the original sample locations that triggered removal (nomenclature defined in Table 3) post-

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additional excavation. Final 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 July and August 2024 confirmation sampling events are summarized in Table 3. 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 E.

All excavated material was transported offsite for proper disposal. Approximately 1,850 cubic yards of material were transported to the R360 Red Bluff Facility in Orla, Texas.

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-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 requirements and established Site RRALs to demonstrate compliance. All final confirmation soil samples (floor and sidewall) were below the reclamation limits for chloride, TPH, and BTEX. Excavated areas, depths and confirmation sample locations are indicated in Figure 6. The results of the July and August 2024 confirmation sampling events are summarized in Table 3.

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 EPA Method 300.0. 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 BLM Seed Mix #2 was used for seeding and was planted in the amount specified in the pounds pure live seed (PLS) per acre.

The backfill material was sourced from the R360 Red Bluff Facility. Twenty-one (21) representative soil samples were collected by R360 from the backfill material used for the reclamation of the project site on July 22, 2024 and sent to Eurofins in Carlsbad, New Mexico to be analyzed for chlorides by EPA Method 300.0. Tetra Tech collected one additional backfill sample from the R360 Red Bluff facility on August 22, 2024 and submitted to Cardinal to be analyzed for TPH (GRO+DRO+MRO) by EPA Method 8015M, BTEX by EPA Method 8021B, and chlorides by SM4500Cl-B. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The analytical results associated with the backfill sample collected by Tetra Tech are summarized in Table 4.

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. Reclamation activities have been implemented in consultation with the BLM.

CONCLUSION

ConocoPhillips respectfully requests closure of the incident based on the confirmation sampling results and remedial activities performed. The final C-141 forms are enclosed in Appendix A.

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If you have any questions concerning the remediation activities for the Site, please call me at (512) 739-7874 or Christian at (512) 338-2861.

Sincerely,

Tetra Tech, Inc.

Samantha K. Abbott, P.G Project Manager Christian M. Llull, P.G. Program Manager

CC

Mr. Ike Tavarez – ConocoPhillips Ms. Shelly Taylor, BLM

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LIST OF ATTACHMENTS

Figures:

Figure 1 – Overview Map

Figure 2 – Topographic Map

Figure 3 – Approximate Release Extent and Assessment (BBC)

Figure 4 – Approximate Release Extent and Additional Assessment (TT)

Figure 5 – Remediation Extents and Confirmation Sampling Locations

Tables:

Table 1 – Summary of Analytical Results – 2017 BBC Soil Assessment

Table 2 – Summary of Analytical Results – 2023-2024 TT Soil Assessment

Table 3 – Summary of Analytical Results – Soil Remediation

Table 4 - Summary of Analytical Results - Soil Backfill

Appendices:

Appendix A - C-141 Forms

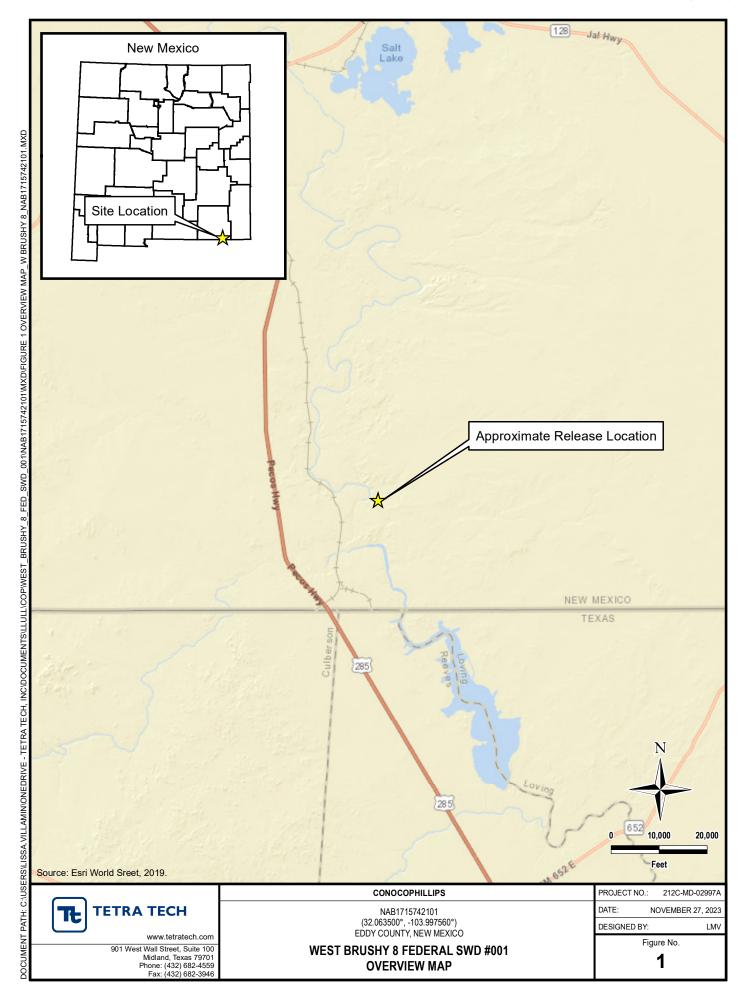
Appendix B – Site Characterization Data

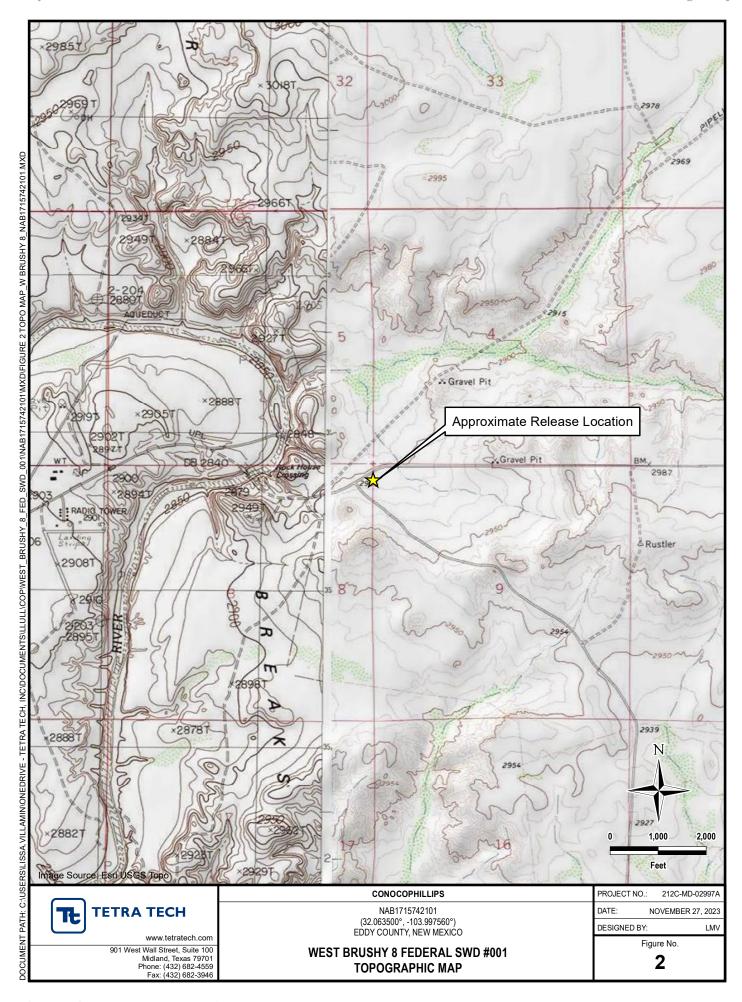
Appendix C – Regulatory Correspondence

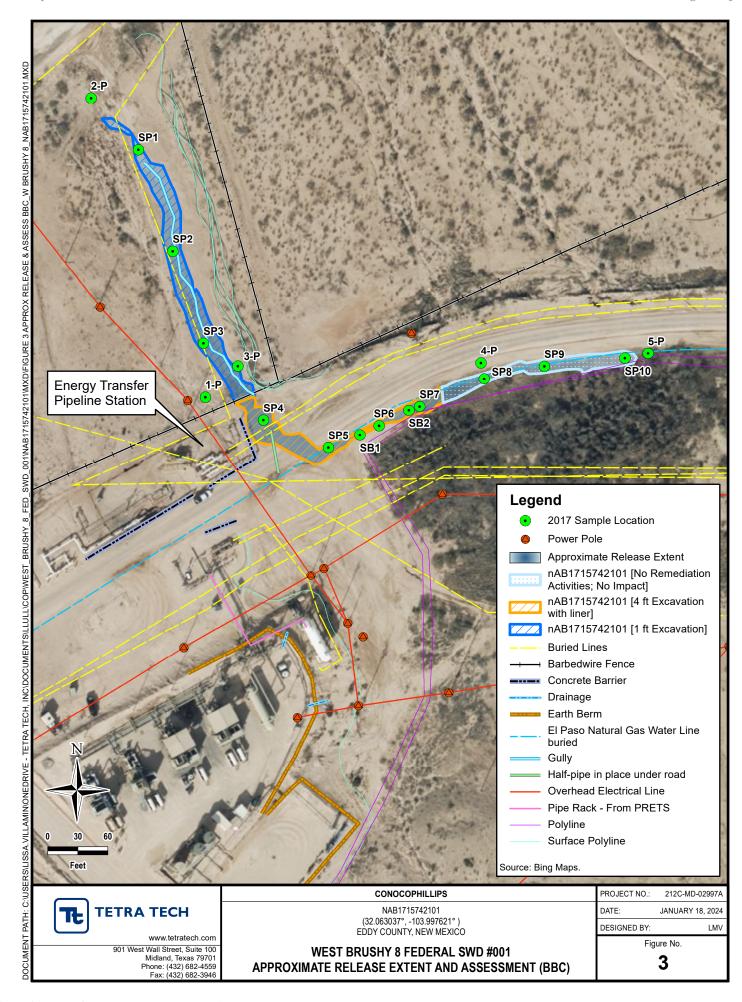
Appendix D – Photographic Documentation

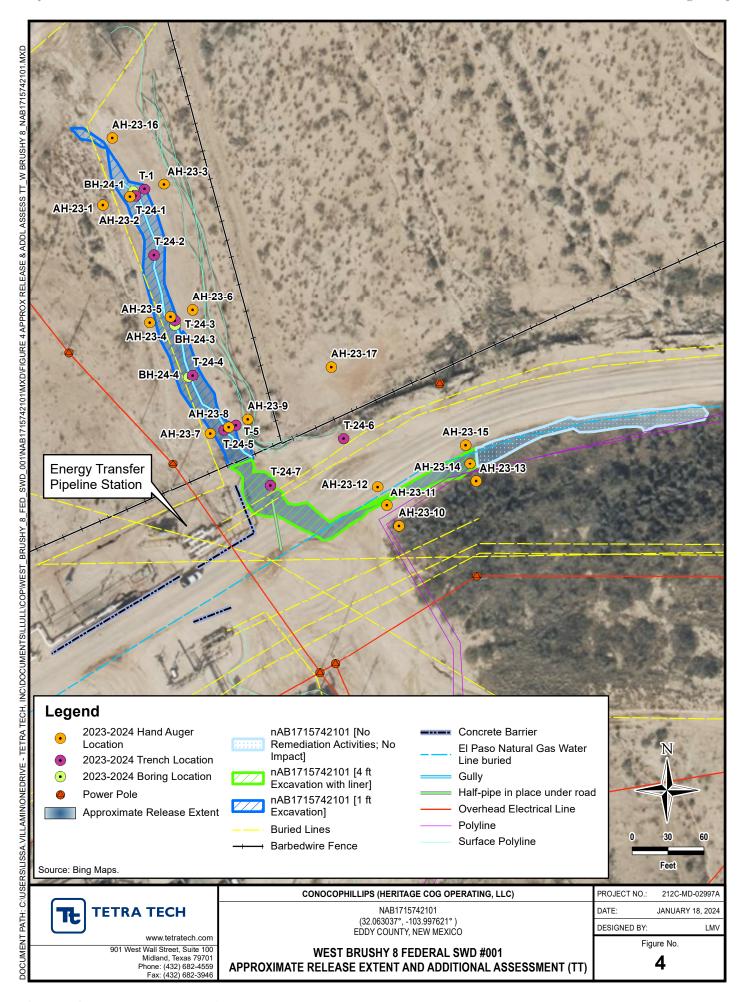
Appendix E - Laboratory Analytical Data

FIGURES

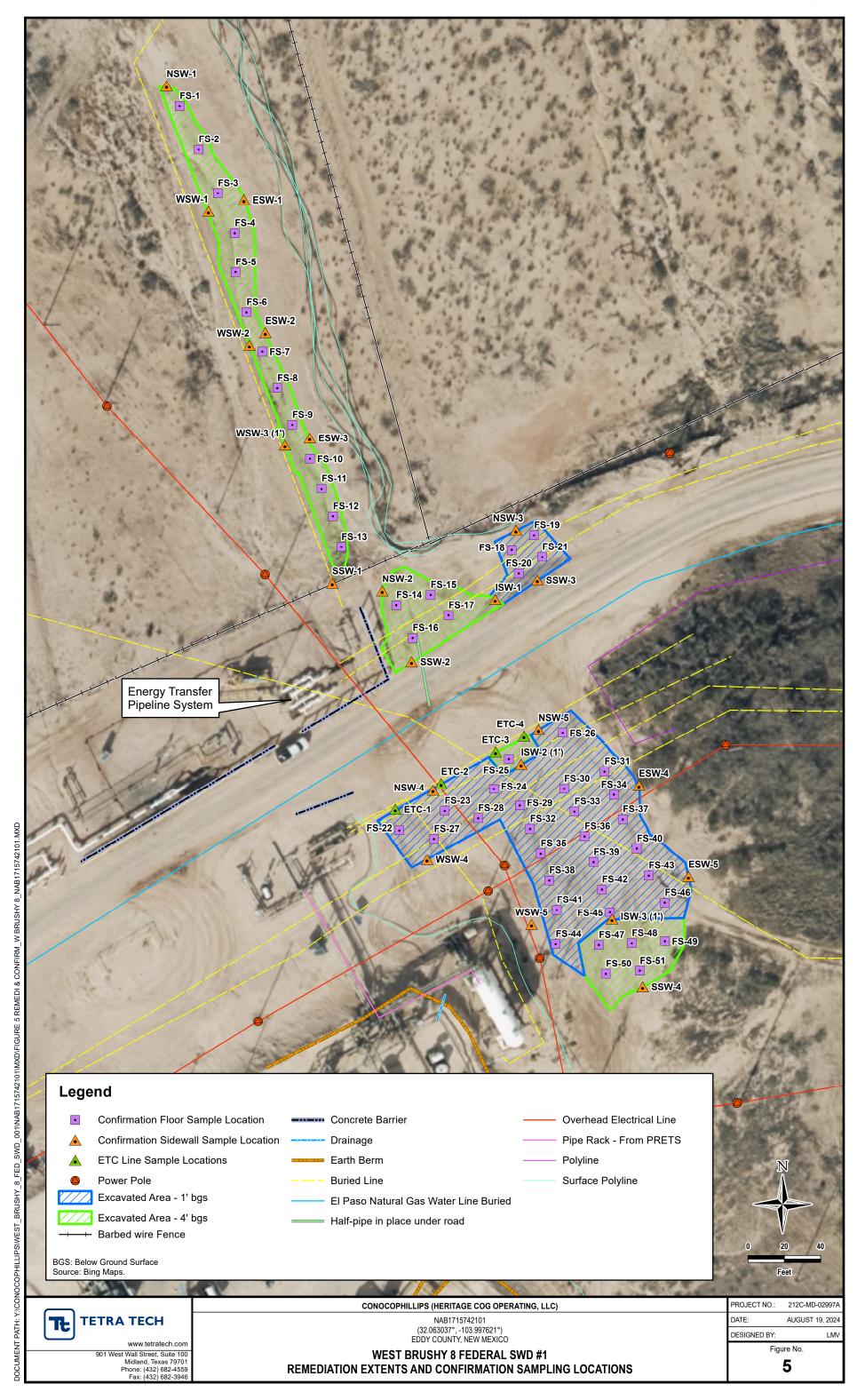








Received by OCD: 8/29/2024 5:49:31 PM



SUMMARY OF ANALYTICAL RESULTS 2017 BBC SOIL ASSESSMENT- (nAB1715742101/2RP-4240)

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WEST BRUSHY 8 FEDERAL SWD #001 RELEASE

DOR: 5/17/2017 EDDY COUNTY, NEW MEXICO

									ВТЕХ	2								Т	PH ³		
Cample ID	Samula Data	Sample Depth	Chlorid	le¹	Benzer	20	Toluer		Ethylben	zono	Total Xyl	onor	Total B1	rev	GRO		DRC)	EXT D	RO	Total TPH
Sample ID	Sample Date				Belizei	10	Toluei	ie	Lillyibeli	zene	TOTAL AY	elles	Total Bi	LA	C ₆ - C	10	> C ₁₀ -	C ₂₈	> C ₂₈ -	C ₃₆	(GRO+DRO+EXT DRO)
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
		1	2920		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		-		<20.0
SP-1	7/3/2017	2	112		-		-		-		-		-		-		-		-		-
	<u> </u>	7	96		-		-		-		-		-		-		-		-		-
		1	2960		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		-		<20.0
SP-2	7/3/2017	2	112		-		-		-		-		-		-		-		-		-
		7	64		-		-		-		-		-		-		-		-		-
		1	2840		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		-		<20.0
SP-3	7/3/2017	2	16		-		-		-		-		-		-		-		-		=
		7	32		-		-		-		-		-		-		-		-		-
		1	9460		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		-		<20.0
SP-4	7/3/2017	3	4400		-		-		-		-		-		-		-		-		-
		4	624		-		-		-		-		-		-		-		-		-
		1	7330		<0.050		0.315		0.071		0.428		0.814		<10.0		<10.0		-		<20.0
SP-5	7/3/2017	3	7330		-		-		-		-		-		-		-		-		-
		4	5200		-		-		-		-		-		-		-		-		-
SP-6	7/3/2017	1	8000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		-		<20.0
31 0	77372017	3	5860		-		-		-		-		-		-		-		-		-
SP-7	7/3/2017	1	7200		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		-		<20.0
3r-7	7/3/2017	3	3480		-		-		-		-		-		-		-		-		-
SP-8	7/19/2017	Surface	124		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		125		-		125
SP-9	7/19/2017	Surface	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		78.3		-		78.3
SP-10	7/19/2017	Surface	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		35.7		-		35.7
1-P	7/19/2017	Surface	112		-		-		-		-		-		-		-		-		-
2-P	7/19/2017	Surface	64		-		-		-		-		-		-		-		-		-
3-P	7/19/2017	Surface	48		-		-		-		-		-		-		-		-		-
4-P	7/19/2017	Surface	64		-		-		-		-		-		-		-		-		-
5-P	7/19/2017	Surface	48		-		-		-		-		-		-		-		-		-

SUMMARY OF ANALYTICAL RESULTS

2017 BBC SOIL ASSESSMENT- (nAB1715742101/2RP-4240)

CONOCOPHILLIPS

WEST BRUSHY 8 FEDERAL SWD #001 RELEASE

DOR: 5/17/2017 EDDY COUNTY, NEW MEXICO

									ВТЕХ	2								Т	PH ³		
Sample ID	Sample Date	Sample Depth	Chlorid	le¹	Benzei	16	Toluer	10	Ethylben	70no	Total Xyl	onos	Total B1	TEY	GRO		DRO		EXT D	RO	Total TPH
Sample 15	Sample Date				Delizer		Totaci		Ethylben	zene	Total Xyl	ciics	Total B	LA	C ₆ - C ₁	10	> C ₁₀ -	C ₂₈	> C ₂₈ -	C ₃₆	(GRO+DRO+EXT DRO)
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
		8	1260		-		-		-		-		-		-		-		1		-
		10	3680		-		-		-		-		-		-		-		-		=
		15	752		-		-		-		-		-		-		-		-		=
		20	944		-		-		-		-		-		-		-		-		-
SB-1	10/11/2017	25	928		-		-		-		-		-		-		-				=
		30	688		-		-		-		-		-		-		-				=
		35	592		-		-		-		-		-		-		-		-		-
		40	544		-		-		-		-		-		-		-				=
		45	416																		
		8	2920		-		-		-		-		-		-		-		-		-
		10	176		-		-		-		-		-		-		-		-		-
SB-2	10/11/2017	15	144		-		-		-		-		-		-		-		-		-
		20	304		-		-		-		-		-		-		-		-		-
		25	544		-		-		-		-		-		-		-		-		-

NOTES:

ft. Feet bgs Below ground surface

QUALIFIERS:

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

- Not analyzed for parameter

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

SUMMARY OF ANALYTICAL RESULTS

2023-2024 ADDITIONAL SOIL ASSESSMENT

nAB1715742101 AND nAB1619432451 AND nAB1529948530

CONOCOPHILLIPS

WEST BRUSHY 8 FEDERAL SWD #001

EDDY COUNTY, NM

			Field Scr	eening							BTEX ²						TPH ³		
		Sample Depth	Resu	ults	Chloric	de					e.i. II	-		T	GRO	DRO	EXT DRO	(600,000)	Total TPH
			ExStik	Titration			Benze	ne	Toluene	e	Ethylbenzene	Total Xyl	enes	Total BTEX	C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆	(GRO+DRO)	(GRO+DRO+EXT DRO)
Sample ID	Sample Date	ft. bgs	ppr	m	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg Q	mg/kg	Q	mg/kg Q	mg/kg Q	mg/kg Q	mg/kg Q	mg/kg	mg/kg
		Reclamation Limit for Soils 0-4' bgs:	-		<u>600 mg</u> /	<u>/kg</u>	<u>10 mg/</u>	<u>/kg</u>						<u>50 mg/kg</u>					<u>100 mg/kg</u>
		RRAL for Soils >4' bgs (GW 50-100 ft):			<u>10,000 m</u>	g/kg	<u>10 mg/</u>	<u>'kq</u>						<u>50 mg/kg</u>				<u>1,000 mg/kg</u>	<u>2,500 mg/kg</u>
AH-23-1	9/21/2023	0-1	392	-	48		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	19.1	-	19.1
AH-23-2	9/21/2023	0-1	2230	-	2,400		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
711 23 2	3/21/2023	2-3	2690	-	2,080		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	27.5	<10.0	27.5	27.5
T-1	11/30/2023	0-1	627	-	304		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
		3-4	2,080	-	1,630		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
T-24-1	1/4/2024	5-6	1,130	-	928		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
		6-7	1,110		1,020		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
		7-8	-	500	512		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
BH-24-1	1/10/2024	8-9	1,130	600	912		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
		9-10	1,080	400	1,090		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
AH-23-3	9/21/2023	0-1	267	-	48		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
		0-1	4,670	-	4,120		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
T-24-2	1/4/2024	2-3	1,840	-	1,700		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
1-24-2	1/4/2024	3-4	2,950	-	2,440		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
		5-5.5	1,660	-	768		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
AH-23-4	9/21/2023	0-1	369	-	32		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
AH-23-5	9/21/2023	0-1	1560	-	928		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
A11-23-3	9/21/2023	2-3	4950	-	3,760		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
		3-4	3,940	-	4,080		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
T-24-3	1/4/2024	5-6	3,060	-	3,360		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
1-24-3	1/4/2024	6-7	2,420	-	2,400		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
		7-7.5	1,670	-	1,140		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
		8-9	1,620	900	976		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
BH-24-3	1/10/2024	9-10	1,550	600	768		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	90.7	98.1	90.7	188.8
		10-11	958	400	656		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
AH-23-6	9/21/2023	0-1	284	-	80		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
		0-1	1,950	-	1,090		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
		2-3	1,990	-	1,550		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
T 24 4	1/4/2024	3-4	2,730	-	3,200		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
T-24-4	1/4/2024	5-6	2,420	-	2,240		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
		6-7	2,210	-	1,150		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
		8-8.5	2,060	-	1,380		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
DI 24.4	1/10/2024	9-10	1,280	800	1,120		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0
BH-24-4	1/10/2024	10-11	1,170	400	608		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	<10.0	<10.0	-	<10.0

SUMMARY OF ANALYTICAL RESULTS

2023-2024 ADDITIONAL SOIL ASSESSMENT

CONOCOPHILLIPS

WEST BRUSHY 8 FEDERAL SWD #001

nAB1715742101 AND nAB1619432451 AND nAB1529948530

EDDY COUNTY, NM

			Field Scr	eening							BTEX ²									TPH ³		
		Sample Depth	Resu	ılts	Chloric	de					!!		=				GRO	DRO		EXT DRO	(000 000)	Total TPH
			ExStik	Titration			Benze	ne	Toluer	ne	Ethylbenz	ene	Total Xyl	lenes	Total BTEX		C ₆ - C ₁₀	> C ₁₀ - C ₂	28	> C ₂₈ - C ₃₆	(GRO+DRO)	(GRO+DRO+EXT DRO)
Sample ID	Sample Date	ft. bgs	ppr	n	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg Q	mg/kg	Q	mg/kg Q	mg/kg	mg/kg
		Reclamation Limit for Soils 0-4' bgs:			<u>600 mg/</u>	<u>/kg</u>	<u>10 mg/</u>	<u>/kg</u>							<u>50 mg/kg</u>							<u>100 mg/kg</u>
		RRAL for Soils >4' bgs (GW 50-100 ft):			10,000 m	g/kg	<u>10 mg/</u>	<u>'kg</u>							<u>50 mg/kg</u>						<u>1,000 mg/kg</u>	<u>2,500 mg/kg</u>
AH-23-7	9/21/2023	0-1	465	-	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
		0-1	2530	-	2,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	43.1		<10.0	43.1	43.1
AH-23-8	9/21/2023	2-3	3420	-	2,400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
		3-4	4380	-	3,600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
T-5	11/30/2023	0-1	-	-	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
AH-23-9	9/21/2023	0-1	468	-	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
T-24-6	1/5/2024	0-1	-	-	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	211		<10.0	211	211
1-24-0	1/3/2024	1-2	404	-	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	11.2		<10.0	11.2	11.2
		0-1	4,520	-	2,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
		2-3	-	-	4,280		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
T-24-7	1/5/2024	3-4	-	-	1,800		<0.050		<0.050		<0.050	GC-NC	0.271	GC-NC1	<0.300		21.2	45.9		<10.0	67.1	67.1
		5-6	669	-	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
		6-7	407	-	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
AH-23-10	9/21/2023	0-1	580	-	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
AH-23-11	9/21/2023	0-1	416	-	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
An-23-11	9/21/2023	2-3	353	-	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
AH-23-12	9/21/2023	0-1	792	-	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
AH-23-13	9/21/2023	0-1	216	-	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
ALL 22.44	0/24/2022	0-1	198	-	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
AH-23-14	9/21/2023	2-3	286	-	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
AH-23-15	9/21/2023	0-1	392	-	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
AH-23-16	11/30/2023	0-1	379	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
AH-23-17	11/30/2023	0-1	-	-	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
		3-4	1,750	-	1,140	QM-07	<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
T-24-5	1/4/2024	5-6	1,770	-	736		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
		6-7	1,040	-	800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
		0-1	1,510	-	496		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
T-24-8	1/5/2024	2-3	1,110	-	464		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
		3-4	469	-	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
T 24.6	4 /5 /2024	0-1	857	-	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
T-24-9	1/5/2024	2-3	415	-	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
T 04.45	4 /5 /000	0-1	1,140	-	640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
T-24-10	1/5/2024	2-3	310	-	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0

SUMMARY OF ANALYTICAL RESULTS

2023-2024 ADDITIONAL SOIL ASSESSMENT

nAB1715742101 AND nAB1619432451 AND nAB1529948530 CONOCOPHILLIPS

WEST BRUSHY 8 FEDERAL SWD #001

EDDY COUNTY, NM

			Field Scr	eening						BTEX ²							TPH ³			
		Sample Depth	Resu	ılts	Chloric	de	D		Talaana	Esta dia anno a	Tatal Valence	T-A-L DTEV	GRO		DRO		EXT DI	RO	(600:000)	Total TPH
			ExStik	Titration			Benze	ene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	C ₆ - C ₁₀		> C ₁₀ - C	28	> C ₂₈ -	C ₃₆	(GRO+DRO)	(GRO+DRO+EXT DRO)
Sample ID	Sample Date	ft. bgs	ррі	m	mg/kg	Q	mg/kg	Q	mg/kg Q	mg/kg Q	mg/kg Q	mg/kg Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	mg/kg
		Reclamation Limit for Soils 0-4' bgs:			<u>600 mg/</u>	<u>/kg</u>	<u>10 mg</u>	<u>/kg</u>				<u>50 mg/kg</u>								<u>100 mg/kg</u>
		RRAL for Soils >4' bgs (GW 50-100 ft):			<u>10,000 m</u>	g/kg	<u>10 mg</u> ,	<u>/kg</u>				<u>50 mg/kg</u>							<u>1,000 mg/kg</u>	<u>2,500 mg/kg</u>
		0-1	1,260	-	784		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
T-24-11	1/5/2024	2-3	2,410	-	1,200		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
		3-4	1,310	-	608		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
		4-5	1,820	600	1,710		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
BH-24-11	1/10/2024	5-6	2,160	800	1,460		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
		8-9	1,300	575	1,070		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
T-24-12	1/5/2024	0-1	536	-	144		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
T-24-13	1/5/2024	0-1	3,690	-	4,000		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
1-24-13	1/3/2024	2-3	248	-	48		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
T-24-14	1/5/2024	0-1	1,030	-	944		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0	QM-07	<10.0		<10.0		-	<10.0
1-24-14	1/3/2024	2-3	252	-	64		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
T-24-15	1/5/2024	0-1	1500	-	1,470		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
1-24-15	1/3/2024	1-2	1,050	-	304		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
		2-3	873	300	272		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
BH-24-15	1/10/2024	3-4	1,230	350	416		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
БП-24-13	1/10/2024	5-6	1,040	200	288		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
		6-7	898	200	352		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
		0-1	2,470	-	2,160		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
T-24-16	1 /5 /2024	2-3	3,730	-	3,240		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
1-24-10	1/5/2024	3-4	3,390	-	3,040		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
		5-6	1,940	-	1,010		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
		6-7	1,890	800	1,090		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
		7-8	2,040	600	1,010		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
B-24-16	1/10/2024	8-9	1,690	840	1,020		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
		9-10	1,470	580	896		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
		14-15	1,580	400	1,100		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
H-24-1	1/5/2024	0-1	334	-	80		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
H-24-2	1/5/2024	0-1	1,760	-	416		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
H-24-3	1/5/2024	0-1	1,180	-	304		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		-	<10.0
H-24-4	1/5/2024	0-1	310	_	96		<0.050		<0.050	<0.050	<0.150	<0.300	<10.0		<10.0		<10.0		_	<10.0

NOTES:

bgs Below ground surface

Feet

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics Method SM4500Cl-B

Method 8021B

Method 8015M

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

QUALIFIERS:

QM-07 The spike recovery was outside of lab established statistical control limits but still within method limits. Data is not adversley affected.

GC-NC 8620 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND (not detected at or above the reporting limit).

GC-NC1 8620 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.

TABLE 3 SUMMARY OF ANALYTICAL RESULTS SOIL REMEDIATION nAB1529948530, nAB1619432451, and nAB1715742101 CONOCOPHILLIPS

WEST BRUSHY 8 SWD #001 RELEASE EDDY COUNTY, NEW MEXICO

								BTEX ²					TPH ³	
		Sample Depth	Field Screen	ing Results	Chloride ¹				-		GRO	DRO	EXT DRO	Total TPH
Sample ID	Sample Date		Chloride	PID		Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆	(GRO+DRO+EXT DRO)
		ft bgs	ppr	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Reclamation Closure Co	riteria for Soils 0-4 ft bg	gs:		<u>600 mg/kg</u>	<u>10 mg/kg</u>				<u>50 mg/kg</u>				<u>100 mg/kg</u>
Site RRA	ALs for Soils >4 ft bgs (G\	W >50 ft):			<u>10,000 mg/kg</u>	<u>10 mg/kg</u>				<u>50 mg/kg</u>				<u>2,500 mg/kg</u>
FS-1	7/22/2024	4			320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-2	7/22/2024	4			1,010	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-3	7/22/2024	4			2720	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-4	7/22/2024	4			2,120	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-5	7/22/2024	4			1,800	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-6	7/22/2024	4			2,320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-7	7/22/2024	4			992	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-8	7/22/2024	4			2270	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-9	7/22/2024	4			2080	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-10	7/22/2024	4			1660	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-11	7/22/2024	4			720	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-12	7/22/2024	4			4120	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-13	7/22/2024	4			384	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-14	7/26/2024	4			1170	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-15	7/26/2024	4			832	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-16	7/26/2024	4			1040	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-17	7/26/2024	4			1020	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-18	7/31/2024	1			48.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-19	7/31/2024	1			32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-20	7/31/2024	1			<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-21	7/31/2024	1			32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-22	7/26/2024	1			192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-23	7/26/2024	1			192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-24	7/26/2024	1			176	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-25	8/5/2024	4			832	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-26	8/5/2024	1			112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-27	7/26/2024	1			224	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-28	7/26/2024	1			192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-29	7/26/2024	1			176	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-30	7/26/2024	1			208	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-31	7/26/2024	1			160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.4	<10.0	10.4
FS-32	7/31/2024	1			32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-33	7/31/2024	1			32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-

TABLE 3 SUMMARY OF ANALYTICAL RESULTS SOIL REMEDIATION nAB1529948530, nAB1619432451, and nAB1715742101 CONOCOPHILLIPS

WEST BRUSHY 8 SWD #001 RELEASE EDDY COUNTY, NEW MEXICO

			Field Consensate	- DIt-				BTEX ²					TPH ³	
Commis ID	Commis Data	Sample Depth	Field Screenin	ng Results	Chloride ¹	Danasas	Talvana	Ethe dhannana	Total Volence	Total DTEV	GRO	DRO	EXT DRO	Total TPH
Sample ID	Sample Date		Chloride	PID		Benzene	Toluene	Etnylbenzene	Total Xylenes	Total BTEX	C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆	(GRO+DRO+EXT DRO)
		ft bgs	ppm		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Reclamation Closure Co	riteria for Soils 0-4 ft bg	gs:		<u>600 mg/kg</u>	<u>10 mg/kg</u>				<u>50 mg/kg</u>				<u>100 mg/kg</u>
Site RRA	Ls for Soils >4 ft bgs (GV	V >50 ft):			<u>10,000 mg/kg</u>	<u>10 mg/kg</u>				<u>50 mg/kg</u>				<u>2,500 mg/kg</u>
FS-34	7/31/2024	1			32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-35	7/31/2024	1			32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-36	7/31/2024	1			64.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-37	7/31/2024	1			80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-38	7/31/2024	1			48.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-39	7/31/2024	1			32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-40	7/31/2024	1			32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-41	7/31/2024	1			64.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-42	7/31/2024	1			48.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-43	7/31/2024	1			32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-44	7/31/2024	1			16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-45	7/31/2024	1			32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-46	7/31/2024	1			16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-47	7/31/2024	4			1490	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-48	7/31/2024	4			1100	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-49	7/31/2024	4			1100	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-50	7/31/2024	4			1170	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-51	7/31/2024	4			1230	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
NSW-1	7/22/2024	-			128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
NSW-2	7/26/2024	-			384	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
NSW-3	7/31/2024	-			32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
NSW-4	7/31/2024	-			64.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
NSW-5	7/31/2024	-			64.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
SSW-1	7/22/2024	-			208	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
SSW-2	7/26/2024	-			480	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
SSW-3	7/31/2024	-			16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
SSW-4	7/31/2024	-			16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
WSW-1	7/22/2024	-			144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
WSW-2	7/22/2024	-	 		160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
WSW-3	7/22/2024	-			640	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
WSW-3 (1')	7/26/2024	-			336	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
WSW-4	7/26/2024	-			176	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-

TABLE 3 SUMMARY OF ANALYTICAL RESULTS SOIL REMEDIATION

nAB1529948530, nAB1619432451, and nAB1715742101

CONOCOPHILLIPS

WEST BRUSHY 8 SWD #001 RELEASE

EDDY COUNTY, NE	EW MEXICO
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			Field Screen	ing Posults				BTEX ²					TPH ³	
Sample ID	Sample Date	Sample Depth	rieid Screen	iiiig Kesuits	Chloride ¹	Benzene	Toluene	Ethylhanzana	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	Total TPH
Sample 1D	Sample Date		Chloride	PID		Delizelle	Toluelle	Ethylbenzene	Total Aylelles	TOTAL BIEX	C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆	(GRO+DRO+EXT DRO)
		ft bgs	рр	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
F	Reclamation Closure Cr	iteria for Soils 0-4 ft bg	gs:		<u>600 mg/kg</u>	<u>10 mg/kg</u>	-			<u>50 mg/kg</u>	-			<u>100 mg/kg</u>
Site RRAL	s for Soils >4 ft bgs (GV	V >50 ft):			<u>10,000 mg/kg</u>	<u>10 mg/kg</u>				<u>50 mg/kg</u>				<u>2,500 mg/kg</u>
WSW-5	7/31/2024	-			32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
ESW-1	7/22/2024	-			48.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
ESW-2	7/22/2024	-			80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
ESW-3	7/22/2024	-			144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
ESW-4	7/26/2024	-			176	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
ESW-5	7/31/2024	-			32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
ISW-1	7/26/2024	-			368	<0.050	0.124	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
ISW-2	8/1/2024	1			624	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.1	<10.0	12.1
ISW-2 (1')	8/5/2024	-			96.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
ISW-3	8/1/2024	-			720	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17.2	<10.0	17.2
ISW-3 (1')	8/5/2024	-			112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-

NOTES:

ft Fee

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B3 Method 8015M

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

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

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

- * These iterative samples are located to encompass the original sample location that triggered removal, with further excavation in each area indicated in ().
- ** These sample results are below the Site RRALs, but are elevated above the Merchant SUCA requirements.
- *** These samples were collected outside of the excavation extents as additional delineation points.

SUMMARY OF ANALYTICAL RESULTS

SOIL BACKFILL - R360 RED BLUFF FACILITY

CONOCOPHILLIPS

WEST BRUSHY 8 SWD #001

FDDY	COUNTY,	NFW	MEXICO
LDDI	COUNTY,	14 - 44	IVIENICO

				BTEX ²							TPH ³									
Sample ID	Sample Date	Chlorid	e¹	Benzer		Toluer		E+hylbon:	·ono	Total Vuls	mac	Total BT	·EV	GRO		DRO		EXT DR	0	Total TPH
Sample ID	Sample Date	Sample Date	Sample Date		Belizei	ie	Toluei	ie	Ethylbenzene		Total Xylenes	TOTAL BLEX	C ₆ - C ₁	0	> C ₁₀ - C	-28	> C ₂₈ - 0	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	8/22/2024	128		<0.025		<0.050		<0.050		<0.150		<0.2.75		<10.0		<10.0		<10.0		-

NOTES:

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

Method SM4500Cl-B
 Method 8021B

3 Method 8015M

APPENDIX A C-141 Forms

District I 1625 N. French Dr., Hobbs, NM 88240 District II

District III
1000 Rio Brazos Road, Aztec, NM 87410

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

NM OIL CONSERVATION

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

Form C-141 Revised August 8, 2011

JUN 0 1 2017 Submit 1 Copy to appropriate District Office in RECEIVED NMAC.

Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, NM 87505

			Kele	ase Notific	ation	and Co	rrective A	ction					
DABI	11574	2101				OPERAT	TOR						
Name of Co	mpany:	COC		ng LLC 2291.	37 0	Contact: Robert McNeill							
							lo.	432-683-744	3				
Facility Nan	Facility Name: West Brushy 8 Federal SWD #001 Facility Type: SWD												
Surface Own	ner:	Federal		Mineral O	wner:			API No	. 30-(15-3167	5		
LOCATION OF RELEASE													
Unit Letter A	Section 08	Township 26S	Range 29E	Feet from the 660		South Line North	Feet from the 330	East/West Line East		County Eddy			
Latitude 32.063037 Longitude -103.997621													
NATURE OF RELEASE													
Type of Relea	ase:	Produced	Water			Volume of Release: Volume Recovered: 20 bbls							
Source of Re	lease:			· · · · · · · · · · · · · · · · · · ·	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Date and H	our of Occurrenc		Hour of Di	scovery:	7		
		Flowli	ne				27, 2017 4:00 pm	<u> </u>	May 27, 20	17 4:00 pt	m		
Was Immedia	ate Notice (Yes [No □ Not Re	quired	If YES, To		- NMOCD / Shell	y Tucker - i	BLM			
		Whom? Reb	ecca Hask	ell		Date and H	lour: May 27, 201	7 7:41 pm					
Was a Water	course Read	:hed?	Yes 🛛			If YES, Volume Impacting the Watercourse.							
If a Waterson		pacted, Descr							······································				
II a watereou	nse was iiii	pacieu, Desci	oe runy.										
Describe Cau	se of Probl	em and Reme	dial Actio	n Taken.*					······································	4			
				fitting in a flowlir	c. The	itting was re	placed						
Describe Are	a Affected	and Cleanup	Action Tal	cen.*									
								cho will have the s proval prior to any					
	fy that the	information g	ven above	is true and comp	ete to ti	e best of my	knowledge and u	inderstand that pure	suant to NN	IOCD rule	s and		
regulations a	ll operators	are required t	o report a	nd/or file certain n	elease n	otifications a	nd perform correc	ctive actions for rel	eases whicl	n may end	anger		
public health	or the envi	ronment. The	acceptane	ce of a C-141 repo	rt by the	NMOCD m	arked as "Final R	cport" does not rel	ieve the ope	rator of li	ability		
should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other													
federal, state, or local laws and/or regulations.													
Signature:	Kelei	ica H	ribel				OIL CON	<u>SERVATION</u>	DIVISI	<u>ио</u>			
							Approved by Environmental Specialist WHA WW						
Title:		Senior H	SE Coord	inator		Approval Da	10: 6 5 17	Expiration	Date:	MP_			
E-mail Addre	ess:	rhaskell@	eoncho.c	om		Conditions o	f Approval:	المميا	Attache	d /18			
	Date: June 1, 2017 Phone: 432-683-7443 Conditions of Approval See Attached Attached												
Attach Additional Sheets If Necessary													
Attach Additional Sheets If Necessary Alan forms can be found in the Alan forms:													

New Mexico State Website in fo http://www.emnrd.state.nm.us/ OCD/forms.html

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 6/1/17 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number APP-4246 has been assigned. Please refer to this case number in all future correspondence.

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

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

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 7/1/17. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

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

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

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

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

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

Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us Received by OCD: 8/29/2024 5:49:31 PM From C-141 State of New Mexico Page 3 Oil Conservation Division

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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.

Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? 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? Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? Are the lateral extents of the release within 300 feet of a wetland? Are the lateral extents of the release overlying a subsurface mine? Are the lateral extents of the release overlying an unstable area such as karst geology? Are the lateral extents of the release overlying an unstable area such as karst geology? Are the lateral extents of the release within a 100-year floodplain? Did the release impact areas not on an exploration, development, production, or storage site? 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 Deats 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	What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)				
Are the lateral extents of the release within 300 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? 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? Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? Are the lateral extents of the release within 300 feet of a wetland? Are the lateral extents of the release overlying a subsurface mine? Are the lateral extents of the release overlying a subsurface mine? Are the lateral extents of the release overlying an unstable area such as karst geology? Are the lateral extents of the release overlying an unstable area such as karst geology? Are the lateral extents of the release within a 100-year floodplain? Did the release impact areas not on an exploration, development, production, or storage site? Characterization Report Clecklist: 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	Did this release impact groundwater or surface water?	☐ Yes ☐ No				
ordinary high-water mark)? Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? 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? Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? Are the lateral extents of the release within 300 feet of a wetland? Are the lateral extents of the release overlying a subsurface mine? Are the lateral extents of the release overlying an unstable area such as karst geology? Are the lateral extents of the release within a 100-year floodplain? Did the release impact areas not on an exploration, development, production, or storage site? Other lateral extents of the release have been determined. Refer to 19.15.29.11 NMAC for specifies. 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 Photographic/Aerial maps		☐ Yes ☐ No				
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water well field? Are the lateral extents of the release within 300 feet of a wetland? Are the lateral extents of the release overlying a subsurface mine? Are the lateral extents of the release overlying an unstable area such as karst geology? Are the lateral extents of the release within a 100-year floodplain? Did the release impact areas not on an exploration, development, production, or storage site? 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	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 overlying a subsurface mine? Are the lateral extents of the release overlying an unstable area such as karst geology? Are the lateral extents of the release within a 100-year floodplain? Did the release impact areas not on an exploration, development, production, or storage site? 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		☐ Yes ☐ No				
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Are the lateral extents of the release within a 100-year floodplain? Did the release impact areas not on an exploration, development, production, or storage site? 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	Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No				
Did the release impact areas not on an exploration, development, production, or storage site? 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	Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No				
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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	Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ No				
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 □ 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 	Characterization Report Checklist: Each of the following items must be included in the report.					
	 □ 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 					

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: 8/29/2024 5:49:31 PM State of New Mexico
Page 4 Oil Conservation Division

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Incident ID		
District RP		
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Printed Name:	_ Title:				
Signature:_ /4 75	Date:				
email:	Telephone:				
OCD Only					
Received by:	Date:				

Received by OCD: 8/29/2024 5:49:31 PM State of New Mexico Oil Conservation Division Page 5

	Page 33 of 212
Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.					
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC □ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 						
Deferral Requests Only: Each of the following items must be con-	firmed 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.					
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of					
Printed Naı	Title:					
Signature: 1478	Date:					
email:	Telephone:					
OCD Only						
·						
Received by:	Date:					
☐ Approved ☐ Approved with Attached Conditions of	Approval					
Signature:	Date:					

Received by OCD: 8/29/2024 5:49:31 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

	Page 34 of 212
Incident ID	
District RP	
Facility ID	
Application ID	

Closure

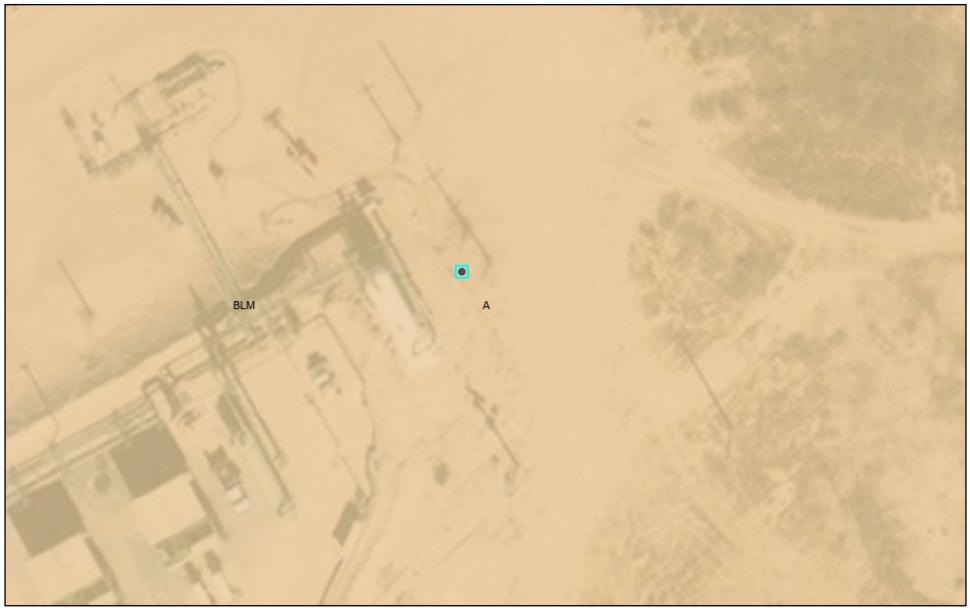
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled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

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

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

APPENDIX BSite Characterization

OCD - Land Ownership



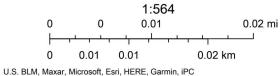
9/26/2023, 10:14:09 AM

Mineral Ownership

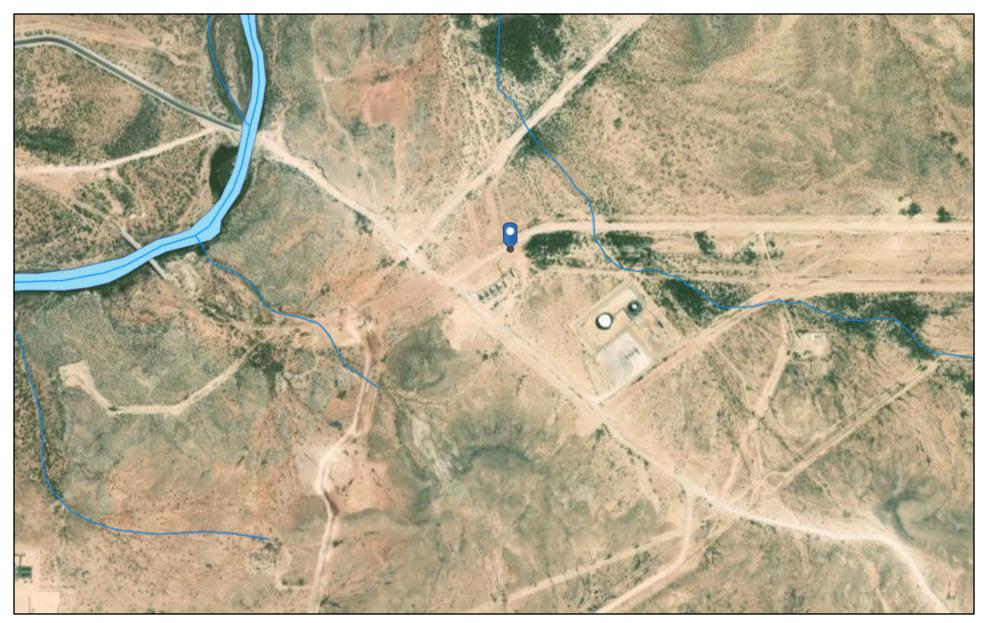
A-All minerals are owned by U.S.

Land Ownership

BLM



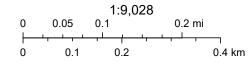
OCD Waterbodies



1/25/2024, 9:30:55 AM

OSW Water Bodys

OSE Streams



Esri, HERE, Garmin, iPC, Maxar, NM OSE

Received by OCD; 8/29/2024 5:49:31,PM National Flood Hazard Layer FIRMette



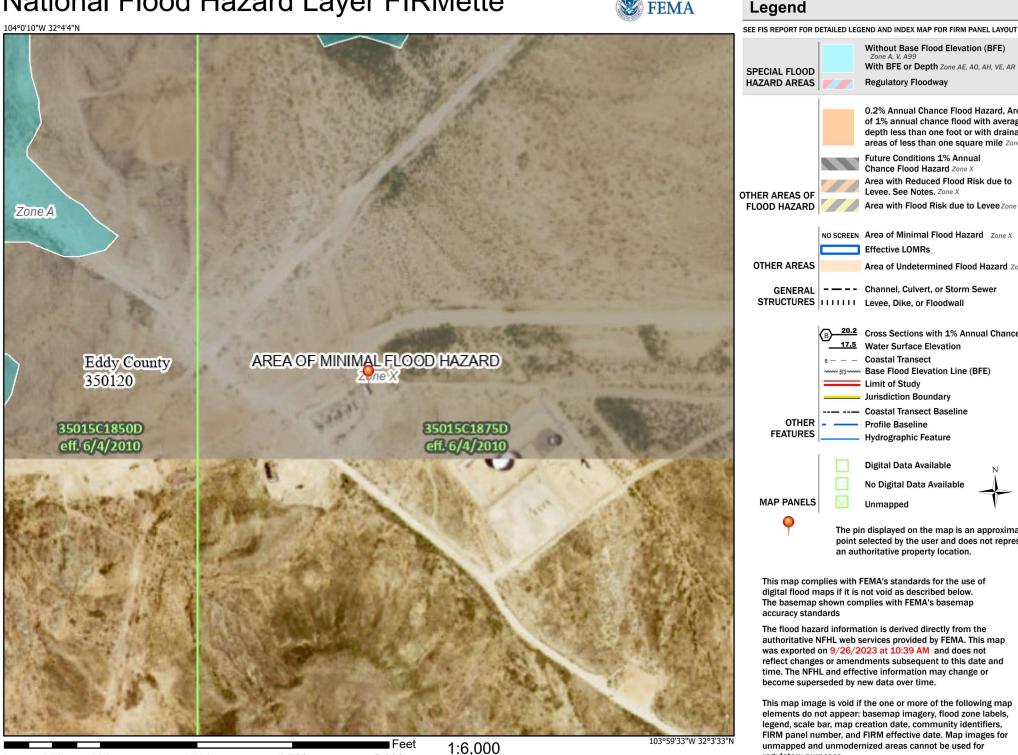


Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS **Regulatory Floodway** 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF FLOOD HAZARD Area with Flood Risk due to Levee Zone D NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D **GENERAL** - - - Channel, Culvert, or Storm Sewer STRUCTURES | LILLI Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study **Jurisdiction Boundary** -- Coastal Transect Baseline **OTHER** Profile Baseline **FEATURES** Hydrographic Feature **Digital Data Available** No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate

point selected by the user and does not represent an authoritative property location. This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/26/2023 at 10:39 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



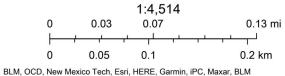
OCD - Karst Areas



9/26/2023, 10:23:19 AM

Karst Occurrence Potential







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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

C=the file is (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NA

(NAD83 UTM in meters)

(In feet)

	POD Sub-		Q	Q ()						Depth	Depth	Water
POD Number	Code basin	County	64	16 4	Sec	Tws	Rng	Х	Y	Distance	-	_	Column
C 03507 POD1	С	ED	1	3 3	3 05	26S	29E	593064	3548313 🌍	1611	140	78	62
C 03508 POD1	С	ED	1	3 3	3 05	26S	29E	593063	3548361 🌕	1624	140	75	65

Average Depth to Water: 76 feet

Minimum Depth: 75 feet

Maximum Depth: 78 feet

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 594622.15 **Northing (Y):** 3547903.47 **Radius:** 1700

APPENDIX C Regulatory Correspondence

Chama, Sam

From: OCDOnline@state.nm.us

Sent: Wednesday, January 31, 2024 9:00 AM

To: Llull, Christian

Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 309139

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

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#) nAB1715742101, with the following conditions:

- Remediation plan approved. Sidewall confirmation samples in the immediate vicinity of any pressurized lines must be collected. Confirmation bottom and sidewall samples representative of no more than 400 square feet is approved.
- A complete and accurate remediation closure report will need to be submitted by April 30, 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, **Brittany Hall** Projects Environmental Specialist - A 505-517-5333 Brittany.Hall@emnrd.nm.gov

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

From: Hall, Brittany, EMNRD

To: Abbott, Sam; Enviro, OCD, EMNRD

Cc: <u>Llull, Christian</u>

Subject: RE: [EXTERNAL] Extension Request - West Brushy 8 Federal SWD #001 Remediation (Incident IDs

nAB1715742101 and nAB1619432451) Wednesday, May 1, 2024 8:37:44 AM

Attachments: <u>image001.pnq</u>

image002.png image003.png image004.png image005.png

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

Sam,

Date:

The extension request is approved. This will be the final extension approved for nAB1715742101 and nAB1619432451. The new due date is July 30, 2024.

Please include a copy of this email in the remediation closure reports for nAB1715742101 and nAB1619432451.

Thank you,

Brittany Hall • Environmental Specialist

Environmental Bureau Projects Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110

505.517.5333 | Brittany.Hall@emnrd.nm.gov

http://www.emnrd.nm.gov/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: Tuesday, April 30, 2024 3:30 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Llull, Christian < Christian.Llull@tetratech.com>; Hall, Brittany, EMNRD

<Brittany.Hall@emnrd.nm.gov>

Subject: [EXTERNAL] Extension Request - West Brushy 8 Federal SWD #001 Remediation (Incident IDs nAB1715742101 and nAB1619432451)

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To Whom it May Concern,

On behalf of ConocoPhillips, Tetra Tech is requesting a 90-day extension (until July 30, 2024) to complete remedial activities and associated reporting for the **West Brushy 8 Federal SWD #001 combined release (Incident IDs nAB1715742101 and nAB1619432451)**.

The remediation action plan was approved separately for each of the 2 release incidents on January 1, 2024. The plans were sent to the BLM for concurrence. In an email dated February 29, 2024, Shelly Taylor of the BLM wrote via email that a full archeological survey is required at the site.

The archeological field survey was completed by SWCA on behalf of Tetra Tech and ConocoPhillips on April 9, 2024. Due to the scope of the survey and associated reporting required by the BLM, the survey report is still in draft and is anticipated to be submitted to the BLM by May 9, 2024.

The remedial action will commence upon final approval by the BLM.

Thank you in advance. Sam

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

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2	

 From:
 Taylor, Shelly J

 To:
 Abbott, Sam

 Cc:
 Liull, Christian

Subject: Re: [EXTERNAL] RE: WEST BRUSHY 8 FEDERAL SWD #001 Release - nAB1619432451 - Remediation Work Plan

Date: Wednesday, June 26, 2024 10:32:13 AM

Attachments: <u>image001.png</u>

image002.pnq image003.pnq image004.pnq image005.pnq image011.pnq image012.pnq image013.pnq image014.pnq image015.pnq image016.pnq Outlook-v2hu0l1w.pnq

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BLM approves for you to proceed with remedial actions.

Respectfully,

Shelly G Taylor

Assistant Field Manager Lands & Minerals - Acting

Bureau of Land Management Pecos District/Roswell Field Office 2909 W 2nd St Roswell, NM 88201

Direct 575.627.0250 Mobile 575.200.0614 <u>sitaylor@blm.gov</u>



From: Abbott, Sam <Sam.Abbott@tetratech.com>

Sent: Tuesday, June 25, 2024 2:43 PM **To:** Taylor, Shelly J <sjtaylor@blm.gov>

Cc: Llull, Christian < Christian.Llull@tetratech.com>

Subject: RE: [EXTERNAL] RE: WEST BRUSHY 8 FEDERAL SWD #001 Release - nAB1619432451 -

Remediation Work Plan

Good afternoon Shelly,

I am writing to follow up on this Remediation Work Plan conditional approval. We hope to begin this remediation project on Monday, July 1^{st} , and continue through most of July.

Tetra Tech subcontracted SWCA to complete the archeological survey in April 2024. The attached report (redacted) was submitted to the BLM and NMCRIS by SWCA.

If subsurface cultural materials are encountered during remediation, all work should cease, and the BLM will be notified immediately. No work will be performed within 100 feet of the known site (LA 66112).

Can you confirm that Tetra Tech and ConocoPhillips are cleared to proceed with the proposed work without the presence of a cultural monitor?

Thank you,

Sam

Samantha Abbott, PG | Project Manager

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

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From: Taylor, Shelly J <sjtaylor@blm.gov>

Sent: Thursday, February 29, 2024 1:23 PM

To: Llull, Christian < Christian.Llull@tetratech.com>

Cc: Allen, Samantha <SAMANTHA.ALLEN@tetratech.com>; Abbott, Sam

<Sam.Abbott@tetratech.com>

Subject: Re: [EXTERNAL] RE: WEST BRUSHY 8 FEDERAL SWD #001 Release - nAB1619432451 -

Remediation Work Plan

You don't often get email from sitaylor@blm.gov. Learn why this is important

archeological survey, a full survey will be required including any areas that will be disturbed in order to access the release area. Based on survey results, an archeological monitor maybe required.

- 5. The release **did not** impact any known archaeological areas based on available data.
- 6. This area is located within a Medium karst zone; a karst survey will not be required.
- 7. This site is located within hydrological feature.
- 8. Site is located within a Special Status Plant Species area.
- 9. The site **is not** located within a wildlife T&E species habitat. No survey will be required.
- 10. Area **is not** located within <u>Shinnery Oak PDO.</u>
- 11. Soils are within the Pajarito-Dune Land
- 12. BLM Seed Mix: #2.
- 13. Area is noted to be within N/A.
- 14. Site **is not** located within a *Special Area of concern*:
- 15. Site is not located within ACEC.
- 16. Site **is not** located within a Potash buffer area.

You will be cleared to proceed upon the completion of the archeological survey.

Sincerely,

Shelly J Taylor

Environmental Protection Specialist

Realty - Compliance

Bureau of Land Management/Carlsbad Field Office 620 E. Greene St Carlsbad, NM 88220 Direct 575.234.5706 Mobile 575.200.0614 sjtaylor@blm.gov



Spill/Release email: BLM_NM_CFO_REALTY_SPILL@BLM.GOV

From: Taylor, Shelly J <sjtaylor@blm.gov>
Sent: Thursday, February 29, 2024 10:11 AM
To: Llull, Christian <Christian.Llull@tetratech.com>

Cc: Allen, Samantha <<u>SAMANTHA.ALLEN@tetratech.com</u>>; Abbott, Sam

<<u>Sam.Abbott@tetratech.com</u>>

Subject: Re: [EXTERNAL] RE: WEST BRUSHY 8 FEDERAL SWD #001 Release - nAB1619432451 -

Remediation Work Plan

Apologies... thought I replied. You are cleared to proceed with remedial activities.

Respectfully,

Shelly J Taylor
Assistant Field Manager
Lands & Minerals - Acting

Bureau of Land Management Pecos District/Roswell Field Office 2909 W 2nd St Roswell, NM 88201

Direct 575.627.0250 Mobile 575.200.0614 sjtaylor@blm.gov



From: Llull, Christian < Christian.Llull@tetratech.com

Sent: Tuesday, February 27, 2024 11:36 AM **To:** Taylor, Shelly J <<u>sitaylor@blm.gov</u>>

Cc: Allen, Samantha <<u>SAMANTHA.ALLEN@tetratech.com</u>>; Abbott, Sam

<<u>Sam.Abbott@tetratech.com</u>>

Subject: [EXTERNAL] RE: WEST BRUSHY 8 FEDERAL SWD #001 Release - nAB1619432451 -

Remediation Work Plan

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Hey Shelly, we are still looking for the BLM response re: these aggregate WPs. Please advise.

Christian

From: Abbott, Sam <<u>Sam.Abbott@tetratech.com</u>>

Sent: Wednesday, February 21, 2024 1:54 PM

To: Llull, Christian < Christian.Llull@tetratech.com; Tucker, Shelly J <stucker@blm.gov>

Cc: Allen, Samantha <<u>SAMANTHA.ALLEN@tetratech.com</u>>

Subject: RE: WEST BRUSHY 8 FEDERAL SWD #001 Release - nAB1619432451 - Remediation Work

la

Here is the KML.

Samantha Abbott, PG | Project Manager

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

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From: Abbott, Sam

Sent: Wednesday, February 21, 2024 1:49 PM

To: Llull, Christian < Christian.Llull@tetratech.com; Tucker, Shelly J <stucker@blm.gov>

Cc: Allen, Samantha <<u>SAMANTHA.ALLEN@tetratech.com</u>>

Subject: RE: WEST BRUSHY 8 FEDERAL SWD #001 Release - nAB1619432451 - Remediation Work

Plan

Attached is a KMZ with the release extent, assessment sampling locations, and proposed remedial extents. Mapped utilities are also included.

This is the same remedial action proposed for the other West Brushy 8 Federal SWD #001 release (nAB1715742101).

Samantha Abbott, PG | Project Manager

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

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From: Llull, Christian < Christian.Llull@tetratech.com

Sent: Wednesday, January 31, 2024 1:23 PM

To: Taylor, Shelly J <<u>sjtaylor@blm.gov</u>>

Cc: Abbott, Sam < Sam. Abbott@tetratech.com >; Allen, Samantha

<<u>SAMANTHA.ALLEN@tetratech.com</u>>

Subject: WEST BRUSHY 8 FEDERAL SWD #001 Release - nAB1619432451 - Remediation Work Plan

Shelly:

Attached for your review is the Remediation Work Plan for the West Brushy 8 Federal SWD #001 Release - nAB1619432451 (DOR 7/3/2016).

- This WP has been approved by NMOCD.
- Approval attached.
- There are three similar WPs that you will receive, the remedial action is the same for all 3 sites based on the combined assessment.

WEST BRUSHY 8 FEDERAL SWD #001

Eddy County, NM

GPS Coordinates: 32.063500°, -103.997560°

Incident ID: nAB1619432451

BACKGROUND:

- According to the Form C-141, the release was discovered on July 3, 2016.
 - The release consisted of 25 bbls of produced water, of which 0 bbls were recovered.
 - The cause of the release was noted as a damaged poly flowline.
- BBC conducted a site assessment from January 2017.
 - Soil samples were collected from twelve (12) locations within the extent of the release and four (4) locations along the perimeter of the extent.
 - A total of forty-three (43) soil samples were collected from the sixteen (16) sampling locations and submitted to Cardinal Laboratories in Hobbs, New Mexico (Cardinal) for analysis.
 - Analytical results were above the reclamation limit for chloride (600 mg/kg) in surface (0-4 feet bgs) soils at eight (8) of the sampling locations (SP5 through SP12).
- A Delineation Workplan was prepared by BBC based on the results of the 2017 BBC assessment activities.
 - A copy of the approved remediation proposal Mr. Bratcher refers to in an email from February 22, 2018, could not be located.
- A Closure Report for four separate releases that occurred at the West Brushy 8 Federal SWD #001 Site, including Incident nAB1619432451, was rejected by NMOCD on May 1, 2023, with the following comments:
 - "Email correspondence provided by operator stated that an email dated 2/22/2018 an email from OCD personnel stated "2RP-3353 and 2RP-3774 releases cover basically the same area and have approved remediation proposals". Based on the information found under 2RP-3353 (NAB1529948530) closed was not approved in 2016.
 - The closure report is not clear as to what activities occurred for remediation of

this site.

- Submit a complete report though the OCD Permitting website by 8/1/2023.
- 2RP-3774 closed. Refer to incident #NAB1619432451 in all future communication."

ADDITIONAL ASSESSMENT:

- Tetra Tech personnel were onsite to conduct additional assessment sampling on September 21, 2023.
 - Fifteen (15) hand auger borings (AH-23-1 through AH-23-15) were installed to depths ranging from 1 to 4 feet bgs in a cross-section pattern across the release extent.
- Tetra Tech remobilized to the site on November 30, 2023, and January 4-5, 2024, and January 10, 2024, to achieve delineation.
 - Two (2) soil trenches (T-1 and T-5) and two (2) hand auger borings (AH-23-16 and AH-23-17) were installed in the northern drainage area.
 - Sixteen (16) soil trenches (T-24-1 through T-24-16) and four (4) hand auger borings (H-24-1 through H-24-4) were installed near the release area.
 - Six (6) borings with an air rotary drill rig were installed near the release area.
 - A total of ninety-seven (97) soil samples were collected analyzed for chloride via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8261B.
 - Analytical results associated with the 0–1-foot bgs soil interval at trench location T-24-6 exceeded the reclamation limit of 100 mg/kg for TPH.
 - Chloride concentrations were detected in surface soils (0-4 feet bgs) at levels above the reclamation limit of 600 mg/kg at seventeen (17) of the sample locations.

WORK PLAN:

Based on the analytical results from the assessment, impacted material within the release extent is proposed to be removed to a maximum depth of 4'.

- The total proposed volume to be removed and disposed of is 1,920 cubic yards.
- Confirmation floor samples and confirmation sidewall samples will be collected for verification of remedial activities.
 - Confirmation sidewall and floor samples will be representative of no more than approximately 400 square feet of excavated area.
- Once acceptable confirmation sample results are received the excavation will then be backfilled with clean material to surface grade.
- The seed mixture for LPC Sand/Shinnery Sites will be used for seeding.
- Remediation activities at the Site are proposed to begin within **120** days.

Let me know what you think,

Christian

Christian Llull, P.G. | Program Manager
Mobile +1 (512) 565-0190 | christian.llull@tetratech.com

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From: <u>Hall, Brittany, EMNRD</u>

To: Abbott, Sam

Cc: Llull, Christian; Enviro, OCD, EMNRD; Bratcher, Michael, EMNRD

Subject: RE: [EXTERNAL] Extension Request - West Brushy 8 Federal SWD #001 Remediation (Incident IDs

nAB1715742101 and nAB1619432451)

Date:Tuesday, July 30, 2024 2:26:14 PMAttachments:image001.png

image002.png image003.png image004.png image005.png

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

Sam,

A final 30-day extension nAB1715742101 and nAB1619432451 is approved. The new due date is August 30, 2024.

Please include a copy of this email in both incidents' next submittals.

Thank you,

Brittany Hall • Environmental Specialist

Environmental Bureau Projects Group EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87110

505.517.5333 | Brittany.Hall@emnrd.nm.gov

http://www.emnrd.nm.gov/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: Tuesday, July 30, 2024 11:23 AM

To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Enviro, OCD, EMNRD

<OCD.Enviro@emnrd.nm.gov>

Cc: Llull, Christian < Christian.Llull@tetratech.com>

Subject: [EXTERNAL] Extension Request - West Brushy 8 Federal SWD #001 Remediation (Incident

IDs nAB1715742101 and nAB1619432451)

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

Good morning Brittany,

On behalf of ConocoPhillips, Tetra Tech is requesting a final 30-day extension (until August 30, 2024)

to complete remedial activities and associated reporting for the West Brushy 8 Federal SWD #001 combined release (Incident IDs nAB1715742101 and nAB1619432451).

The remediation action plan was approved separately for each of the 2 release incidents on January 1, 2024. The plans were sent to the BLM for concurrence. In an email dated February 29, 2024, Shelly Taylor of the BLM wrote via email that a full archeological survey is required at the site. The archeological field survey was completed by SWCA on behalf of Tetra Tech and ConocoPhillips on April 9, 2024. A previous extension request was made on April 30, 2024, while BLM approval of the remedial action was pending.

The remedial action received approval from the BLM on June 26, 2024. Tetra Tech began remedial activities at the Site on behalf of COP on July 10, 2024, following additional coordination with the facility operator and multiple operators of pipelines coinciding with the remedial footprint. The first 5 days of the project were spent daylighting buried pipelines using hydrovac trucks.

The remedial action is ongoing, with confirmation sampling events occurring on July 22nd, July 26th, and continuing today, July 30th, and tomorrow, July 31st. More confirmation sampling may be required past July 31st depending on excavation progress and initial confirmation sampling results. The attached map and photographs indicate the progress of the remedial action up to present. Remedial extents and confirmation sampling frequency intervals are based on the approved work plans. The remedial action is expected to be completed by the end of next week, and the remediation closure reports will be submitted soon thereafter.

Thank you in advance, 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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Plea	ase consider the environment before printing. Read more
?	

From: OCDOnline@state.nm.us

To: <u>Llull, Christian</u>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 363485

Date: Thursday, July 11, 2024 4:25:12 PM

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

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#) nAB1715742101.

The sampling event is expected to take place:

When: 07/16/2024 @ 10:00

Where: A-08-26S-29E 660 FNL 330 FEL (32.0625267,-103.9986572)

Additional Information: Contact

Samantha Abbott, PG | Project Manager

Direct Mobile +1 (512) 739-7874

Additional Instructions: WEST BRUSHY 8 FEDERAL SWD #001

Eddy County, NM

GPS Coordinates: 32.063500°, -103.997560°

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: Wells, Shelly, EMNRD

To: Abbott, Sam

Cc: <u>Hall, Brittany, EMNRD</u>; <u>Llull, Christian</u>

Subject: RE: [EXTERNAL] C-141N Variance Request - nAB1715742101

Date: Friday, August 2, 2024 11:37:13 AM Attachments: image001.pnq

> image002.png image003.png image004.png image005.png

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

Good morning Sam,

A variance to the two business day sampling notice is approved for AB1715742101 WEST BRUSHY 8 FEDERAL SWD #001 for 8/5/24. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced

Environmental Bureau

EMNRD-Oil Conservation Division

1220 S. St. Francis Drive|Santa Fe, NM 87505

(505)469-7520|Shelly.Wells@emnrd.nm.gov

http://www.emnrd.state.nm.us/OCD/

From: Abbott, Sam <Sam.Abbott@tetratech.com>

Sent: Friday, August 2, 2024 9:58 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Llull, Christian

<Christian.Llull@tetratech.com>

Subject: [EXTERNAL] C-141N Variance Request - nAB1715742101

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

Good morning,

I am requesting a variance to continue confirmation sampling outside of the initial notice period with less than 48 hours' notice.

Due to an oversight, two samples that were meant to be collected on 7/31/2024 were not sent to the lab. These samples will be collected and submitted to the lab on Monday, 8/5/2024.

Thank you,

Sam

Samantha Abbott, PG | Project Manager

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

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From: Hall, Brittany, EMNRD < Brittany.Hall@emnrd.nm.gov>

Sent: Monday, July 29, 2024 12:44 PM

To: Abbott, Sam <<u>Sam.Abbott@tetratech.com</u>>; Llull, Christian <<u>Christian.Llull@tetratech.com</u>>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD

<<u>Shelly.Wells@emnrd.nm.gov</u>>

Subject: RE: [EXTERNAL] RE: The Oil Conservation Division (OCD) has accepted the application,

Application ID: 363485

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 < <u>Sam.Abbott@tetratech.com</u>>

Sent: Friday, July 26, 2024 4:22 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov >; ocdonline, emnrd, EMNRD

<emnrd.ocdonline@emnrd.nm.gov>

Cc: Llull, Christian < christian.Llull@tetratech.com

Subject: [EXTERNAL] RE: The Oil Conservation Division (OCD) has accepted the application,

Application ID: 363485

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

Good afternoon,

I am requesting a variance to continue confirmation sampling outside of the initial notice period. We experienced delays at the beginning of our remedial action due to pipeline daylighting activities and coordination efforts with various pipeline operators.

We initially planned to begin sampling activities on 7/16/2024 at 10 am. Following the delays mentioned, we were not able to begin final confirmation sampling until 7/22/2024. We also collected confirmation samples today, 7/26/2024.

The remediation activities are ongoing, and we will be collecting additional confirmation samples next week, likely on 7/30 and/or 7/31. We will submit an additional C-141N today for the additional sampling planned for next week.

Thank you, Sam

Samantha Abbott, PG | Project Manager

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

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Please consider the environment before printing. Read more



From: OCDOnline@state.nm.us>

Sent: Thursday, July 11, 2024 4:25 PM

To: Llull, Christian < christian.llull@tetratech.com>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 363485

From: OCDOnline@state.nm.us

To: <u>Llull, Christian</u>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 367769

Date: Friday, July 26, 2024 6:19:06 PM

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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#) nAB1715742101.

The sampling event is expected to take place:

When: 07/31/2024 @ 10:00

Where: A-08-26S-29E 660 FNL 330 FEL (32.0625267,-103.9986572)

Additional Information: Additional information: sampling previously collected on 7/22 and 7/26. Sampling may continue through 8/1. Please contact Samantha Abbott, PG / Project Manager at 512-739-7874

Additional Instructions: Navigation Info: WEST BRUSHY 8 FEDERAL SWD #001 Eddy County, NM GPS Coordinates: 32.063500°, -103.997560°

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

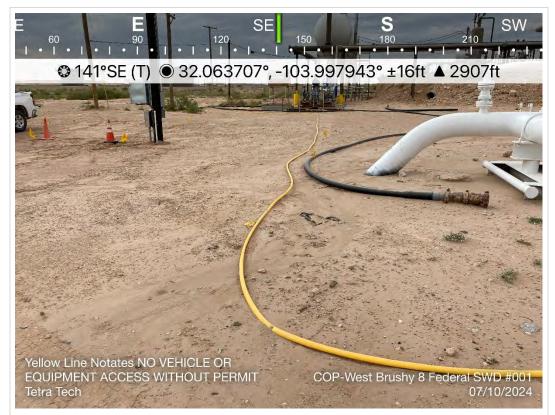
APPENDIX D Photographic Documentation



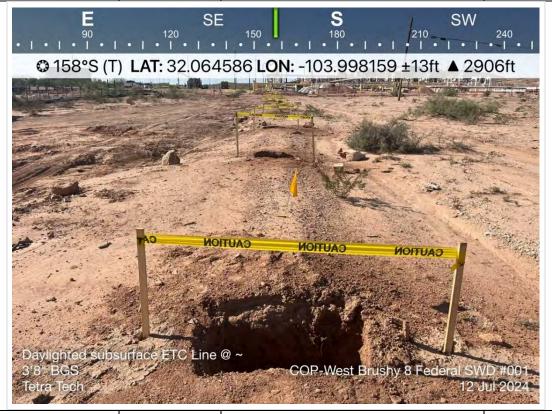
TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View northeast, site walk and review of utility lines and associated markings prior to excavation.	1
212C-MD-02997	SITE NAME	West Brushy 8 SWD #001	7/10/2024



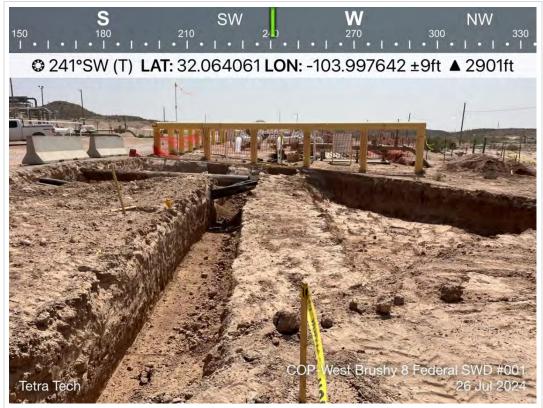
TETRA TECH, INC. PROJECT NO. 212C-MD-02997	DESCRIPTION	View northwest, confirming powerline height for safety walk ahead of excavation.	2
	SITE NAME	West Brushy 8 SWD #001	7/10/2024



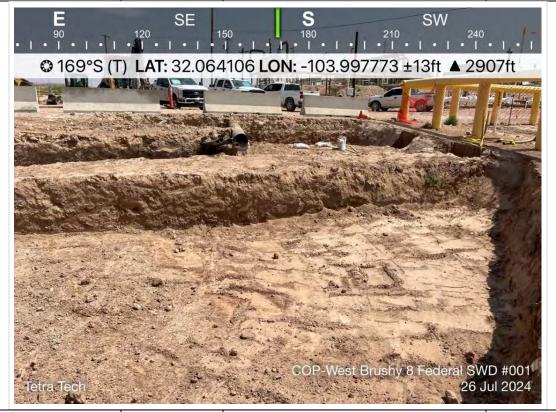
TETRA TECH, INC.	DESCRIPTION	View southeast, setting safety boundary for vehicle access around critical infrastructure.	3
PROJECT NO. 212C-MD-02997	SITE NAME	West Brushy 8 SWD #001	7/10/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02997	DESCRIPTION	View south-southeast, hydrovac of subsurface to confirm location. Potholes indicate intervals of spotted location.	4
	SITE NAME	West Brushy 8 SWD #001	7/12/2024



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View southwest, 4-foot excavation surrounding area with subsurface line stemming from pipe in background.	5
212C-MD-02997	SITE NAME	West Brushy 8 SWD #001	7/26/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02997	DESCRIPTION	View south, 4-foot excavation with adjacent area containing subsurface line.	6
	SITE NAME	West Brushy 8 SWD #001	7/26/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02997	DESCRIPTION	View northwest, 4-foot excavation as per approved work plan.	7	
	SITE NAME	West Brushy 8 SWD #001	7/26/2024	



TETRA TECH, INC. PROJECT NO. 212C-MD-02997	DESCRIPTION	View northwest, 4-foot excavation adjacent to subsurface line running parallel.	8
	SITE NAME	West Brushy 8 SWD #001	7/26/2024



TETRA TECH, INC.	DESCRIPTION	View south, 4-foot excavation running roughly north- south, extending towards east-west lease road.	9	
PROJECT NO. 212C-MD-02997	SITE NAME	West Brushy 8 SWD #001	7/26/2024	



TETRA TECH, INC. PROJECT NO. 212C-MD-02997	DESCRIPTION	DESCRIPTION View southeast, backfill of 4-foot excavation with potholes of adjacent subsurface line.			
	SITE NAME	West Brushy 8 SWD #001	7/29/2024		



TETRA TECH, INC. PROJECT NO. 212C-MD-02997	DESCRIPTION	View north, backfill of 4-foot excavation.	11
	SITE NAME	West Brushy 8 SWD #001	8/6/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02997	DESCRIPTION	View northeast, excavated areas backfilled with like materials.	12	
	SITE NAME	West Brushy 8 SWD #001	8/6/2024	



TETRA TECH, INC. PROJECT NO. 212C-MD-02997	DESCRIPTION	View southeast, excavated extent backfilled with clean materials.	13
	SITE NAME	West Brushy 8 SWD #001	8/6/2024

APPENDIX E Laboratory Analytical Data



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

July 24, 2024

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND, TX 79701

RE: WEST BRUSHY 8 FED SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 07/23/24 8:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET , STE $100\,$

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/23/2024 Sampling Date: 07/22/2024

Reported: 07/24/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Project Location: COP- EDDY COUNTY, NM

Sample ID: NSW - 1 (H244359-01)

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	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/23/2024	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	100 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/23/2024 Sampling Date: 07/22/2024

Reported: Sampling Type: Soil 07/24/2024

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Project Location: COP- EDDY COUNTY, NM

Sample ID: ESW - 1 (H244359-02)

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	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/23/2024	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	113 9	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	6 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/23/2024 Sampling Date: 07/22/2024

Reported: Sampling Type: Soil 07/24/2024

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Project Location: COP- EDDY COUNTY, NM

Sample ID: ESW - 2 (H244359-03)

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	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	< 0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/23/2024	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	107 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 9	6 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/23/2024 Sampling Date: 07/22/2024

Reported: Sampling Type: Soil 07/24/2024

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Project Location: COP- EDDY COUNTY, NM

Sample ID: ESW - 3 (H244359-04)

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	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/23/2024	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/23/2024 Sampling Date: 07/22/2024

Reported: 07/24/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: SSW - 1 (H244359-05)

BTEX 8021B

	9/	9	71.14.1, = 0	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/23/2024	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	115	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/23/2024 Sampling Date: 07/22/2024

Reported: 07/24/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: WSW - 1 (H244359-06)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/23/2024	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/23/2024 Sampling Date: 07/22/2024

Reported: 07/24/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: WSW - 2 (H244359-07)

BTEX 8021B

	9/	·-9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/23/2024	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	92.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.6	% 49.1-14	8						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET , STE $100\,$

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/23/2024 Sampling Date: 07/22/2024

Reported: 07/24/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Project Location: COP- EDDY COUNTY, NM

Sample ID: WSW - 3 (H244359-08)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	07/23/2024	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/23/2024 Sampling Date: 07/22/2024

Reported: Sampling Type: Soil 07/24/2024

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C - MD - 02997 Shalyn Rodriguez

Project Location: COP- EDDY COUNTY, NM

Sample ID: FS - 1 (H244359-09)

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	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/23/2024	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	120 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/23/2024 Sampling Date: 07/22/2024

Reported: 07/24/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 2 (H244359-10)

BTEX 8021B

DILX GOZID	iiig/	, kg	Allulyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	07/23/2024	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/23/2024 Sampling Date: 07/22/2024

Reported: 07/24/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 3 (H244359-11)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	07/23/2024	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	119	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

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Celeg D. Freene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/23/2024 Sampling Date: 07/22/2024

Reported: 07/24/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 4 (H244359-12)

BTEX 8021B

	9/	9	7 7 = 0	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	07/23/2024	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/23/2024 Sampling Date: 07/22/2024

Reported: 07/24/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 5 (H244359-13)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	07/23/2024	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	112	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	8						

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Celeg D. Freene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/23/2024 Sampling Date: 07/22/2024

Reported: 07/24/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

ma/ka

Sample ID: FS - 6 (H244359-14)

RTFY 8021R

mg/	кg	Anaiyze	a By: JH					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
<0.300	0.300	07/23/2024	ND					
110 9	% 71.5-13	4						
mg/	/kg	Analyze	d By: CT					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
2320	16.0	07/23/2024	ND	448	112	400	3.64	
mg/	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
<10.0	10.0	07/23/2024	ND					
<10.0			ND					
_	Result 2320 mg/ Result <10.0	mg/kg Result Reporting Limit 2320 16.0 mg/kg Result Reporting Limit <10.0 10.0	mg/kg Analyzed Result Reporting Limit Analyzed 2320 16.0 07/23/2024 mg/kg Analyzed Result Reporting Limit Analyzed <10.0	mg/s Analyzed Method Blank Result Reporting Limit Analyzed ND 2320 16.0 07/23/2024 ND mg/s Analyzed Blank Result Reporting Limit Analyzed Method Blank <10.0	mg/ky Analyzed By: CT Result Reporting Limit Analyzed Method Blank BS 2320 16.0 07/23/2024 ND 448 mg/ky Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0	Manalyzed By: CT Result Reporting Limit Analyzed Method Blank BS % Recovery 2320 16.0 07/23/2024 ND 448 112 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	mg/kg Analyzed By: CT Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 2320 16.0 07/23/2024 ND 448 112 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0	mg/s Analyzed By: CT Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 2320 16.0 07/23/2024 ND 448 112 400 3.64 mg/s Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

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Celeg & Freene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/23/2024 Sampling Date: 07/22/2024

Reported: 07/24/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 7 (H244359-15)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	07/23/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Celey D. Keens



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/23/2024 Sampling Date: 07/22/2024

Reported: 07/24/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 8 (H244359-16)

BTEX 8021B

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2270	16.0	07/23/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	118 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/23/2024 Sampling Date: 07/22/2024

Reported: 07/24/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 9 (H244359-17)

BTEX 8021B

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	07/23/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Celey & Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/23/2024 Sampling Date: 07/22/2024

Reported: 07/24/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

ma/ka

Sample ID: FS - 10 (H244359-18)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1660	16.0	07/23/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	114	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/23/2024 Sampling Date: 07/22/2024

Reported: Sampling Type: Soil 07/24/2024

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

ma/ka

Sample ID: FS - 11 (H244359-19)

RTFY 8021R

BIEX 8021B	mg,	кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	07/23/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	113 9	26 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/23/2024 Sampling Date: 07/22/2024

Reported: 07/24/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

ma/ka

Sample ID: FS - 12 (H244359-20)

RTFY 8021R

B1EX 8021B	mg/	кg	Апануге	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4120	16.0	07/23/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	117 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/23/2024 Sampling Date: 07/22/2024

Reported: 07/24/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 13 (H244359-21)

BTEX 8021B

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.00	99.9	2.00	1.74	
Toluene*	<0.050	0.050	07/23/2024	ND	1.98	99.1	2.00	2.47	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.00	99.9	2.00	2.44	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	5.89	98.1	6.00	2.54	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	07/23/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	180	89.9	200	0.447	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	171	85.6	200	0.339	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	95.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.2	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celeg & Freene



Notes and Definitions

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

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101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYS'S REQUEST

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101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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July 26, 2024

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND, TX 79701

RE: WEST BRUSHY 8 FED SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 07/24/24 16:57.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/24/2024 Sampling Date: 07/23/2024

Reported: 07/26/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Project Location: COP- EDDY COUNTY, NM

Sample ID: ETC-1 (H244412-01)

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	07/26/2024	ND	1.95	97.4	2.00	6.30	
Toluene*	<0.050	0.050	07/26/2024	ND	1.90	94.9	2.00	6.09	
Ethylbenzene*	<0.050	0.050	07/26/2024	ND	1.90	95.2	2.00	5.46	
Total Xylenes*	<0.150	0.150	07/26/2024	ND	5.67	94.5	6.00	5.09	
Total BTEX	<0.300	0.300	07/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	07/26/2024	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2024	ND	195	97.7	200	0.931	
DRO >C10-C28*	<10.0	10.0	07/26/2024	ND	184	91.8	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	07/26/2024	ND					
Surrogate: 1-Chlorooctane	75.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.2	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/24/2024 Sampling Date: 07/23/2024

Reported: 07/26/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: ETC-2 (H244412-02)

BTEX 8021B

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2024	ND	1.95	97.4	2.00	6.30	
Toluene*	<0.050	0.050	07/26/2024	ND	1.90	94.9	2.00	6.09	
Ethylbenzene*	<0.050	0.050	07/26/2024	ND	1.90	95.2	2.00	5.46	
Total Xylenes*	<0.150	0.150	07/26/2024	ND	5.67	94.5	6.00	5.09	
Total BTEX	<0.300	0.300	07/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	07/26/2024	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2024	ND	195	97.7	200	0.931	
DRO >C10-C28*	<10.0	10.0	07/26/2024	ND	184	91.8	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	07/26/2024	ND					
Surrogate: 1-Chlorooctane	83.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.6	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

Analyzed By: JH

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/24/2024 Sampling Date: 07/23/2024

Reported: 07/26/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: ETC-3 (H244412-03)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2024	ND	1.95	97.4	2.00	6.30	
Toluene*	<0.050	0.050	07/26/2024	ND	1.90	94.9	2.00	6.09	
Ethylbenzene*	<0.050	0.050	07/26/2024	ND	1.90	95.2	2.00	5.46	
Total Xylenes*	<0.150	0.150	07/26/2024	ND	5.67	94.5	6.00	5.09	
Total BTEX	<0.300	0.300	07/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	07/26/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2024	ND	195	97.7	200	0.931	
DRO >C10-C28*	<10.0	10.0	07/26/2024	ND	184	91.8	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	07/26/2024	ND					
Surrogate: 1-Chlorooctane	85.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.0	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

Analyzed By: JH

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/24/2024 Sampling Date: 07/23/2024

Reported: 07/26/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: ETC-4 (H244412-04)

BTEX 8021B

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2024	ND	1.95	97.4	2.00	6.30	
Toluene*	<0.050	0.050	07/26/2024	ND	1.90	94.9	2.00	6.09	
Ethylbenzene*	<0.050	0.050	07/26/2024	ND	1.90	95.2	2.00	5.46	
Total Xylenes*	<0.150	0.150	07/26/2024	ND	5.67	94.5	6.00	5.09	
Total BTEX	<0.300	0.300	07/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	07/26/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2024	ND	195	97.7	200	0.931	
DRO >C10-C28*	<10.0	10.0	07/26/2024	ND	184	91.8	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	07/26/2024	ND					
Surrogate: 1-Chlorooctane	92.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.7	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C
 Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



July 30, 2024

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND, TX 79701

RE: WEST BRUSHY 8 FED SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 07/29/24 9:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/29/2024 Sampling Date: 07/26/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Project Location: COP- EDDY COUNTY, NM

Sample ID: ESW - 4 (H244486-01)

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	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/29/2024	ND	464	116	400	7.14	
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	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	71.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.5	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/29/2024 Sampling Date: 07/26/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: WSW - 4 (H244486-02)

BTEX 8021B

	9/	9	71.14.1, = 0	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/29/2024	ND	464	116	400	7.14	
TPH 8015M	mg	/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	83.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.2	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/29/2024 Sampling Date: 07/26/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 14 (H244486-03)

BTEX 8021B

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	07/29/2024	ND	464	116	400	7.14	
TPH 8015M	mg/	'kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	94.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.2	% 49.1-14	8						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/29/2024 Sampling Date: 07/26/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

ma/ka

Sample ID: FS - 15 (H244486-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	07/29/2024	ND	464	116	400	7.14	
TPH 8015M	mg,	/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	92.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.3	% 49.1-14	8						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/29/2024 Sampling Date: 07/26/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 16 (H244486-05)

BTEX 8021B

	9/	9	74141720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	07/29/2024	ND	464	116	400	7.14	
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	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	82.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.6	% 49.1-14	8						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/29/2024 Sampling Date: 07/26/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Project Location: COP- EDDY COUNTY, NM

Sample ID: FS - 17 (H244486-06)

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	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	07/29/2024	ND	464	116	400	7.14	
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	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	86.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.1	% 49.1-14	8						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/29/2024 Sampling Date: 07/26/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

Sample ID: WSW - 3 (1') (H244486-07)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	07/29/2024	ND	464	116	400	7.14	
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	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	95.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.6	% 49.1-14	8						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/29/2024 Sampling Date: 07/26/2024

Reported: Sampling Type: Soil 07/30/2024

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Project Location: COP- EDDY COUNTY, NM

Sample ID: NSW - 2 (H244486-08)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	07/29/2024	ND	464	116	400	7.14	
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	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	99.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/29/2024 Sampling Date: 07/26/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: SSW - 2 (H244486-09)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	07/29/2024	ND	464	116	400	7.14	
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	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	96.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.1	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/29/2024 Sampling Date: 07/26/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Project Location: COP- EDDY COUNTY, NM

Sample ID: ISW - 1 (H244486-10)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	0.124	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	07/30/2024	ND	448	112	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	95.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.1	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/29/2024 Sampling Date: 07/26/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 22 (H244486-11)

BTEX 8021B

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/30/2024	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	80.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.5	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/29/2024 Sampling Date: 07/26/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 23 (H244486-12)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/30/2024	ND	448	112	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	74.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.7	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/29/2024 Sampling Date: 07/26/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 24 (H244486-13)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/30/2024	ND	448	112	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	84.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.0	% 49.1-14	8						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/29/2024 Sampling Date: 07/26/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 27 (H244486-14)

BTEX 8021B

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/30/2024	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	89.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.4	% 49.1-14	8						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/29/2024 Sampling Date: 07/26/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 28 (H244486-15)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/30/2024	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	91.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.8	% 49.1-14	8						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/29/2024 Sampling Date: 07/26/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 29 (H244486-16)

BTEX 8021B

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/30/2024	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	94.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.8	% 49.1-14	8						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/29/2024 Sampling Date: 07/26/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact Project Number: 212C - MD - 02997 Sample Received By: Shalyn Rodriguez

Project Location: COP- EDDY COUNTY, NM

Sample ID: FS - 30 (H244486-17)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 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	208	16.0	07/30/2024	ND	448	112	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	220	110	200	2.35	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	190	94.9	200	4.02	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	97.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/29/2024 Sampling Date: 07/26/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1 Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C - MD - 02997 Shalyn Rodriguez

Project Location: COP- EDDY COUNTY, NM

Sample ID: FS - 31 (H244486-18)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/30/2024	ND	448	112	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	220	110	200	2.35	
DRO >C10-C28*	10.4	10.0	07/29/2024	ND	190	94.9	200	4.02	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

State: MZIp: Fax #: Cumpany Coc Attn: 20 Attn	State: MZip: Addres Fax #: Fax #: City: State: MZip: Addres City: State: MZip: Addres City: State: MATRIX Phone Cu	Delivered By: (Circle One) Sampler - UPS - Bus - Ot	By:	Relinquished By:	4 9 5	20	00-	160	750	رو بر	J.R. HANGT	Lab I.D.	FOR LAB USE ONLY	Sampler Name: A	ž	Project Name: We		City:	Address:	Project Manager:	Company Name:
# CONTAINERS # CONTAINERS # CONTAINERS GROUNDWATER WASTEWATER WASTEWATER WASTEWATER WASTEWATER OIL SILUDGE OTHER: ACID/BASE: Fax #: Fax #: PRESERV ACID/BASE: OTHER: Cool Imlact Other in winds and read of a fort shall be familiated by the shall be	P.O. #: Company Corco Philly Address: City: Address: City: State: Zip: Phone #:	her	Time:	Jane Date:	us's liability and client's exclusive reme- nce and any other cause whatsoever st incidental or consequental damages, in to the performance of services heritural	Sw-1	105m - J	5-10	2-12	(SW-1) .	H- MS	Sample I.D.		Row Cruzia	XIda Caunty	+ Broky 8	13000	2		Sam / 6507+ /	r 1
	AMPLING O Total Place O Total Place O Total Place O Total Place O Total Results REMARKS REMARKS	Sample Condition Cool Intact Yes Yes		Received	aim arising whether based in contract or ron, some nod waived unless made in writing and received in out limitation, business interruptions, loss of use, sal, regardless of whether such claim is based.	«					# G W X S S S S S S S S S S S S S S S S S S	CONTAINERS ROUNDWATER VASTEWATER OIL IL LUDGE THER: CID/BASE: DE / COOL OTHER:	MATRIX	Fax		State:			0	leng	toch

Released to Imaging: 9/6/2024 10:33:04 AM



August 01, 2024

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

RE: WEST BRUSHY 8 FED SWD #1R

Enclosed are the results of analyses for samples received by the laboratory on 07/31/24 16:58.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Project Location: COP- EDDY COUNTY, NM

Sample ID: NSW - 3 (H244569-01)

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	08/01/2024	ND	1.87	93.3	2.00	4.45	
Toluene*	<0.050	0.050	08/01/2024	ND	1.83	91.5	2.00	3.68	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.94	97.0	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.70	95.1	6.00	3.38	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	416	104	400	3.92	
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	08/01/2024	ND	227	113	200	2.99	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	214	107	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	87.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.3	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: NSW - 4 (H244569-02)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.87	93.3	2.00	4.45	
Toluene*	<0.050	0.050	08/01/2024	ND	1.83	91.5	2.00	3.68	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.94	97.0	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.70	95.1	6.00	3.38	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 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	64.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	227	113	200	2.99	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	214	107	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: NSW - 5 (H244569-03)

BTEX 8021B

	9/	9	7	<u></u>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.87	93.3	2.00	4.45	
Toluene*	<0.050	0.050	08/01/2024	ND	1.83	91.5	2.00	3.68	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.94	97.0	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.70	95.1	6.00	3.38	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	227	113	200	2.99	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	214	107	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	118 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: SSW - 3 (H244569-04)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.87	93.3	2.00	4.45	
Toluene*	<0.050	0.050	08/01/2024	ND	1.83	91.5	2.00	3.68	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.94	97.0	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.70	95.1	6.00	3.38	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 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	16.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	227	113	200	2.99	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	214	107	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	105 9	26 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	6 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: SSW - 4 (H244569-05)

BTEX 8021B

DILX GOZID	11197	ng .	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.87	93.3	2.00	4.45	
Toluene*	< 0.050	0.050	08/01/2024	ND	1.83	91.5	2.00	3.68	
Ethylbenzene*	< 0.050	0.050	08/01/2024	ND	1.94	97.0	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.70	95.1	6.00	3.38	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 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	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	227	113	200	2.99	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	214	107	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	121	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Project Location: COP- EDDY COUNTY, NM

Sample ID: WSW - 5 (H244569-06)

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	08/01/2024	ND	1.87	93.3	2.00	4.45	
Toluene*	<0.050	0.050	08/01/2024	ND	1.83	91.5	2.00	3.68	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.94	97.0	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.70	95.1	6.00	3.38	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 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	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	227	113	200	2.99	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	214	107	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	118 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

Analyzed By: JH

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: ESW - 5 (H244569-07)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.87	93.3	2.00	4.45	
Toluene*	<0.050	0.050	08/01/2024	ND	1.83	91.5	2.00	3.68	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.94	97.0	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.70	95.1	6.00	3.38	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	227	113	200	2.99	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	214	107	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	120	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 18 (H244569-08)

BTEX 8021B

	9/	9	7	<u></u>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.87	93.3	2.00	4.45	
Toluene*	<0.050	0.050	08/01/2024	ND	1.83	91.5	2.00	3.68	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.94	97.0	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.70	95.1	6.00	3.38	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	227	113	200	2.99	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	214	107	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

Analyzed By: JH

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 19 (H244569-09)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.87	93.3	2.00	4.45	
Toluene*	<0.050	0.050	08/01/2024	ND	1.83	91.5	2.00	3.68	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.94	97.0	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.70	95.1	6.00	3.38	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	227	113	200	2.99	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	214	107	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	118	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 20 (H244569-10)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.87	93.3	2.00	4.45	
Toluene*	<0.050	0.050	08/01/2024	ND	1.83	91.5	2.00	3.68	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.94	97.0	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.70	95.1	6.00	3.38	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	227	113	200	2.99	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	214	107	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	121	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 21 (H244569-11)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.87	93.3	2.00	4.45	
Toluene*	<0.050	0.050	08/01/2024	ND	1.83	91.5	2.00	3.68	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.94	97.0	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.70	95.1	6.00	3.38	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	220	110	200	3.02	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	202	101	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	87.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.0	% 49.1-14	8						

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Celeg D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 32 (H244569-12)

BTEX 8021B

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.08	104	2.00	6.41	
Toluene*	<0.050	0.050	08/01/2024	ND	2.27	114	2.00	4.35	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.43	122	2.00	4.24	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.28	121	6.00	3.65	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	220	110	200	3.02	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	202	101	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	92.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.5	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

Applyzod By: 14

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Project Location: COP- EDDY COUNTY, NM

ma/ka

Sample ID: FS - 33 (H244569-13)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.08	104	2.00	6.41	
Toluene*	<0.050	0.050	08/01/2024	ND	2.27	114	2.00	4.35	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.43	122	2.00	4.24	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.28	121	6.00	3.65	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	220	110	200	3.02	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	202	101	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	89.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.5	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Project Location: COP- EDDY COUNTY, NM

Sample ID: FS - 34 (H244569-14)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.08	104	2.00	6.41	
Toluene*	<0.050	0.050	08/01/2024	ND	2.27	114	2.00	4.35	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.43	122	2.00	4.24	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.28	121	6.00	3.65	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 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	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	220	110	200	3.02	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	202	101	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	92.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.2	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

Applyzod By: 14

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Project Location: COP- EDDY COUNTY, NM

ma/ka

Sample ID: FS - 35 (H244569-15)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.08	104	2.00	6.41	
Toluene*	<0.050	0.050	08/01/2024	ND	2.27	114	2.00	4.35	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.43	122	2.00	4.24	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.28	121	6.00	3.65	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	220	110	200	3.02	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	202	101	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	89.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.7	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

Analyzed By: JH

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 36 (H244569-16)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.08	104	2.00	6.41	
Toluene*	<0.050	0.050	08/01/2024	ND	2.27	114	2.00	4.35	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.43	122	2.00	4.24	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.28	121	6.00	3.65	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	220	110	200	3.02	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	202	101	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	91.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.5	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Project Location: COP- EDDY COUNTY, NM

Sample ID: FS - 37 (H244569-17)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.08	104	2.00	6.41	
Toluene*	<0.050	0.050	08/01/2024	ND	2.27	114	2.00	4.35	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.43	122	2.00	4.24	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.28	121	6.00	3.65	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	220	110	200	3.02	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	202	101	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	90.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.8	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Project Location: COP- EDDY COUNTY, NM

Sample ID: FS - 38 (H244569-18)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.08	104	2.00	6.41	
Toluene*	<0.050	0.050	08/01/2024	ND	2.27	114	2.00	4.35	
Ethylbenzene*	< 0.050	0.050	08/01/2024	ND	2.43	122	2.00	4.24	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.28	121	6.00	3.65	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	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	48.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	220	110	200	3.02	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	202	101	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	108 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Project Location: COP- EDDY COUNTY, NM

Sample ID: FS - 39 (H244569-19)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.08	104	2.00	6.41	
Toluene*	<0.050	0.050	08/01/2024	ND	2.27	114	2.00	4.35	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.43	122	2.00	4.24	
Total Xylenes*	< 0.150	0.150	08/01/2024	ND	7.28	121	6.00	3.65	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 %	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	220	110	200	3.02	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	202	101	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	102 9	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	6 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 40 (H244569-20)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.08	104	2.00	6.41	
Toluene*	<0.050	0.050	08/01/2024	ND	2.27	114	2.00	4.35	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.43	122	2.00	4.24	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.28	121	6.00	3.65	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	220	110	200	3.02	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	202	101	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	99.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Project Location: COP- EDDY COUNTY, NM

Sample ID: FS - 41 (H244569-21)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.08	104	2.00	6.41	
Toluene*	<0.050	0.050	08/01/2024	ND	2.27	114	2.00	4.35	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.43	122	2.00	4.24	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.28	121	6.00	3.65	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	220	110	200	3.02	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	202	101	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	91.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.7	% 49.1-14	8						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Project Location: COP- EDDY COUNTY, NM

Sample ID: FS - 42 (H244569-22)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.11	105	2.00	5.44	
Toluene*	<0.050	0.050	08/01/2024	ND	2.42	121	2.00	5.19	
Ethylbenzene*	< 0.050	0.050	08/01/2024	ND	2.57	129	2.00	5.02	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.83	130	6.00	5.20	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 %	71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/01/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	0.225	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	215	108	200	0.984	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	107 %	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 %	6 49.1-14	8						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 43 (H244569-23)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.11	105	2.00	5.44	
Toluene*	<0.050	0.050	08/01/2024	ND	2.42	121	2.00	5.19	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.57	129	2.00	5.02	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.83	130	6.00	5.20	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	0.225	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	215	108	200	0.984	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Celey D. Kreine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

ma/ka

Sample ID: FS - 44 (H244569-24)

RTFY 8021R

Result <0.050 <0.050 <0.050 <0.150	Reporting Limit 0.050 0.050 0.050	Analyzed 08/01/2024 08/01/2024	Method Blank ND ND	BS 2.11	% Recovery	True Value QC 2.00	RPD 5.44	Qualifier
<0.050 <0.050	0.050					2.00	5.44	
<0.050		08/01/2024	ND	2.42				
	0.050			2.42	121	2.00	5.19	
<0.150		08/01/2024	ND	2.57	129	2.00	5.02	
	0.150	08/01/2024	ND	7.83	130	6.00	5.20	
<0.300	0.300	08/01/2024	ND					
118	% 71.5-13	4						
mg/kg		Analyzed By: AC						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
16.0	16.0	08/01/2024	ND	432	108	400	0.00	
mg	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	08/01/2024	ND	209	104	200	0.225	
<10.0	10.0	08/01/2024	ND	215	108	200	0.984	
<10.0	10.0	08/01/2024	ND					
97.1	% 48.2-13	4						
	Result 16.0 mg, Result <10.0 <10.0	mg/kg Result Reporting Limit 16.0 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0	mg/kg Analyzed Result Reporting Limit Analyzed 16.0 16.0 08/01/2024 mg/kg Analyzed Result Reporting Limit Analyzed <10.0	mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank 16.0 08/01/2024 ND Method Blank Result Reporting Limit Analyzed Method Blank <10.0	mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS 16.0 16.0 08/01/2024 ND 432 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0	mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery 16.0 16.0 08/01/2024 ND 432 108 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 16.0 16.0 08/01/2024 ND 432 108 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0	mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 16.0 16.0 08/01/2024 ND 432 108 400 0.00 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

ma/ka

Sample ID: FS - 45 (H244569-25)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.11	105	2.00	5.44	
Toluene*	<0.050	0.050	08/01/2024	ND	2.42	121	2.00	5.19	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.57	129	2.00	5.02	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.83	130	6.00	5.20	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	0.225	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	215	108	200	0.984	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	111	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 46 (H244569-26)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.11	105	2.00	5.44	
Toluene*	<0.050	0.050	08/01/2024	ND	2.42	121	2.00	5.19	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.57	129	2.00	5.02	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.83	130	6.00	5.20	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	128	% 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	08/01/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	0.225	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	215	108	200	0.984	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	81.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.4	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 47 (H244569-27)

BTEX 8021B

	9/	9	7.1.4.7.2						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.11	105	2.00	5.44	
Toluene*	<0.050	0.050	08/01/2024	ND	2.42	121	2.00	5.19	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.57	129	2.00	5.02	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.83	130	6.00	5.20	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	08/01/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	0.225	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	215	108	200	0.984	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Cardinal Laboratories



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 48 (H244569-28)

BTEX 8021B

	9/	9	7.1.4.7.2						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.11	105	2.00	5.44	
Toluene*	<0.050	0.050	08/01/2024	ND	2.42	121	2.00	5.19	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.57	129	2.00	5.02	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.83	130	6.00	5.20	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	08/01/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	0.225	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	215	108	200	0.984	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	96.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Project Location: COP- EDDY COUNTY, NM

Sample ID: FS - 49 (H244569-29)

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	08/01/2024	ND	2.11	105	2.00	5.44	
Toluene*	<0.050	0.050	08/01/2024	ND	2.42	121	2.00	5.19	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.57	129	2.00	5.02	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.83	130	6.00	5.20	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	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	1100	16.0	08/01/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	0.225	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	215	108	200	0.984	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	104 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 50 (H244569-30)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.11	105	2.00	5.44	
Toluene*	<0.050	0.050	08/01/2024	ND	2.42	121	2.00	5.19	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.57	129	2.00	5.02	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.83	130	6.00	5.20	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	08/01/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	0.225	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	215	108	200	0.984	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	93.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.8	% 49.1-14	8						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/31/2024 Sampling Date: 07/31/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Project Location: COP- EDDY COUNTY, NM

Sample ID: FS - 51 (H244569-31)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.11	105	2.00	5.44	
Toluene*	<0.050	0.050	08/01/2024	ND	2.42	121	2.00	5.19	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.57	129	2.00	5.02	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.83	130	6.00	5.20	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 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	1230	16.0	08/01/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	0.225	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	215	108	200	0.984	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	94.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100 9	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

							2001-1010	
Project Manager: 5	Sem Abboth	œ.	P.O. #:					A
Address:		c	Company: Tota	ta tech		_	_	
City:	State:	Zip: At	Attn: Sem	Abbott		_	P.	
Phone #:	Fax #:	Ac					_	
Project #: 2125-MD-0299-	D-02967 Project Owner:		City:			_	_	
Project Name: Viest	Vest Brushy & Federal	SWID # OO R	State: Zip:					
Project Location: E	3		Phone #:					
	Ċ ,	Fa	Fax #:				٤,	
٦	- 1	MATRIX	PRESERV.	SAMPLING			d	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER:	2024 DATE TIME	BTEX	TPH	Chlon	
	NSW - 3	-	×	7/31 \$00	×	×	×	
	20214			815				
Con	ī			8 30				
	55W-3			848				
	7-1-4			900				
	WSW B	•		915			,	
	ESW-5			930				
7	FS-18			145				
٥	1			1000				
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analyses. All claims including those for regitigence and any other service. In no event shall Cardinal be liable for incidental or con	e cause whatsoev sequental damage	ver shall be deemed waked unless made in writing and rece es, including without limitetion, business interruptions, loss o	100	I days after oursed by cit	he applicabl	۰		
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101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAY (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 35 of 37

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

EMARKS:		. Turnaround Time:	Condition CHECKED BY:	Sample Cool I	Observed Temp. °C Corrected Temp. °C	Sampler - UPS - Bus - Other:	Sampler - UPS
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† Cardinal cannot accept verbal changes. Please email changes to celey.keene

CARDINAL Laboratories 101 East Marland, Hobbs, NM 8824

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 37 of 37



August 05, 2024

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

RE: WEST BRUSHY 8 FED SWD #1R

Enclosed are the results of analyses for samples received by the laboratory on 08/02/24 9:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET , STE $100\,$

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 08/02/2024 Sampling Date: 08/01/2024

Reported: 08/05/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Project Location: COP- EDDY COUNTY, NM

Sample ID: ISW - 2 (H244634-01)

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	08/02/2024	ND	2.03	102	2.00	1.02	
Toluene*	<0.050	0.050	08/02/2024	ND	2.18	109	2.00	0.147	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	2.29	115	2.00	0.347	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	7.03	117	6.00	0.191	
Total BTEX	<0.300	0.300	08/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	08/05/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	223	112	200	4.15	
DRO >C10-C28*	12.1	10.0	08/02/2024	ND	217	108	200	14.7	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					
Surrogate: 1-Chlorooctane	88.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.6	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Kreine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 08/02/2024 Sampling Date: 08/01/2024

Reported: 08/05/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C - MD - 02997 Alyssa Parras

Project Location: COP- EDDY COUNTY, NM

Sample ID: ISW - 3 (H244634-02)

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	08/02/2024	ND	2.03	102	2.00	1.02	
Toluene*	<0.050	0.050	08/02/2024	ND	2.18	109	2.00	0.147	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	2.29	115	2.00	0.347	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	7.03	117	6.00	0.191	
Total BTEX	<0.300	0.300	08/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 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	720	16.0	08/05/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	223	112	200	4.15	
DRO >C10-C28*	17.2	10.0	08/02/2024	ND	217	108	200	14.7	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					
Surrogate: 1-Chlorooctane	91.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.5	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

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

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene

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		Date: Time:	Date: Time:	Crara \$142	Date:	5 40						ISW-3	I3W-2		SAMPLE IDENTIFICATION		Include: Andrew, Goscia e Fotre	Cardinal Labs	Attn: Sam. Abboth eftrate	Eddy County, NM	Brushy & Federal SUD	co Phillips	Tetra Tech, Inc.	
		Received by:	Received by:	amer		1	1	I				8/1 /2024 12	\$/1/2024):	DATE	YEAR 2024	SAMPLING	tech	Sampler Signature:	0	212C	HOOI R	Site Manager:		
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August 06, 2024

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

RE: WEST BRUSHY 8 FED SWD #1R

Enclosed are the results of analyses for samples received by the laboratory on 08/05/24 16:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET , STE $100\,$

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 08/05/2024 Sampling Date: 08/05/2024

Reported: 08/06/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

A I J D. ... 711

Project Location: COP- EDDY COUNTY, NM

Sample ID: ISW - 2 (1') (H244695-01)

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	08/05/2024	ND	1.94	97.1	2.00	0.552	
Toluene*	<0.050	0.050	08/05/2024	ND	1.89	94.6	2.00	0.971	
Ethylbenzene*	<0.050	0.050	08/05/2024	ND	1.99	99.4	2.00	1.38	
Total Xylenes*	<0.150	0.150	08/05/2024	ND	5.88	98.0	6.00	1.05	
Total BTEX	<0.300	0.300	08/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 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	96.0	16.0	08/06/2024	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	08/05/2024	ND	210	105	200	2.65	
DRO >C10-C28*	<10.0	10.0	08/05/2024	ND	217	109	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	08/05/2024	ND					
Surrogate: 1-Chlorooctane	84.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

Analyzed By: JH

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 08/05/2024 Sampling Date: 08/05/2024

Reported: 08/06/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Project Location: COP- EDDY COUNTY, NM

Sample ID: ISW - 3 (1') (H244695-02)

BTEX 8021B

BIEX 8021B	ilig/	kg	Allalyze	u by. Jn					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2024	ND	1.94	97.1	2.00	0.552	
Toluene*	<0.050	0.050	08/05/2024	ND	1.89	94.6	2.00	0.971	
Ethylbenzene*	<0.050	0.050	08/05/2024	ND	1.99	99.4	2.00	1.38	
Total Xylenes*	<0.150	0.150	08/05/2024	ND	5.88	98.0	6.00	1.05	
Total BTEX	<0.300	0.300	08/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/06/2024	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	08/05/2024	ND	210	105	200	2.65	
DRO >C10-C28*	<10.0	10.0	08/05/2024	ND	217	109	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	08/05/2024	ND					
Surrogate: 1-Chlorooctane	87.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 08/05/2024 Sampling Date: 08/05/2024

Reported: Sampling Type: Soil 08/06/2024

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Project Location: COP- EDDY COUNTY, NM

Sample ID: FS - 25 (H244695-03)

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	08/05/2024	ND	2.06	103	2.00	12.3	
Toluene*	<0.050	0.050	08/05/2024	ND	2.17	109	2.00	12.8	
Ethylbenzene*	<0.050	0.050	08/05/2024	ND	2.29	115	2.00	12.7	
Total Xylenes*	<0.150	0.150	08/05/2024	ND	7.02	117	6.00	12.9	
Total BTEX	<0.300	0.300	08/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 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	832	16.0	08/06/2024	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	08/05/2024	ND	210	105	200	2.65	
DRO >C10-C28*	<10.0	10.0	08/05/2024	ND	217	109	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	08/05/2024	ND					
Surrogate: 1-Chlorooctane	80.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.4	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

Applyzod By: 14

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 08/05/2024 Sampling Date: 08/05/2024

Reported: 08/06/2024 Sampling Type: Soil

Project Name: WEST BRUSHY 8 FED SWD #1R Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02997 Sample Received By: Alyssa Parras

Project Location: COP- EDDY COUNTY, NM

ma/ka

Sample ID: FS - 26 (H244695-04)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2024	ND	2.06	103	2.00	12.3	
Toluene*	<0.050	0.050	08/05/2024	ND	2.17	109	2.00	12.8	
Ethylbenzene*	<0.050	0.050	08/05/2024	ND	2.29	115	2.00	12.7	
Total Xylenes*	<0.150	0.150	08/05/2024	ND	7.02	117	6.00	12.9	
Total BTEX	<0.300	0.300	08/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 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	112	16.0	08/06/2024	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	08/05/2024	ND	210	105	200	2.65	
DRO >C10-C28*	<10.0	10.0	08/05/2024	ND	217	109	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	08/05/2024	ND					
Surrogate: 1-Chlorooctane	72.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.6	% 49.1-14	8						

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Notes and Definitions

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 E	CA	
101 East Marland, Hobbs, NM 88240	RD	
d, Hobbs, I	ator	
NM 88240	AL Ties	

01 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Project Manager:	Son Annut					ANALYSIS REQUEST
Address:	1.0001	,	F.O. #:			
City:	State:		Company: Terra T	Tech		
Phone #:		Alp:	Attn: Sam Abbott	+		
	Fax #:	-6	Address:		- 11	
Project #: 212 C-MD-	77		City:			
	Brushy & Feder	ZI SWD HOOR	ate: Zip:			
Project Location: Eddy	SNN.		#			
Sampler Name: Andrew	her Garcia	Fa	Fax #:			
AND DOE ONLY		MATRIX	PRESERV. SAMPLING	LING	des	
Lab I.D. S	Sample I.D.	WATER		+	orio	
1244695		# CONT	CID/BA	TP	BT	
	I5W-2(1)	- #	X 10	_	+	
2 ISW	W-3(1)	->	20,00	- X	- x	
770	FS-25			200		
	+5-26	•	*	6	6	
EASE NOTE: Liability and Camages. Cardina elyses. All claims including those for negligen rives. In no event shall Cardinal be liable for in lindes or successors arising out of or related to	EASE NOTE: Liability and Damagnes. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the objects. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable liables or successors arising out of or related to the performance of services hereunder by Cardinal recentless or classifications, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	ry claim arising whether based in contract or tort, shall be limited to the ar feemed waived unless made in writing and received by Cardinal whitin 10 without imitation, business interruptions, loss of use, or loss of profits incontineer of whether	shall be limited to the amount paid by d by Cardinal within 30 days after co	the client for the mpletion of the applicable , its subsidiaries,		*
	12.9.8	Received By:		Verbal Result:	Yes No	Add'l Phone #:
elinquished By:	Date:	Received By:	20 }	Sam, A	platte	Sam, Abbott @ Fetratch.com REMARKS:
elivered By: (Circle One)	Time:			Andrew.	Garcie	Garcie Offetetechican
ampler - UPS - Bus - Other:	Corrected Temp. °C 3. 0'C	Sample Condition	CHECKED BY: Turnaround Time:	Turnaround Time:	Standard	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Luis Rivera R360 ES Holdings Inc 507 N Marienfield Midland, Texas 79701

Generated 7/26/2024 8:29:26 AM

JOB DESCRIPTION

R360 -backfill

JOB NUMBER

890-6947-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization

Generated 7/26/2024 8:29:26 AM

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

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

Page 2 of 25

Client: R360 ES Holdings Inc

Laboratory Job ID: 890-6947-1

Project/Site: R360 -backfill

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12

Definitions/Glossary

Client: R360 ES Holdings Inc Job ID: 890-6947-1

Project/Site: R360 -backfill

Qualifiers

HPLC/IC

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

Glossarv

Clossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit

MQL NC

MLMPN

Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Minimum Level (Dioxin)

Most Probable Number

Method Quantitation Limit

Negative / Absent NEG POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Eurofins Carlsbad

Job ID: 890-6947-1

Case Narrative

Client: R360 ES Holdings Inc

Project: R360 -backfill

Job ID: 890-6947-1 Eurofins Carlsbad

Job Narrative 890-6947-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 7/22/2024 11:07 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-86374 and analytical batch 880-86423 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Client: R360 ES Holdings Inc Project/Site: R360 -backfill

Job ID: 890-6947-1

Client Sample ID: E#88 Lab Sample ID: 890-6947-1 Date Collected: 07/22/24 07:00

Matrix: Solid

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion C	hromatography -	Soluble						
Analyte	Result Quali	ifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	155	5.04	0.398	mg/Kg			07/26/24 00:36	1

Lab Sample ID: 890-6947-2 Client Sample ID: E#89

Date Collected: 07/22/24 07:00 **Matrix: Solid**

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Cl	nromatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.6	5.03	0.397 mg/Kg			07/26/24 00:52	1

Client Sample ID: E#90 Lab Sample ID: 890-6947-3

Date Collected: 07/22/24 07:00 Matrix: Solid

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Chi	romatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.7		4.99	0.394	mg/Kg			07/26/24 00:57	1

Client Sample ID: E#91 Lab Sample ID: 890-6947-4 **Matrix: Solid**

Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	е						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.0		4.98	0.393	mg/Kg			07/26/24 01:13	1

Lab Sample ID: 890-6947-5 Client Sample ID: E#92

Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Ch	romatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.6		5.00	0.395	mg/Kg			07/26/24 01:18	1

Client Sample ID: E#93 Lab Sample ID: 890-6947-6

Date Collected: 07/22/24 07:00 Date Received: 07/22/24 11:07

Date Noccived. VIIZZIZ-F 11.01							
lethod: EPA 300.0 - Anions, Ion Chromatography - Soluble							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

5.00 Client Sample ID: E#94 Lab Sample ID: 890-6947-7

0.395 mg/Kg

Date Collected: 07/22/24 07:00 Date Received: 07/22/24 11:07

Chloride

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

36.8

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 22.4 4.99 0.394 mg/Kg 07/26/24 01:28

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Matrix: Solid

Matrix: Solid

Matrix: Solid

07/26/24 01:23

Client Sample Results

Client: R360 ES Holdings Inc Job ID: 890-6947-1

Project/Site: R360 -backfill

Client Sample ID: E#95 Lab Sample ID: 890-6947-8

Date Collected: 07/22/24 07:00 Matrix: Solid

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 5.04 0.398 mg/Kg 07/26/24 01:34 21.0

Client Sample ID: E#96 Lab Sample ID: 890-6947-9

Date Collected: 07/22/24 07:00 Matrix: Solid

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared 5.02 07/26/24 01:39 Chloride 62.6 0.397 mg/Kg

Client Sample ID: E#97 Lab Sample ID: 890-6947-10

Date Collected: 07/22/24 07:00 Matrix: Solid

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 4.98 0.393 07/26/24 01:44 19.4 mg/Kg

Client Sample ID: E#98 Lab Sample ID: 890-6947-11

Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 4.96 07/25/24 17:16 Chloride 14.5 0.392 mg/Kg

Client Sample ID: E#99 Lab Sample ID: 890-6947-12

Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacChloride94.24.980.393mg/Kg0.7/25/24 17:321

Client Sample ID: E#100 Lab Sample ID: 890-6947-13

Date Collected: 07/22/24 07:00 Matrix: Solid

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 4.99 07/25/24 17:37 Chloride 18.7 0.394 mg/Kg

Client Sample ID: E#101 Lab Sample ID: 890-6947-14

Date Collected: 07/22/24 07:00 Date Received: 07/22/24 11:07

Released to Imaging: 9/6/2024 10:33:04 AM

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 18.3 5.02 0.397 mg/Kg 07/25/24 17:42

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Matrix: Solid

Matrix: Solid

Job ID: 890-6947-1

Client: R360 ES Holdings Inc Project/Site: R360 -backfill

Client Sample ID: E#102 Lab Sample ID: 890-6947-15 Date Collected: 07/22/24 07:00

Matrix: Solid

Matrix: Solid

Matrix: Solid

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120	5.01	0.396 mg/Kg			07/25/24 17:47	1

Lab Sample ID: 890-6947-16 Client Sample ID: E#103 **Matrix: Solid**

Date Collected: 07/22/24 07:00 Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Cl	hromatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	159	5.01	0.396 mg/Kg			07/25/24 18:03	1

Client Sample ID: E#104 Lab Sample ID: 890-6947-17

Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Ch	romatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	221		5.04	0.398	mg/Kg			07/25/24 18:08	1

Client Sample ID: E#105 Lab Sample ID: 890-6947-18 **Matrix: Solid**

Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Cl	hromatography - Soluble	•						
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	274	5.03	0.397	mg/Kg			07/25/24 18:14	1

Client Sample ID: E#106 Lab Sample ID: 890-6947-19

Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Ch	romatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	161		5.05	0.399	mg/Kg			07/25/24 18:19	1

Client Sample ID: E#107 Lab Sample ID: 890-6947-20 Matrix: Solid

Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Ch	romatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	197		4.99	0.394	mg/Kg			07/25/24 18:24	1

Lab Sample ID: 890-6947-21 Client Sample ID: E#108 **Matrix: Solid**

Date Collected: 07/22/24 07:00 Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	263 F1	4.96	0.392 mg/Kg			07/25/24 18:30	1

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Matrix: Solid

Matrix: Solid

Client Sample Results

Client: R360 ES Holdings Inc Job ID: 890-6947-1

Project/Site: R360 -backfill

Client Sample ID: E#109 Lab Sample ID: 890-6947-22

Date Collected: 07/22/24 07:00 Matrix: Solid

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacChloride2844.970.393mg/Kg07/25/24 18:451

Client Sample ID: E#110 Lab Sample ID: 890-6947-23

Date Collected: 07/22/24 07:00 Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Chloride 111 4.95 0.391 mg/Kg 07/25/24 18:50 1

Client Sample ID: E#111 Lab Sample ID: 890-6947-24

Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacChloride1984.990.394mg/Kg07/25/24 19:061

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Job ID: 890-6947-1 Client: R360 ES Holdings Inc

Project/Site: R360 -backfill

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-86373/1-A

Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 86421

Prep Type: Soluble

Client Sample ID: E#88

Client Sample ID: E#88

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

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Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 0.395 mg/Kg 07/25/24 23:07

Lab Sample ID: LCS 880-86373/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 86421

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 254.2 mg/Kg 102 90 - 110

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 880-86373/3-A **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 86421

Spike LCSD LCSD RPD %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 255.4 250 102 90 - 110 ma/Ka

Lab Sample ID: 890-6947-1 MS

Matrix: Solid

Analysis Batch: 86421

MS MS Spike %Rec Sample Sample Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits Chloride 155 252 398.4 97 90 - 110 mg/Kg

Lab Sample ID: 890-6947-1 MSD

Matrix: Solid

Analysis Batch: 86421

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 155 252 398.9 97 90 - 110 mg/Kg

Lab Sample ID: MB 880-86374/1-A

Matrix: Solid

Analysis Batch: 86423

MB MB

MDL Dil Fac Analyte Result Qualifier RL Unit Prepared Analyzed Chloride <5.00 5.00 0.395 mg/Kg 07/25/24 17:00

Lab Sample ID: LCS 880-86374/2-A

Matrix: Solid

Prep Type: Soluble Analysis Batch: 86423 LCS LCS %Rec Spike

Added Result Qualifier Analyte Unit %Rec Limits Chloride 250 248.7 mg/Kg 99 90 - 110

Lab Sample ID: LCSD 880-86374/3-A

Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Patch: 96422

Analysis Datch. 00425									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	250.8		ma/Ka		100	90 - 110		20

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QC Sample Results

Client: R360 ES Holdings Inc Job ID: 890-6947-1

Project/Site: R360 -backfill

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-6947-11 MS Client Sample ID: E#98 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 86423

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	14.5		248	272.7		mg/Kg		104	90 - 110	

Lab Sample ID: 890-6947-11 MSD Client Sample ID: E#98 Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 86423

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	14.5		248	273.0		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-6947-21 MS Client Sample ID: E#108 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 86423

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	263	F1	248	539.4	F1	mg/Kg	_	111	90 - 110	

Lab Sample ID: 890-6947-21 MSD

Matrix: Solid

Analysis Batch: 86423

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	263	F1	248	541.1	F1	mg/Kg	_	112	90 - 110	0	20

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Client Sample ID: E#108

Prep Type: Soluble

QC Association Summary

Client: R360 ES Holdings Inc Job ID: 890-6947-1

Project/Site: R360 -backfill

HPLC/IC

Leach Batch: 86373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6947-1	E#88	Soluble	Solid	DI Leach	_
890-6947-2	E#89	Soluble	Solid	DI Leach	
890-6947-3	E#90	Soluble	Solid	DI Leach	
890-6947-4	E#91	Soluble	Solid	DI Leach	
890-6947-5	E#92	Soluble	Solid	DI Leach	
890-6947-6	E#93	Soluble	Solid	DI Leach	
890-6947-7	E#94	Soluble	Solid	DI Leach	
890-6947-8	E#95	Soluble	Solid	DI Leach	
890-6947-9	E#96	Soluble	Solid	DI Leach	
890-6947-10	E#97	Soluble	Solid	DI Leach	
MB 880-86373/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-86373/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-86373/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6947-1 MS	E#88	Soluble	Solid	DI Leach	
890-6947-1 MSD	E#88	Soluble	Solid	DI Leach	

Leach Batch: 86374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6947-11	E#98	Soluble	Solid	DI Leach	
890-6947-12	E#99	Soluble	Solid	DI Leach	
890-6947-13	E#100	Soluble	Solid	DI Leach	
890-6947-14	E#101	Soluble	Solid	DI Leach	
890-6947-15	E#102	Soluble	Solid	DI Leach	
390-6947-16 E#103		Soluble	Solid	DI Leach	
890-6947-17	E#104	Soluble	Solid	DI Leach	
890-6947-18	E#105	Soluble	Solid	DI Leach	
890-6947-19	E#106	Soluble	Solid	DI Leach	
890-6947-20	E#107	Soluble	Solid	DI Leach	
890-6947-21	E#108	Soluble	Solid	DI Leach	
890-6947-22	E#109	Soluble	Solid	DI Leach	
890-6947-23	E#110	Soluble	Solid	DI Leach	
890-6947-24	E#111	Soluble	Solid	DI Leach	
MB 880-86374/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-86374/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-86374/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6947-11 MS	E#98	Soluble	Solid	DI Leach	
890-6947-11 MSD	E#98	Soluble	Solid	DI Leach	
890-6947-21 MS	E#108	Soluble	Solid	DI Leach	
890-6947-21 MSD	E#108	Soluble	Solid	DI Leach	

Analysis Batch: 86421

Released to Imaging: 9/6/2024 10:33:04 AM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6947-1	E#88	Soluble	Solid	300.0	86373
890-6947-2	E#89	Soluble	Solid	300.0	86373
890-6947-3	E#90	Soluble	Solid	300.0	86373
890-6947-4	E#91	Soluble	Solid	300.0	86373
890-6947-5	E#92	Soluble	Solid	300.0	86373
890-6947-6	E#93	Soluble	Solid	300.0	86373
890-6947-7	E#94	Soluble	Solid	300.0	86373
890-6947-8	E#95	Soluble	Solid	300.0	86373
890-6947-9	E#96	Soluble	Solid	300.0	86373

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QC Association Summary

Client: R360 ES Holdings Inc
Project/Site: R360 -backfill

Job ID: 890-6947-1

HPLC/IC (Continued)

Analysis Batch: 86421 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6947-10	E#97	Soluble	Solid	300.0	86373
MB 880-86373/1-A	Method Blank	Soluble	Solid	300.0	86373
LCS 880-86373/2-A	Lab Control Sample	Soluble	Solid	300.0	86373
LCSD 880-86373/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	86373
890-6947-1 MS	E#88	Soluble	Solid	300.0	86373
890-6947-1 MSD	E#88	Soluble	Solid	300.0	86373

Analysis Batch: 86423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6947-11	E#98	Soluble	Solid	300.0	86374
890-6947-12	E#99	Soluble	Solid	300.0	86374
890-6947-13	E#100	Soluble	Solid	300.0	86374
890-6947-14	E#101	Soluble	Solid	300.0	86374
890-6947-15	E#102	Soluble	Solid	300.0	86374
0-6947-16 E#103		Soluble	Solid	300.0	86374
90-6947-17 E#104		Soluble	Solid	300.0	86374
890-6947-18	E#105	Soluble	Solid	300.0	86374
890-6947-19	E#106	Soluble	Solid	300.0	86374
890-6947-20	E#107	Soluble	Solid	300.0	86374
890-6947-21	E#108	Soluble	Solid	300.0	86374
390-6947-22	E#109	Soluble	Solid	300.0	86374
390-6947-23	E#110	Soluble	Solid	300.0	86374
890-6947-24	E#111	Soluble	Solid	300.0	86374
MB 880-86374/1-A	Method Blank	Soluble	Solid	300.0	86374
LCS 880-86374/2-A	Lab Control Sample	Soluble	Solid	300.0	86374
LCSD 880-86374/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	86374
90-6947-11 MS E#98		Soluble	Solid	300.0	86374
890-6947-11 MSD	E#98	Soluble	Solid	300.0	86374
890-6947-21 MS	E#108	Soluble	Solid	300.0	86374
890-6947-21 MSD	E#108	Soluble	Solid	300.0	86374

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Client: R360 ES Holdings Inc Project/Site: R360 -backfill

Client Sample ID: E#88 Lab Sample ID: 890-6947-1 Date Collected: 07/22/24 07:00

Matrix: Solid

Matrix: Solid

Matrix: Solid

Date Received: 07/22/24 11:07

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
	Soluble	Leach	DI Leach			4.96 g	50 mL	86373	07/23/24 10:53	SMC	EET MID
l	Soluble	Analysis	300.0		1	50 mL	50 mL	86421	07/26/24 00:36	CH	EET MID

Client Sample ID: E#89 Lab Sample ID: 890-6947-2

Date Collected: 07/22/24 07:00 **Matrix: Solid**

Date Received: 07/22/24 11:07

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	86373	07/23/24 10:53	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86421	07/26/24 00:52	CH	EET MID

Lab Sample ID: 890-6947-3 Client Sample ID: E#90

Date Collected: 07/22/24 07:00 **Matrix: Solid**

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	86373	07/23/24 10:53	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86421	07/26/24 00:57	CH	EET MID

Client Sample ID: E#91 Lab Sample ID: 890-6947-4

Date Collected: 07/22/24 07:00 Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	86373	07/23/24 10:53	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86421	07/26/24 01:13	CH	EET MID

Client Sample ID: E#92 Lab Sample ID: 890-6947-5

Date Collected: 07/22/24 07:00 Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	86373	07/23/24 10:53	SMC	EET MID
Soluble	Analysis	300.0		1	50 ml	50 ml	86421	07/26/24 01:18	CH	FFT MID

Lab Sample ID: 890-6947-6 Client Sample ID: E#93

Date Collected: 07/22/24 07:00 **Matrix: Solid** Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	86373	07/23/24 10:53	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86421	07/26/24 01:23	CH	EET MID

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Job ID: 890-6947-1

Client: R360 ES Holdings Inc Project/Site: R360 -backfill

Client Sample ID: E#94 Lab Sample ID: 890-6947-7 Date Collected: 07/22/24 07:00

Matrix: Solid

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	86373	07/23/24 10:53	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86421	07/26/24 01:28	CH	EET MID

Client Sample ID: E#95 Lab Sample ID: 890-6947-8

Date Collected: 07/22/24 07:00 Matrix: Solid

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	86373	07/23/24 10:53	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86421	07/26/24 01:34	CH	EET MID

Client Sample ID: E#96 Lab Sample ID: 890-6947-9

Date Collected: 07/22/24 07:00 Matrix: Solid

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	86373	07/23/24 10:53	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86421	07/26/24 01:39	CH	EET MID

Client Sample ID: E#97 Lab Sample ID: 890-6947-10

Date Collected: 07/22/24 07:00 Date Received: 07/22/24 11:07

Batch Batch Dil Initial Final Batch Prepared Method Prep Type Amount Number or Analyzed Type Run Factor Amount Analyst Lab

Soluble Leach DI Leach 5.02 g 50 mL 86373 07/23/24 10:53 SMC EET MID Soluble Analysis 300.0 1 50 mL 50 mL 86421 07/26/24 01:44 СН **EET MID**

Client Sample ID: E#98 Lab Sample ID: 890-6947-11

Date Collected: 07/22/24 07:00 **Matrix: Solid**

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 17:16	CH	EET MID

Client Sample ID: E#99 Lab Sample ID: 890-6947-12

Date Collected: 07/22/24 07:00 **Matrix: Solid** Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 17:32	CH	EET MID

Eurofins Carlsbad

Job ID: 890-6947-1

Client: R360 ES Holdings Inc Project/Site: R360 -backfill

Client Sample ID: E#100

Lab Sample ID: 890-6947-13

Matrix: Solid

Date Collected: 07/22/24 07:00 Date Received: 07/22/24 11:07

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 17:37	CH	EET MID

Client Sample ID: E#101 Lab Sample ID: 890-6947-14

Date Collected: 07/22/24 07:00 Matrix: Solid

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 17:42	CH	EET MID

Client Sample ID: E#102 Lab Sample ID: 890-6947-15

Date Collected: 07/22/24 07:00 Matrix: Solid

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 17:47	CH	EET MID

Client Sample ID: E#103 Lab Sample ID: 890-6947-16

Date Collected: 07/22/24 07:00 Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 18:03	CH	EET MID

Client Sample ID: E#104 Lab Sample ID: 890-6947-17

Date Collected: 07/22/24 07:00 Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 18:08	CH	EET MID

Client Sample ID: E#105 Lab Sample ID: 890-6947-18

Date Collected: 07/22/24 07:00 Date Received: 07/22/24 11:07

Released to Imaging: 9/6/2024 10:33:04 AM

_										
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 18:14	CH	EET MID

Eurofins Carlsbad

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Matrix: Solid

Matrix: Solid

Client: R360 ES Holdings Inc Project/Site: R360 -backfill

Job ID: 890-6947-1

Client Sample ID: E#106

Lab Sample ID: 890-6947-19

Matrix: Solid

Date Collected: 07/22/24 07:00 Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 18:19	CH	EET MID

Client Sample ID: E#107 Lab Sample ID: 890-6947-20

Date Collected: 07/22/24 07:00 **Matrix: Solid**

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 18:24	CH	EET MID

Lab Sample ID: 890-6947-21 Client Sample ID: E#108

Date Collected: 07/22/24 07:00 **Matrix: Solid**

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 18:30	CH	EET MID

Client Sample ID: E#109 Lab Sample ID: 890-6947-22

Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 18:45	CH	EET MID

Client Sample ID: E#110 Lab Sample ID: 890-6947-23 Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 18:50	CH	EET MID

Client Sample ID: E#111 Lab Sample ID: 890-6947-24 Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 19:06	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Accreditation/Certification Summary

Client: R360 ES Holdings Inc Job ID: 890-6947-1

Project/Site: R360 -backfill

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

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Method Summary

Client: R360 ES Holdings Inc Project/Site: R360 -backfill Job ID: 890-6947-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

Laboratory References:

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

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890-6947-23

890-6947-24

E#110

E#111

Sample Summary

Client: R360 ES Holdings Inc
Project/Site: R360 -backfill

Job ID: 890-6947-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-6947-1	E#88	Solid	07/22/24 07:00	07/22/24 11:07
890-6947-2	E#89	Solid	07/22/24 07:00	07/22/24 11:07
890-6947-3	E#90	Solid	07/22/24 07:00	07/22/24 11:07
390-6947-4	E#91	Solid	07/22/24 07:00	07/22/24 11:07
90-6947-5	E#92	Solid	07/22/24 07:00	07/22/24 11:07
390-6947-6	E#93	Solid	07/22/24 07:00	07/22/24 11:07
390-6947-7	E#94	Solid	07/22/24 07:00	07/22/24 11:07
390-6947-8	E#95	Solid	07/22/24 07:00	07/22/24 11:07
890-6947-9	E#96	Solid	07/22/24 07:00	07/22/24 11:07
90-6947-10	E#97	Solid	07/22/24 07:00	07/22/24 11:07
390-6947-11	E#98	Solid	07/22/24 07:00	07/22/24 11:07
90-6947-12	E#99	Solid	07/22/24 07:00	07/22/24 11:07
90-6947-13	E#100	Solid	07/22/24 07:00	07/22/24 11:07
90-6947-14	E#101	Solid	07/22/24 07:00	07/22/24 11:07
90-6947-15	E#102	Solid	07/22/24 07:00	07/22/24 11:07
390-6947-16	E#103	Solid	07/22/24 07:00	07/22/24 11:07
390-6947-17	E#104	Solid	07/22/24 07:00	07/22/24 11:07
390-6947-18	E#105	Solid	07/22/24 07:00	07/22/24 11:07
390-6947-19	E#106	Solid	07/22/24 07:00	07/22/24 11:07
90-6947-20	E#107	Solid	07/22/24 07:00	07/22/24 11:07
90-6947-21	E#108	Solid	07/22/24 07:00	07/22/24 11:07
390-6947-22	E#109	Solid	07/22/24 07:00	07/22/24 11:07

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li K Se Ag SiO ₂ Na Sr Tl Sn U V Z Hg: 1631/245.1/7470 / 747	Sample Identification	Date Sampled	Grab/ Comp	of		Sample Comments
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Login Sample Receipt Checklist

Client: R360 ES Holdings Inc Job Number: 890-6947-1

Login Number: 6947 List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

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

Login Sample Receipt Checklist

Client: R360 ES Holdings Inc Job Number: 890-6947-1

List Source: Eurofins Midland
List Number: 2
List Creation: 07/23/24 08:17 AM

Creator: Vasquez, Julisa

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

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<6mm (1/4").



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

August 26, 2024

NICHOLAS POOLE
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: R360 RED BLUFF

Enclosed are the results of analyses for samples received by the laboratory on 08/23/24 8:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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.

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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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2024 Sampling Date: 08/22/2024

Reported: 08/26/2024 Sampling Type: Soil

Project Name: R360 RED BLUFF Sampling Condition: Cool & Intact Project Number: 212C - MD - 02878 Sample Received By: Shalyn Rodriguez

Project Location: COP - ORLA, TX

Sample ID: BACKFILL COMPOSITE (H245141-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	08/23/2024	ND	2.23	112	2.00	6.88	
Toluene*	<0.050	0.050	08/23/2024	ND	2.13	106	2.00	6.28	
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.10	105	2.00	5.95	
Total Xylenes*	<0.150	0.150	08/23/2024	ND	6.23	104	6.00	6.09	
Total BTEX	<0.275	0.275	08/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/23/2024	ND	400	100	400	7.69	
TPH TX1005	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<25.0	25.0	08/23/2024	ND	227	113	200	3.24	
DRO >C12-C28	<25.0	25.0	08/23/2024	ND	205	103	200	6.54	
DRO >C28-C35	<25.0	25.0	08/23/2024	ND					
Total TPH C6-C35*	<25.0	25.0	08/23/2024	ND	438	110	400	6.27	
Surrogate: 1-Chlorooctane	68.1	% 48.6-15	3						
Surrogate: 1-Chlorooctadecane	77.3	% 41.9-17	0						

Cardinal Laboratories *=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of

(575) 393-2326 FAX (575) 393-2476

Company Name:	Phylhos	BILLTO	ANAL VOIC
roject Manager: Ni cholas	-	P.O.#	ANALISIS REQUES
Address:		Company: Fet 12 Tech	
Sity:	State: Zip:		6
hone #:	Fax #:		
roject #: 2126-100-02878	7 8 Project Owner:	City:	
roject Name: R360 R	a	State: Zip:	
roject Location:	to, when as orla, TX	#	
ampler Name: Andrew	NCV&	Fax #:	5
	MATRIX	PRESERV. SAMPLING	es
	RS TER R		
Lab I.D. Samp	(G)RAB OR (C)O # CONTAINERS GROUNDWATE WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE/COOL OTHER: DATE	BTEX TPH Chion
1 Backfilt	Composite 61 X	X 22 Aug 10	×
ASE NOTE: Liability and Damages, Cardina's liability	ASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the	or tort, shall be limited to the amount paid by the clie	of for the
year. All dains including those for negligence and any other cause w ce. in no event shall Cardinal be liable for incidental or consequental ties or successors arising out of or related to the performance of services or successors arising out of or related to the performance of services or successors arising out of or related to the performance of services or successors arising out of or related to the performance of services or successors.	Psex. All claims including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within 30 days after completion of the applicable ce. In no event shall Cardinal be liable for incidental or consequental damagos, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subaddaries, lites or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	d received by Cardinal within 30 days after completion of the loss of use, or loss of profits incurred by client, its subaddarfe is based upon any of the above stated reasons or otherwise	n of the applicable and states, and states
Andrew Garaic	Times Stockion	All Res	ult: ☐ Yes ☐ No Add' are emailed. Please provide Er
linquished By:	Rec	REMARKS:	retron. Gerci
mpler - UPS - Bus - Other:	Corrected Temp. °C3 3: Sample Condition	CHECKED BY:	Turnaround Time: Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. Thermbmeter ID 4446
	cent verbal c	1	D INC

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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 379384

QUESTIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	379384
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1715742101
Incident Name	NAB1715742101 WEST BRUSHY 8 FEDERAL SWD #001 @ 30-015-31675
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Well	[30-015-31675] WEST BRUSHY 8 FEDERAL SWD #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	WEST BRUSHY 8 FEDERAL SWD #001
Date Release Discovered	05/27/2017
Surface Owner	Federal

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

Nature and Volume of Release				
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.				
Crude Oil Released (bbls) Details	Not answered.			
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Injection Produced Water Released: 30 BBL Recovered: 20 BBL Lost: 10 BBL.			
Is the concentration of chloride in the produced water >10,000 mg/l	Yes			
Condensate Released (bbls) Details	Not answered.			
Natural Gas Vented (Mcf) Details	Not answered.			
Natural Gas Flared (Mcf) Details	Not answered.			
Other Released Details	Not answered.			
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.			

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QUESTIONS, Page 2

Action 379384

QUESTI	ONS (continued)
Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	379384
	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.	e. gas only) are to be submitted on the C-129 form.
L	
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	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.
	I I ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releate OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or

Name: Christian LLuLL Title: Project Manager

Date: 08/29/2024

Email: christian.llull@tetratech.com

I hereby agree and sign off to the above statement

local laws and/or regulations.

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QUESTIONS, Page 3

Action 379384

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	379384
	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 51 and 75 (ft.)		
What method was used to determine the depth to ground water	NM OSE iWaters Database Search		
Did this release impact groundwater or surface water	No		
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:			
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)		
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 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	Greater than 5 (mi.)		
Any other fresh water well or spring	Greater than 5 (mi.)		
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)		
A wetland	Greater than 5 (mi.)		
A subsurface mine	Greater than 5 (mi.)		
An (non-karst) unstable area	Between ½ and 1 (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 provide	led 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 contami	ination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	9460	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	211	
GRO+DRO (EPA SW-846 Method 8015M)	211	
BTEX (EPA SW-846 Method 8021B or 8260B)	0.3	
Benzene (EPA SW-846 Method 8021B or 8260B)	0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes comp which includes the anticipated timelines for beginning and completing the remediation.	pleted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
On what estimated date will the remediation commence	08/01/2024	
On what date will (or did) the final sampling or liner inspection occur	08/01/2024	
On what date will (or was) the remediation complete(d)	08/15/2024	
What is the estimated surface area (in square feet) that will be reclaimed	20700	
What is the estimated volume (in cubic yards) that will be reclaimed	1920	
What is the estimated surface area (in square feet) that will be remediated	20700	
What is the estimated volume (in cubic yards) that will be remediated	1920	
These estimated dates and measurements are recognized to be the best guess or calculation	n 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 adjuste	ed in accordance with the physical realities encountered during remediation. If the responsible party has any need to	

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

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Phone:(505) 334-6178 Fax:(505) 334-6170 **District IV**

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

QUESTIONS, Page 4

Action 379384

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	379384
	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	No	
OR is the off-site disposal site, to be used, an NMED facility	No	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No	
(In Situ) Soil Vapor Extraction	No	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No	
Ground Water Abatement pursuant to 19.15.30 NMAC	No	
OTHER (Non-listed remedial process)	No	

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

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

I hereby agree and sign off to the above statement

Name: Christian LLuLL Title: Project Manager

Email: christian.llull@tetratech.com Date: 08/29/2024

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.

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QUESTIONS, Page 5

Action 379384

QUESTIONS (CONTINUED	QL	JESTIONS (continued
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Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	379384
	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	No

District I

Phone: (575) 393-6161 Fax: (575) 393-0720

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QUESTIONS, Page 6

Action 379384

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	379384
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	367769
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/31/2024
What was the (estimated) number of samples that were to be gathered	75
What was the sampling surface area in square feet	20865

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	19890	
What was the total volume (cubic yards) remediated	1850	
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	19890	
What was the total volume (in cubic yards) reclaimed	1850	
Summarize any additional remediation activities not included by answers (above)	Following excavation, confirmation floor and sidewall samples were collected from the entire remediated area 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 400 square feet of excavated area. The combined remediated extent had a surface area of approximately 19,890 square feet. A total of fifty-one (51) confirmation floor sample locations and twenty-two (22) confirmation sidewall sample locations were collected for laboratory analysis during remedial activities.	

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Name: Christian LLuLL
Title: Project Manager
Email: christian.llull@tetratech.com
Date: 08/29/2024

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QUESTIONS, Page 7

Action 379384

QUESTIONS (con	itinuea)
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Operator: COG OPERATING LLC	OGRID: 229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	379384
	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	19890
What was the total volume of replacement material (in cubic yards) for this site	1850
	four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 over must include a top layer, which is either the background thickness of topsoil or one foot of suitable material
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)	08/07/2024
Summarize any additional reclamation activities not included by answers (above)	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 EPA Method 300.0. 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

The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.

backfilling, to aid in revegetation.

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.

Name: Christian LLuLL
Title: Project Manager
Email: christian.llull@tetratech.com
Date: 08/29/2024

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

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QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	379384
	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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CONDITIONS

Action 379384

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
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Midland, TX 79701	379384
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation closure and reclamation report approved.	9/6/2024
bhall	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	9/6/2024
bhall	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.	9/6/2024
bhall	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	9/6/2024