

January 29, 2024

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

Re: Remediation Work Plan
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 Concho 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.

Tetra Tech

ConocoPhillips

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."

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 as Appendix B.

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 as Appendix C.

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."

ConocoPhillips

Three extension requests have been approved for this release incident since the December 12, 2022 rejection was received. The final extension request, approved via email on October 31, 2023, extended the due date to January 30, 2024. Copies of the NMOCD correspondence are included in Appendix B.

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 D.

ConocoPhillips has initiated the permitting process to install a depth-to-water (DTW) boring in case the NMOCD and BLM determines that one is necessary to establish RRALs based on depth to groundwater in accordance with Table I of 19.15.29.12 NMAC.

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, 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

nAB1715742101 Remediation Work Plan January 29, 2024

ConocoPhillips

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 Appendix E.

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.

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 taken 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. Photographic documentation from the 2023-2024 assessment activities is included as Appendix E.

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

nAB1715742101 Remediation Work Plan January 29, 2024

ConocoPhillips

EPA Method 8261B. A copy of the laboratory analytical reports and chain-of-custody documentation for the 2023-2024 sampling events are included in Appendix F.

SUMMARY OF SAMPLING RESULTS

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

Based on the site characterization, the collected analytical results, and the NMOCD rejection of the 2019 closure request, ConocoPhillips proposes to remove the impacted material as indicated in Figure 5. The proposed remedial action addresses 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).

Impacted soils will be excavated to a maximum depth of 1 foot below surface grade in the areas characterized by sample locations T-24-6, T-24-10, T-24-13, T-24-14, and T-24-15 or until a representative sample from the excavation floor is below the applicable reclamation limit or RRAL for chloride. Impacted soils will be excavated to a maximum depth of 4 feet below surface grade in the areas characterized by sample locations T-24-1 through T-24-5, T-24-7, T-24-11, and T-24-16.

Heavy equipment (backhoe and trackhoe) will be utilized to excavate areas outside the immediate vicinity of pressurized lines and will come no more than 4 feet from any pressurized lines. Impacted soils within the vicinity of the surface and subsurface lines will be removed to the maximum extent practicable using non-aggressive excavation methods.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. In accordance with subsection D of 19.15.29.12 NMAC, the responsible party will notify the appropriate division district office prior to conducting confirmation sampling. Confirmation bottom and sidewall samples representative of no more than 400 square feet will be collected for verification of remedial activities, and analyzed for TPH, BTEX, and chlorides. Once results are received, the excavation will then be backfilled with clean material to surface grade. The estimated volume of material to be remediated is approximately 1,920 cubic yards.

ConocoPhillips

SITE RECLAMATION AND RESTORATION PLAN

Once acceptable confirmation sample results are received, the excavation area will then be backfilled with clean topsoil to surface grade. The backfilled areas within pasture areas will be seeded to aid in revegetation. Based on the location of the Site, the seed mixture for LPC Sand/Shinnery Sites will be used for seeding and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the BLM will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. The BLM seed mixture details and corresponding pounds pure live seed per acre are included in Appendix G.

CONCLUSION

Based on the results of the additional release delineation activities, ConocoPhillips will remediate impacted areas to 4 feet bgs, as indicated in Figure 5. 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 proposed remediation activities will be conducted within 120 days of acceptance of the proposed plan. Concurrent approval of the proposal remedial action will be obtained from the BLM and the lease holder prior to commencement of the proposed actions. If you have any questions concerning the additional assessment activities for the Site or the proposed remediation work plan, please call me at (512) 338-2861.

Sincerely,

Tetra Tech, Inc.

Samantha K. Abbott, P.G Project Manager

cc: Mr. Ike Tavarez - ConocoPhillips

Christian M. Llull, P.G. Program Manager

nAB1715742101 Remediation Work Plan January 29, 2024

ConocoPhillips

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 – Proposed Remediation Extent

Tables:

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

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

Appendices:

Appendix A – C-141 Forms

Appendix B - Regulatory Correspondence

Appendix C – BBC Closure Report (2019)

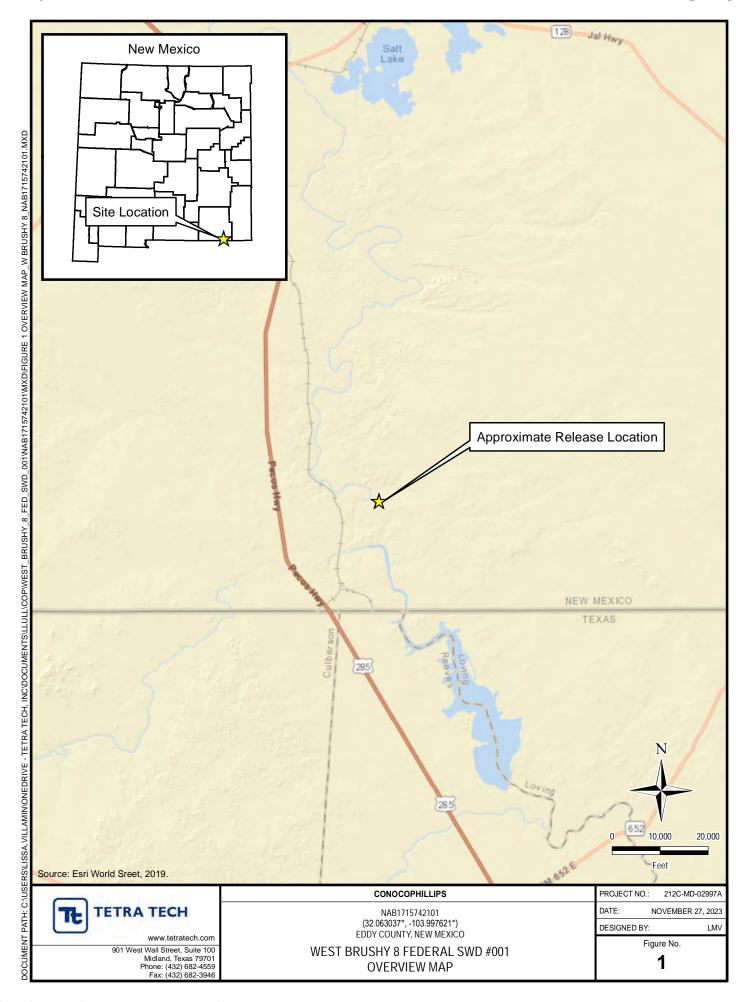
Appendix D – Site Characterization Data

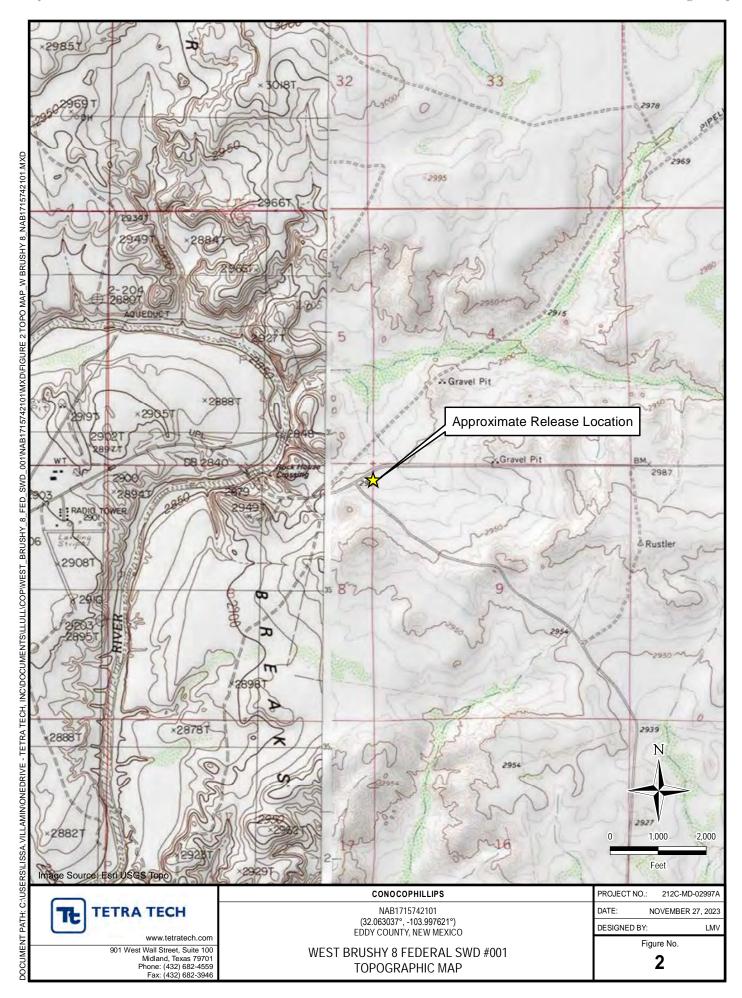
Appendix E – Photographic Documentation

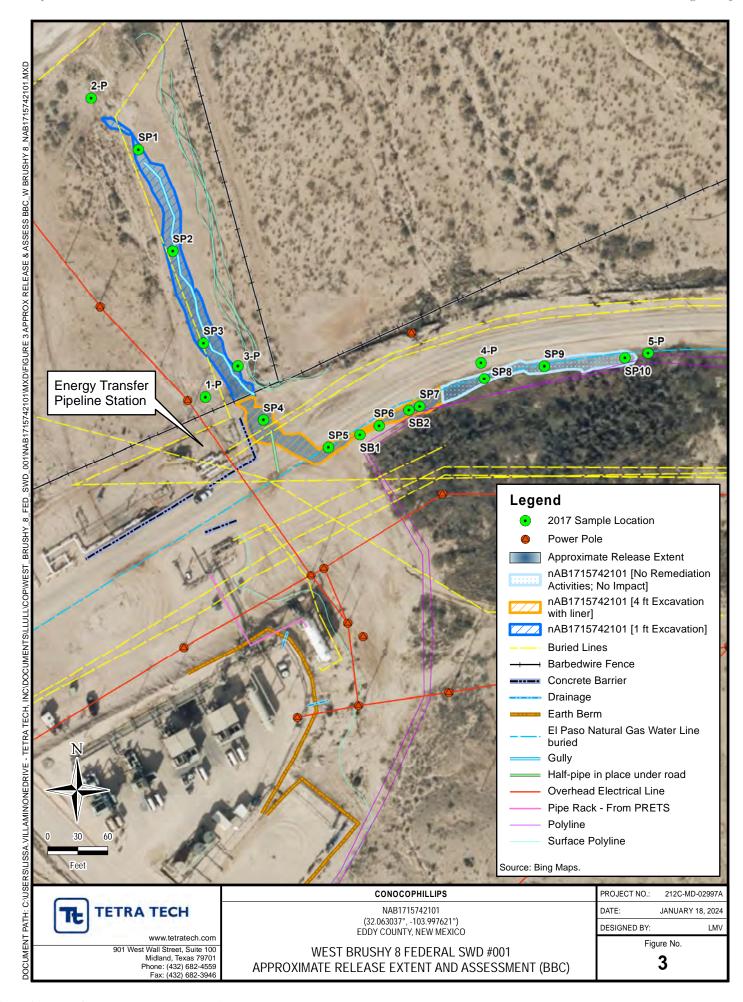
Appendix F – Laboratory Analytical Reports

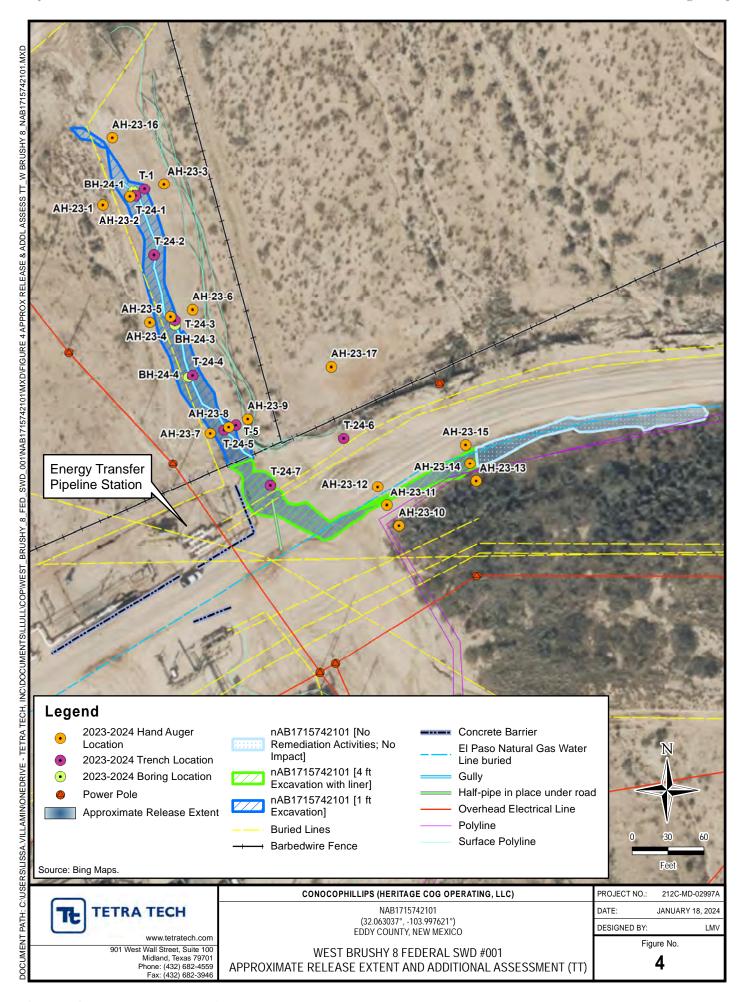
Appendix G – BLM Seed Mixture

FIGURES

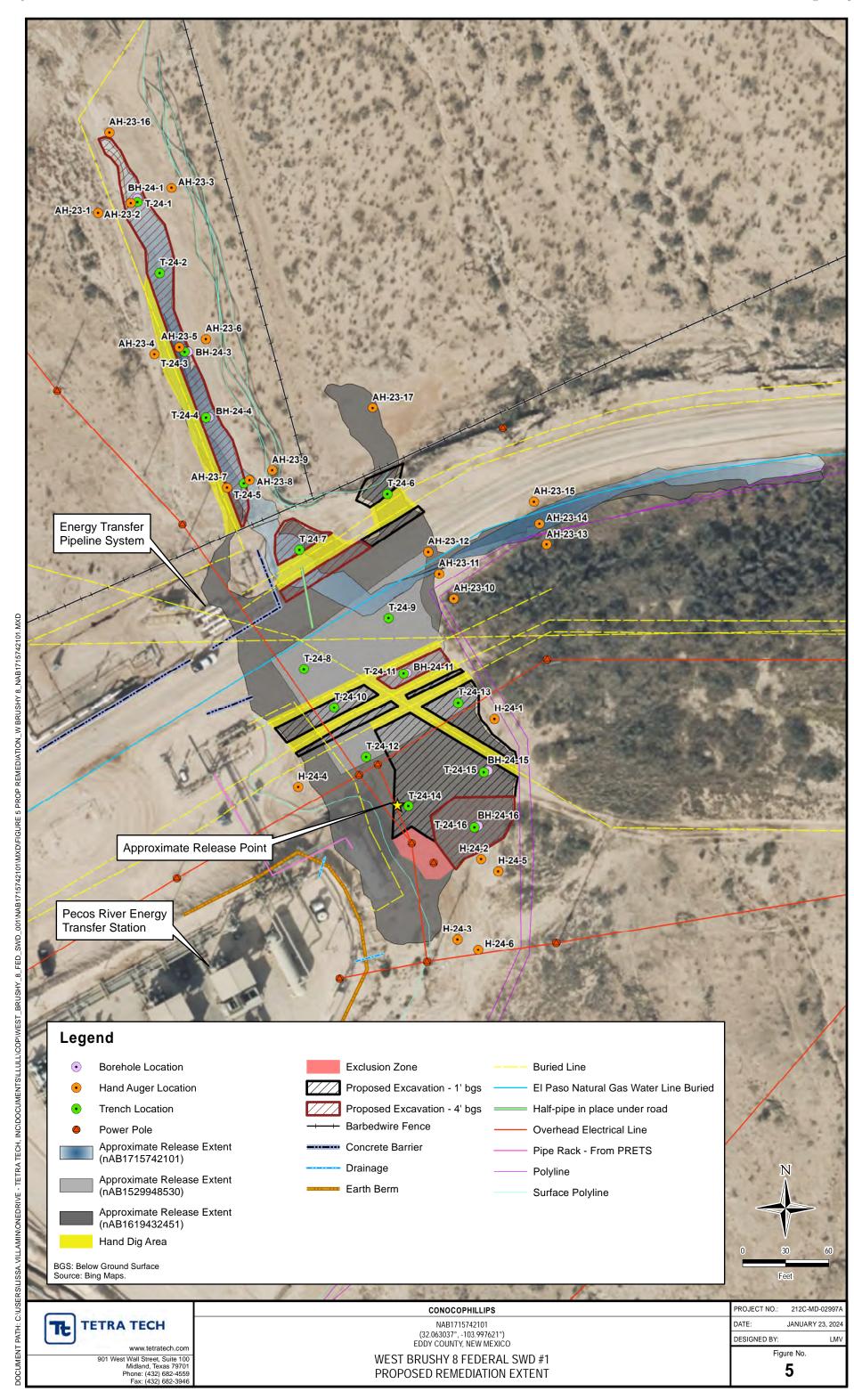








Received by OCD: 1/29/2024 2:54:09 PM



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		
Consulta ID	Commis Data	Sample Depth	Chlorid	le ¹	Benzer		Toluer		Ethylben		Total Xyl		Total B1	rev	GRO		DRO)	EXT D	RO	Total TPH
Sample ID	Sample Date				belizei	ie	Toluel	ie	Ethylben	zene	TOTAL AND	enes	TOTAL	EA	C ₆ - C ₁	.0	> 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		-		-		-		-		-		-		-		-		-
		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
		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
		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		ı		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	le ¹	Benzei	ne	Toluer	10	Ethylben	zene	Total Xyl	onos	Total B	TEY	GRO)	DRO		EXT D	RO	Total TPH
Sample 15	Sample Date				De.izene		Totale		E, Selizene		Total Xyl	ciics	Total D	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
		8	1260		-		-		-		-		-		-		-		-		=
		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		-		-		-		-		-		-		-		-		-

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

NOTES:

ft. bgs Below ground surface

QUALIFIERS:

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics Method SM4500CI-B

Method 8021B

Method 8015M 3

Not analyzed for parameter

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	_				II						GRO		DRC)	EXT D	RO	(000 000)	Total TPH
			ExStik	Titration			Benzen	ie	Toluer	ne	Ethylbenze	ene	Total Xyle	enes	Total BT	EX	C ₆ - C ₁	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/k</u>	k <u>q</u>							<u>50 mg/l</u>	k <u>q</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/k</u>	k <u>q</u>							<u>50 mg/l</u>	k <u>q</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
	57 = 7 = 5	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
AH-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
1-24-5	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	4/4/2024	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 CA	4/40/222	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	1	<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

		Sample Depth	Sample Depth	Sample Donth			Field Scr	eening							BTEX ²									TPH ³		
		Sample Depth	Resu		Chloric	de											GRO	DRO		EXT DRO	(Total TPH				
			ExStik	Titration			Benzei	ne	Toluen	ie	Ethylbenz	ene	Total Xyl	enes	Total BTE	X	C ₆ - C ₁₀	> C ₁₀ - 0	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>1</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</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	1/5/2024	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				
ALL 22 44	0/24/2022	0-1	416	-	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0				
AH-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				
	0/04/0000	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				
		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				
	, .	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	reening							BTEX ²									TPH ³			
		Sample Depth	Resu	ults	Chloric	le	_					-				GRO)	DRO)	EXT D	RO	(222 222)	Total TPH
			ExStik	Titration			Benze	ne	Toluen	ie	Ethylbenzene	Total Xyle	enes	Total BT	EX	C ₆ - C	10	> C ₁₀ -	C ₂₈	> C ₂₈ -	C ₃₆	(GRO+DRO)	(GRO+DRO+EXT DRO)
Sample ID	Sample Date	ft. bgs	ppı	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/k</u>	<u>(q</u>	-				-			<u>100 mg/kg</u>
		RRAL for Soils >4' bgs (GW 50-100 ft):		-	<u>10,000 mg</u>	g/kg	<u>10 mg/</u>	<u>/kg</u>						<u>50 mg/k</u>	<u>(q</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 12	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
T-24-13	1/5/2024	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
T-24-14 1/5/202	1/5/2024	2-3	252	-	64		<0.050		<0.050		<0.050	<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0
T 24.45	4 /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
T-24-15	1/5/2024	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
DU 24.45	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
BH-24-15	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 0.4.46	4 /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
T-24-16	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:															<u> </u>		1		1	<u> </u>	1		<u> </u>

NOTES:

Feet 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

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.

APPENDIX A C-141 Forms

NM OIL CONSERVATION

ARTESIA DISTRICT

District I 1625 N. French Dr., Hobbs, NM 88240 District II District III
1000 Rio Brazos Road, Aztec, NM 87410

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

JUN 0 1 2017

Form C-141 Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office in RECEIVED NMAC.

Strict IV 1220 South St. Francis Dr. RECEIVED 20 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505										
		Rele	ase Notific				e Actio			
NABINI5741	2101		ng LLC <i>229</i> 7.		OPERAT				Report	Final Report
			lland TX 79701		Telephone N	io.		32-683-7443		
Facility Name: West B	rushy 8 Fed	eral SWI) #001	1	acility Typ	e: SWD				
Surface Owner:	Federal		Mineral C)wner:				API No.	30-0	15-31675
			LOCA	ATION	OF REI	LEASE				
Unit Letter Section A 08	Township 26S	Range 29E	Feet from the 660		South Line North	Feet from 330	the Eas	t/West Line Enst		County Eddy
			Latitude 32.0	063037	Longitud	le -103.9976	621			
			NAT	URE	OF REL					
Type of Release:	Produced	Water			Volume of	Release: 30 bbls		Volume R	ecovered: 20 b	hls
Source of Release:						lour of Occu			lour of Dis	covery:
Was Immediate Notice G	<u>Flowli</u> iven?	ne			If YES, To	27, 2017 4:0 Whom?	0 pm		May 27, 20	17 4:00 pm
	⊠	Yes [No 🗌 Not Re	equired			aver – NA	10CD / Shelly	Tucker - i	BLM
By Whom? Rebecca Haskell Date and Hour: May 27, 2017 7:41 pm Was a Watercourse Reached? If YES, Volume Impacting the Watercourse.										
Was a Walcredurse React		Yes 🗵	No		11 123, 40	nume impaci	ing the w	atercourse.		
If a Watercourse was Imp	acted, Descr	be Fully.	;		L	······································				
Describe Cause of Proble	m and Reme	dial Action	n Taken.*					· · · · · · · · · · · · · · · · · · ·		
The release was due to a				nc. The t	itting was re	placed				
Describe Area Affected a	nd Cleanup A	Action Tak	ten.*							
The release was within a any possible impact from activities.										
I hereby certify that the ir regulations all operators public health or the environment. In a federal, state, of local law	are required to onment. The ave failed to a ddition, NMC	o report as acceptance dequately ICD accep	nd/or file certain in the of a C-141 report investigate and i	release no ort by the remediate	otifications a NMOCD m contaminat	nd perform c arked as "Fii ion that pose	orrective a nal Report a threat to	actions for rele " does not reli ground water	ases which eve the ope , surface w	may endanger rator of liability ater, human health
Signature: Relie	ia II	white	V			OIL C	<u>ONSER</u>	<u>NOTAV</u>	DIVISIO	<u>NC</u>
Printed Name:	Rebecca	Haskell			Approved by	Environmen	ıtal Specia	dist US	40	Wen
Title:	Senior H	SE Coord	inator		Approval Da	te: 6 5	17	Expiration 1	Date:	IF
E-mail Address:	rhaskell@	concho.c	om		Conditions o	f Approval:	tacl	hed	Attached	
Date: June 1, 2017 Attach Additional Shee	Phone:	432-683							<u></u>	100 10 10
Auden Vannining Slice		New for w Mexi	rms can be f co State Wel www.emnrd.s OCD/forms	tate.nr	n the n forms: <u>m.us/</u>				Ö	1KV-4240

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: 1/29/2024 2:54:09 PM Form C-141 State of New Mexico Page 3 Oil Conservation Division

	Page 25 of 208
Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody	ls.

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

Received by OCD: 1/29/2024 2:54:09 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 26 of 20	98
Incident ID		
District RP		
Facility ID		
Application ID		

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

Received by OCD: 1/29/2024 2:54:09 PM Form C-141 State of New Mexico Page 5 Oil Conservation Division

	Page 27 of 208
Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.		
Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)		
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.		
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.		
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human health, the environment, or groundwater.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Naı	Title:	
Signature: 1478	Date:	
email:	Telephone:	
OCD Only		
Received by:	Date:	
Approved		
Signature:	Date:	

APPENDIX B Regulatory Correspondence

From: Weaver, Crystal, EMNRD

To: Cliff Brunson; Bratcher, Mike, EMNRD; Shelly Tucker
Cc: Becky Haskell; Ken Swinney; Jennifer Gilkey; Kathy Purvis

Subject: RE: COG West Brushy 8 Federal SWD #1 (2RP-4240) - Delineation Workplan

Date: Friday, February 16, 2018 3:45:00 PM

Rebecca/Cliff,

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 8ft depth (SB-1 & 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 can not 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 in order 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.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact Mike Bratcher and/or myself in the District II Office.

Crystal Weaver

Environmental Specialist OCD – Artesia District II

811 S. 1st Street Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963 Fax: 575-748-9720

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

Sent: Wednesday, November 22, 2017 4:21 PM

To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Shelly Tucker <stucker@blm.gov>

Cc: Weaver, Crystal, EMNRD < Crystal. Weaver@state.nm.us>; Becky Haskell

<rhaskell@concho.com>; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey

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

Subject: COG West Brushy 8 Federal SWD #1 (2RP-4240) - Delineation Workplan

Mike and Shelly,

Please find the attached Delineation Workplan and remediation proposal for the COG West Brushy 8 Federal SWD #1 (2RP-4240). COG is requesting that you review this plan and is looking forward to both the OCD's and BLM's approval.

If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
Hobbs, NM 88240 USA

Phone: (575) 397-6388 Fax: (575) 397-0397

E-Mail: cbrunson@bbcinternational.com



Confidentiality Notice: This electronic transmission (and any attached documents) is intended only for the person(s) to whom it is addressed and may contain information that is privileged, confidential, or otherwise protected from disclosure. If you have received this transmission in error, please immediately notify the sender by e-mail or by telephone call to (575) 397-6388 for handling instructions. Any disclosure or distribution of the contents of this transmission by anyone other than the named recipient(s) is strictly prohibited.

Bratcher, Mike, EMNRD

From: Bratcher, Mike, EMNRD

Sent: Thursday, February 22, 2018 10:20 AM

To: Cliff Brunson; Shelly Tucker

Cc: Weaver, Crystal, EMNRD; Becky Haskell; Ken Swinney; Jennifer Gilkey; Kathy Purvis

Subject: RE: COG West Brushy 8 Federal SWD #1 (2RP-4240) - Delineation Workplan

RE: COG * West Brushy 8 Fed SWD 1 * 2RP-4240 * DOR: 5/27/2017

Greetings all,

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.

Thank you,

Mike Bratcher NMOCD District 2 811 South First Street Artesia, NM 88210 575~748~1283 Ext 108

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

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

Sent: Wednesday, November 22, 2017 4:21 PM

To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Shelly Tucker <stucker@blm.gov>

Cc: Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; Becky Haskell <rhaskell@concho.com>; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey <jgilkey@bbcinternational.com>; Kathy Purvis <kathy@bbcinternational.com>

Subject: COG West Brushy 8 Federal SWD #1 (2RP-4240) - Delineation Workplan

Mike and Shelly,

Please find the attached Delineation Workplan and remediation proposal for the COG West Brushy 8 Federal SWD #1 (2RP-4240). COG is requesting that you review this plan and is looking forward to both the OCD's and BLM's approval.

If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397

E-Mail: cbrunson@bbcinternational.com



Confidentiality Notice: This electronic transmission (and any attached documents) is intended only for the person(s) to whom it is addressed and may contain information that is privileged, confidential, or otherwise protected from disclosure. If you have received this transmission in error, please immediately notify the sender by e-mail or by telephone call to (575) 397-6388 for handling instructions. Any disclosure or distribution of the contents of this transmission by anyone other than the named recipient(s) is strictly prohibited.

From: OCDOnline@state.nm.us

To: Beauvais, Charles R

Subject: [EXTERNAL]The Oil Conservation Division (OCD) has rejected the application, Application ID: 166032

Date: Monday, December 12, 2022 11:29:50 AM

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o Charles Beauvais for COG OPERATING LLC),

The OCD has rejected the submitted *Internal Manual Incident File Supporting Documentation* (ENV) (IM-BNF), for incident ID (n#) nAB1715742101, for the following reasons:

- 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.

The rejected IM-BNF can be found in the OCD Online: Permitting - Action Status, under the Application ID: 166032.

Please review and make the required correction(s) prior to resubmitting.

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

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: Chavira, Lisbeth

Cc: Abbott, Sam; Llull, Christian

Subject: RE: [EXTERNAL] Extension Request - Application ID 166032 (nAB1715742101)

Date: Tuesday, April 11, 2023 2:52:06 PM

Attachments: <u>image001.png</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.

Lisbeth,

The extension request for **nAB1715742101** is approved. New due date is 6/15/2023.

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.

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/

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

Sent: Tuesday, April 11, 2023 1:43 PM

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

Cc: Abbott, Sam <Sam.Abbott@tetratech.com>; Llull, Christian <Christian.Llull@tetratech.com>

Subject: [EXTERNAL] Extension Request - Application ID 166032 (nAB1715742101)

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

Ms. Hall:

On behalf of ConocoPhillips, Tetra Tech is requesting a 90-day extension (until June 15, 2023) to complete the associated reporting for the West Brushy 8 Federal SWD #001 Release site (nAB1715742101).

ConocoPhillips recently received a large volume of NMOCD determinations related to unresolved releases from ConocoPhillips' predecessor-in-interest ("COG") via the *Internal Manual Incident File Supporting Documentation (ENV)* (IM-BNF) process.

Given the difficulties inherent with available resource allocation for several projects with similar deadlines within a short period of time, this schedule is not currently practical.

ConocoPhillips plans to conduct additional work in the coming months however, and once the data is collected, tabulated, and evaluated, a subsequent report will be submitted to the OCD.

Please let me know if you have any questions or concerns.

Thank you,

Lisbeth Chavira | Staff Geoscientist

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

Tetra Tech | Leading with Science® | OGA

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

This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system.





From: Hall, Brittany, EMNRD

To: Abbott, Sam

Cc: <u>Llull, Christian</u>; <u>Chavira, Lisbeth</u>

Subject: RE: [EXTERNAL] Extension Request - nAB1529948530, nAB1702748717 ,nAB1715742101, nAB1619432451

Date: Friday, September 15, 2023 2:24:50 PM

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.

Ms. Abbott,

Thank you for the information. OCD will grant an extension until <u>October 30, 2023</u>, for all four releases (**nAB1529948530**, **nAB1702748717**, **nAB1715742101**, **nAB1619432451**).

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 files.

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/

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

Sent: Friday, September 15, 2023 12:18 PM

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

Cc: Llull, Christian < Christian.Llull@tetratech.com>; Chavira, Lisbeth

<LISBETH.CHAVIRA@tetratech.com>

Subject: RE: [EXTERNAL] Extension Request - Application ID 206727 (nAB1529948530)

Ms. Hall,

The remedial action performed by BBC was grouped over four individual release footprints and the closure report was aggregated into one combined deliverable. Although BBC did complete remedial action over several different portions of the footprint, it has been difficult to discern which portions of each individual release extent was acted upon based on the provided figures, which were not drawn to scale, and the photographs, which did not differentiate between release areas.

Considerable time and effort has been spent to review all available documentation for each of the four release incidents, including work plans and regulatory correspondence; and decipher exactly which areas were worked on by BBC as documented in the rejected closure report, while attempting to designate areas in the field with areas identified in the figures and photographs. The site is an extremely busy and active area with numerous subsurface and surface hazards which has also hampered project progress. Tetra Tech has photographic

documentation of multiple site visits conducted in 2023, which are provided here.

Tetra Tech is committed to provide a quality deliverable to the NMOCD in an attempt to close these incidents, however, the difficulties inherent with the noted matters require more time and effort.

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

This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system.

	Please consider the environment before printing. Read more
?	

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

Sent: Thursday, September 14, 2023 3:21 PM **To:** Abbott, Sam <<u>Sam.Abbott@tetratech.com</u>>

Cc: Llull, Christian < Christian.Llull@tetratech.com>; Chavira, Lisbeth

<<u>LISBETH.CHAVIRA@tetratech.com</u>>

Subject: RE: [EXTERNAL] Extension Request - Application ID 206727 (nAB1529948530)

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

Sent: Tuesday, September 12, 2023 4:26 PM

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

Cc: Llull, Christian < Christian.Llull@tetratech.com>; Chavira, Lisbeth

<<u>LISBETH.CHAVIRA@tetratech.com</u>>

Subject: [EXTERNAL] Extension Request - Application ID 206727 (nAB1529948530)

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

Ms. Hall:

On behalf of ConocoPhillips, Tetra Tech is requesting an additional 90-day extension (until October 30, 2023) to complete reporting for the West Brushy 8 Federal SWD #001 Release site (nAB1529948530).

The original closure report completed by BBC was denied by OCD for the following reasons:

• Closure/deferral was rejected for this release in 2016 based on the location of the release and the release not being fully delineated. There are numerous releases that have occurred at this site and have not been closed. If there was overlap of the releases, the approved workplans will need to be provided as stated in this closure report. Submit a complete report through the OCD Permitting website by 8/1/2023. 2RP-3353 closed. Refer to inident #NAB1529948530 in all future correspondence.

The release incident is located in the vicinity of an active battery in an area congested with active surface and subsurface lines. Given the complexities of this site, including numerous surface and subsurface utilities within the release footprint, this incident is now being handled by the risk management and remediation group at ConocoPhillips. Additionally, because the rejected closure report comprised four release incidents, interpreting the remedial actions associated with the individual release incidents has taken a higher level of effort than anticipated.

In addition to a thorough file review, ConocoPhillips has completed a site visit to evaluate current conditions and identify safety hazards present in the incident release area. The revised report will be submitted to the OCD within the requested timeframe.

Please let me know if you have any questions or concerns.

Thank you, Sam

Samantha Abbott, PG | Project Manager

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

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

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

use of this communication by any	chments, may include privileged, confidential and/or inside information. Any distribution on one other than the intended recipient is strictly prohibited and may be unlawful. If you are notify the sender by replying to this message and then delete it from your system.
Please con	sider the environment before printing. Read more

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

To: Abbott, Sam

Cc: Llull, Christian; Chavira, Lisbeth

Subject: RE: [EXTERNAL] Extension Request - Application ID 166032 (nAB1715742101)

Date: Tuesday, October 31, 2023 12:43:33 PM

Attachments: <u>image001.png</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,

Thank you for the clarification. The extension request for **nAB1715742101** is approved. This will be the last extension approved for these circumstances. The new due date is January 30, 2024.

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.

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/

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

Sent: Tuesday, October 31, 2023 10:24 AM

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

Cc: Llull, Christian < Christian.Llull@tetratech.com>; Chavira, Lisbeth

<LISBETH.CHAVIRA@tetratech.com>

Subject: RE: [EXTERNAL] Extension Request - Application ID 166032 (nAB1715742101)

Apologies, this was a typo. The request was intended to be a 90-day extension until January 30, 2023.

Thank you,

Sam

Samantha Abbott, PG | Project Manager

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

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

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

This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system.

Please consider the environment before printing. Read more
_
From: Hall, Brittany, EMNRD < Brittany.Hall@emnrd.nm.gov
Sent: Tuesday, October 31, 2023 11:22 AM
To: Abbott, Sam < <u>Sam.Abbott@tetratech.com</u> >
Cc: Llull, Christian < Christian.Llull@tetratech.com >; Chavira, Lisbeth
< <u>LISBETH.CHAVIRA@tetratech.com</u> >
Subject: RE: [EXTERNAL] Extension Request - Application ID 166032 (nAB1715742101)

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.

The release incident is located in the vicinity of an active battery in an area congested with active surface and subsurface lines. Given the complexities of this site, including numerous surface and subsurface utilities within the release footprint, this incident is now being handled by the risk management and remediation group at ConocoPhillips. Additionally, because the rejected closure report comprised four release incidents, interpreting the remedial actions associated with the individual release incidents has taken a higher level of effort than anticipated.

The remedial action performed by BBC was grouped over four individual release footprints and the closure report was aggregated into one combined deliverable. Although BBC did complete remedial action over several different portions of the footprint, it has been difficult to discern which portions of each individual release extent was acted upon based on the provided figures, which were not drawn to scale, and the photographs, which did not differentiate between release areas.

Considerable time and effort has been spent to review all available documentation for each of the four release incidents, including work plans and regulatory correspondence; and decipher exactly which areas were worked on by BBC as documented in the rejected closure report, while attempting to designate areas in the field with areas identified in the figures and photographs. The site is an extremely busy and active area with numerous subsurface and surface hazards which has also hampered project progress. Tetra Tech has photographic documentation of multiple site visits conducted in 2023, which are provided here.

Additionally, Tetra Tech has completed additional assessment activities in the northern portion of the release site (which overlaps with a separate release incident nAB1619432451, addressed in a separate email) in September 2023. Based on the results of this sampling event, additional work is required to complete delineation of the release and to compile all findings in a report for submittal.

Revised closure reports will be submitted today for the two remaining open incidents associated with this site (nAB1529948530 and nAB1702748717).

Please let me know if you have any questions or concerns.

Thank you, Sam

Samantha Abbott, PG | Project Manager

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

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

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

This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system.

Please c	onsider the environment before printing. Read more
?	

APPENDIX C BBC Closure Report (2019)

Closure Report

Site Description		
Site Name:	West Brushy 8 Federal SWD #1	
Company:	COG Operating LLC	
Legal Description:	U/L A, Section 8, T26S, R29E	
County:	Eddy County, NM	
GPS Coordinates:	N 32.06422° W-103.99710°	

Release Data		
Date of Release:	9/13/15, 7/3/16, 1/24/17, and 5/27/17	
Type of Release:	Produced water	
Source of Release:	Flowline leaks	
Volume of Release:	30 bbls, 25 bbls, 30 bbls, 30 bbls	
Volume Recovered:	3 bbls, 0 bbls, 15 bbls, 20 bbls	

Remediation Specifications		
Remediation Parameters:	Remediation was conducted based on the depths approved in each work plan.	
Remediation Activities:	9/14/18 to 12/27/18	
Plan Sent to OCD:	Dates vary	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	2/22/18	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	Dates vary	Email from Cliff Brunson to Shelly Tucker
BLM Approval of Plan:	2/14/18	Email from Shelly Tucker to Cliff Brunson

Supporting Documentation		
Initial C-141	Signed 10/24/15, 7/8/16, 1/25/17, and 6/1/17	
Final C-141	Signed 1/14/19	
Site Diagram	Dates vary	
Pictures	Remediation, liner, and backfill 9/17/18 to 12/27/18	

Request for Closure

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

Cliff Brunson, President, BBC International, Inc.

01/22/2019

State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-3353
Facility ID	
Application ID	

Closure

Closure Report Attachment Checklist: Each of the following	ing 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 phomust be notified 2 days prior to liner inspection)	otos of the liner integrity if applicable (Note: appropriate OCD District office
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 ce may endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or reg	mplete to the best of my knowledge and understand that pursuant to OCD rules ertain release notifications and perform corrective actions for releases which the of a C-141 report by the OCD does not relieve the operator of liability discrete contamination that pose a threat to groundwater, surface water, the of a C-141 report does not relieve the operator of responsibility for egulations. The responsible party acknowledges they must substantially the conditions that existed prior to the release or their final land use in the OCD when reclamation and re-vegetation are complete. Title: Senior HSE Coordinator Date: 1/14/20/9 Telephone: (432) 683-7443
OCD Only	
Received by:	Date:
	arty of liability should their operations have failed to adequately investigate and face water, human health, or the environment nor does not relieve the responsible and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-3774
Facility ID	
Application ID	

Closure

Closure Report Attachment Checklist: Each of the follows	ing 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 ph must be notified 2 days prior to liner inspection)	notos of the liner integrity if applicable (Note: appropriate OCD District office
☐ 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 of may endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or re-	
OCD Only	
Received by:	Date:
	party of liability should their operations have failed to adequately investigate and face water, human health, or the environment nor does not relieve the responsible and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

State of New Mexico Oil Conservation Division

Incident ID		munu
District RP	2RP-4094	
Facility ID		
Application ID		

Closure

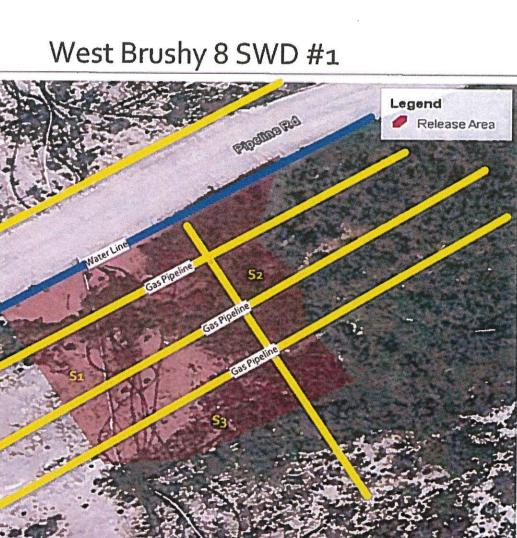
Closure Report Attachment Checklist: Each of the following ite	ems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.11	NMAC
Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a	ediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ions. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
OCD Only	
Received by:	Date:
	f liability should their operations have failed to adequately investigate and ater, human health, or the environment nor does not relieve the responsible regulations.
Closure Approved by:	Date:
Printed Name:	Title:

State of New Mexico Oil Conservation Division

Incident ID	421 3
District RP	2RP-4240
Facility ID	
Application ID	

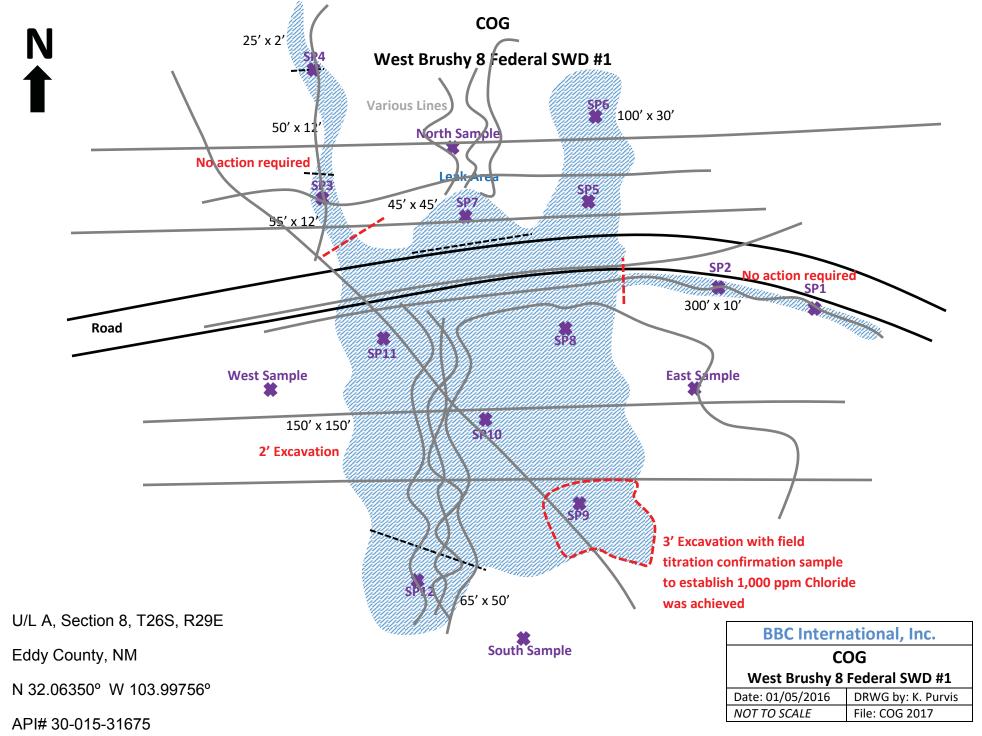
Closure

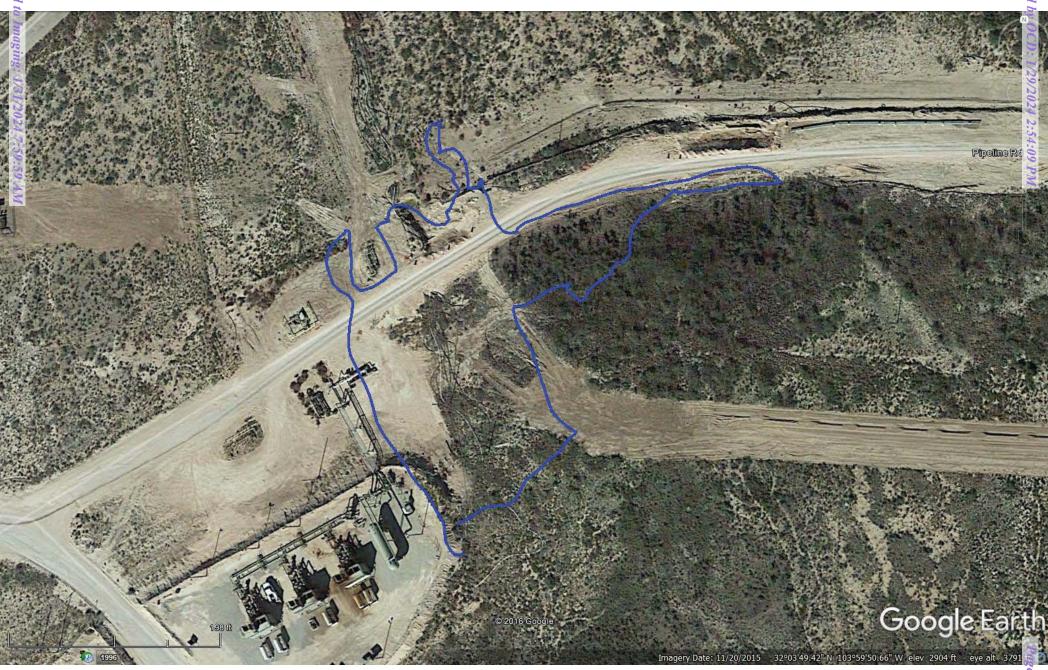
A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities	
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	E.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rule and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Rebecca Haskell Title: Senior HSE Coordinator Date: 1/14/19 Telephone: (432) 683-7443	s
OCD Only	\dashv
Received by: Date:	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate as remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	
Closure Approved by: Date:	
Printed Name: Title:	

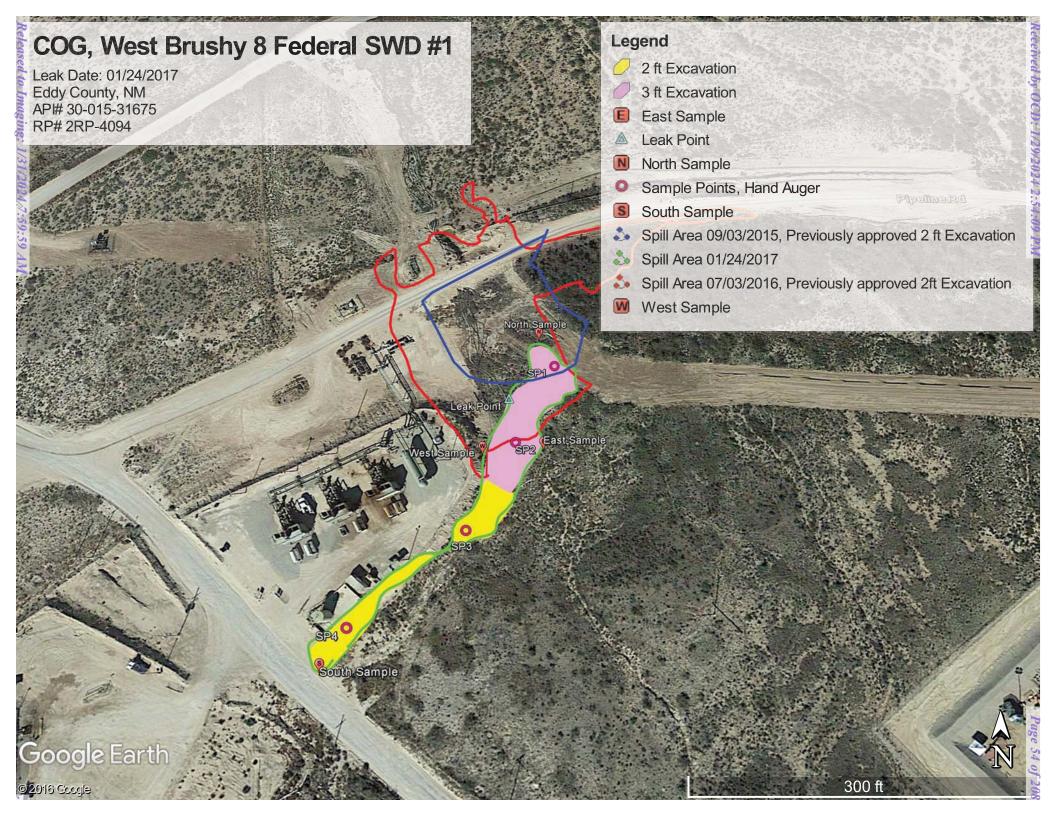


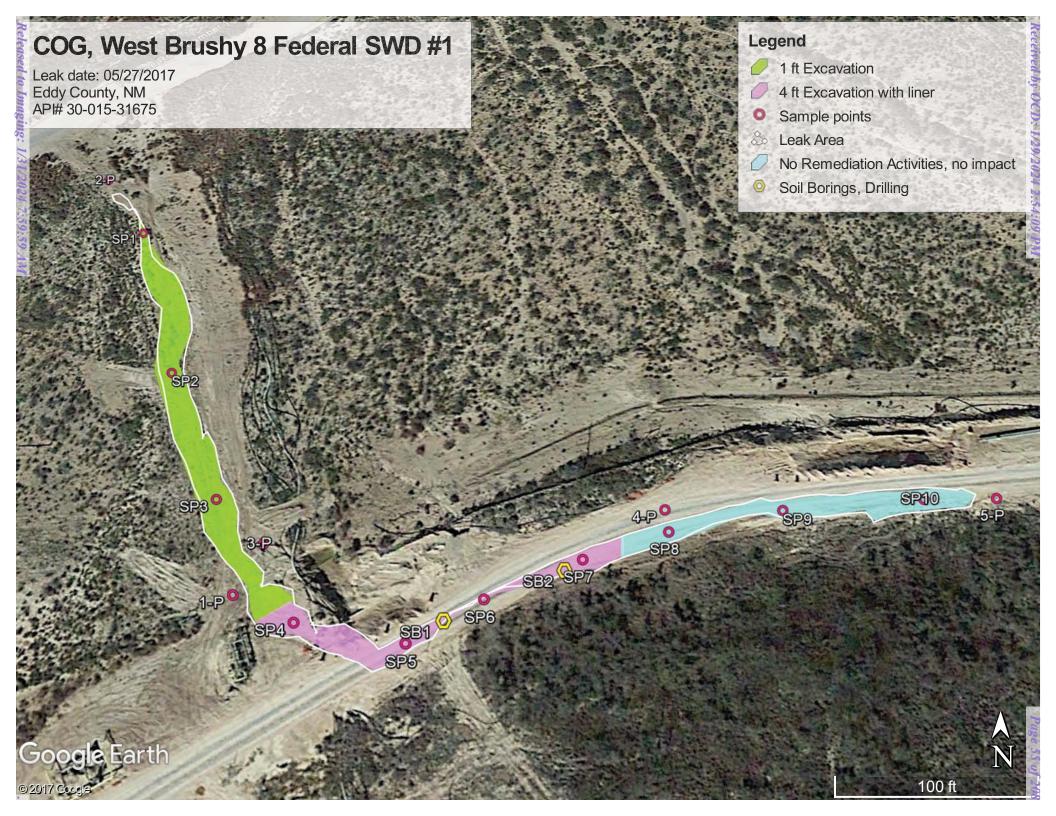


eceived by OCD: 1/29/2024 2:54:09 PM



























Released to Imaging: 1/31/2024 7:59:59 AM















Page 59 of 208



Released to Imaging: 1/31/2024 7:59:59 AM















Released to Imaging: 1/31/2024 7:59:59 AM









Page 62 of 208

APPENDIX D Site Characterization Data

OCD - Land Ownership



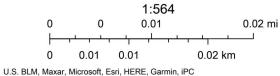
9/26/2023, 10:14:09 AM

Mineral Ownership

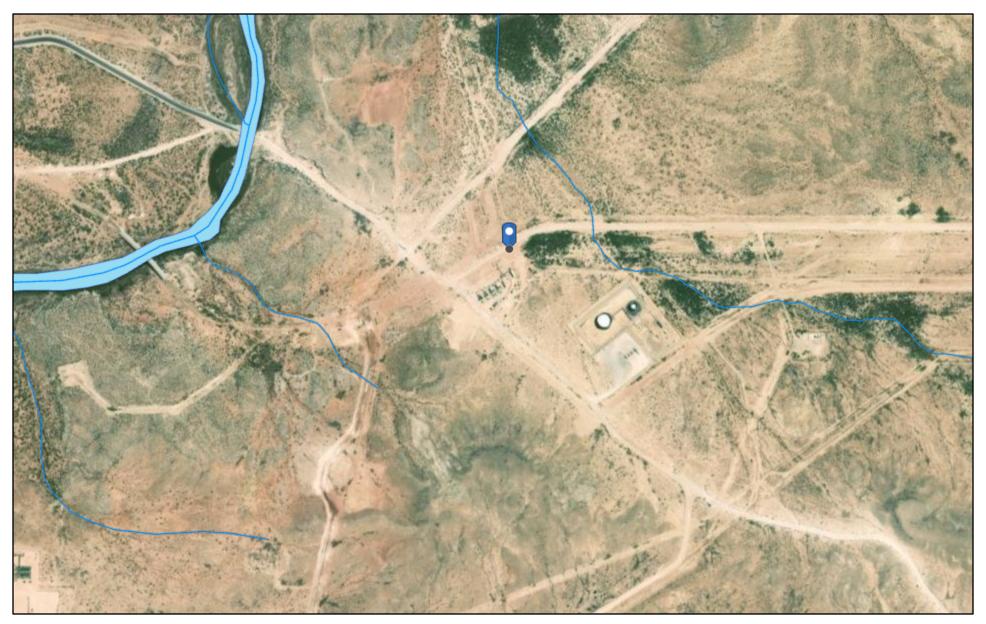
A-All minerals are owned by U.S.

Land Ownership

BLM



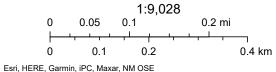
OCD Waterbodies



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

OSW Water Bodys

OSE Streams



New Mexico Oil Conservation Division

OReleas&a To Imaging: 1/31/2024 999:59 AM

Received by OCD: 1/29/2024 2:54:69,PM National Flood Hazard Layer FIRMette





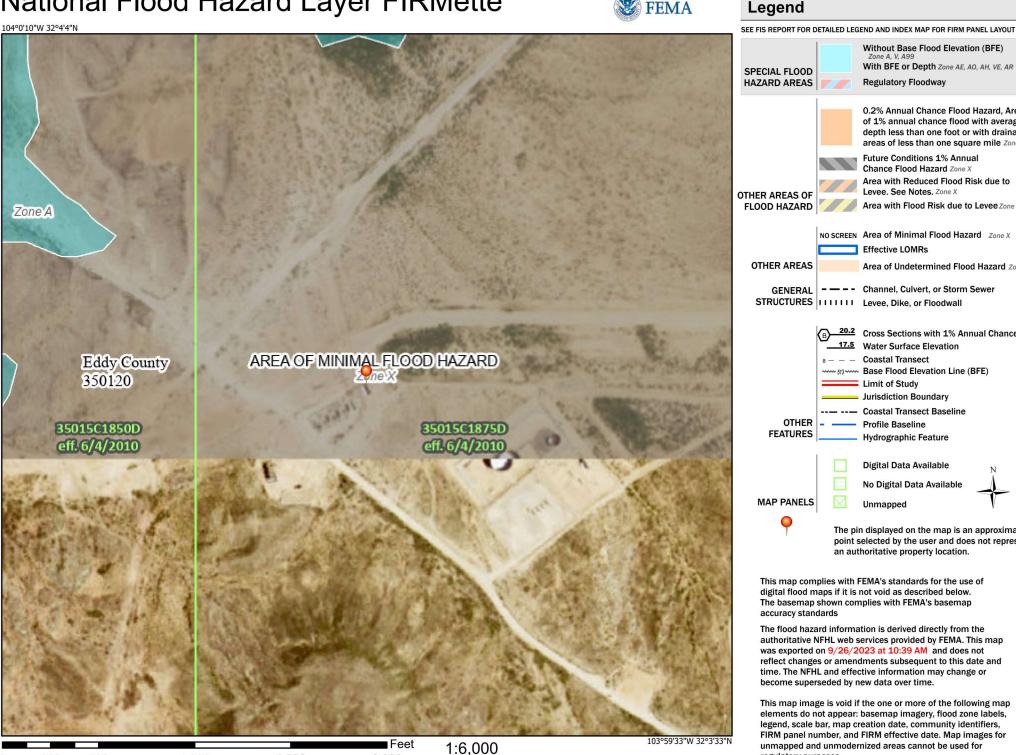
Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS **Regulatory Floodway** 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 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

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

an authoritative property location.

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.



2,000

1,500

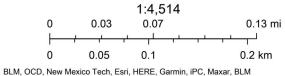
OCD - Karst Areas



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

closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

	POD Sub-		Q	Q (Q.						Depth	Depth	Water
POD Number	Code basin	County	y 64	16	4 Sec	Tws	Rng	X	Υ	Distance	Well	Water	Column
C 03507 POD1	С	ED	1	3	3 05	26S	29E	593064	3548313 🌕	1611	140	78	62
C 03508 POD1	С	ED	1	3	3 05	268	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 E Photographic Documentation



TETRA TECH, INC. PROJECT NO. 212C-MD-02997a	DESCRIPTION	View northwest of open excavation in vicinity of SP4 in ROW north of lease road.	1
	SITE NAME	WEST BRUSHY 8 FEDERAL SWD #001 Release nAB1715742101	10/8/2018



TETRA TECH, INC. PROJECT NO. 212C-MD-02997a	DESCRIPTION	View north of open excavation in vicinity of SP4 in ROW north of lease road.	2
	SITE NAME	WEST BRUSHY 8 FEDERAL SWD #001 Release nAB1715742101	10/17/2018



TETRA TECH, INC. PROJECT NO. 212C-MD-02997a	DESCRIPTION	View west of open excavation in vicinity of SP4. Trunkline and riser.	3
	SITE NAME	WEST BRUSHY 8 FEDERAL SWD #001 Release nAB1715742101	10/17/2018



TETRA TECH, INC. PROJECT NO. 212C-MD-02997a	DESCRIPTION	View west of open excavation in vicinity of SB1.	4
	SITE NAME	WEST BRUSHY 8 FEDERAL SWD #001 Release nAB1715742101	Unknown 2018



TETRA TECH, INC. PROJECT NO. 212C-MD-02997a	DESCRIPTION	View east of open excavation of approximately 4 feet with liner feet in vicinity of SB1.	5
	SITE NAME	WEST BRUSHY 8 FEDERAL SWD #001 Release nAB1715742101	Unknown 2018



TETRA TECH, INC. PROJECT NO. 212C-MD-02997a	DESCRIPTION	View east of backfilled area with liner in vicinity of SB1.	6
	SITE NAME	WEST BRUSHY 8 FEDERAL SWD #001 Release nAB1715742101	12/27/2018



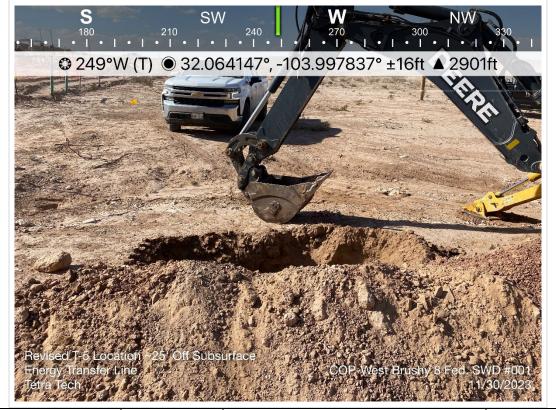
TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View south-southeast of 2023 site conditions. Surface polylines and pasture area in vicinity of SP1.	7
212C-MD-02997a	SITE NAME	WEST BRUSHY 8 FEDERAL SWD #001 Release nAB1715742101	8/9/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View south-southeast of 2023 site conditions. Drainage feature in pasture in vicinity of T-24-3.	8
212C-MD-02997a	SITE NAME	WEST BRUSHY 8 FEDERAL SWD #001 Release nAB1715742101	8/9/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View northeast of previously lined and backfilled area in vicinity of AH-23-11. Vegetation growth present.	9
212C-MD-02997a	SITE NAME	WEST BRUSHY 8 FEDERAL SWD #001 Release nAB1715742101	9/22/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View west-southwest of additional 2023 site assessment activities. Revised T-5 location 25 feet off subsurface Energy Transfer Line.	10
212C-MD-02997a	SITE NAME	WEST BRUSHY 8 FEDERAL SWD #001 Release nAB1715742101	11/30/2023

APPENDIX F Laboratory Analytical Reports



September 27, 2023

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 09/22/23 12:47.

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

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

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

A .. . l. d D. .. MC

Project Location: COP EDDY COUNTY, NM

Sample ID: AH - 23 - 1 (0-1') (H235170-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83	
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/25/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	222	111	200	0.390	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	216	108	200	1.43	
EXT DRO >C28-C36	19.1	10.0	09/23/2023	ND					
Surrogate: 1-Chlorooctane	87.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.1	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

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

Project Location: COP EDDY COUNTY, NM

Sample ID: AH - 23 - 2 (0-1') (H235170-02)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83	
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	09/25/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					
Surrogate: 1-Chlorooctane	81.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.3	% 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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

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

Project Location: COP EDDY COUNTY, NM

Sample ID: AH - 23 - 2 (2'-3') (H235170-03)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83	
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 :	% 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	2080	16.0	09/25/2023	ND	432	108	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	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	27.5	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					
Surrogate: 1-Chlorooctane	84.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.1	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

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

Analyzed By: MS

Project Location: COP EDDY COUNTY, NM

mg/kg

Sample ID: AH - 23 - 3 (0-1') (H235170-04)

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	09/25/2023	ND	1.83	91.5	2.00	4.83	
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/25/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					
Surrogate: 1-Chlorooctane	76.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.3	% 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

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

Project Location: COP EDDY COUNTY, NM

Sample ID: AH - 23 - 4 (0-1') (H235170-05)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83	
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/25/2023	ND	432	108	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	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					
Surrogate: 1-Chlorooctane	80.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.8	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

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

Analyzed By: MC

Project Location: COP EDDY COUNTY, NM

Sample ID: AH - 23 - 5 (0-1') (H235170-06)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83	
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	928	16.0	09/25/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					
Surrogate: 1-Chlorooctane	80.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celeg & Freene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

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

Project Location: COP EDDY COUNTY, NM

Sample ID: AH - 23 - 5 (2'-3') (H235170-07)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83	
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	3760	16.0	09/25/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					
Surrogate: 1-Chlorooctane	84.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.7	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

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

Analyzed By: MS

Project Location: COP EDDY COUNTY, NM

mg/kg

Sample ID: AH - 23 - 6 (0-1') (H235170-08)

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	09/25/2023	ND	1.83	91.5	2.00	4.83	
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/25/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					
Surrogate: 1-Chlorooctane	77.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.8	% 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. Keens



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

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

Project Location: COP EDDY COUNTY, NM

Sample ID: AH - 23 - 7 (0-1') (H235170-09)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83	
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49	
Total BTEX	<0.300	0.300	09/25/2023	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	48.0	16.0	09/25/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					
Surrogate: 1-Chlorooctane	86.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.6	% 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

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

Project Location: COP EDDY COUNTY, NM

Sample ID: AH - 23 - 8 (0-1') (H235170-10)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83	
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49	
Total BTEX	<0.300	0.300	09/25/2023	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	2000	16.0	09/25/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	43.1	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					
Surrogate: 1-Chlorooctane	81.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.7	% 49.1-14	18						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

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

Project Location: COP EDDY COUNTY, NM

Sample ID: AH - 23 - 8 (2'-3') (H235170-11)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83	
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	2400	16.0	09/25/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					
Surrogate: 1-Chlorooctane	83.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.8	% 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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

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

Analyzed By: MC

Project Location: COP EDDY COUNTY, NM

Sample ID: AH - 23 - 8 (3'-4') (H235170-12)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83	
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	09/25/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					
Surrogate: 1-Chlorooctane	82.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.3	% 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. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

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

Project Location: COP EDDY COUNTY, NM

Sample ID: AH - 23 - 9 (0-1') (H235170-13)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83	
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49	
Total BTEX	<0.300	0.300	09/25/2023	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	144	16.0	09/25/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					
Surrogate: 1-Chlorooctane	76.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.3	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

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

Project Location: COP EDDY COUNTY, NM

Sample ID: AH - 23 - 10 (0-1') (H235170-14)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83	
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	320	16.0	09/25/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					
Surrogate: 1-Chlorooctane	82.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

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

Project Location: COP EDDY COUNTY, NM

Sample ID: AH - 23 - 11 (0-1') (H235170-15)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83	
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	80.0	16.0	09/25/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					
Surrogate: 1-Chlorooctane	82.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

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

Project Location: COP EDDY COUNTY, NM

Sample ID: AH - 23 - 11 (2'-3') (H235170-16)

BTEX 8021B	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83	
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/25/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					
Surrogate: 1-Chlorooctane	79.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.5	% 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 whatsoever 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. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

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

Project Location: COP EDDY COUNTY, NM

Sample ID: AH - 23 - 12 (0-1') (H235170-17)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83	
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33	
Ethylbenzene*	< 0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	240	16.0	09/25/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					
Surrogate: 1-Chlorooctane	79.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.1	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

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

Project Location: COP EDDY COUNTY, NM

Sample ID: AH - 23 - 13 (0-1') (H235170-18)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83	
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49	
Total BTEX	<0.300	0.300	09/25/2023	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	48.0	16.0	09/25/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					
Surrogate: 1-Chlorooctane	83.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.7	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

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

Project Location: COP EDDY COUNTY, NM

Sample ID: AH - 23 - 14 (0-1') (H235170-19)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83	
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/25/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					
Surrogate: 1-Chlorooctane	82.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.4	% 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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

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

Analyzed By: MC

Project Location: COP EDDY COUNTY, NM

Sample ID: AH - 23 - 14 (2'-3') (H235170-20)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83	
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/25/2023	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					
Surrogate: 1-Chlorooctane	84.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.1	% 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. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

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

Project Location: COP EDDY COUNTY, NM

Sample ID: AH - 23 - 15 (0-1') (H235170-21)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.95	97.5	2.00	4.14	
Toluene*	<0.050	0.050	09/25/2023	ND	2.05	102	2.00	5.37	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	2.20	110	2.00	4.94	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	6.00	100	6.00	5.19	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	09/25/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					
Surrogate: 1-Chlorooctane	85.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.0	% 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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



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

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.

Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

L	No No Corrected Temp. °C		ter ID #140 Factor 0°C	Thermometer ID #140 Correction Factor 0°C	三年	Yes	No C	V	Corrected Temp. °C	Bus - Other:	Sampler - UPS -
_	Cool Intact Observed Temp. °C	Rush	3		CHECKED BY:		Sample Condition Cool Intact	28°C	Observed Temp. °C 7.8%	ircle One)	Delivered By: (Circle One)
cell	Bacteria (only) Sample Condition								Time:		
at a	per pate changes per customs	2	s: * San	REMARKS:		h	d By:	Received By:	Date:	i.	Relinquished By:
00,000	All Results are emailed. Please provide Email aduress. Zww. Color	Please provide E	s are emailed.	All Results	\		1	7	1/22/23 Time: 7/23	Die A	Kelinquisned by,
	Add'l Phone #:	□ No Add	sult: Yes	Verbal Result:	n any of the above sta	claim is based upo	ardinal, regardless of whether such a Received By:	Cardinal, regardless of whe Received By:	nce of services hereunder by	ors arising out of or related to the performa	affiliates or successors arisin
			he applicable nes.	ys after completion of the day client, its subsidian	Cardinal within 30 day	ng and received by tions, loss of use, or	whether based in con unless made in writin on, business interrupt	edy for any claim arising whether base shall be deemed waived unless made including without limitation, business in	I client's exclusive remedy for a her cause whatsoever shall be insequental damages, includin	PLEASE NOTE: Liability and Damagés. Cardinal's liability and client's exclusive remote for any claim arising whether lease it not not not not not not not not not no	PLEASE NOTE: Liability an analyses. All claims includir
İ		\	the W	nt paid by the client for	which the amount			*	10-15	44-23-8	Ó
			(35.5					9-1-1	AH-12-17	20
				08:00			-		17-17	1 - C - C - C - C - C - C - C - C - C -	20-
				0,00					3 1 2	4-57-HV	76
	4			\$ -1 \$ \frac{1}{2}					0-1	At-13-4	2
				2.30					(i-0]	AH-23-3	9
				91.15					12-5)	11-23-2	w
		+		90,00	- 1			1	の上い	11,200	٥.
		X	×	38:45	大學		×	-	(1-11)	1-28-HV	
I		C	B	E TIME	-	OTH	WAS SOIL	# CC			
		chl	TI		/ COC	DGE IER : D/BAS	STEW -	AB O		Sample I.D.	Lab I.D.
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ov	E	**	X.			NER	5		10001
		id	8					S			1277 J
		e5	81	SAMPLING		L	MATRIX		70 >	Man Jam	FOR LAB USE ONLY
		4	51			Fax #:			MY hay	T	Project Location:
		5	1		#. ZIP.	olale:	1	MMG	My & Head	Vest Brush	roject Name:
		00			7:5:	City:	Millips	Comoca	2997 A Project Owner: Collaco	C-10-0299	roject #:
					s: Emai	Address:	2.		Fax #:		hone #:
				oloott	am Ru	Attn: 5	3750	Zip: 78	State: TX	7	Sity: AUS+
				teen	y: Tetra	Company:	SuiteB	Hwy	of Texas	1 Capital	Address: 89
				7		P.O. #:			7	De	roject Manager:
1	ANALYSIS REGUES!	ANA			BILL TO				an	Totra to	ompany Name:
١								76	FAX (575) 393-2476	(575) 393-2326 F	

FORM-006 R 3.4 07/11/23

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Sampler - UPS - Bu	Delivered By: (Circle One)		Relinquished By:	Month !	Relinquished By:	PLEASE NOTE: Lability and Damages. Cardinal sinalyses. All claims including those for negligence service. In no event shall Cardinal be liable for inci-	ib	[9]	18	5	6	3	hi	3	7			Lab I.D.	alget	ヿ		roject Location:	roject Name: [W	roject #: 2/26-	hone #:	ity: Austin	ddress: 891	roject Manager:	ompany Name:	(-
Bus - Other:			Commod	No series	ned By:	ose for negligence and any oth all be liable for incidental or cor	1-23-11A	1-23-14	1-81-HA	イルーパール	AH-13-1	44-23-	AH-23-4	AH-23-	AH-23-5	AH-23-4		Sample I.D.			you Ramo	Eddy Cou	est Birush	MD-029971			Capital or	Sam Ab	Tetra Tee	(575) 393-2326 F.
Corrected Temp. °C	Observed Temp. °C 7.8 %	Time:	Date:	7	Date:	cause whatsoever quental damages,	+12-31	61-07	3/0-11)	(- C)	(15-16	7.1.0	6/0-11	(11-01.5	3(3-4)	8(2-3)					051	ownty NM	Ly & Feel "	Project Owner: Cologo	Fax #:	State: TX Z	+ Texpas flu	bott	ý	FAX (575) 393-2476
	3.8.		Received		Rece	eemed wai	aris aris		-				_	-	2200-	-	_	G)RAB OR CONTAIN		Ρ.			SWI	Como		Zib: 77	Y			6
o es	Sample Condition		ived By:	1	Received By:	waived unless made in writin limitation, business interruptions of whether such contact less of white such contact less of whether such contact less of white such conta	arising whether based in contract or fort, shall be									×	V S	ROUNDWA VASTEWAT SOIL DIL		MATRIX			中	co Phillips		8750	suite 2310			
Yes	ndition		1	7		g and recei ons, loss of daim is bas	tract or tort										C	SLUDGE OTHER:			Fax #:	Pho	State:		Add	Attn	Con	P.O.		
3	CHE			J		ved by Cardin use, or loss o		<						-	-	×	Z 10	ACID/BASE CE / COOL DTHER :		PRESERV	#:	Phone #:	e.		Address:	Attn: Sam	Company:	#:	B	
7	CHECKED BY: (Initials)					al within 30 days afte f profits incurred by c f the above stated re-	limited to the amount pak							_	-	Grische	100	DAJE		SAMPLING	1		Zip:	!	man	in Alpho	Tettra, 7		BILL TO	
Thermometer ID #140 Correction Factor 0°C	Turnaround Time:		REMARKS:		Verbal Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address:	completion of the ient, its subsidiar is subsidiar is sons or otherwise.	paid by the client for the	05.t	2.00	08:1	00,1	12.30	611721	3	0.5	51.11		TIME		ING						oft	S			
er ID #1/ Factor 0°	d Time:		*		sult: [ne applicable ies, se.	the	<								X		BT	EX			32	l	B					-	
C 40	T (0		au		☐ Yes ailed. P		4								-	×		TPE			01		M	~ ~					-	
	Standard Rush		Se		□ No lease pro		-				500 Maria (1920)			_		×	1	Chl	ori	d	25)	+	50	В				1	
			Date	Say	Add'I		1									+	1												ANA	
□ Yes	Cool Intact		s cha	am, abbot	Add'I Phone #: e Email addres		İ																						ANALTSIS	
Yes Yes	ntact	in (only)	2	00t-10	88:		-								_	_													TEWOES!	
Correc	Obser	Canal Canal	sed 1	Het			+	+		+	-	-	+		+	+	_							· ·					153	TOT
Corrected Temp. °C	Cool Intact Observed Temp. °C	ondition 4	200	rafec			+				+	+																	1	
p. °C	p. °C	:46	STS.)							-																		
		7/2	ton	-					2																					

FORM-006 R 3.4 07/11/23

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

> Observed Temp. °C Corrected Temp.

Cool Intact
Yes Yes
No No Sample Condition

CHECKED BY:

Turnaround Time:

Standard Rush

Bacteria (only) Sample Condition
Cool Intact Observed Temp.

Yes Yes
No Corrected Temp.

Corrected Temp. °C

Thermometer ID #140 Correction Factor 0°C

FORM-006 R 3.4 07/11/23

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

	(E7E) 202-2226 FAY (E7E) 393-2476	76		
			BILL TO	ANALYSIS REQUEST
coinct Manager:			P.O. #:	
ddress: \$6 N	Car the Stokas	Hur Suite 2310	Company: Tetra Tech	
	X	7	Attn: Sam Abbott	
hone #:	Fax #:		Address: Charai	
roject #: 22	MD-02997A Project Owner: Como Co Phil	0,05	City:	
roject Name: WES	+	1 # CMS	State: Zip:	1
roject Location:	Eldu County, NM		Phone #:	1
Sampler Name:	2		1	60 65
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	30
8788F		ERS ATER		
Lab I.D.	Sample I.D.	G)RAB OR CONTAINI ROUNDW WASTEWAT GOIL DIL SLUDGE	OTHER: ACID/BASE CE/COOL OTHER:	BTE
K	AH-23-15(0-j)	_	X 9/24/33:3:30	×
LEASE NOTE: Liability and nalyses. All claims including	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tord, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waked unless made in writing and received by Cardinal within 30 days after completion of the applicable	ny claim arising whether based in contra deemed waived unless made in writing a	ct or tort, shall be limited to the amount paid by the clier and received by Cardinal within 30 days after completion	It for the of the applicable
ervice. In no event shall Can	service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss or punits and under or years, service. In no event shall Cardinal be liable for incidental or consequental damages, including without initiation, business interruptions, loss of use, or loss or use, or los	g without limitation, business interruptions ardinal, regardless of whether such clair	quental damages, including without limitation, business interruptions, loss of use, or loss or prome shource by common or otherwise of services hereunder by Cardinal, requirdless of whether such claim is based upon any of the above stated reasons or otherwise.	envise. Yes No Add'l Phone #:
Relinquished By:	Date: 17.17.23	Received By:	All Results are	emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMAR	REMARKS: * Sample Date changed per customer
	Time:	•	_	(2) (2) (2)

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

Page 26 of 26



December 06, 2023

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 12/01/23 10:50.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 12/01/2023 Sampling Date: 11/30/2023

Reported: 12/06/2023 Sampling Type: Soil

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

Analyzed By: JH/

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: T - 1 (0-1') (H236457-01)

BTEX 8021B

BIEX GOEIB	9/	119	Andryzo	u 5 y : 5 : 1 ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2023	ND	2.02	101	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.00	100	2.00	0.386	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.00	99.9	2.00	0.250	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	5.90	98.3	6.00	0.317	
Total BTEX	<0.300	0.300	12/04/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 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	304	16.0	12/01/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/01/2023	ND	207	104	200	5.34	
DRO >C10-C28*	<10.0	10.0	12/01/2023	ND	194	97.0	200	7.25	
EXT DRO >C28-C36	<10.0	10.0	12/01/2023	ND					
Surrogate: 1-Chlorooctane	93.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.3	% 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Frence



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 12/01/2023 Sampling Date: 11/30/2023

Reported: 12/06/2023 Sampling Type: Soil

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

Applyzod By: 1H /

Project Location: COP- EDDY COUNTY, NM

Sample ID: T - 5 (0-1') (H236457-02)

RTFY 8021R

BIEX 8021B	mg,	^и кд	Anaiyze	ea By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2023	ND	2.02	101	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.00	100	2.00	0.386	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.00	99.9	2.00	0.250	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	5.90	98.3	6.00	0.317	
Total BTEX	<0.300	0.300	12/04/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/01/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/01/2023	ND	207	104	200	5.34	
DRO >C10-C28*	<10.0	10.0	12/01/2023	ND	194	97.0	200	7.25	
EXT DRO >C28-C36	<10.0	10.0	12/01/2023	ND					
Surrogate: 1-Chlorooctane	87.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.4	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 12/01/2023 Sampling Date: 11/30/2023

Reported: 12/06/2023 Sampling Type: Soil

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

Project Location: COP- EDDY COUNTY, NM

Sample ID: AH-23-16 (0-1') (H236457-03)

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	12/04/2023	ND	2.02	101	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.00	100	2.00	0.386	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.00	99.9	2.00	0.250	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	5.90	98.3	6.00	0.317	
Total BTEX	<0.300	0.300	12/04/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/01/2023	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	12/01/2023	ND	207	104	200	5.34	
DRO >C10-C28*	<10.0	10.0	12/01/2023	ND	194	97.0	200	7.25	
EXT DRO >C28-C36	<10.0	10.0	12/01/2023	ND					
Surrogate: 1-Chlorooctane	79.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.6	% 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 12/01/2023 Sampling Date: 11/30/2023

Reported: 12/06/2023 Sampling Type: Soil

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

Analyzed By: JH/

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: AH-23-17 (0-1') (H236457-04)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	a by. 511/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2023	ND	2.02	101	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.00	100	2.00	0.386	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.00	99.9	2.00	0.250	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	5.90	98.3	6.00	0.317	
Total BTEX	<0.300	0.300	12/04/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 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	192	16.0	12/01/2023	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	12/01/2023	ND	207	104	200	5.34	
DRO >C10-C28*	<10.0	10.0	12/01/2023	ND	194	97.0	200	7.25	
EXT DRO >C28-C36	<10.0	10.0	12/01/2023	ND					
Surrogate: 1-Chlorooctane	95.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.1	% 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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

Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

		BILL TO		ANALYSIS REQUEST	
r loject manager: Sam Abbott		P.O. #:			
Address: 8911 Capital o Texas Hwy, Suite 2310	310	Company: Tetra Tech			
City: Austin	State: TX Zip:	Attn: Sam Abbott			
Phone #: (512)565-0190 Fax #:	#:	Address: EMAIL		direction of the second	
Project #: 212C-MD-02997A Pro	Project Owner: ConocoPhillips	City:			
Project Name: West Brushy 8 Federal SWD #001		State: Zip:	В		
Project Location: Eddy County, New Mexico		Phone #:	I-1		
Sampler Name: Colton Bickerstaff		Fax #:	000		
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING			
Sample ID	(C)OMP. ERS		015M 8021B		
3	RAB OF	COOL	EX		
けんしゅつ5/	# C GRO WAS SOII		вт		
1-1 (0-1')	G 1 X	. 1	×		
	G 1 X	X 11/30/2023			
AH-23-16 (0-1')	G 1 X	X 11/30/2023	X X X		
4 AH-23-17 (0-1')	G 1 X	X 11/30/2023	X X X		
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive renewnt shall Cardinal be liable for incidental or consequental damages, includinal fillates or successors arising out of or related to the performance of services.	PLEASE FOTE: Labily and Changes, Cardiod's labely and clerifs exclaine reneal for any daim arising whether based informated or for, shall be limited to the amount paid by the clerif for the analyses. All or event shall Cardinal be liable for incidental or consequental damages, including without implace, business effections, based one or based profits incurred by clerif, its subsidiaries. affiliates or ouccessors arising out of or reliated to the proformous of survivors and reliable for the profits of the proformous of survivors and the profits of the proformous of survivors of survivors and the profits of the proformous of survivors of survivors and the profits of the proformous of survivors of survivors and the profits of the proformous of survivors of survivors and the profits of the proformous of survivors of survivors and the profits of the proformous of survivors of survivors of survivors and the profits of survivors of s	and paid by the client for the analyses. All claims red by client, its subsidiaries.	including those for negligence and any other cause w	PLEASE ROTE. Liability and lampes, Cardinals liability and client's exclusive remedy for any claim arising whether based in contract or bot, shall be limited to the amount paid by the client for the analyses. At claims including those for negligence and any other cause whatever shall be deemed wieved unless made in whiting and received by Cardinal within 30 days after completion of it analyses. At claims including those for negligence and any other cause whatever shall be deemed wieved unless made in whiting and received by Cardinal within 30 days after completion of it after the completion of the contractions of a limit of the professions of a few forms the monthly of the professions of a few forms the monthly of the professions of a few forms the monthly of the professions of a few forms the monthly of the professions of a few forms the monthly of the professions of a few forms the monthly of the professions of a few forms the monthly of the professions of a few forms the monthly of the professions of a few forms the monthly of the professions of a few forms the monthly of the professions of a few forms the monthly of the professions of a few forms the monthly of the professions of a few forms the monthly of the professions of the professions of the professions of the monthly of the professions of the	days after completion of
Relinquished By: Colton Bickerstaff	Date: 12/1/23 Received Rv.	TV.			
look ?	9) Al-	All Results are emailed. Please prov	All Results are emailed. Please provide Email address: Sam.Abbott@tetratech.com	
Relinquished By:	Date: Received By:	27	REMARKS:		
	Time:				
Delivered By: (Circle One) Observation Corr	Observed Temp. °C 4, 30 Sample Condition	CHECKED BY: Tu	Turnaround Time: Standard Bacteria	Bacteria (only) Sample Condition	
	N See	·	Thermometer ID *#113 Comment remp. of	_	•
	□ No □ No	000	Correction Factor - 130	□ Yes □ Yes	

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

□ No □ No Corrected Temp. *C



January 09, 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 01/08/24 8:20.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/04/2024

Reported: 01/09/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: T-24-1 (6'-7') (H240058-01)

BTEX 8021B

BIEX GOEED	9/	119	Anaryzo	a 2 y : 3 : 1					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	1.90	94.8	2.00	11.6	
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	01/08/2024	ND	448	112	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	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	130	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/04/2024

Reported: 01/09/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: T-24-2 (5'-5.5') (H240058-02)

BTEX 8021B

DILX GOZID	11197	, kg	Andryzo	u by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	1.90	94.8	2.00	11.6	
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 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	768	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	122 :	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/04/2024

Reported: 01/09/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: T-24-3 (7'-7.5') (H240058-03)

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	01/08/2024	ND	1.90	94.8	2.00	11.6	
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 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	1140	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	126	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 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 & Keens



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/04/2024

Reported: 01/09/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: T-24-4 (8'-8.5') (H240058-04)

BTEX 8021B

DILX GOZID	1119/	ng .	Allulyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	1.90	94.8	2.00	11.6	
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 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	1380	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	118 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey & Freene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/04/2024

Reported: 01/09/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

Sample ID: T-24-5 (6'-7') (H240058-05)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	1.90	94.8	2.00	11.6	
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 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	800	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	129	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/04/2024

Reported: 01/09/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

Sample ID: T-24-16 (5'-6') (H240058-06)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	1.90	94.8	2.00	11.6	
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 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	1010	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	128	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene

FORM-006 R 3.2 10/07/21

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

Corrected Temp. °C

0.0

Sample Condit

CHECKED BY: (Initials)

lush: YES, 24hr, TAT

ound Time:

Cool Intact

Observed Temp. °C

Relinquished By:

Time 8 26

Received By

Add'l Phone #:
address: Sam.Abbott@tetratech.com AND

REMARKS: 24hr. RUSH TAT

Relinquished By: Colton Bickerstaff



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Lab I.D. Sampler Name: Colton Bickerstaff Project Location: Eddy County, New Mexico Project Name: West Brushy 8 Federal SWD #001 Phone #: City: Austin Project Manager: Sam Abbott Company Name: Tetra Tech Address: 8911 Capital o Texas Hwy, Suite 2310 roject #: T-24-2 (5'-5.5') T-24-16 (5'-6') T-24-5 (6'-7') T-24-4 (8'-8.5') T-24-3 (7'-7.5') T-24-1 (6'-7') 212C-MD-02997A (512)565-0190 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Sample I.D. Fax #: Project Owner: X G G G G G (G)RAB OR (C)OMP Zip: # CONTAINERS GROUNDWATER ConocoPhillips WASTEWATER SLUDGE OTHER: Fax #: State: City. P.O. #: Phone #: Address: EMAIL Attn: Sam Abbott Company: Tetra Tech ACID/BASE ICE / COO OTHER BILL TO analyses. All claims Zip: 1/4/2024 1/4/2024 1/4/2024 1/4/2024 1/4/2024 DATE SAMPLING TIME \times **TPH 8015M** × × × **BTEX 8021B** × Chloride SM4500CI-B ANALYSIS REQUEST

× × RUSH

X

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

9

No No



January 11, 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 01/08/24 8:20.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/04/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: T - 24 - 1 (3'-4') (H240059-01)

BTEX 8021B

BIEX GOEED	9/	119	Anaryzo	u 5 y : 5 : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	1.90	94.8	2.00	11.6	
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 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	1630	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	124	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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: 01/08/2024 Sampling Date: 01/04/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

Sample ID: T - 24 - 1 (5'-6') (H240059-02)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	1.90	94.8	2.00	11.6	
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	01/08/2024	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	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Freene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/04/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: T - 24 - 2 (0-1') (H240059-03)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	1.90	94.8	2.00	11.6	
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4120	16.0	01/08/2024	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	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Freene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/04/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: T - 24 - 2 (2'-3') (H240059-04)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	1.90	94.8	2.00	11.6	
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 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	1700	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	122	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/04/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: T - 24 - 2 (3'-4') (H240059-05)

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	01/08/2024	ND	1.90	94.8	2.00	11.6	
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 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	2440	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	123	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118	% 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/04/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

Sample ID: T - 24 - 3 (3'-4') (H240059-06)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	1.90	94.8	2.00	11.6	
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	01/08/2024	ND	448	112	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	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	128	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 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. Keens



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/04/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: T - 24 - 3 (5'-6') (H240059-07)

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	01/08/2024	ND	1.90	94.8	2.00	11.6	
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 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	3360	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	124	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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: 01/08/2024 Sampling Date: 01/04/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: T - 24 - 3 (6'-7') (H240059-08)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	1.90	94.8	2.00	11.6	
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 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	2400	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	116	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/04/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: T - 24 - 4 (0-1') (H240059-09)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	1.90	94.8	2.00	11.6	
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	01/08/2024	ND	448	112	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	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	99.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.6	% 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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: 01/08/2024 Sampling Date: 01/04/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: T - 24 - 4 (2'-3') (H240059-10)

BTEX 8021B

DILX GOZID	iiig/	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	1.90	94.8	2.00	11.6	
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 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	1550	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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: 01/08/2024 Sampling Date: 01/04/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

Sample ID: T - 24 - 4 (3'-4') (H240059-11)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	1.90	94.8	2.00	11.6	
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 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	3200	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 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. Keens



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/04/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: T - 24 - 4 (5'-6') (H240059-12)

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	01/08/2024	ND	1.90	94.8	2.00	11.6	
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 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	2240	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/04/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

Sample ID: T - 24 - 4 (6'-7') (H240059-13)

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	01/08/2024	ND	2.02	101	2.00	8.54	
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	1150	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	125	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	143	% 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. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/04/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Project Location: COP- EDDY COUNTY, NM

Sample ID: T - 24 - 5 (3'-4') (H240059-14)

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	01/08/2024	ND	2.02	101	2.00	8.54	
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 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	1140	16.0	01/08/2024	ND	448	112	400	0.00	QM-07
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	114 %	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/04/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Project Location: COP- EDDY COUNTY, NM

Sample ID: T - 24 - 5 (5'-6') (H240059-15)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.54	
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					
Surrogate: 1-Chlorooctane	76.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.4	% 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. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

Sample ID: T - 24 - 6 (0-1') (H240059-16)

BTEX 8021B

				<u> </u>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.54	
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	144	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	211	10.0	01/08/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	124	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	155	% 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

Sample ID: T - 24 - 6 (1'-2') (H240059-17)

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	01/08/2024	ND	2.02	101	2.00	8.54	
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	11.2	10.0	01/08/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	127	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	143	% 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. Kreene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: T - 24 - 7 (0-1') (H240059-18)

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	01/08/2024	ND	2.02	101	2.00	8.54	
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	2000	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	118	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	133	% 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

Sample ID: T - 24 - 7 (2'-3') (H240059-19)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.54	
Toluene*	< 0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68	
Ethylbenzene*	< 0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	4280	16.0	01/08/2024	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	01/09/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					
Surrogate: 1-Chlorooctane	88.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.2	% 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. Kreene



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: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Project Location: COP- EDDY COUNTY, NM

Sample ID: T - 24 - 7 (3'-4') (H240059-20)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.54	
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22	GC-NC
Total Xylenes*	0.271	0.150	01/08/2024	ND	6.11	102	6.00	8.63	GC-NC1
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	176 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	1800	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	21.2	10.0	01/08/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	45.9	10.0	01/08/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	135 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	149	% 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 whatsoever 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. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Project Location: COP- EDDY COUNTY, NM

Sample ID: T - 24 - 7 (5'-6') (H240059-21)

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	01/08/2024	ND	2.02	101	2.00	8.54	
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/08/2024	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	01/08/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	112 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever 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. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Project Location: COP- EDDY COUNTY, NM

Sample ID: T - 24 - 7 (6'-7') (H240059-22)

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	01/08/2024	ND	2.02	101	2.00	8.54	
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/08/2024	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	01/08/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	128	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	144	% 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 & Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: Sampling Type: Soil 01/11/2024

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

Project Location: COP- EDDY COUNTY, NM

Sample ID: T - 24 - 8 (0-1') (H240059-23)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.54	
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 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	496	16.0	01/08/2024	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	01/09/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					
Surrogate: 1-Chlorooctane	70.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	69.7	% 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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: Sampling Type: Soil 01/11/2024

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

Project Location: COP- EDDY COUNTY, NM

Sample ID: T - 24 - 8 (2'-3') (H240059-24)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.54	
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 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	464	16.0	01/08/2024	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	01/08/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	118 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	136 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

Sample ID: T - 24 - 8 (3'-4') (H240059-25)

RTFY 8021R

RPD 8.54 8.68 9.22 8.63	Qualifie
8.68 9.22	
9.22	
8.63	
RPD	Qualifie
0.00	
RPD	Qualifie
5.84	
6.44	
_	6.44

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: T - 24 - 9 (0-1') (H240059-26)

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	01/08/2024	ND	2.02	101	2.00	8.54	
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/08/2024	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	01/08/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	124	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	140	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Project Location: COP- EDDY COUNTY, NM

Sample ID: T - 24 - 9 (2'-3') (H240059-27)

BTEX 8021B	mg/	'kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.54	
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					
Surrogate: 1-Chlorooctane	72.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.1	% 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 whatsoever 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. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: T - 24 - 10 (0-1') (H240059-28)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.54	
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 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. Kune



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Project Location: COP- EDDY COUNTY, NM

Sample ID: T - 24 - 10 (2'-3') (H240059-29)

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	01/08/2024	ND	2.02	101	2.00	8.54	
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					
Surrogate: 1-Chlorooctane	72.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: T - 24 - 11 (0-1') (H240059-30)

BTEX 8021B

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.54	
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	01/08/2024	ND	448	112	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	01/08/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	116	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Project Location: COP- EDDY COUNTY, NM

Sample ID: T - 24 - 11 (2'-3') (H240059-31)

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	01/08/2024	ND	2.02	101	2.00	8.54	
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	129	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	148	% 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. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: Sampling Type: Soil 01/11/2024

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

Project Location: COP- EDDY COUNTY, NM

Sample ID: T - 24 - 11 (3'-4') (H240059-32)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.54	
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	123	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	140	% 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 whatsoever 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.

Celeg D. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Analyzed By: 14

Project Location: COP- EDDY COUNTY, NM

Sample ID: T - 24 - 12 (0-1') (H240059-33)

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	01/08/2024	ND	2.06	103	2.00	9.26	
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 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	144	16.0	01/08/2024	ND	448	112	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	01/08/2024	ND	225	113	200	1.77	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	204	102	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	111	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	135	% 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 & Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: T - 24 - 13 (0-1') (H240059-34)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	2.06	103	2.00	9.26	
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	01/08/2024	ND	448	112	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	01/08/2024	ND	225	113	200	1.77	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	204	102	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	134	% 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Analyzed By: 14

Project Location: COP- EDDY COUNTY, NM

Sample ID: T - 24 - 13 (2'-3') (H240059-35)

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	01/08/2024	ND	2.06	103	2.00	9.26	
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	225	113	200	1.77	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	204	102	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	113	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	135	% 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. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Analyzed By: 14

Project Location: COP- EDDY COUNTY, NM

Sample ID: T - 24 - 14 (0-1') (H240059-36)

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	01/08/2024	ND	2.06	103	2.00	9.26	
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	944	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	225	113	200	1.77	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	204	102	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					
Surrogate: 1-Chlorooctane	75.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.8	% 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. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Project Location: COP- EDDY COUNTY, NM

Sample ID: T - 24 - 14 (2'-3') (H240059-37)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	2.06	103	2.00	9.26	
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 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	64.0	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	221	111	200	7.98	QM-07
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	122 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	138 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever 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. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: T - 24 - 15 (0-1') (H240059-38)

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	01/08/2024	ND	2.06	103	2.00	9.26	
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	1470	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	221	111	200	7.98	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Freene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Project Location: COP- EDDY COUNTY, NM

Sample ID: T - 24 - 15 (1'-2') (H240059-39)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	2.06	103	2.00	9.26	
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09	
Ethylbenzene*	< 0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	304	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	221	111	200	7.98	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: T - 24 - 16 (0-1') (H240059-40)

BTEX 8021B

DIEX GOZID	iiig/	, kg	Allulyzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	2.06	103	2.00	9.26	
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	01/08/2024	ND	448	112	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	01/08/2024	ND	221	111	200	7.98	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	125	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	140	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Project Location: COP- EDDY COUNTY, NM

Sample ID: T - 24 - 16 (2'-3') (H240059-41)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	2.06	103	2.00	9.26	
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 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	3240	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	221	111	200	7.98	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	125 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	140 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever 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. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Project Location: COP- EDDY COUNTY, NM

Sample ID: T - 24 - 16 (3'-4') (H240059-42)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	2.06	103	2.00	9.26	
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 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	3040	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	221	111	200	7.98	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					
Surrogate: 1-Chlorooctane	78.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.1	% 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 whatsoever 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.

Celeg D. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: H - 24 - 1 (0-1') (H240059-43)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	2.06	103	2.00	9.26	
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	221	111	200	7.98	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	128	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	144	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: H - 24 - 2 (0-1') (H240059-44)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	2.06	103	2.00	9.26	
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	416	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	221	111	200	7.98	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	119	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: H - 24 - 3 (0-1') (H240059-45)

BTEX 8021B

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	2.06	103	2.00	9.26	
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	01/08/2024	ND	448	112	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	01/08/2024	ND	221	111	200	7.98	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 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. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/08/2024 Sampling Date: 01/05/2024

Reported: 01/11/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

Sample ID: H - 24 - 4 (0-1') (H240059-46)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	2.06	103	2.00	9.26	
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98	
Total BTEX	<0.300	0.300	01/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	96.0	16.0	01/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	221	111	200	7.98	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					
Surrogate: 1-Chlorooctane	94.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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 inclured by client, its subsidiaries, effiliates 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.

Celeg & Freene

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: Relinquished By: Relinquished By: Colton Bickerstaff Sampler Name: Colton Bickerstaff Lab I.D. Project Location: Eddy County, New Mexico 124005 Address: 8911 Capital o Texas Hwy, Suite 2310 Company Name: Tetra Tech Project Manager: Sam Abbott roject Name: West Brushy 8 Federal SWD #001 roject #: hone #: ity: Austin ORM-006 R 3.2 10/07/2 T-24-3 (5'-6') T-24-4 (2'-3') T-24-4 (0-1') T-24-3 (6'-7') T-24-2 (3'-4') T-24-2 (2'-3') T-24-2 (0-1') T-24-1 (5'-6') T-24-3 (3'-4') T-24-1 (3'-4") 212C-MD-02997A (512)565-0190 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Sample I.D. Fax #: Observed Temp. °C Corrected Temp. °C Project Owner: Date: 01/08/24 820 State: X 9 G 9 G G G G G (G)RAB OR (C)OMP Zip: # CONTAINERS Sample Condition
Cool Infact
Pres Pres
No No ConocoPhillips SLUDGE OTHER Fax #: State: City: Phone #: P.O. #: Address: EMAIL Attn: Sam Abbott Company: Tetra Tech ACID/BASE CHECKED BY: (Initials) OTHER BILL TO Zip: 1/4/2024 tlyses. All claims 1/4/2024 1/4/2024 1/4/2024 1/4/2024 1/4/2024 1/4/2024 1/4/2024 1/4/2024 DATE SAMPLING REMARKS: Rush: N/A TIME mometer ID -#443_ection Factor -0,5°C × × × TPH 8015M Cool \times × × × × BTEX 8021B × $\times \times \times \times$ Chloride SM4500CI-B 18/24 Add'l Phone #:
Email address: Sam.Abbott@tetratech.com AND ANALYSIS REQUEST Yes Yes ON ON

Page 49 of 53

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Delivered By: (Circle One) Sampler - UPS - Bus - Other: Relinquished By: Relinquished By: Colton Bickerstaff Sampler Name: Colton Bickerstaff Lab I.D. Project Location: Eddy County, New Mexico Project Name: West Brushy 8 Federal SWD #001 Project #: Company Name: Tetra Tech City: Austin Address: 8911 Capital o Texas Hwy, Suite 2310 hone #: oroject Manager: Sam Abbott FORM-006 R 3.2 10/07/21 T-24-6 (1'-2') T-24-5 (5'-6') T-24-7 (2'-3') T-24-4 (6'-7') T-24-7 (0-1') T-24-4 (3'-4') T-24-7 (3'-4') T-24-6 (0-1") T-24-5 (3'-4') T-24-4 (5'-6') 212C-MD-02997A (512)565-0190 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Sample I.D. Observed Temp. °C
Corrected Temp. °C Fax #: Project Owner: Date: 01/08/24 State: X Received By: 9 G 9 (G)RAB OR (C)OMP G G G 9 9 Zip: # CONTAINERS Sample Condition
Cool Intact
Des Des GROUNDWATER ConocoPhillips SLUDGE State: OTHER: Fax #: City: Phone #: P.O. #: Attn: Sam Abbott Address: EMAIL Company: Tetra Tech ACID/BASE YO. CHECKED BY: (Initials) X ICE / COO OTHER BILL TO Zip: 1/5/2024 1/5/2024 1/5/2024 1/5/2024 1/4/2024 1/4/2024 1/4/2024 1/4/2024 1/4/2024 DATE SAMPLING Perpai Result: ☐ Yes ☐ No ☐ Add'i Phone #:
All Redults are emailed. Please provide Email address: Sam.Abbott@tetratech.com AND
Lebeth.Chavira@tetratech.com REMARKS: Rush: N/A rmometer ID rection Factor TIME ×× \times × TPH 8015M XX × **BTEX 8021B** ved Temp. °C Chloride SM4500CI-B ANALYSIS REQUEST No No

Page 50 of 53

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By: Relinquished By: Colton Bickerstaff Lab I.D. elivered By: (Circle One)
ampler - UPS - Bus - Other: H24005 Sampler Name: Colton Bickerstaff Project Location: Eddy County, New Mexico Project Name: West Brushy 8 Federal SWD #001 roject #: Phone #: Address: 8911 Capital o Texas Hwy, Suite 2310 Project Manager: Sam Abbott Company Name: Tetra Tech T-24-8 (2'-3') T-24-8 (3'-4') T-24-7 (6'-7') T-24-9 (0-1') T-24-11 (0-1') T-24-10 (0-1') T-24-9 (2'-3') T-24-10 (2'-3') T-24-7 (5'-6') T-24-8 (0-1') 212C-MD-02997A (512)565-0190 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Sample I.D. Fax #: Observed Temp. °C Corrected Temp. °C Project Owner: Date: 01/08/24 State: X Received By: Received By G 00 0 9 W 9 00 (G)RAB OR (C)OMP. Zip: # CONTAINERS GROUNDWATER Sample Condition
Cool Intact

Cool Intact

No No ConocoPhillips WASTEWATER SLUDGE City: OTHER: Fax #: State: P.O. #: Phone #: Company: Tetra Tech Attn: Sam Abbott Address: EMAIL ACID/BASE CHECKED BY: ICE / COOL (Initials) OTHER BILL TO Zip: 1/5/2024 1/5/2024 1/5/2024 1/5/2024 1/5/2024 1/5/2024 1/5/2024 DATE Rush: N/A REMARKS: hermometer ID < TIME $\times \times \times \times$ × **TPH 8015M** BTEX 8021B × × Chloride SM4500CI-B ANALYSIS □ Yes□ Yes□ No REQUEST AND

Page 51 of 53

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech		(1,0) 000 000 000 000 000 000 000 000 000	147.0	٥					_	Pi St	100	,		900 900 900 900 900 900 900 900 900 900										100			
Project Manager	Com ALL-11											a	BILL 10					ANA	ANALYSIS REQUEST	SRE	OUF	TS					
Address: 8011 Capital o Tour	Sain Apport								-	P.O. #:	*					1	1				1	4	+				
City: Austin	City: Austin									om	pany	100	Company: Tetra Tech									_	_				
City: Austin		State: TX	Zip:	p:					D	ttn:	San	Ab	Attn: Sam Abbott									_	_				,
Pnone #:	(512)565-0190	Fax#:							D	Address: EMAIL	ess:	EM.	AIL									_	_				_
Project #:	212C-MD-02997A	Project Owner:				ono	COPP	ConocoPhillins	-	City:													_				
Project Name: We	Project Name: West Brushy 8 Federal SWD #001	SWD #001								State:		1	7in:								_		_				
Project Location:	Project Location: Eddy County, New Mexico	exico		1					0	Phone #	#		-ip:				-B						_				-
Sampler Name: Colton Bickerstaff	olton Bickerstaff				1	l			-	3	7.						CI						_				
OR LAB USE ONLY	Olion Dickelstall								П	Fax #:							000										
Lab I.D.					П	11	MATRIX	찅	┨	R	PRESERV.	?	SAM	SAMPLING			150										
	Sample I.D.	.b	(C)OMP	ERS	ATER	ER									15M	8021B	e SM										
1240059			G)RAB O	CONTAI	ROUNDV	ASTEWA	OIL	LUDGE	THER:	CID/BASE	E / COOL	THER :			PH 8	TEX	hlorid	×	, .								
	T-24-11 (2'-3')		9	_ #	G		1	S	+			0	DATE	TIME	T	В	C				Г		\vdash		-		
200	T-24-11 (3'-4')		G	-	T	\dashv	× ;	+	+	T	₹ >		1/2/2024		×	×	×				T		\vdash				
2	T-24-12 (0-1')		G	-	T	\dashv	× ;	+	+	T	₹ Þ	\perp	1/5/2024		×	×	×						-				
-	T-24-13 (0-1')		G	-	\neg	\dashv	×	+	+	T	X :	\perp	1/5/2024		< >	< ×	×		I		T	t	+	L			
357	T-24-13 (2'-3')		G	-		\exists	×	+	\pm		X,	1	1/5/2024		< >	< >	< ×				T	t	\vdash	L	L		
26	T-24-14 (0-1')		G	-			×	\forall			×	4	1/5/2024		< >	< >	< >		I		T	T	+	1	L		
	T-24-14 (2'-3')		G	1			×	\forall			×	_	1/5/2024		×	×	×>				Ť	\dagger	+	1	1		
100	T 24 15 (11-2)		G	-			×				X		1/5/2024		×	×	× ;		1		Ť	+	+	1	1		İ
200	1-24-13 (1-2)		G	1			×				×	_	1/5/2024		×	× ;	< ;		1		Ť	†	\dagger	1	1		
PLEASE NOTE: Liability and Damag	1-24-16 (0-1') nages. Cardinal's liability and client's exclusive remady for any	sive remedy for any claim arising whether	G	1			×	Н			×	Н			×	×	××		1		T	\top	+	+	\perp		
t shall Cardinal be liable for in tes or successors arising ou	ncidental or consequental damages, it of or related to the performance of	event shall Cardinal be lable for incidental or consequential damages, including without limitation leaves are season accessed onto the all beliefs to be amount paid by the index to be a makeyes. All of afficiency or successors arising out of or related to the performance of services hereunder by Cardinal, negardless of whether such claim is based upon any of the above stated resource or otherwise.	interrupt dless of	ontract ions, los whether	s of us	shall be e, or los daim is	limited to as of pro- based u	fits incu	arred by	d by the client, above s	its sub	sidiarie easons	lient for the analyses, All claims to subsidiaries, tated reasons or otherwise,	s including those for negligence and any other cause whatso	egligeno	and any oth	or cause wh	atsoever shal	be deeme	d waived u	inless mad	fe in writin	g and rec	selved by u	Cardinal w	within 30 da	ever shall be deemed waked unless made in writing and received by Cardinal within 30 days after competion of the app
inquished By: C	Relinquished By: Colton Bickerstaff	Date: 01/08/24	Received By:	eived	Ву	1					1			Verbal Result:	□ Yes	Yes □	□ No		Add'l Phone #:	none #:							
		OZ SZ	P			1		1	di	4	M	1	A STATE OF THE STA	All Results are emailed. Please provide Lisbeth.Chavira@tetratech.com	emaile Øtetn	d. Pleas	e provid	e Email a	Email address: Sam.Abbott@tetratech.com AND	: Sam	Abbott	@tetra	tech.c	om Al	P		
Relinquished By:			Received By:	ived	By:				9	4			- Common of the common of the	REMARKS:	1												
vered Ry: (Circle O		Time:											\														
Sampler - UPS - Bus - Other:		Corrected Temp. °C	W	S	C Sa	Sample Cool	Sample Cond	Sample Condition Cool Intact			를 H	ECKED (Initials)	BY:	Turnaround Time:	Standard Cool Int	# 25	Bacteria (only Observed Temp.) Sample Condition								
						No	N				<	'	,	Correction Factor	-0.5°C	HA	. 6	1		Yes Yes	Yes						
FURM-006 R 3.2 10/07/21	8.2 10/07/21			-					-	1	1	l	L			1-	11	3/6	1	C C consessed smile of	1	-	comp. c				_

aboratories ARDINAL

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By: Relinquished By: Colton Bickerstaff Sampler Name: Colton Bickerstaff Project Location: Eddy County, New Mexico Lab I.D. Project Name: West Brushy 8 Federal SWD #001 Project #: liverad By: (Circle One)
mpler - UPS - Bus - Other: Phone #: City: Austin Address: 8911 Capital o Texas Hwy, Suite 2310 Project Manager: Sam Abbott Company Name: Tetra Tech ORM-006 R 3.2 10/07/2 45 H-24-3 (0-1") 43 H-24-1 (0-1') 92 T-24-16 (3'-4") H-24-2 (0-1') T-24-13 (3'-4") H-24-4 (0-1') T-24-16 (2'-3') 212C-MD-02997A (512)565-0190 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Sample I.D. Fax #: Observed Temp. °C Project Owner: Time://820 Date: 01/08/24 State: X Received By: Received 9 G G G G 9 9 (G)RAB OR (C)OMP Zip: # CONTAINERS GROUNDWATER Sample Condition
Cool Intact
Page 12 Page 14 P ConocoPhillips WASTEWATER SLUDGE OTHER: City: Fax #: State: P.O. #: Phone #: Address: EMAIL Attn: Sam Abbott Company: Tetra Tech ACID/BASE · Co CHECKED BY: (Initials) ICE / COO OTHER BILL TO Zip: 1/5/2024 1/5/2024 1/5/2024 1/5/2024 1/5/2024 DATE REMARKS: Please HOLD sample ID T-24-13 (3'-4') | Verbal Result: □ Yes □ No | Add'l Phone #: |All Results are emailed, Please provide Email address: Sam.Abbott@tetrctech.com AND TIME eter ID \times \times | TPH 8015M × **BTEX 8021B** × Chloride SM4500CI-B 18/24 ANALYSIS □ Yes □ Yes □ No REQUEST HOLD

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



January 16, 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 01/11/24 12:10.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/11/2024 Sampling Date: 01/10/2024

Reported: 01/16/2024 Sampling Type: Soil

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

A .. . l. d D. .. 311

Project Location: COP- EDDY COUNTY, NM

Sample ID: BH - 24 - 1 (7'-8') (H240134-01)

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	01/13/2024	ND	2.19	110	2.00	0.774	
Toluene*	<0.050	0.050	01/13/2024	ND	2.15	107	2.00	2.74	
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.23	112	2.00	3.44	
Total Xylenes*	<0.150	0.150	01/13/2024	ND	6.71	112	6.00	3.60	
Total BTEX	<0.300	0.300	01/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	512	16.0	01/12/2024	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	01/12/2024	ND	159	79.4	200	21.7	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	165	82.6	200	20.0	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/11/2024 Sampling Date: 01/10/2024

Reported: 01/16/2024 Sampling Type: Soil

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

Analyzed By: 14

Project Location: COP- EDDY COUNTY, NM

Sample ID: BH - 24 - 1 (8'-9') (H240134-02)

RTFY 8021R

B1EX 8021B	mg,	r Kg	Апануге	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2024	ND	2.19	110	2.00	0.774	
Toluene*	<0.050	0.050	01/13/2024	ND	2.15	107	2.00	2.74	
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.23	112	2.00	3.44	
Total Xylenes*	<0.150	0.150	01/13/2024	ND	6.71	112	6.00	3.60	
Total BTEX	<0.300	0.300	01/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 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	912	16.0	01/12/2024	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	01/12/2024	ND	159	79.4	200	21.7	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	165	82.6	200	20.0	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					
Surrogate: 1-Chlorooctane	92.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 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. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/11/2024 Sampling Date: 01/10/2024

Reported: 01/16/2024 Sampling Type: Soil

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

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

Sample ID: BH - 24 - 1 (9'-10') (H240134-03)

RTFY 8021R

BIEX 8021B	тд/кд		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2024	ND	2.19	110	2.00	0.774	
Toluene*	<0.050	0.050	01/13/2024	ND	2.15	107	2.00	2.74	
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.23	112	2.00	3.44	
Total Xylenes*	<0.150	0.150	01/13/2024	ND	6.71	112	6.00	3.60	
Total BTEX	<0.300	0.300	01/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	1090	16.0	01/12/2024	ND	432	108	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	01/12/2024	ND	159	79.4	200	21.7	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	165	82.6	200	20.0	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					
Surrogate: 1-Chlorooctane	99.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 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. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/11/2024 Sampling Date: 01/10/2024

Reported: Sampling Type: Soil 01/16/2024

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

Project Location: COP- EDDY COUNTY, NM

Sample ID: BH - 24 - 3 (8'-9') (H240134-04)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2024	ND	2.19	110	2.00	0.774	
Toluene*	<0.050	0.050	01/13/2024	ND	2.15	107	2.00	2.74	
Ethylbenzene*	< 0.050	0.050	01/13/2024	ND	2.23	112	2.00	3.44	
Total Xylenes*	<0.150	0.150	01/13/2024	ND	6.71	112	6.00	3.60	
Total BTEX	<0.300	0.300	01/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 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	976	16.0	01/12/2024	ND	432	108	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	01/12/2024	ND	159	79.4	200	21.7	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	165	82.6	200	20.0	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					
Surrogate: 1-Chlorooctane	103 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 %	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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/11/2024 Sampling Date: 01/10/2024

Reported: 01/16/2024 Sampling Type: Soil

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

Project Location: COP- EDDY COUNTY, NM

Sample ID: BH - 24 - 3 (9'-10') (H240134-05)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2024	ND	2.19	110	2.00	0.774	
Toluene*	<0.050	0.050	01/13/2024	ND	2.15	107	2.00	2.74	
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.23	112	2.00	3.44	
Total Xylenes*	<0.150	0.150	01/13/2024	ND	6.71	112	6.00	3.60	
Total BTEX	<0.300	0.300	01/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 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	768	16.0	01/12/2024	ND	432	108	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	01/12/2024	ND	159	79.4	200	21.7	
DRO >C10-C28*	90.7	10.0	01/12/2024	ND	165	82.6	200	20.0	
EXT DRO >C28-C36	98.1	10.0	01/12/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/11/2024 Sampling Date: 01/10/2024

Reported: 01/16/2024 Sampling Type: Soil

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

Project Location: COP- EDDY COUNTY, NM

Sample ID: BH - 24 - 3 (10'-11') (H240134-06)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2024	ND	2.19	110	2.00	0.774	
Toluene*	<0.050	0.050	01/13/2024	ND	2.15	107	2.00	2.74	
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.23	112	2.00	3.44	
Total Xylenes*	<0.150	0.150	01/13/2024	ND	6.71	112	6.00	3.60	
Total BTEX	<0.300	0.300	01/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	656	16.0	01/12/2024	ND	432	108	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	01/12/2024	ND	159	79.4	200	21.7	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	165	82.6	200	20.0	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					
Surrogate: 1-Chlorooctane	94.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.6	% 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. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/11/2024 Sampling Date: 01/10/2024

Reported: 01/16/2024 Sampling Type: Soil

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

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

Sample ID: BH - 24 - 4 (9'-10') (H240134-07)

RTFY 8021R

тд/кд		Analyzed By: JH						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	01/12/2024	ND	2.36	118	2.00	2.92	
<0.050	0.050	01/12/2024	ND	2.23	111	2.00	4.00	
<0.050	0.050	01/12/2024	ND	2.34	117	2.00	2.87	
<0.150	0.150	01/12/2024	ND	7.01	117	6.00	2.57	
<0.300	0.300	01/12/2024	ND					
111 9	% 71.5-13	4						
mg/	/kg	Analyzed By: CT						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1120	16.0	01/12/2024	ND	448	112	400	0.00	
mg/	/kg	Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	01/12/2024	ND	159	79.4	200	21.7	
<10.0	10.0	01/12/2024	ND	165	82.6	200	20.0	
<10.0	10.0	01/12/2024	ND					
83.0	% 48.2-13	4						
88.7	% 49.1-14	8						
	<0.050 <0.050 <0.050 <0.150 <0.300 111 9 mg/ Result 1120 mg/ Result <10.0 <10.0 <83.0	<0.050 <0.050 <0.050 <0.050 <0.050 <0.150 <0.300 0.300 111 % 71.5-13 mg/kg Result Reporting Limit 1120 16.0 mg/kg Result Reporting Limit 11.5-13 10.0 10.0 <10.0 <10.0 <10.0 <10.0 <48.2-13	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/11/2024 Sampling Date: 01/10/2024

Reported: 01/16/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: BH - 24 - 4 (10'-11') (H240134-08)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2024	ND	2.36	118	2.00	2.92	
Toluene*	<0.050	0.050	01/12/2024	ND	2.23	111	2.00	4.00	
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.34	117	2.00	2.87	
Total Xylenes*	<0.150	0.150	01/12/2024	ND	7.01	117	6.00	2.57	
Total BTEX	<0.300	0.300	01/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 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	608	16.0	01/12/2024	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	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					
Surrogate: 1-Chlorooctane	80.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.2	% 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/11/2024 Sampling Date: 01/10/2024

Reported: Sampling Type: Soil 01/16/2024

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

Project Location: COP- EDDY COUNTY, NM

Sample ID: BH - 24 - 11 (4'-5') (H240134-09)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2024	ND	2.36	118	2.00	2.92	
Toluene*	<0.050	0.050	01/13/2024	ND	2.23	111	2.00	4.00	
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.34	117	2.00	2.87	
Total Xylenes*	<0.150	0.150	01/13/2024	ND	7.01	117	6.00	2.57	
Total BTEX	<0.300	0.300	01/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 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	1710	16.0	01/12/2024	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	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					
Surrogate: 1-Chlorooctane	91.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.3	% 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 whatsoever 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.

Celeg D. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/11/2024 Sampling Date: 01/10/2024

Reported: 01/16/2024 Sampling Type: Soil

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

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

Sample ID: BH - 24 - 11 (5'-6') (H240134-10)

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	01/13/2024	ND	2.36	118	2.00	2.92	
Toluene*	<0.050	0.050	01/13/2024	ND	2.23	111	2.00	4.00	
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.34	117	2.00	2.87	
Total Xylenes*	<0.150	0.150	01/13/2024	ND	7.01	117	6.00	2.57	
Total BTEX	<0.300	0.300	01/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 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	1460	16.0	01/12/2024	ND	448	112	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	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					
Surrogate: 1-Chlorooctane	89.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.0	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/11/2024 Sampling Date: 01/10/2024

Reported: 01/16/2024 Sampling Type: Soil

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

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

Sample ID: BH - 24 - 11 (6'-7') (H240134-11)

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	01/13/2024	ND	2.36	118	2.00	2.92	
Toluene*	<0.050	0.050	01/13/2024	ND	2.23	111	2.00	4.00	
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.34	117	2.00	2.87	
Total Xylenes*	<0.150	0.150	01/13/2024	ND	7.01	117	6.00	2.57	
Total BTEX	<0.300	0.300	01/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 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	1250	16.0	01/12/2024	ND	448	112	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	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					
Surrogate: 1-Chlorooctane	86.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.5	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/11/2024 Sampling Date: 01/10/2024

Reported: 01/16/2024 Sampling Type: Soil

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

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

Sample ID: BH - 24 - 11 (8'-9') (H240134-12)

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	01/13/2024	ND	2.36	118	2.00	2.92	
Toluene*	<0.050	0.050	01/13/2024	ND	2.23	111	2.00	4.00	
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.34	117	2.00	2.87	
Total Xylenes*	<0.150	0.150	01/13/2024	ND	7.01	117	6.00	2.57	
Total BTEX	<0.300	0.300	01/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 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	1070	16.0	01/12/2024	ND	448	112	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	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					
Surrogate: 1-Chlorooctane	91.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.8	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/11/2024 Sampling Date: 01/10/2024

Reported: 01/16/2024 Sampling Type: Soil

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

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

Sample ID: BH - 24 - 15 (2'-3') (H240134-13)

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	01/13/2024	ND	2.36	118	2.00	2.92	
Toluene*	<0.050	0.050	01/13/2024	ND	2.23	111	2.00	4.00	
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.34	117	2.00	2.87	
Total Xylenes*	<0.150	0.150	01/13/2024	ND	7.01	117	6.00	2.57	
Total BTEX	<0.300	0.300	01/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 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	272	16.0	01/12/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					
Surrogate: 1-Chlorooctane	88.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.7	% 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 & Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/11/2024 Sampling Date: 01/10/2024

Reported: Sampling Type: Soil 01/16/2024

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

Project Location: COP- EDDY COUNTY, NM

Sample ID: BH - 24 - 15 (3'-4') (H240134-14)

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	01/13/2024	ND	2.36	118	2.00	2.92	
Toluene*	<0.050	0.050	01/13/2024	ND	2.23	111	2.00	4.00	
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.34	117	2.00	2.87	
Total Xylenes*	<0.150	0.150	01/13/2024	ND	7.01	117	6.00	2.57	
Total BTEX	<0.300	0.300	01/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 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	416	16.0	01/12/2024	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					
Surrogate: 1-Chlorooctane	86.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.3	% 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 whatsoever 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.

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: 01/11/2024 Sampling Date: 01/10/2024

Reported: 01/16/2024 Sampling Type: Soil

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

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

Sample ID: BH - 24 - 15 (5'-6') (H240134-15)

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	01/13/2024	ND	2.36	118	2.00	2.92	
Toluene*	<0.050	0.050	01/13/2024	ND	2.23	111	2.00	4.00	
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.34	117	2.00	2.87	
Total Xylenes*	<0.150	0.150	01/13/2024	ND	7.01	117	6.00	2.57	
Total BTEX	<0.300	0.300	01/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	288	16.0	01/12/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					
Surrogate: 1-Chlorooctane	87.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/11/2024 Sampling Date: 01/10/2024

Reported: Sampling Type: Soil 01/16/2024

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

Project Location: COP- EDDY COUNTY, NM

Sample ID: BH - 24 - 15 (6'-7') (H240134-16)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2024	ND	2.36	118	2.00	2.92	
Toluene*	<0.050	0.050	01/13/2024	ND	2.23	111	2.00	4.00	
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.34	117	2.00	2.87	
Total Xylenes*	<0.150	0.150	01/13/2024	ND	7.01	117	6.00	2.57	
Total BTEX	<0.300	0.300	01/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	352	16.0	01/12/2024	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					
Surrogate: 1-Chlorooctane	79.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.3	% 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 whatsoever 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.

Celeg D. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/11/2024 Sampling Date: 01/10/2024

Reported: 01/16/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: BH - 24 - 16 (6'-7') (H240134-17)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2024	ND	2.36	118	2.00	2.92	
Toluene*	<0.050	0.050	01/13/2024	ND	2.23	111	2.00	4.00	
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.34	117	2.00	2.87	
Total Xylenes*	<0.150	0.150	01/13/2024	ND	7.01	117	6.00	2.57	
Total BTEX	<0.300	0.300	01/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 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	1090	16.0	01/12/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					
Surrogate: 1-Chlorooctane	88.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.6	% 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. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/11/2024 Sampling Date: 01/10/2024

Reported: Sampling Type: Soil 01/16/2024

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

Project Location: COP- EDDY COUNTY, NM

Sample ID: BH - 24 - 16 (7'-8') (H240134-18)

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	01/13/2024	ND	2.36	118	2.00	2.92	
Toluene*	<0.050	0.050	01/13/2024	ND	2.23	111	2.00	4.00	
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.34	117	2.00	2.87	
Total Xylenes*	<0.150	0.150	01/13/2024	ND	7.01	117	6.00	2.57	
Total BTEX	<0.300	0.300	01/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 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	1010	16.0	01/12/2024	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					
Surrogate: 1-Chlorooctane	86.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever 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.

Celeg D. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/11/2024 Sampling Date: 01/10/2024

Reported: Sampling Type: Soil 01/16/2024

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

Project Location: COP- EDDY COUNTY, NM

Sample ID: BH - 24 - 16 (8'-9') (H240134-19)

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	01/12/2024	ND	2.21	111	2.00	3.10	
Toluene*	<0.050	0.050	01/12/2024	ND	2.21	111	2.00	3.16	
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.21	110	2.00	3.58	
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.45	107	6.00	3.37	
Total BTEX	<0.300	0.300	01/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 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	1020	16.0	01/12/2024	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					
Surrogate: 1-Chlorooctane	86.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.4	% 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 whatsoever 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.

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: 01/11/2024 Sampling Date: 01/10/2024

Reported: 01/16/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: BH - 24 - 16 (9'-10') (H240134-20)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2024	ND	2.21	111	2.00	3.10	
Toluene*	<0.050	0.050	01/12/2024	ND	2.21	111	2.00	3.16	
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.21	110	2.00	3.58	
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.45	107	6.00	3.37	
Total BTEX	<0.300	0.300	01/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 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	896	16.0	01/12/2024	ND	448	112	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	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					
Surrogate: 1-Chlorooctane	90.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.5	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/11/2024 Sampling Date: 01/10/2024

Reported: 01/16/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: BH - 24 - 16 (14'-15') (H240134-21)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2024	ND	2.21	111	2.00	3.10	
Toluene*	<0.050	0.050	01/12/2024	ND	2.21	111	2.00	3.16	
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.21	110	2.00	3.58	
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.45	107	6.00	3.37	
Total BTEX	<0.300	0.300	01/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3 %	% 71.5-13 ₋	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	01/12/2024	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					
Surrogate: 1-Chlorooctane	91.0 9	48.2-13-	4						
Surrogate: 1-Chlorooctadecane	92.7 9	49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/11/2024 Sampling Date: 01/10/2024

Reported: 01/16/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: H - 24 - 5 (0-1') (H240134-22)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2024	ND	2.21	111	2.00	3.10	
Toluene*	<0.050	0.050	01/12/2024	ND	2.21	111	2.00	3.16	
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.21	110	2.00	3.58	
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.45	107	6.00	3.37	
Total BTEX	<0.300	0.300	01/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 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	48.0	16.0	01/12/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					
Surrogate: 1-Chlorooctane	75.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.2	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/11/2024 Sampling Date: 01/10/2024

Reported: 01/16/2024 Sampling Type: Soil

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

Sample ID: H - 24 - 6 (0-1') (H240134-23)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2024	ND	2.21	111	2.00	3.10	
Toluene*	<0.050	0.050	01/13/2024	ND	2.21	111	2.00	3.16	
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.21	110	2.00	3.58	
Total Xylenes*	<0.150	0.150	01/13/2024	ND	6.45	107	6.00	3.37	
Total BTEX	<0.300	0.300	01/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/12/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					
Surrogate: 1-Chlorooctane	88.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.6	% 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. Keene



Notes and Definitions

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC

batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal writin 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 inclured by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

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

Corrected Temp. °C

30

Cool Intact

Sample Condition

CHECKED BY:

Rush: N/A

Cool Intact

Correction Factor - 0.5°C

#140

□ Yes □ Yes □ No

REMARKS:

Relinquished By:

Date:

300

Relinquished By: Colton Bickerstaff

Date: 01/70/24

Received By:

CARDINALLaboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

4240134 Lab I.D. Company Name: Tetra Tech Sampler Name: Colton Bickerstaff City: Austin hone #: Address: 8911 Capital o Texas Hwy, Suite 2310 Project Manager: Sam Abbott roject Location: Eddy County, New Mexico roject #: roject Name: West Brushy 8 Federal SWD #001 BH-24-3 (10'-11') BH-24-3 (8'-9') BH-24-1 (9'-10') BH-24-1 (8'-9') BH-24-11 (4'-5') BH-24-4 (9'-10") BH-24-3 (9'-10') BH-24-1 (7'-8') 212C-MD-02997A (512)565-0190 1 (5'-6') Sample I.D. Fax #: Project Owner: State: X G G G G G G G (G)RAB OR (C)OMP Zip: ConocoPhillips WASTEWATER SLUDGE OTHER State: City: Fax #: P.O. #: Phone #: Attn: Sam Abbott Company: Tetra Tech Address: EMAIL ACID/BASE ICE / COOL OTHER BILL TO Zip: 1/10/2024 1/10/2024 1/10/2024 1/10/2024 1/10/2024 1/10/2024 1/10/2024 DATE /10/2024 SAMPLING TIME **TPH 8015M BTEX 8021B** Chloride SM4500CI-B ANALYSIS REQUEST

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Tompany Manie, Tella Telli											
Project Manager: Sam Abbott		BILL 10	0			NALYS	ANALYSIS REQUEST	UEST			
Address: 8911 Capital o Texas Hwy, Suite 2310	uite 2310	Company: Tetra Tech									
City: Austin	State: TX Zip:	Attn: Sam Abbott				¥.					
	Fax#:	Address: EMAIL									
212C-MD-02997A	Owner: ConocoPhillips	City:		_							
Project Name: West Brushy 8 Federal SWD #001	#001	State: Zip:				_		_			
Project Location: Eddy County, New Mexico		Phone #:			I-E						
Sampler Name: Colton Bickerstaff		Tou #			C						_
FOR LAB USE ONLY		Fax #:			00				1		_
Lab I.D.	MATRIX	PRESERV. SAI	SAMPLING		450						
Sample I.D.	R (C)OMP NERS /ATER		015M		e SM						
H240134	(G)RAB OI # CONTAI GROUNDV WASTEWA SOIL DIL BLUDGE	OTHER: CID/BASE CE / COOL THER:		BTEX	Chlorid						
BH-24-11 (6'-7')	X	X		+	4 (+	ļ	+			_
BH-24-11 (8'-9')	G 1 X	4		< >	< >	+		+	I		
15 BH-24-15 (2'-3')	G 1 X	4	X X	< >	< >	+	ļ	+			
14 BH-24-15 (3'-4')	G 1 X		X	× ;	×	+	1	+	1	+	
	G 1 X	X 1/10/2024	X	×	×	+	1	+	1	+	_
(7) BH 24 17 (0-1)	G 1 X	X 1/10/2024	X	X	×	+	1	+	1	+	_
16 BH 24 16 (71 81)	G 1 X	X 1/10/2024	X	×	×	+	1	+	1	+	
G RH 24 16 (81 01)		X 1/10/2024	X	×	×	+		+	1	+	
DII-24-10 (8-9)	[G 1 X	X 1/10/2024	X	×	×	+	1	+	1	+	
PLEASE NOTE: Liability and Damages. Cardinal's liability and clerit's exclusion	G I X	X 1/10/2024		×	×	+	I	4	T	+	
event shall cardinal be liable for incidental or consequental damages, affiliates or successors arising out of or related to the performance of	event shall cultimate alable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss or profits incurred by client, its susheddishess, All claims, affiliates or successors arising out of or related to the performance of services inerunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	paid by the client for the analyses. All clad by client, its subsidiaries, the above stated reasons or otherwise.	ims including those for negligence and any other cause whatso	ice and any other	r cause whatsoev	er shall be deer	ned waived unles	s made in writing	and received by Car	ever shall be deemed waked unless made in writing and received by Cardinal within 30 days after completion of the	completion of the
Relinquished By: Colton Bickerstaff	Date: 01/16/24 Received By:		Verbal Result:	□ Yes □	□ No	Add"	Add'l Phone #				•
Relinquished By:	30	ignelle	@ 3	led. Please tratech.com		nail addre	ss: Sam.Ab	bott@tetrat	Email address: Sam.Abbott@tetratech.com AND		
romyusiidu by.	Received By:	2	REMARKS:								
Politipred Ry: (Circle One)	Time:	(
her	Corrected Temp. 'C Sample Condition Cool Intact	CHECKED BY:	Turnaround Time: Stand	Standard ** Gool Intact Ob	Bacteria (only) S Observed Temp. "C	/) Sample Condition	5		5.		,
	□ No □ No □ No □ No □ No □ No □ No □ No	2	Thermometer ID #113	#	で こ に に に に に に に に に に に に に	_	□Yes□ Yes				
			COLLECTION L'ACTOR O'S		1 1						•

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

No No



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Total Take		· · · · · · · · · · · · · · · · · · ·	A TOTAL MANAGEMENT OF THE PROPERTY OF THE PROP					
The state of the s		BILL TO			ANAIY	ANAI YSIS REQUEST	F	
Project Manager: Sam Abbott		P.O. #:	-		-	מוס הגרשטרי	- -	
Address: 8911 Capital o Texas Hwy, Suite 2310	uite 2310	Company: Tetra Tech		_		_	_	_
City: Austin	State: TX Zip:	Attn: Sam Abbott			_			
	Fax #:	Address: EMAIL						
Project #: 212C-MD-02997A	Owner: ConocoPhillips	City:						
Project Name: West Brushy 8 Federal SWD #001		State: Zip:		3	100			_
Project Location: Eddy County, New Mexico		Phone #:		I-F				
Sampler Name: Colton Bickerstaff		Fax #:		000				
Lab I.D.	MATRIX	PRESERV. SAMPLING						
Sample I.D.	R (C)OMP NERS VATER		015M		,			
H240134	(G)RAB OI # CONTAI GROUNDW WASTEWA GOIL DIL BLUDGE	OTHER: CID/BASE CE / COOL THER:	PH 8	BTEX Chloric				
Ø (BH-24-16 (14'-15')	X	X	× 7	+	+	+	+	
33 H-24-5 (0-1')	G 1 X	X 1/10/2024	X	X	+	+	+	+
H-24-6 (0-1')	G 1 X	X 1/10/2024	X	Н		+	+	+
						_		
				\prod		H		
PLEASE NOTE: Liability and Damages. Cardinal's liability and clent's exclusive	balke remedy for any claim arising whether based is goodness or a first first of a				1			
event shall Cardinal be liable for incidental or consequental damages affiliates or successors arising out of or related to the performance or	event shall Cultiful be liable for incidental or consequential damages, including without limitation, business interruptions, base of use, or less an expension of use, or less an incidental consequential damages, including without limitation, business interruptions, base of use, or less after completion of a statistic expension of use and use or successors arising out of or related to the performance of services hierarchie by Cardinal, regardless of whether such claim is based upon any of the above stated research or otherwise.	d by client, its subsidiaries, the above stated reasons or otherwise.	including those for negligence	e and any other cause	whatsoever shall be de	emed waived unless mad	e in writing and received	1 by Cardinal within 30 days at
Relinquished By: Colton Bickerstaff	Time: 3.10 Received By:	2.001111	Verbal Result: ☐ Yes ☐ No All Results are emailed. Please provide Lisbeth.Chavira@tetratech.com	☐ Yes ☐ No a≝ed. Please prov		Add'i Phone #: Email address: Sam.Abbott@tetratech.com AND	@tetratech.com	AND
Relinquished By:	Date: Received By:		REMARKS:					
	l'ime:							
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C S. Sample Condition Corrected Temp. °C S. Cool Infact	CHECKED BY: To	Turnaround Time: Standau	Standard	ia (only) Sample Condition	lon		2
	No No	R	-	+111	_	∏Yes ∏ Yes		

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

No No

FORM-006 R 3.2 10/07/21



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

The state of the s		BILL TO			AUA: 4010 770:1104	
Project Manager: Sam Abbott		P.O. #:			ANALISIS KEQUESI	
Address: 8911 Capital o Texas Hwy, Suite 2310		Company: Tetra Tech				
tin	State: TX Zip:	Attn: Sam Abbott	X.			
	Fax#:	Address: EMAIL				
Project #: 212C-MD-0299; A	Owner: ConocoPhillips	City:				
Project Name: West Brushy 8 Federal SWD #001	#001	State: Zip:		3		
Project Location: Eddy County, New Mexico		Phone #:		I-I		
Sampler Name: Colton Bickerstaff		Fav #		C		
FOR LAB USE ONLY		Fax #:		00	,	
Lab I.D.	MATRIX	PRESERV. SAMPLING	LING			
Sample ID	(C)OMP.		15M	021B		
	OR AINE DWA	OL	80			
H240134	CONT ROUN ASTEV DIL L	HER : ID/BA E / CO HER :	РН			LD
Q4 BH-24-1 (11'-12')	# G S S S S S S S S S S S S S S S S S S	A IC	T	╀		н
分 BH-24-3 (12'-13')		Y 1/10/2024	× ×	+		X
26 BH-24-3 (14'-15')		Ŧ	4 >	+		X
27 BH-24-4 (12'-13')	-	4	× >	+		X
28 BH-24-11 (9'-10')	G 1 X	X 1/10/2024	Y	< >		X
		-	;	+		X
				+		
event shall Cardinal be liable for incidental or consequental damages, affiliates or successors arising out of or related to the performance of	event shall Cardinal be liable for incidential concessance and any second second place of a second policy the disent for the analyses, All dateries and cardinal be liable for incidential or concessance and amages, including second installation, between the interruptions, loss of use, or less of profits incrured by clerk, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of visibles such claim is based upon any of the above staded reservance or discovered.	paid by the client for the analyses. All claims I by client, its subsidiaries, he above stated reasons or otherwise.	including those for negligence	and any other cause who	including those for negligence and any other cause whitesomer shall be deemed valved unless made in writing and received by Castinal within 30 days after con	Cardinal within 30 days after completion of
Relinquished By: Colton Bickerstaff	Date: 01/11/24 Received By:		Verbal Result: ☐ Yes	es 🗆 No	Add'l Phone #-	
	Timesaro Session	ree	All Results are emailed. Please Lisbeth.Chavira@tetratech.com	d. Please provid tech.com	All Results are emailed. Please provide Email address: Sam.Abbott@tetratech.com AND Lisbeth.Chavira@tetratech.com	ND
Relinquished By:	Rec		REMARKS: PLEASE H	OLD ANALYSIS	REMARKS: PLEASE HOLD ANALYSIS ON LISTED SAMPLES UNTIL FURTHER NOTICE	
	Time:					
Sampler - UPS - Bus - Other:	Corrected Temp. °C Cool Intact	CHECKED BY: 1 (Initials)	Turnaround Time: Standard		only) Sample Con.""	
		3			-	
	No Control of the Con	0	Correction Factor 0.596	OF #	□ Yes □ Yes	

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

Yes Yes

APPENDIX G BLM Seed Mixture

(27)

BLM Serial #:

Company Reference:

3.2 Seed Mixture for LPC Sand/Shinnery Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

^{*}Pounds of pure live seed: Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed

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

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

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

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

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

QUESTIONS

Action 309139

QUESTIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	309139
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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	Remediation Plan Approved
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 fo	or 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.

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

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

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505

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

QUESTIONS, Page 2

Action 309139

Phone: (505) 476-3470 Fax: (505) 476-3462			
QUESTI	ONS (continued)		
Operator:	OGRID:		
COG OPERATING LLC	229137		
600 W Illinois Ave	Action Number:		
Midland, TX 79701	309139		
	Action Type:		
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)		
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.		
F			
Initial Response			
The responsible party must undertake the following actions immediately unless they could create a s The source of the release has been stopped	I		
	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 aidion immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.		
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or		

Name: Christian LLuLL Title: Project Manager

Date: 01/29/2024

Email: christian.llull@tetratech.com

I hereby agree and sign off to the above statement

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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 309139

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	309139
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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 provided to th	e appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this sub	mission	Yes
Attach a comprehensive report demonstrating the lateral and vert	ical extents of soil contamination a	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 by	peen fully delineated	Yes
Was this release entirely contained within a lined cont	ainment area	No
Soil Contamination Sampling: (Provide the highest obse	rvable value for each, in milli	grams per kilograms.)
Chloride (EPA 300.0 or SM450	00 CI B)	9460
TPH (GRO+DRO+MRO) (EPA SW-846 Method	8015M)	211
GRO+DRO (EPA SW-846 Metho	d 8015M)	211
BTEX (EPA SW-846 Metho	d 8021B or 8260B)	0.3
Benzene (EPA SW-846 Metho	od 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characteri which includes the anticipated timelines for beginning and compl		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 commend	ce	08/01/2024
On what date will (or did) the final sampling or liner ins	spection 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	at 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	at 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	e best guess or calculation at the t	time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed remediation measures may ha	ave to be minimally adjusted in acc	cordance with the physical realities encountered during remediation. If the responsible party has any need to

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

District I

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

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

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

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

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

QUESTIONS, Page 4

Action 309139

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	309139
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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

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

I hereby agree and sign off to the above statement

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

Date: 01/29/2024

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.

Released to Imaging: 1/31/2024 7:59:59 AM

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

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

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

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

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

QUESTIONS, Page 5

Action 309139

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	309139
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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 No submission

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

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

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

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

Requesting a remediation closure approval with this submission

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

QUESTIONS, Page 6

Action 309139

QUESTIONS (continued)		
	OGRID:	
	229137	

Operator: COG OPERATING LLC 600 W Illinois Ave Action Number: Midland, TX 79701 309139 Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded	{Unavailable.}	
Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		

No

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

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

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

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

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

CONDITIONS

Action 309139

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	309139
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
bhall	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.	1/31/2024
bhall	A complete and accurate remediation closure report will need to be submitted by April 30, 2024.	1/31/2024