

February 10, 2022

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

Re: Release Characterization and Closure Request ConocoPhillips Heritage Concho McIntyre DK Federal #4 Release Unit Letter M, Section 17, Township 17 South, Range 30 East Eddy County, New Mexico Incident ID# NJMW1303938125 2RP-1547

Mr. Billings,

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to assess a Heritage Concho release and subsequent remedial actions taken at a site associated with the McIntyre DK Federal #4 well (API No. 30-015-20661), which has since been plugged. The release footprint is located in Public Land Survey System (PLSS) Unit Letter M, Section 17, Township 17 South, Range 30 East, in Eddy County, New Mexico (Site). The approximate release point occurred east of the Northwest Central Tank Battery, approximately 0.3 miles northeast of the former McIntyre DK Federal #4 well pad, at coordinates 32.829782°, -103.994663°, as shown on Figures 1 and 2.

### BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, the release was discovered on January 23, 2013. The C-141 reports that the release was caused by a partially corroded steel flowline allowing the release of produced fluid. Approximately 15 barrels (bbls) of produced water and 5 bbls of crude oil were released, of which approximately 10 bbls of produced water and 5 bbl of oil were recovered. The release occurred off-pad and was contained to a 40-foot by 40-foot area in the pasture. The NMOCD approved the initial C-141 on February 8, 2014 and subsequently assigned the release the Incident ID NJMW1303938125 and the remediation permit (RP) number 2RP-1547. The initial C-141 form is included in Appendix A.

### SITE CHARACTERIZATION

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

There are no water wells listed in the New Mexico Office of the State Engineer (NMOSE database located within approximately ½ mile (800 meters) of the site. According to data from one (1) water well listed in the

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NMOSE database within approximately 0.75 miles (1,200 meters) of the site, the depth to groundwater is 80 feet below ground surface (bgs). The site characterization data are presented in Appendix B.

### **REGULATORY FRAMEWORK**

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

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

Constituent	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	<b>Reclamation Requirements</b>
Chloride	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg

### **INITIAL RESPONSE ACTIVITIES**

The release Site is located immediately east of the Northwest Central Tank Battery facility in an area with numerous flowlines, as shown in Figure 3. Following the release, Concho replaced the steel flowline with a new poly flowline to prevent incident reoccurrence. According to information provided by Concho, the release area footprint was excavated to a depth of 4 feet bgs, lined, and backfilled with clean material to surface grade. No documentation of the remedial actions described by Concho were available at the time of this report. The area congested with flowlines east of the battery has had numerous unplanned releases.

However, a review of historical aerial imagery revealed evidence of disturbed soil, excavation walls and visible remedial activities in progress at the release area location between March 2012 and February 2014. The most recent aerial image of the Site taken in February 2019 shows reestablished vegetation in the backfilled excavation area. Historical aerial imagery is presented in Appendix C.

### SITE ASSESSMENT ACTIVITIES

To confirm the reported remedial actions conducted at the release Site, as described by Concho and observed in aerial imagery, Tetra Tech conducted assessment activities at the Site on behalf of ConocoPhillips on December 29, 2021. Tetra Tech personnel installed seven (7) hand auger borings (AH-1 through AH-7) to characterize soils in the reported footprint and attempt to delineate the release. Borings AH-1 through AH-3 were installed in the vicinity of the identified backfill area to vertically delineate the release and verify the presence of the liner at the base of the backfilled excavation. Borings AH-4 through AH-7 were installed along the perimeter of the identified backfill area to complete horizontal delineation of the release extent. The boring locations are presented on Figure 4.

The liner was encountered at approximately 2 feet bgs at the AH-2 and AH-3 locations, indicating that approximately 2 feet of overburden topsoil had eroded since the initial placement. Observations made in the field and elevation data obtained from Google Earth indicate that the release extent is in a localized

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ConocoPhillips

topographically low area compared to the surrounding ground surface. Soils stratigraphically above the liner appeared unimpacted, had no hydrocarbon odor, and screened clean. Additionally, established vegetation was observed throughout the reported remedial extent. Soils below the liner, however, exhibited a hydrocarbon odor and moderate staining. No liner was encountered in boring AH-1. Borings AH-2 and AH-3 were terminated at 4 feet bgs and 3 feet bgs, respectively, where refusal was encountered. Upon completion of boreholes AH-2 and AH-3, the borings were plugged with bentonite and hydrated with distilled water to seal.

A total of seventeen (17) samples were collected from the seven (7) borings and submitted to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for chloride via EPA Method 4500.0, TPH via EPA Method 8015M and BTEX via EPA Method 8261B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix D.

### SUMMARY OF SAMPLING RESULTS

Analytical results from the December 2021 assessment activities are summarized in Table 1. All analytical results associated with the vertical borings above the liner encountered at 2 feet bgs (AH-1 through AH-3) and the horizontal borings (AH-4 through AH-7) were below the Site reclamation requirements for all analyzed constituents.

The analytical results associated with boring locations AH-2 and AH-3 were above the Site reclamation requirements for chlorides (600 mg/kg) and TPH (100 mg/kg) in samples collected below the liner encountered at 2 feet bgs. The highest chloride concentration was 3,040 mg/kg in the 2-3 foot sample collected from boring location AH-2, which exceeds the reclamation requirement, but is below the Site RRAL of 10,000 mg/kg. The highest TPH concentration was 17,830 mg/kg in the 3-4 foot bgs sample collected from boring location AH-2, which is elevated above the Site RRAL of 2,500 mg/kg. Additionally, the Site RRAL for BTEX (50 mg/kg) was exceeded in the 3-4 foot bgs sample collected from boring location AH-2, which is elevated above the Site RRAL of 2,500 mg/kg.

### SITE RECLAMATION AND RESTORATION PLAN

Based on the site characterization, the backfilled areas of the release extent meet the Site reclamation requirements for surface soils located above the liner encountered at approximately 2 feet bgs. While analytical results associated with soil found below the liner exhibited concentrations of Table I constituents above the reclamation requirements, the liner has protected root zone as designed and allowed for the establishment of uniform vegetative cover. The lithified layer that was encountered during the hand auger boring installation at 3-4 feet bgs likely serves to impede further downward migration of those contaminants left in place. Photographic documentation of the Site taken during the December 2021 assessment is presented in Appendix E.

### CONCLUSION

Based on a review and evaluation of the results from the site assessment, ConocoPhillips considers the current release footprint to be sufficiently remediated in accordance with the description described by Concho. The assessment was successful in horizontally delineating environmental impacts from this release.

Analytical results from vertical borings associated with site assessment were below the surface reclamation limits in soils located stratigraphically above the liner. Following the remedial activities conducted at the Site the established vegetation at the Site indicates that the installed liner at the base of the excavation is protective of the root zone. The reclamation of this disturbed areas is complete, as uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels. Although soil concentrations below the lined and backfilled excavation are above the reclamation standards for chloride and TPH, further remediation of the release footprint would be detrimental to the established vegetation and the Site, would require a major facility deconstruction, and would be disruptive of oil and gas operations in the area.

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ConocoPhillips

Based on the above, ConocoPhillips respectfully requests closure for this release. The final C-141 forms are enclosed in Appendix A. If you have any questions concerning the soil assessment activities for the Site, please call me at (512) 217-7254 or Christian at (512) 338-2861.

Sincerely, Tetra Tech, Inc.

Samantha K. Abbott, P.G. Project Manager

Christian M, Llull, P.G. Program Manager

cc:

Mr. Ike Tavarez, RMR – ConocoPhillips Mr. Charles Beauvais, BU – ConocoPhillips

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Release Characterization and Closure Request February 10, 2022

ConocoPhillips

# LIST OF ATTACHMENTS

## Figures:

Figure 1 – Overview Map

Figure 2 – Topographic Map

Figure 3 – Approximate Release Extent and Excavation Extent

Figure 4 – Site Assessment Map

# Tables:

Table 1 – Summary of Analytical Results – Soil Assessment

# Appendices:

Appendix A – C-141 Forms

Appendix B – Site Characterization Data

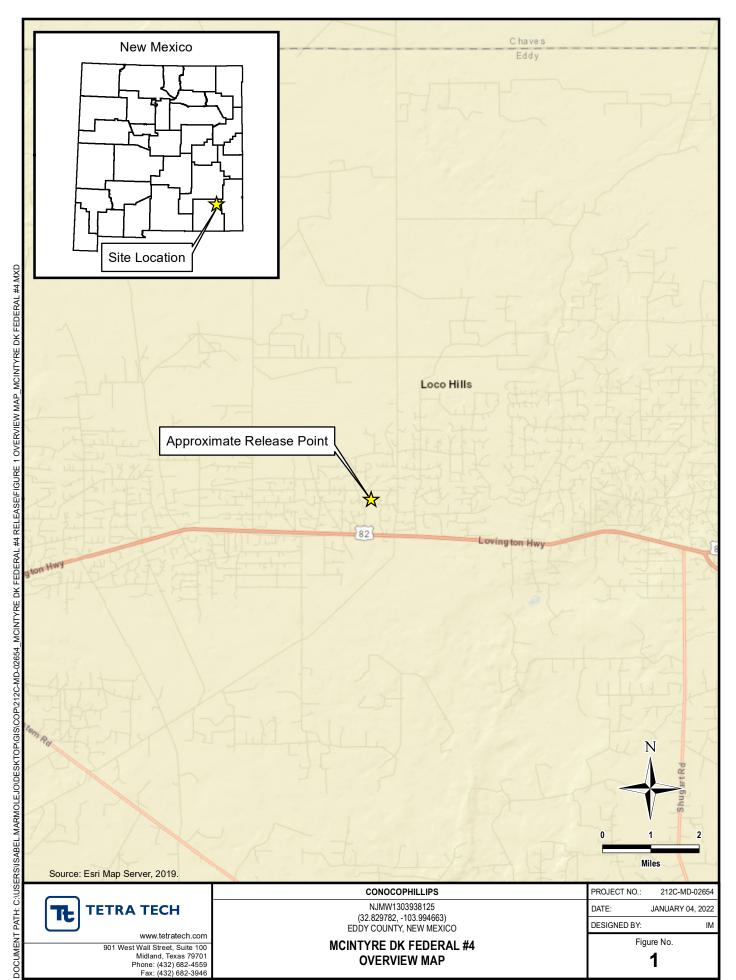
Appendix C – Historical Aerial Imagery

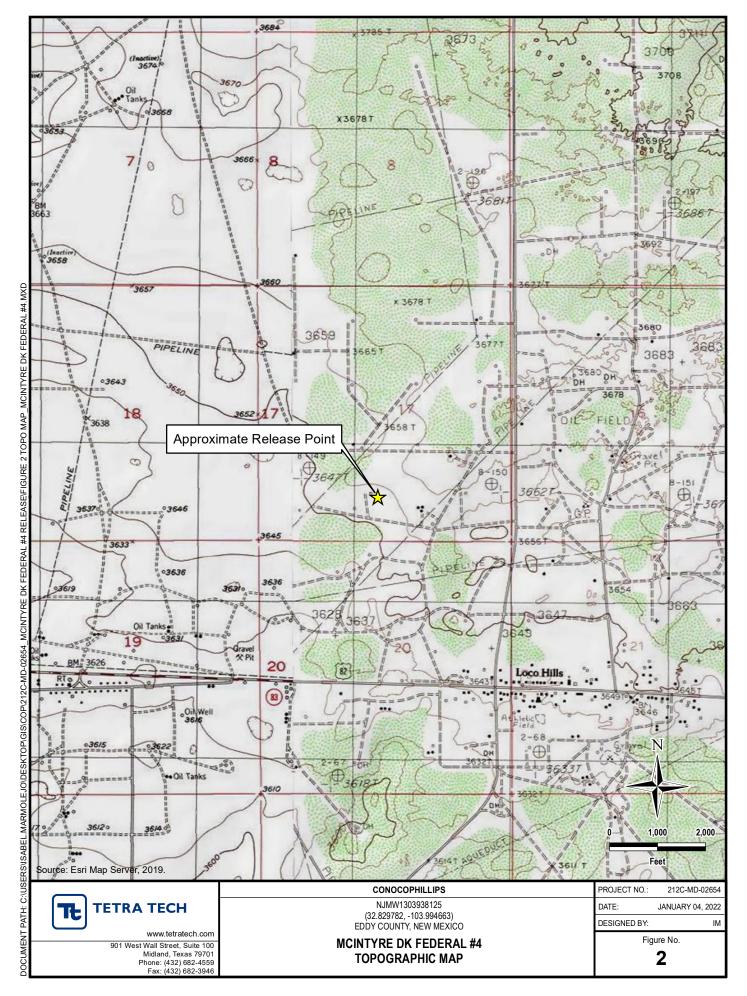
Appendix D – Laboratory Analytical Data

Appendix E – Photographic Documentation

# FIGURES

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# TABLE

# TABLE 1 SUMMARY OF ANALYTICAL RESULTS SOIL ASSESSMENT - NJMW1303938125 CONOCOPHILLIPS MCINTYRE DK FEDERAL 4 RELEASE EDDY COUNTY, NM

					BTEX <sup>2</sup>			TPH <sup>3</sup>												
Comula ID		Sample Depth Interval	Chloride <sup>1</sup>	Damage				5.1 H	Tatal Malanaa			GRO		DRO		EXT ORO		Total TPH		
Sample ID	Sample Date	interval			Benzene	2	Toluen	е	Ethylbenze	ene	Total Xylene	es Total BTEX	IOTAI BIEX	C6 - C <sub>10</sub>		C <sub>10</sub> - C <sub>28</sub>		C <sub>28</sub> - C <sub>36</sub> (GRO-		(GRO+DRO+ORO)
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
AH-1	12/29/2021	0-1	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
AH-1	12/29/2021	1-2	128.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
		0-1	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
		1-2	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
AH-2	12/29/2021	2-3	3040	Т	< 0.050	GC-NC	0.710	GC-NC1	< 0.050	GC-NC	7.80		8.51	322		3800		785		4907
		3-4	2720		< 0.500		4.17		13.0		47.7		64.9	1740		13700		2390		17830
		0-1	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		44.2		17.4		61.6
AH-3	12/29/2021	1-2	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
		2-3	1320		< 0.050		0.222		< 0.050		< 0.150		< 0.300	< 10.0		5270		1610		6880
AH-4	12/29/2021	0-1	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		20.6		< 10.0		20.6
AH-4		1-2	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
AH-5	12/29/2021	0-1	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
Ап-5		1-2	432		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
	12/20/2021	0-1	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
AH-6	12/29/2021	1-2	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
AU 7	12/20/2021	0-1	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
AH-7	12/29/2021	1-2	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-

NOTES:

ft. Feet bgs Below ground surface

ppm Parts per million

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

ORO Oil range organics

Method SM4500Cl-B 1

EPA Method 8021B 2

3 EPA Method 8015M

# QUALIFIERS:

GC-NC

GC-NC1

Liner location

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8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND. 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.

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# APPENDIX A C-141 Forms

istrict III istrict III 001 W. Grand Avenue, Artesia, NM 88210 istrict III 000 Rio Brazos Road, Aztec. NM 87410 Oil Cons	of New Mexico
525 N. French Dr., Hobbs, NM 88240     State Construction       istrict II     Energy Minera       301 W. Grand Avenue, Artesia, NM 88210     Oil Cons       istrict III     Oil Cons	Form C-141
301 W. Grand Avenue, Artesia, NM 88210 <u>istrict III</u> 100 Rio Brazos Road, Aztec. NM 87410 Oil Cons	Is and Natural Resources FEB 5 2013 Revised October 10, 2003
JUU RIO Brazos Road, Aztec, NM 8/410	
	servation Division uth St. Francis Dr. E- NDA 97505
	Fe, NW 87505
	ion and Corrective Action
1JMW 1303938125 Name of Company COG OPERATING LLC 229137	OPERATORInitial ReportFinal Report1ContactPat Ellis
Address 600 West Illinois Avenue, Midland, TX 79701	Telephone No. 432-230-0077
Facility Name         McIntyre DK Federal #4	Facility Type         Flowline
Surface Owner Federal Mineral Owner	angan ana <u>ang ang ang ang ang ang ang ang ang ang </u>
	ON OF RELEASE orth/South Line Feet from the East/West Line County
M 17 17S 30E	Eddy
Latitude 32 49.79	2 Longitude 103 59.651
	RE OF RELEASE
Type of Release Oil and Produced water	Volume of Release 5bbls Oil Volume Recovered 5bbls Oil 15bbls Produced water 10bbls Produced water
Source of Release Flowline from McIntyre DK Federal #4 well	Date and Hour of OccurrenceDate and Hour of Discovery01/23/201301/23/20137:30a.m.
Was Immediate Notice Given?	If YES, To Whom?
By Whom? Was a Watercourse Reached?	Date and Hour
Was a watercourse Reached ☐ Yes ⊠ No	If YES, Volume Impacting the Watercourse.
If a Watercourse was Impacted, Describe Fully.*	· · · · · · · · · · · · · · · · · · ·
Describe Cause of Problem and Remedial Action Taken.*	
A steel flowline partially corroded which allowed the release of produ reoccurrence.	need fluid. The steel flowline is being replaced with new poly flowline to prevent
Describe Area Affected and Cleanup Action Taken.*	
in a 40' x 40' area east of the Northwest Central Tank Battery location	e and we were able to recover 15bbls with a vacuum truck. The release was contained n. All free fluids have been recovered. Tetra Tech will sample the spill site area to sent a remediation work plan to the NMOCD/BLM for approval prior to any
regulations all operators are required to report and/or file certain relea public health or the environment. The acceptance of a C-141 report b should their operations have failed to adequately investigate and reme	to the best of my knowledge and understand that pursuant to NMOCD rules and se notifications and perform corrective actions for releases which may endanger y the NMOCD marked as "Final Report" does not relieve the operator of liability diate contamination that pose a threat to ground water, surface water, human health ort does not relieve the operator of responsibility for compliance with any other
7.7-	OIL CONSERVATION DIVISION
Signature: Printed Name: Josh Russo	Approved by District Supervisor: Signed By Mile Bennet
Title:         Senior Environmental Coordinator	Approval Date: Expiration Date:
E-mail Address: jrusso@concho.com	Conditions of Approval:
Date: 02/05/2013 Phone: 432-212-2399	Remediation per OCD Rule &
	uidelines. SUBMIT REMEDIATION 2RP-1547
Attach Additional Sheets II Necessary G	PRQPOSAL NO LATER THÂN:

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Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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# 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 <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🗌 No

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

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

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

Laboratory data including chain of custody

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

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		Incident ID
Page 4	Oil Conservation Division	District RP
		Facility ID
		Application ID
regulations all operators ar public health or the environ failed to adequately investi addition, OCD acceptance and/or regulations. Printed Name: Signature:	re required to report and/or file certain release notificar nment. The acceptance of a C-141 report by the OCD igate and remediate contamination that pose a threat to of a C-141 report does not relieve the operator of resp Ti	t of my knowledge and understand that pursuant to OCD rules and tions and perform corrective actions for releases which may endanger 0 does not relieve the operator of liability should their operations have o groundwater, surface water, human health or the environment. In ponsibility for compliance with any other federal, state, or local laws itle:
OCD Only		
Received by:		Date:

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Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

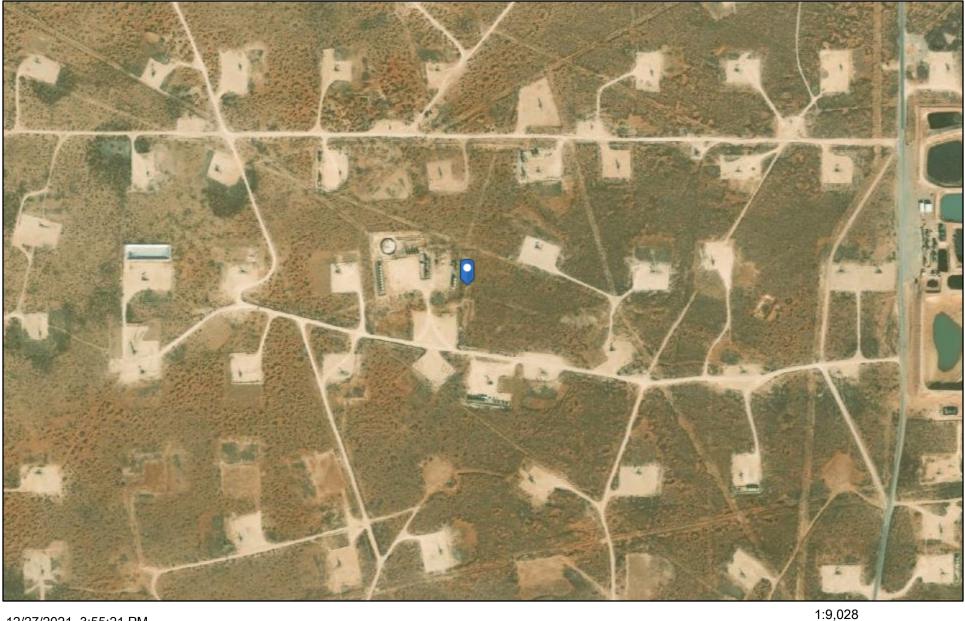
# Closure

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

Closure Report Attachment Checklist: Each of the following it	tems must be included in the closure report.						
A scaled site and sampling diagram as described in 19.15.29.11 NMAC							
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)							
Laboratory analyses of final sampling (Note: appropriate ODC	Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)						
Description of remediation activities							
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rem human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the con accordance with 19.15.29.13 NMAC including notification to the O	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.						
email:	Telephone:						
eman							
OCD Only							
Received by:	Date:						
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.						
Closure Approved by: <u>Bradford Billings</u>	Date:						
Printed Name:							

# APPENDIX B Site Characterization Data

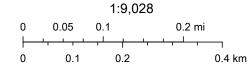
# **OCD Water Bodies**



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PLJV Probable Playas OCD District Offices \*

**OSE** Water-bodies **OSE** Streams

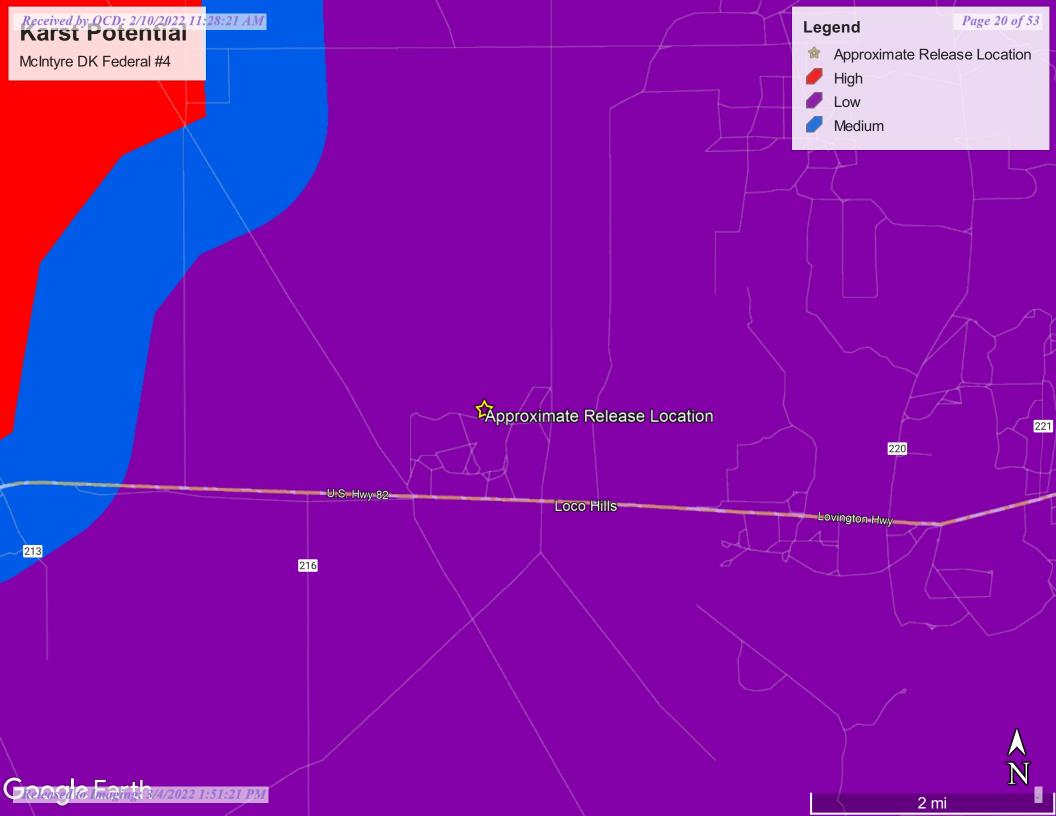


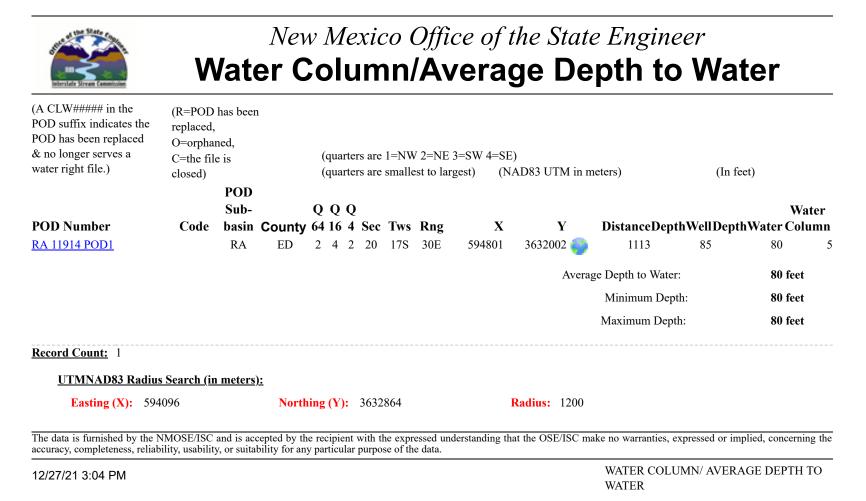
New Mexico Oil Conservation Division

OCD, Maxar

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





# APPENDIX C Historical Aerial Imagery



March 2012



April 2013



February 2014



November 2017



February 2019

# APPENDIX D Laboratory Analytical Data



January 04, 2022

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

RE: MCINTYRE DK FED #4

Enclosed are the results of analyses for samples received by the laboratory on 12/29/21 15:10.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Whe Singh

Mike Snyder For Celey D. Keene Lab Director/Quality Manager



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

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	MCINTYRE DK FED #4	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02654	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO NM		

#### Sample ID: AH - 1 ( 0-1' ) (H213745-01)

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	12/30/2021	ND	2.11	106	2.00	1.94	
Toluene*	<0.050	0.050	12/30/2021	ND	1.99	99.4	2.00	1.40	
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	1.99	99.3	2.00	2.23	
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.18	103	6.00	2.22	
Total BTEX	<0.300	0.300	12/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.2	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/30/2021	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	12/30/2021	ND	202	101	200	5.41	
DRO >C10-C28*	<10.0	10.0	12/30/2021	ND	195	97.5	200	9.20	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					
Surrogate: 1-Chlorooctane	83.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	86.0	% 59.5-14	2						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	MCINTYRE DK FED #4	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02654	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO NM		

#### Sample ID: AH - 1 ( 1'-2' ) (H213745-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2021	ND	2.00	99.9	2.00	6.40	
Toluene*	<0.050	0.050	12/30/2021	ND	2.05	103	2.00	4.44	
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	2.07	104	2.00	4.53	
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.48	108	6.00	4.77	
Total BTEX	<0.300	0.300	12/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/30/2021	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	12/30/2021	ND	165	82.5	200	26.2	
DRO >C10-C28*	<10.0	10.0	12/30/2021	ND	204	102	200	10.6	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					
Surrogate: 1-Chlorooctane	94.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	91.3	% 59.5-14	2						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	MCINTYRE DK FED #4	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02654	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO NM		

#### Sample ID: AH - 2 ( 0-1' ) (H213745-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2021	ND	2.00	99.9	2.00	6.40	
Toluene*	<0.050	0.050	12/30/2021	ND	2.05	103	2.00	4.44	
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	2.07	104	2.00	4.53	
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.48	108	6.00	4.77	
Total BTEX	<0.300	0.300	12/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/30/2021	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	12/30/2021	ND	165	82.5	200	26.2	
DRO >C10-C28*	<10.0	10.0	12/30/2021	ND	204	102	200	10.6	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					
Surrogate: 1-Chlorooctane	106	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	102	% 59.5-14	2						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	MCINTYRE DK FED #4	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02654	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO NM		

#### Sample ID: AH - 2 ( 1'-2' ) (H213745-04)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2021	ND	2.00	99.9	2.00	6.40	
Toluene*	<0.050	0.050	12/30/2021	ND	2.05	103	2.00	4.44	
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	2.07	104	2.00	4.53	
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.48	108	6.00	4.77	
Total BTEX	<0.300	0.300	12/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/30/2021	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	12/30/2021	ND	165	82.5	200	26.2	
DRO >C10-C28*	<10.0	10.0	12/30/2021	ND	204	102	200	10.6	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					
Surrogate: 1-Chlorooctane	106	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	106	% 59.5-14	2						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	MCINTYRE DK FED #4	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02654	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO NM		

#### Sample ID: AH - 2 ( 2'-3' ) (H213745-05)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2022	ND	2.00	99.9	2.00	6.40	GC-NC
Toluene*	0.710	0.050	01/03/2022	ND	2.05	103	2.00	4.44	GC-NC1
Ethylbenzene*	<0.050	0.050	01/03/2022	ND	2.07	104	2.00	4.53	GC-NC
Total Xylenes*	7.80	0.150	01/03/2022	ND	6.48	108	6.00	4.77	
Total BTEX	8.51	0.300	01/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	414	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	12/30/2021	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	322	50.0	12/30/2021	ND	165	82.5	200	26.2	
DRO >C10-C28*	3800	50.0	12/30/2021	ND	204	102	200	10.6	
EXT DRO >C28-C36	785	50.0	12/30/2021	ND					
Surrogate: 1-Chlorooctane	118	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	158	% 59.5-14	2						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	MCINTYRE DK FED #4	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02654	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO NM		

#### Sample ID: AH - 2 ( 3'-4' ) (H213745-06)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	01/03/2022	ND	2.00	99.9	2.00	6.40	
Toluene*	4.17	0.500	01/03/2022	ND	2.05	103	2.00	4.44	
Ethylbenzene*	13.0	0.500	01/03/2022	ND	2.07	104	2.00	4.53	
Total Xylenes*	47.7	1.50	01/03/2022	ND	6.48	108	6.00	4.77	
Total BTEX	64.9	3.00	01/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	149	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	12/30/2021	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1740	50.0	12/30/2021	ND	202	101	200	5.41	
DRO >C10-C28*	13700	50.0	12/30/2021	ND	195	97.5	200	9.20	
EXT DRO >C28-C36	2390	50.0	12/30/2021	ND					
Surrogate: 1-Chlorooctane	301	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	805	% 59.5-14	2						

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

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	MCINTYRE DK FED #4	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02654	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO NM		

#### Sample ID: AH - 3 ( 0-1' ) (H213745-07)

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	12/30/2021	ND	2.00	99.9	2.00	6.40	
Toluene*	<0.050	0.050	12/30/2021	ND	2.05	103	2.00	4.44	
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	2.07	104	2.00	4.53	
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.48	108	6.00	4.77	
Total BTEX	<0.300	0.300	12/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/30/2021	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	12/30/2021	ND	202	101	200	5.41	
DRO >C10-C28*	44.2	10.0	12/30/2021	ND	195	97.5	200	9.20	
EXT DRO >C28-C36	17.4	10.0	12/30/2021	ND					
Surrogate: 1-Chlorooctane	76.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	82.0	% 59.5-14	2						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	MCINTYRE DK FED #4	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02654	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO NM		

#### Sample ID: AH - 3 ( 1'-2' ) (H213745-08)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2021	ND	2.00	99.9	2.00	6.40	
Toluene*	<0.050	0.050	12/30/2021	ND	2.05	103	2.00	4.44	
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	2.07	104	2.00	4.53	
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.48	108	6.00	4.77	
Total BTEX	<0.300	0.300	12/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/30/2021	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	12/30/2021	ND	202	101	200	5.41	
DRO >C10-C28*	<10.0	10.0	12/30/2021	ND	195	97.5	200	9.20	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					
Surrogate: 1-Chlorooctane	88.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	90.1	% 59.5-14	2						

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

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	MCINTYRE DK FED #4	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02654	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO NM		

#### Sample ID: AH - 3 ( 2'-3' ) (H213745-09)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2022	ND	2.00	99.9	2.00	6.40	
Toluene*	0.222	0.050	01/03/2022	ND	2.05	103	2.00	4.44	
Ethylbenzene*	<0.050	0.050	01/03/2022	ND	2.07	104	2.00	4.53	
Total Xylenes*	<0.150	0.150	01/03/2022	ND	6.48	108	6.00	4.77	
Total BTEX	<0.300	0.300	01/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	12/30/2021	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2022	ND	202	101	200	5.41	
DRO >C10-C28*	5270	10.0	01/03/2022	ND	195	97.5	200	9.20	
EXT DRO >C28-C36	1610	10.0	01/03/2022	ND					
Surrogate: 1-Chlorooctane	83.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	244	% 59.5-14	2						

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

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	MCINTYRE DK FED #4	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02654	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO NM		

## Sample ID: AH - 4 ( 0-1' ) (H213745-10)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2021	ND	2.00	99.9	2.00	6.40	
Toluene*	<0.050	0.050	12/30/2021	ND	2.05	103	2.00	4.44	
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	2.07	104	2.00	4.53	
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.48	108	6.00	4.77	
Total BTEX	<0.300	0.300	12/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/30/2021	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	12/30/2021	ND	202	101	200	5.41	
DRO >C10-C28*	20.6	10.0	12/30/2021	ND	195	97.5	200	9.20	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					
Surrogate: 1-Chlorooctane	99.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	105	% 59.5-14	2						

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

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	MCINTYRE DK FED #4	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02654	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO NM		

#### Sample ID: AH - 4 ( 1'-2' ) (H213745-11)

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	12/30/2021	ND	2.00	99.9	2.00	6.40	
Toluene*	<0.050	0.050	12/30/2021	ND	2.05	103	2.00	4.44	
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	2.07	104	2.00	4.53	
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.48	108	6.00	4.77	
Total BTEX	<0.300	0.300	12/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/30/2021	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	12/30/2021	ND	202	101	200	5.41	
DRO >C10-C28*	<10.0	10.0	12/30/2021	ND	195	97.5	200	9.20	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					
Surrogate: 1-Chlorooctane	107 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	112 9	59.5-14	2						

#### Cardinal Laboratories

\*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	MCINTYRE DK FED #4	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02654	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO NM		

#### Sample ID: AH - 5 ( 0-1' ) (H213745-12)

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	12/30/2021	ND	2.00	99.9	2.00	6.40	
Toluene*	<0.050	0.050	12/30/2021	ND	2.05	103	2.00	4.44	
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	2.07	104	2.00	4.53	
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.48	108	6.00	4.77	
Total BTEX	<0.300	0.300	12/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/30/2021	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	12/30/2021	ND	202	101	200	5.41	
DRO >C10-C28*	<10.0	10.0	12/30/2021	ND	195	97.5	200	9.20	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					
Surrogate: 1-Chlorooctane	94.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	98.9	% 59.5-14	2						

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Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	MCINTYRE DK FED #4	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02654	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO NM		

#### Sample ID: AH - 5 ( 1'-2' ) (H213745-13)

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	12/30/2021	ND	2.00	99.9	2.00	6.40	
Toluene*	<0.050	0.050	12/30/2021	ND	2.05	103	2.00	4.44	
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	2.07	104	2.00	4.53	
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.48	108	6.00	4.77	
Total BTEX	<0.300	0.300	12/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	12/30/2021	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	12/30/2021	ND	202	101	200	5.41	
DRO >C10-C28*	<10.0	10.0	12/30/2021	ND	195	97.5	200	9.20	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					
Surrogate: 1-Chlorooctane	88.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	91.9	% 59.5-14	2						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	MCINTYRE DK FED #4	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02654	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO NM		

#### Sample ID: AH - 6 ( 0-1' ) (H213745-14)

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	12/30/2021	ND	2.00	99.9	2.00	6.40	
Toluene*	<0.050	0.050	12/30/2021	ND	2.05	103	2.00	4.44	
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	2.07	104	2.00	4.53	
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.48	108	6.00	4.77	
Total BTEX	<0.300	0.300	12/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/30/2021	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	12/30/2021	ND	202	101	200	5.41	
DRO >C10-C28*	<10.0	10.0	12/30/2021	ND	195	97.5	200	9.20	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					
Surrogate: 1-Chlorooctane	89.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	93.8	% 59.5-14	2						

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

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	MCINTYRE DK FED #4	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02654	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO NM		

#### Sample ID: AH - 6 ( 1'-2' ) (H213745-15)

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	12/30/2021	ND	2.00	99.9	2.00	6.40	
Toluene*	<0.050	0.050	12/30/2021	ND	2.05	103	2.00	4.44	
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	2.07	104	2.00	4.53	
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.48	108	6.00	4.77	
Total BTEX	<0.300	0.300	12/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/30/2021	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	12/30/2021	ND	202	101	200	5.41	
DRO >C10-C28*	<10.0	10.0	12/30/2021	ND	195	97.5	200	9.20	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					
Surrogate: 1-Chlorooctane	97.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	103	% 59.5-14	2						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	MCINTYRE DK FED #4	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02654	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO NM		

## Sample ID: AH - 7 ( 0-1' ) (H213745-16)

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	12/30/2021	ND	2.00	99.9	2.00	6.40	
Toluene*	<0.050	0.050	12/30/2021	ND	2.05	103	2.00	4.44	
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	2.07	104	2.00	4.53	
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.48	108	6.00	4.77	
Total BTEX	<0.300	0.300	12/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/30/2021	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	12/30/2021	ND	202	101	200	5.41	
DRO >C10-C28*	<10.0	10.0	12/30/2021	ND	195	97.5	200	9.20	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					
Surrogate: 1-Chlorooctane	92.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	97.9	% 59.5-14	2						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	MCINTYRE DK FED #4	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02654	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO NM		

#### Sample ID: AH - 7 ( 1'-2' ) (H213745-17)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2021	ND	2.00	99.9	2.00	6.40	
Toluene*	<0.050	0.050	12/30/2021	ND	2.05	103	2.00	4.44	
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	2.07	104	2.00	4.53	
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.48	108	6.00	4.77	
Total BTEX	<0.300	0.300	12/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/30/2021	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	12/30/2021	ND	202	101	200	5.41	
DRO >C10-C28*	<10.0	10.0	12/30/2021	ND	195	97.5	200	9.20	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					
Surrogate: 1-Chlorooctane	82.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	87.2	% 59.5-14	2						

#### Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
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

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Laboratories	CHAIN-OF	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476		ANALVSIS REOLIEST
Project Manager: Carry Abboth	P.O. #	
	Company: Tetra Tech B	
City: State: Zip:	Attn: Sarn Abbott	-0
Phone #: Fax #:	Address:	
Project #: 2126-MD-02654 Project Owner: Canus Phillips	City:	D
e: Mithine DK	State: Zip:	20-
on: Eddy Country, NM	Phone #:	GR
alter Bickerstell	Fax #:	1
RS		ROISM
(G)RAB OR ( # CONTAINE GROUNDWA WASTEWAT SOIL	OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE	A A A A A A A A A A A A A A A A A A A
2 AM-1 (1-2') G 1 X	× paledra	
3 AH-2 (0-1') 4 AH-2 /1'-21'		
SAH-2(2-3)		
7 A4-3 (0-1)		
9 AH-3 (1-21)		
ID AH-Y CD-Y'S 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 the client for the analyses. All claims includion those for neoligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable	ad in contract or tort, shall be imitted to the amount paid by the client for the e in writing and received by Cardinal within 30 days after completion of the appli	
y Cardinal, regardless of whether Received By:	such claim is based upon any of the above stated reasons or otherwise.	□ Yes A No Add'I Phone #: ailed. Please provide Email address:
Coltan BilXer aff Time: 10	Ha Willey Som Ab	Abboth@ tetra tech.com
Time:	Enerth	Invote, cesults
Delivered By: (Circle One) Observed Temp. °C 2.8 Sample	ndition CHECKED BY: (Initials)	Rush
arrent	Al changes Please email changes to celev keene@cardinallabsnm.com	r -0.5°C
+ Cardinal cannot accent	verbal changes. Please email changes to celey.	Keene(wcarumanausiiii.com

Received by OCD: 2/10/2022 11:28:21 AM

Page 46 of 53

Released to Imaging: 3/4/2022 1:51:21 PM

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bs, NM	orie	
88240	S	-

Page 47 of 53

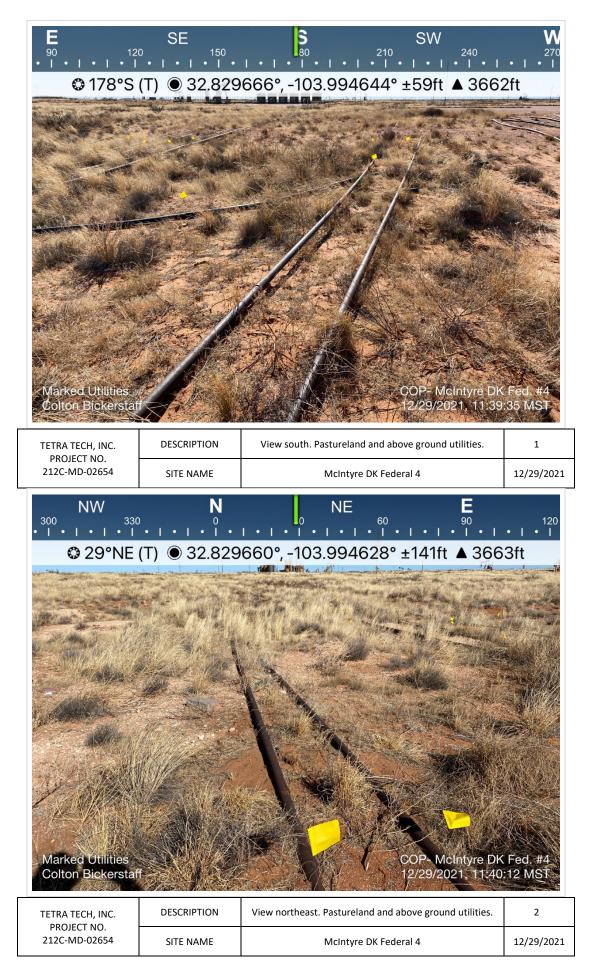
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

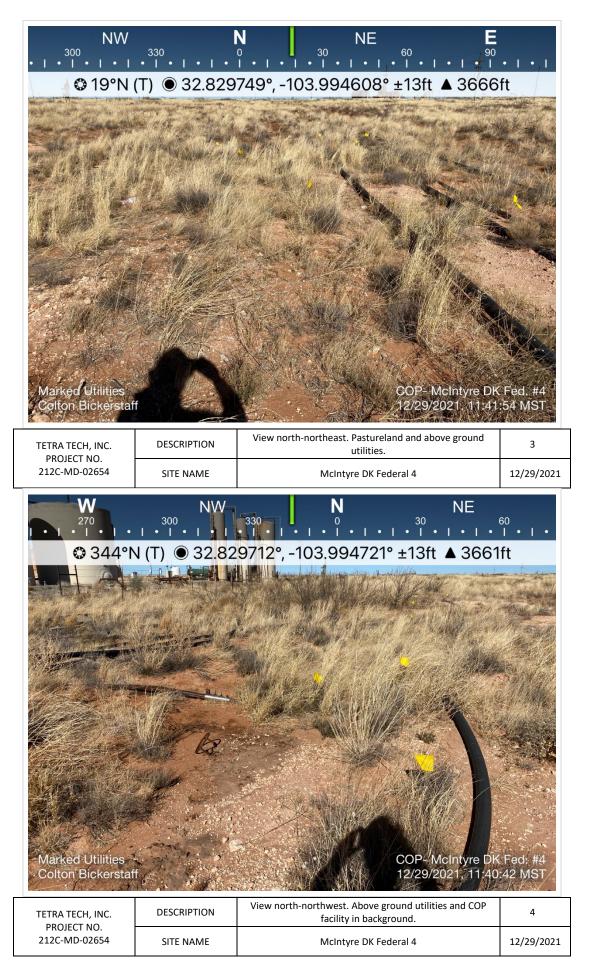
22

Relinquished By: **Relinquished By** Sampler - UPS - Bus - Other: analyses. All claims Delivered By: (Circle One) service. In no event shall Cardinal be liable for incidental or con PLEASE NOTE: Liab Sampler Name: Project Location: Project Name: NUTW Project #:2/2/-MD-02654 City: Phone # Project Manager: elton Address: Company Name:-FOR LAB USE ONLY Lab I.D including those for negligence and any other 7 SALKER U EHout of or related to the perform etra (575) 393-2326 FAX (575) 393-2476 3 Sample I.D. R AbboAt 3 5-2 i 201 -2 1-2 Tech Sickershafe WN Lapuns DK Corrected Temp. Observed Temp. °C time:510 Date: Date: 2/29/24 Time: ental darr + Project Owner: Carolo Phillups Fed. #4 Fax #: Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com State: ver shall be deemed edy for any °° 8.6 il v 4 **Received By** Received By: G (G)RAB OR (C)OMP Zip: **# CONTAINERS** abon, business GROUNDWATER Cool Intact Sample Condition WASTEWATER made in writing and received by Cardinal MATRIX anue SOIL OIL ons, loss of use, or loss of profits incurred by client, its subsidiarie SLUDGE IIII IS D OTHER Fax #: Phone #: State: City: P.O. #: Attn: Address: Company: Tehn ACID/BASE PRESERV P CHECKED BY: CE / COOL any of the above No( 9 (Initials) OTHER BILL TO within 30 days after completion of the applicable to the Zip 12/12/21 DATE Abboth SAMPLING paid by the client for the Turnaround Time: Der Thermometer ID #113 Correction Factor -0.5°C Errail Involue, results to REMARKS: REMARKS: All Results are emailed. Please provide Email address: Verbal Result: 
Ves TIME 80215 BTEX BTEX 8260B ORDY Standard A No No 12/29 500 Add'l Phone #: ANALYSIS Bacteria (only) Sample Condition Cool Intact Observed Temp. Ves Yes Nc No Corrected Temp. 2 s REQUEST Allot Observed Temp. °C Corrected Temp. °C

Received by OCD: 2/10/2022 11:28:21 AM

# APPENDIX E Photographic Documentation







	SHENAME		12/23/2021
NW	<b>N</b> 330 0 1 • 1 • 1 • 1	NE <b>E</b> 30 60 90	1
		9758°, -103.994673° ±22ft ▲ 3662	2ft
	An and a second	THE ME AND	
	A		
AH-1 Sampling L Colton Bickerstaf	ocation f	COP_McIntyre DK 12/29/2021, 11:42	Fed. #4 :34 MST
TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View north-northeast. AH-1 sample location.	6
212C-MD-02654	SITE NAME	McIntyre DK Federal 4	12/29/2021



TETRA TECH, INC.	DESCRIPTION	View north-northwest. AH-3 sample location.	7	
PROJECT NO. 212C-MD-02654	SITE NAME	McIntyre DK Federal 4	12/29/2021	

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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	80643
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

Created By	Condition
bbillings	Approved but evaluate function of liner at P&A

CONDITIONS

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Action 80643

Condition Date 3/4/2022

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