

April 24, 2023

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

Re: Release Characterization and Revised Deferral Request
ConocoPhillips
Heritage Concho
Corsair State #002H Tank Battery Release
Unit Letter A, Section 2, Township 19 South, Range 31 East
Eddy County, New Mexico
Incident ID# nAB1821442233

Ms. Hall:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to assess a Heritage Concho release that occurred at the tank battery located on the Corsair State #002H lease pad (API No. 30-015-38062). The release footprint is located in Public Land Survey System (PLSS) Unit Letter A, Section 2, Township 19 South, Range 31 East, in Eddy County, New Mexico (Site). The approximate release point occurred at coordinates 32.6954956°, -103.8326187°, 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 occurred on July 26, 2018 when lightning struck the facility. The lightning strike damaged several of the tanks inside of the battery, resulting in the release of approximately 250 barrels (bbls) of produced water and 30 bbls of oil. Vacuum trucks were utilized to recover approximately 220 bbls of produced water and 28 bbls of oil during the initial response. The release occurred inside the berm and on the pad area, as shown on Figure 3. The NMOCD approved the initial C-141 on August 2, 2018 and subsequently assigned the release the Incident ID nAB1821442233. The initial C-141 form is included in Appendix A.

This incident is included in an Agreed Compliance Order-Releases (ACO-R) between COG Operating LLC (Concho) and the NMOCD signed on November 20 and 26, 2018, respectively.

### 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. A pipeline right-of-way identified as a New Mexico Office of the State Engineer (NMOSE) stream is located approximately 700 feet southeast of the release Site.

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There are no water wells listed in the NMOSE database located within approximately ½ mile (800 meters) of the site. According to data from one (1) water well listed in the NMOSE database within approximately 3.6 miles (5,789 meters) of the Site, the depth to groundwater is 102 feet below ground surface (bgs).

To comply with the NMOCD directive presented in the November 30, 2022 email rejection, a licensed well drilling subcontractor was onsite on March 8, 2023 to drill a groundwater determination borehole (DTW) to 55 feet bgs at the northwestern edge of the Corsair State #002H lease pad, located approximately 250 feet west of the tank battery. The borehole location is indicated on Figure 4. The borehole was temporarily set and screened using 2-inch PVC well materials: 20 feet of blank casing and 35 feet of 0.010" slotted screen. The borehole was left for 72 hours and checked for the presence of groundwater. The borehole was dry upon drilling, and no water was present in the well after 72 hours. The well screen and casing were removed, and the borehole was plugged with 3/8-inch bentonite chips. The site characterization data, boring log, and temporary well diagram are presented in Appendix B.

### **REGULATORY FRAMEWORK**

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

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

Constituent	RRAL
Chloride	10,000 mg/kg
TPH	2,500 mg/kg
BTEX	50 mg/kg

#### 2018 INITIAL SITE ASSESSMENT AND DEFERRAL REQUEST

Concho conducted initial Site assessment activities in August 2018. One (1) sample trench (T-1) to 6 feet bgs and six (6) boreholes to 3 feet bgs were installed in the release extent. Boreholes BH-1 through BH-3 were installed within the tank battery berm, boreholes BH-4 through BH- were installed on the lease pad west of the berm, and sample trench T-1 was installed on the edge of the lease pad east of the berm. Initial assessment sampling locations are shown in Figure 3.

A total of thirty (30) soil samples were collected from the six (6) boreholes and one (1) trench and sent to Xenco Laboratories in Midland, Texas to be analyzed for chloride via EPA Method 300.0, TPH via EPA Method 8015M and BTEX via EPA Method 8261B.

Analytical results from the August 2018 initial assessment activities are summarized in Table 1. Soil analytical results associated with sample locations BH-1 and BH-3 exceeded the RRAL for BTEX (50 mg/kg) in the 0-1 foot bgs interval. The analytical results associated with the 0-1 foot bgs interval at BH-1 also exceeded the RRAL for TPH (2,500 mg/kg).

Concho summarized the 2018 assessment activities in a Closure Report dated November 8, 2018. A copy of the 2018 Closure Report is available in the NMOCD online incident files.

The NMOCD rejected the 2018 Closure Report in an email from Brittany Hall dated November 30, 2022 with the following comments:

• "The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in

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the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater.

- Horizontal delineation submitted was incomplete and did not meet the requirements of 19.15.29.11 NMAC. The values for determination of horizontal impact are derived by either approved "background" values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less. This is especially important for "on-pad" releases to ensure the release did not extend to the "off-pad"/pasture area. A visual footprint on the surface is not sufficient to assess the horizontal extent of the release. Laboratory data must be provided as evidence of delineation efforts. Any sample exceeding approved "background" values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less requires additional samples for horizontal delineation.
- 2RP-4889 closed. Please refer to incident #nAB1821442233 in all future communications.
- Please submit a complete report through the OCD Permitting website by 3/3/2023."

A request for an extension to June 3, 2023 was approved by Brittany Hall via email dated February 28, 2023. A copy of the regulatory correspondence is included in Appendix C.

### 2023 ADDITIONAL SITE ASSESSMENT AND SAMPLING RESULTS

Following receipt of the NMOCD rejection of the 2018 Closure Report, Tetra Tech conducted additional assessment sampling at the Site on behalf of ConocoPhillips in order to determine the depth to groundwater and the Site and complete horizontal delineation of the release. On March 8, 2023 Tetra Tech installed six (6) hand auger borings (AH-23-1 through AH-23-6) along the perimeter of the reported release extent to complete horizontal delineation. The 2023 boring locations are shown on Figure 4. Photographic documentation of the release Site is presented in Appendix D.

A total of six (6) soil samples were collected from the six (6) borings and sent to Cardinal Laboratories in Midland, Texas to be analyzed for chloride via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8261B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix E.

Analytical results from the 2023 additional assessment activities are summarized in Table 2. All analytical results were below the applicable Site RRALs for all constituents.

### **CONCLUSION**

All analytical results associated with the horizontal delineation to the east, south, and west of the release area were below applicable Site RRALs and/or reclamation requirements. Horizontal delineation was achieved, per NMOCD request. A depth to groundwater boring installed on the lease pad verified that groundwater is not present at 50 feet bgs or less.

Based on the results of the additional release delineation and characterization, ConocoPhillips respectfully requests deferral of the remaining BTEX and TPH impacts present beneath the operating tank battery facility. Remediation and final reclamation of the well pad shall take place in accordance with 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations. The final C-141 forms are enclosed in Appendix A.

Release Characterization and Closure Request April 24, 2023

ConocoPhillips

If you have any questions concerning the soil assessment activities for the Site, please call me at (512) 739-7874.

Sincerely,

Tetra Tech, Inc.

Samantha Abbott, P.G. Project Manager

CC:

Mr. Moises H. Cantu Garcia, BU - ConocoPhillips

Christian M. Llull, P.G. Program Manager

Release Characterization and Closure Request April 24, 2023

ConocoPhillips

### LIST OF ATTACHMENTS

### Figures:

Figure 1 – Overview Map

Figure 2 – Topographic Map

Figure 3 – Approximate Release Extent and Site Assessment (Concho)

Figure 4 – Approximate Release Extent and Additional Assessment (Tetra Tech)

### Tables:

Table 1 – Summary of Analytical Results – 2018 Soil Assessment

Table 2 – Summary of Analytical Results – 2023 Additional Soil Assessment

### Appendices:

Appendix A – C-141 Forms

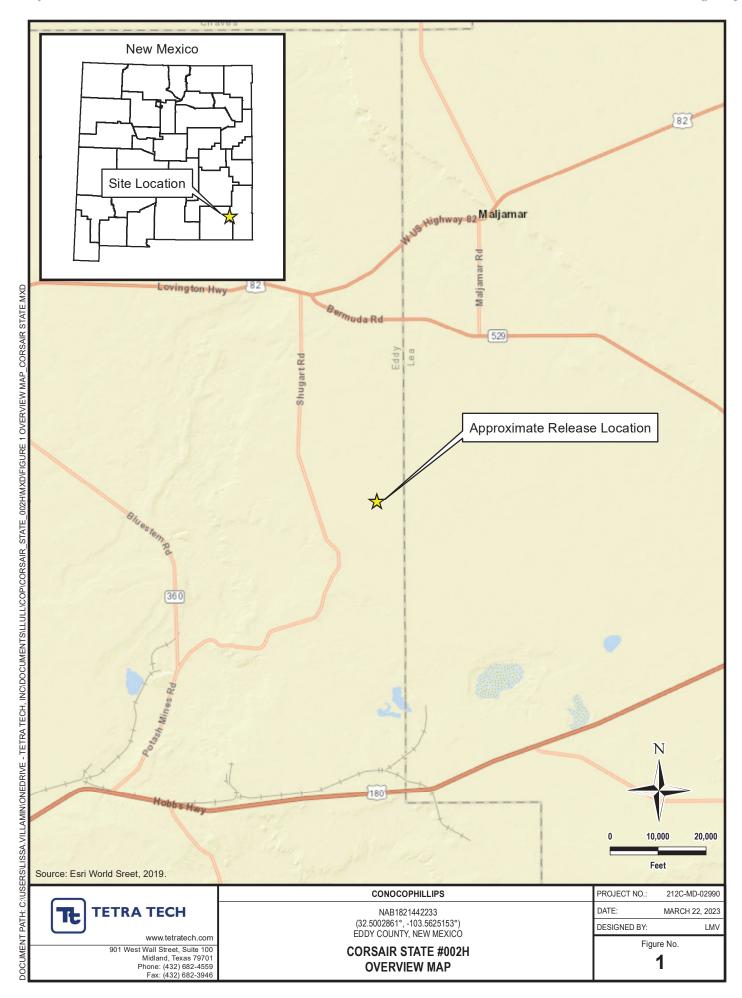
Appendix B – Site Characterization Data

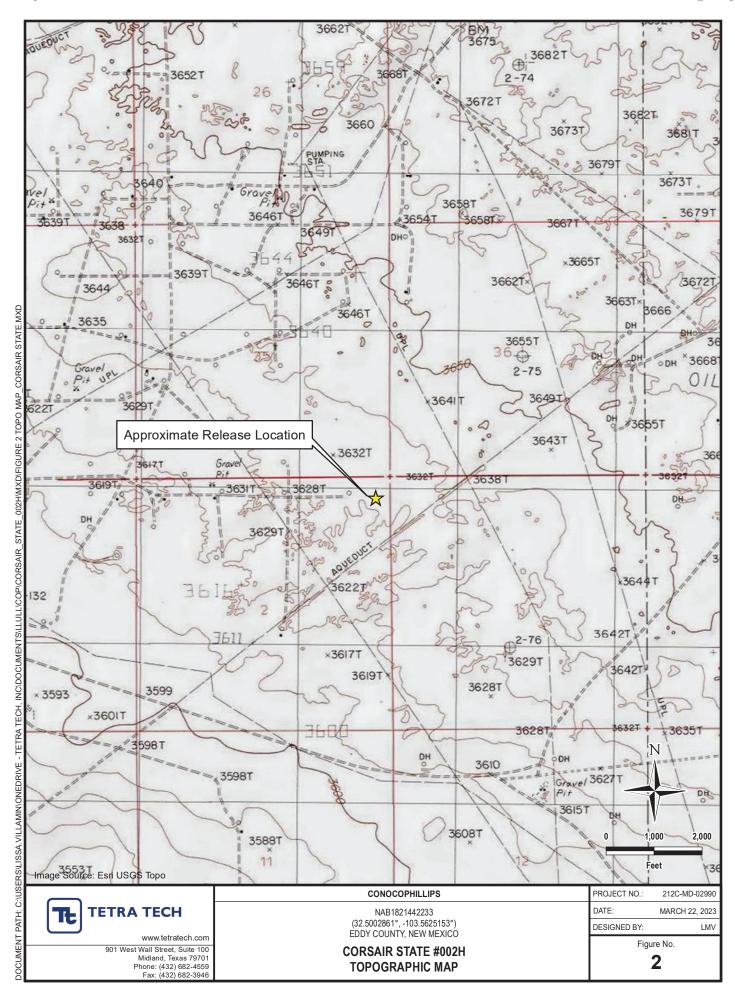
Appendix C – NMOCD Correspondence

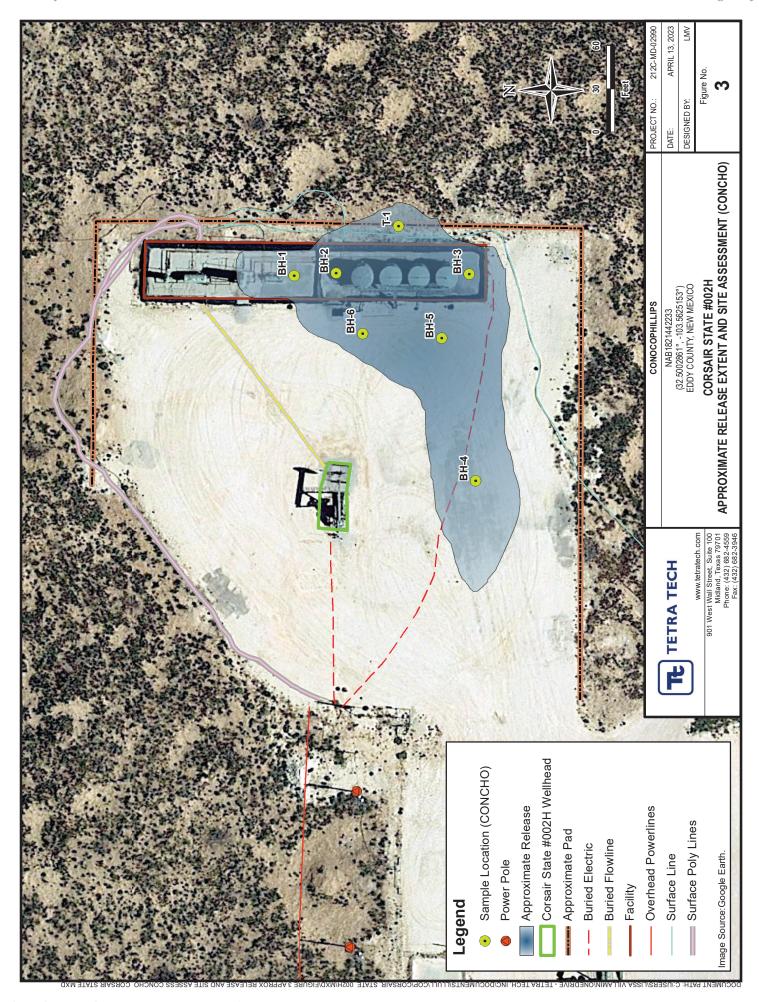
Appendix D – Photographic Documentation

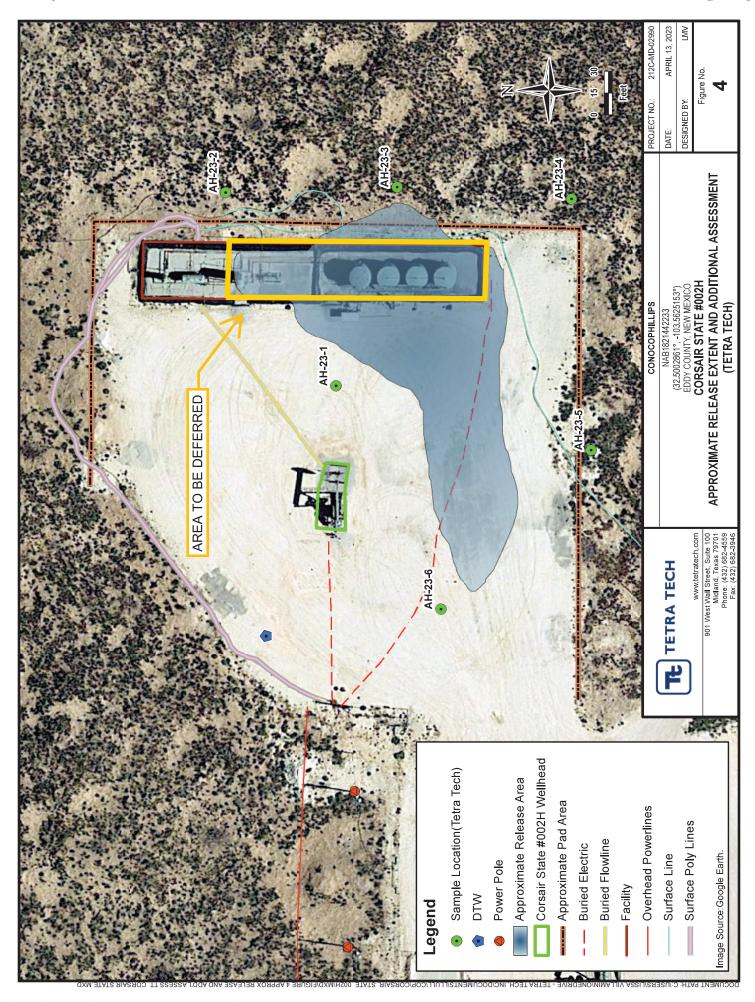
Appendix E - Laboratory Analytical Data

### **FIGURES**









### **TABLES**

2018 SOIL ASSESSMENT - nAB1821442233 SUMMARY OF ANALYTICAL RESULTS CORSAIR STATE #002H EDDY COUNTY, NM CONOCOPHILLIPS TABLE 1

										BTEX <sup>2</sup>										TPH3				
Sample ID	Sample Date	Sample Depth	Chloride	Benzene	ne	Toluene		Ethylbenzene	_	m,p-Xylenes		o-Xylene	1	Fotal Xylenes	Total BTEX	зтех	GRO	-	DRO		MRO	To	Total TPH	
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Ĭ	0/16/3010	2	NA	<0.00199	n e	<0.00199	⊃	<0.00199	· -	<0.00398		<0.00199	0> n	U 60:00199	<0.00199	n 6	<15.0	n	<15.0	n	<15.0	U <1	<15.0	⊃
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		9	NA	<0.00200	0	<0.00200	n	<0.00200	n	<0.00401	n	<0.00200	0> n	<0.00200 U	<0.00200	0	<15.0	n	<15.0	n	<15.0	U <1	<15.0	⊃
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NOTES:																								

Bold and italicized values indicate exceedance of proposed RRALs.

Feet

Motor Oil range organics Sample not analyzed for parameter mg/kg Miligams per kilogram
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics
MRO Motor Oll range organics
Sample not nanlyzed for parameter
1 EPA Method 800.0
2 EPA Method 802.18
3 Method SW801.5 Mod

U Analyte was not detected.

QUALIFIERS:

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2023 ADDITIONAL SOIL ASSESSMENT- nAB1821442233 SUMMARY OF ANALYTICAL RESULTS CORSAIR STATE #002H CONOCOPHILLIPS TABLE 2

			Field							BTEX <sup>2</sup>									TPH <sup>3</sup>		
9	1	Sample Depth	Screening	Chloride <sup>3</sup>	τ,.	9		i di di		Tab. db.	_	Total Video		VITOLOGICA	_	GRO		DRO	EX	EXT DRO	Total TPH
Sample ID	sample Date		Chloride			penzene		1000		cuyibenzene	ע	lotal Aylen	e	lotal big		C <sub>6</sub> - C <sub>10</sub>		> C <sub>10</sub> - C <sub>28</sub>	^	> C <sub>28</sub> - C <sub>36</sub>	(GRO+DRO+EXT DRO)
		ft. bgs	mdd	mg/kg	ď	mg/kg	Ø	mg/kg	Ø	mg/kg	ď	mg/kg	Ø	mg/kg	Ø	mg/kg	Ö	mg/kg Q	mg/kg	ď	mg/kg
AH-23-1	3/8/2023	0-1	360	320		<0.050		<0.050		<0.050		<0.150	H	<0.300		<10.0		<10.0	<10.0		
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AH-23-3	3/8/2023	0-1	13.7	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0	<10.0		
AH-23-4	3/8/2023	0-1	15.8	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0	<10.0		
AH-23-5	3/8/2023	0-1	17.5	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0	<10.0		
AH-23-6	3/8/2023	0-1	125	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0	<10.0		
NOTES.																					

Feet

Below ground surface pgs

Total Petroleum Hydrocarbons mg/kg Milligrams per kilogram

Gasoline range organics GRO

Diesel range organics

Method 8015M Method 8021B

Method SM4500CI-B

QUALIFIERS:

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

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# **APPENDIX A C-141 Forms**

### Received by OCD: 4/24/2023 2:12:49 PM

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

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

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

Page 15 of 47 DCD Rec. et 0/131 Form C-141 Revised April 3, 2017

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

			Rele	ase Notific	atior	and Co	rrective A	ction	ı		
NAB18	2 442	233				<b>OPERA</b>	ror			l Report 🔲 Fin	al Report
				OGRID #22913		Contact:		ert Mc			
				nd, TX 79701		Telephone N		<del>683-74</del>	43		
Facility Nar	ne: Corsa	ir State #002	2H			Facility Typ	e: Tank Battery	•			
Surface Ow	ner: Sta	te		Mineral C	)wner:	State			API No.	30-015-38062	
				LOCA	TIOI	N OF REI	LEASE				
Unit Letter A	Section 02	Township 19S	Range 31E	Feet from the 480		/South Line North	Feet from the 330	ı	West Line East	County Eddy	
	<u> </u>		La	titude 32.6954	956 Lo	ngitude -10	3.8326187 NAI	083			
				NAT	URE	OF RELI	EASE				
Type of Rele	ase					Volume of			Volume R	ecovered	
		Oil & Produc	ed Water			30 bbl. Oil			28 bbl. Oil		
Source of Re	loono						oduced Water  lour of Occurrence			roduced Water Hour of Discovery	
Source of Re	icase	Lightning	Strike			July 26, 20		e		118 8:30am	
Was Immedia	te Notice C	Given?				If YES, To			, , , , , , , , , , , , , , , , , , ,		
			Yes 🗌	No 🗌 Not Re	equired		ther – NMOCD				
						Ryan Manı Maria Prue	n – SLO nt – NMOCD				
By Whom? R	ebecca Has	kell					lour July 26, 2018	3 2:16pr	n		
Was a Water							lume Impacting t				
			Yes 🛚	No							
If a Watercou	rse was Im	pacted, Descri	ibe Fully.*	1		·					
Describe Cau	se of Proble	em and Reme	dial Action	Taken.*							
The release u	os coused b	y a lightning	strika								
The release w	as causeu t	y a ngilling	Silike.			-					
Describe Are	a Affected a	and Cleanup A	Action Tak	en.*							
The release w	as in the co	ntainment an	d on locati	on A vacuum tru	ick was i	dispatched to	remove all freests	anding (	fluids Conc	no will have the spill a	rea
									prior to any significan		
remediation a	ctivities.			<u> </u>			•				
										ant to NMOCD rules a	
nublic health	or the envi	are required to	report an	e of a C-141 reno	erease no	otifications ar	id periorm correc	tive acti	ons for rele	ases which may endang	ger ili <del>s</del> v
should their o	perations h	ave failed to a	dequately	investigate and re	emediate	e contaminati	on that pose a thre	eat to gr	ound water.	surface water, human	health
or the enviror	ment. In a	ddition, NMC	CD accep							mpliance with any other	
federal, state,	or local lav	ws and/or regu	lations.								
							OIL CONS	<u>SERV</u>	ATION !	<u>DIVISION</u>	
Signature:		Dellano	vant.								
		(	)	-		Approved by	Environmental S <sub>1</sub>	necialis	. //	Ø	
Printed Name	<u>:</u>	DeAnn Gran	nt			FF	0		Mari	r Gruett	
Title:		HSE Admir	istrative A	Assistant		Approval Dat	e: 8/2/18	1	Expiration D	ate: NIA	
E-mail Addre	88.	agrant@cor	icho com			Conditions of	Annroyal:				
		ugi mittue OI				Conditions 01	Blea	HAM	had	Attached	000
Date: July 30	, 2018		Pho	one: (432) 253-45	513		Xl U	TIM	nur	ann-4	889

Operator/Responsible Party,

The	OCD	has	received	the	form	C-141	you	provid	ded	on _0	7/30/18_				regarding	an	unauthorized
rele	ase.	The	informatio	n co	ntaine	ed on	that	form	has	been	entered	into	our	incident	database	and	remediation ndence.
case	nun	nber	2KP-4	<u>884</u>	ha	s been	assig	ned. I	Pleas	e refe	r to this c	ase n	umb	er in all fo	uture corre	spor	ndence.

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 \_2\_\_ office in Artesia\_ on or before \_\_08/26/18\_\_\_\_\_\_. 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; C<sub>6</sub> thru C<sub>36</sub>), 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; C<sub>6</sub> thru C<sub>36</sub>), 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

### **Bustamante, Amalia, EMNRD**

From: Pruett, Maria, EMNRD

Sent: Wednesday, August 1, 2018 6:34 AM

To: Bustamante, Amalia, EMNRD

**Subject:** FW: (C-141 Initial) Corsair State #002H (30-015-38062) 07-26-2018

Attachments: revised C-141 directive of 11-4-16.pdf; OCD Received Signed (C-141 Initial) Corsair State

#002H (30-015-38062) 07-26-2018.pdf

Good Morning Amalia,

Please find attached the dated/signed C-141 and directive. Again, if Mike gave this too you already please disregard.

Best Regards,

Environmental Specialist

Maria Pruett

N.M. Oil Conservation Division

District 2 811 S. 1<sup>st</sup> Street

Artesia, NM 88210 Desk: 575 748-1283 X 101

Cell: 575 840-5963 Fax: 575748-9720

From: DeAnn Grant <agrant@concho.com> Sent: Monday, July 30, 2018 3:58 PM

To: Pruett, Maria, EMNRD < Maria. Pruett@state.nm.us>; Mann, Ryan < rmann@slo.state.nm.us>

**Cc:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Ike Tavarez <itavarez@concho.com>; Robert McNeill <RMcNeill@concho.com>; Sheldon Hitchcock <SLHitchcock@concho.com>; Dakota Neel <DNeel2@concho.com>;

Rebecca Haskell <RHaskell@concho.com>; DeAnn Grant <agrant@concho.com>

Subject: (C-141 Initial) Corsair State #002H (30-015-38062) 07-26-2018

Ms. Pruett/Mr. Mann,

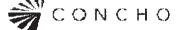
Please find the attached Initial C-141 for your consideration. If you have any questions or concerns please contact me.

Thank you,

### DeAnn Grant

HSE Administrative Assistant
agrant@concho.com
COG Operating LLC
600 W Illinois Avenue | Midlan

600 W Illinois Avenue | Midland, TX 79701 Direct: 432-253-4513 | Main: 432.683.7443



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re of New Mexico

Incident ID	nAB1821442233
District RP	
Facility ID	
Application ID	

### Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>50 (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 vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
<ul> <li>✓ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well</li> <li>✓ Field data</li> <li>✓ Data table of soil contaminant concentration data</li> <li>✓ Depth to water determination</li> <li>✓ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>☐ Boring or excavation logs</li> <li>✓ Photographs including date and GIS information</li> <li>✓ Topographic/Aerial maps</li> <li>✓ Laboratory data including chain of custody</li> </ul>	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: 4/24/2023 2:12:49 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 21 of	47
Incident ID	nAB1821442233	
District RP		
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Moises H. Cantu Garcia Title: Sr. Environmental Engineer Date: 4/24/2023 Moises H Cantu Garcia Signature: email: Moises.H.CantuGarcia@conocophillips.com Telephone: 432-688-6090 **OCD Only** 04/24/2023 Received by: Jocelyn Harimon Date:

Page 22 of 47

Incident ID nAB1821442233

District RP
Facility ID
Application ID

### **Remediation Plan**

Remediation Plan Checklist: Each of the following items must b	e included in the plan
Detailed description of proposed remediation technique  Scaled sitemap with GPS coordinates showing delineation point  Estimated volume of material to be remediated  Closure criteria is to Table 1 specifications subject to 19.15.29.  Proposed schedule for remediation (note if remediation plan times)	ts 12(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con	afirmed as part of any request for deferral of remediation
	roduction equipment where remediation could cause a major facility
✓ Extents of contamination must be fully delineated.	
✓ Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: Moises H. Cantu Garcia	Title: Sr. Environmental Engineer
Signature: Moises H Cantu Garcia	Date: _4/24/2023_
email: Moises.H.CantuGarcia@conocophillips.com	Telephone: 432-688-6090
OCD Only	
Received by: Jocelyn Harimon	Date: 04/24/2023
☐ Approved ☐ Approved with Attached Conditions of	Approval ☐ Denied ☐ Deferral Approved
Signature: Hall	Date: 4/27/2023

### **APPENDIX B Site Characterization Data**

0.19 mi

1:4,514 0.1

0.05

0.15

NM OCD Oil and Gas Map. http://mm-emnrd.maps.arcgls.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division Divisi Esri, HERE, Garmin, iPC, Maxar, NM OSE



2/8/2023, 2:24:12 PM OSE Streams

0.6 km

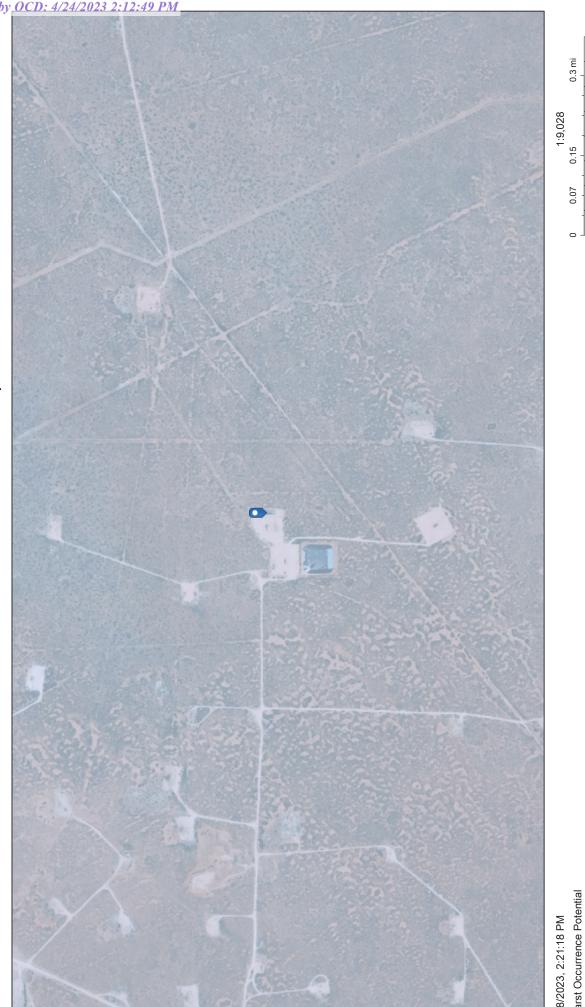
0.3

0.3 mi

0.07

0

Released to Imaging: 4/27/2023 11:41:51 AM



Karst Occurrence Potential

2/8/2023, 2:21:18 PM

Low

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



# 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 Cou	unty 6	4 16	4	Sec 7	Tws	Rng	X	Υ	Distance	Well	Water Column
CP 00849 POD1	CP L	.E :	3 1	3	35	18S	31E	608012	3618757* 🌑	1586	300	
CP 01938 POD1	CP L	.E	1 4	1	32	18S	32E	613277	3619332 🌍	3987	51	
CP 00829 POD1	CP L	E.	2	4	16	19S	31E	606165	3614009* 🎒	5290	120	
CP 01554 POD1	CP L	.E 2	2 2	1	22	19S	31E	607166	3613354 🌑	5310	400	
CP 01554 POD2	CP L	.E 2	2 2	1	22	19S	31E	607165	3613322 🌑	5339	400	
CP 00563 POD1	CP L	.E	1 1	2	19	19S	32E	612118	3613376* 🌑	5447	300	
CP 00640 POD1	CP L	.E	2	2	19	19S	32E	612621	3613280* 🌍	5789	260	102 158

Average Depth to Water: 102 feet

**DEPTH TO WATER** 

Minimum Depth: 102 feet

Maximum Depth: 102 feet

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 609472.33 Northing (Y): 3618138.17 Radius: 5800

\*UTM location was derived from PLSS - see Help

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

212C-MD-02990	TE TETRA	TECH	LOG OF BORING Corsair State #002H DTW	Page 1 of 1
Project Name: C	orsair State #002H			
Borehole Location	GPS Coordinates: 32.695	5595°, -103.832960°	Surface Elevation: 3633 ft	
Borehole Number:0	Corsair State #002H D	DTW Bor	rehole meter (in.): 8 Date Started: Date Finished:	3/8/2023
Q. Que	om) RY (%) ENT (%)	Mark Market	WATER LEVEL OBSERVATIONS  While Drilling   □ DRY ft Upon Completion of Drilling  □ DRY  Remarks:	RY_ft
DEPTH (ft)  OPERATION TYPE  SAMPLE  CHLORIDE FIELD  SCREENING (ppm)	<b>─</b> ──	DRY DENSITY (pcf)    LIQUID LIMIT   PLASTICITY INDEX   MINUS NO. 200 (%)	MATERIAL DESCRIPTION  (f)	REMARKS
Sampler Types: Split Spo	Acetate Liner	LL PI   □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	SC- CLAYEY SAND: Light brown, fine-grained, dry, partially cemented, with gravel-sized caliche SP- SAND: Light brown, loose, dry, fine- to coarse-grained, partially cemented SP-SC- SAND: Light brown, loose, fine- to coarse-grained, dry, with cemented fragments and clayey sand pockets SP-SC- SAND: Pale brown to light brown, loose, fine- to coarse-grained, dry, intermixed with clayey sand, with caliche SP- SAND: Pale brown, fine- to coarse-grained, dry, with rounded pebble-sized caliche  SP- SAND: Light reddish brown, fine- to coarse-grained, dry, with caliche fragments and pebble-sized rounded gravel  -CL- CLAY: Reddish brown, intermixed with coarse-grained sand, dry, with caliche fragments -SM- SAND: Reddish brown, loose, uncemented to weakly cemented, fine-grained, dry, trace clay, with caliche fragments -SP- SAND: Reddish brown, loose, fine- to coarse-grained, dry, some gravel, trace caliche  -SP- SAND: Reddish brown, loose, fine- to coarse-grained, dry, some gravel, trace caliche  -CL- CLAY: Brown, hard, intermixed with sand and subangular gravel, trace caliche  -SM- SAND: Brown, fine- to coarse-grained, dry, with clay fragments  -CL- CLAY: Brown, hard, dry, trace sand -SM- SAND: Brown, fine- to coarse-grained, dry, with clay fragments  -CL- CLAY: Brown, hard, dry, trace sand -SM- SAND: Sarday Sar	ed from
Sam Sam Sam	Sample Sample	Continuous Flight Auger Wash Rotary	Direct Push Core Barrel	
Logger: Colton Bi	ckerstaff	Drilling Equipment:	: Air Rotary Driller: Scarborough Drilling	

### **APPENDIX C Regulatory Correspondence**

 From:
 OCDOnline@state.nm.us

 To:
 Beauvais, Charles R

Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 162745

Date: Wednesday, November 30, 2022 3:44:08 PM

**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#) nAB1821442233, for the following reasons:

- The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater.
- Horizontal delineation submitted was incomplete and did not meet the requirements of 19.15.29.11 NMAC. The values for determination of horizontal impact are derived by either approved "background" values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less. This is especially important for "on-pad" releases to ensure the release did not extend to the "off-pad"/pasture area. A visual footprint on the surface is not sufficient to assess the horizontal extent of the release. Laboratory data must be provided as evidence of delineation efforts. Any sample exceeding approved "background" values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less requires additional samples for horizontal delineation.
- 2RP-4889 closed. Please refer to incident #nAB1821442233 in all future communications.
- Please submit a complete report through the OCD Permitting website by 3/3/2023.

The rejected IM-BNF can be found in the OCD Online: Permitting - Action Status, under the Application ID: 162745.

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

### Abbott, Sam

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

Sent: Tuesday, February 28, 2023 9:46 AM

**To:** Abbott, Sam

Cc: Beauvais, Charles R; Llull, Christian; Chavira, Lisbeth

Subject: RE: [EXTERNAL] Extension Request - Application ID 162745 (Incident ID nAB1821442233)

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

Sam.

Your extension request for nAB1821442233 is approved. The new due date is June 3, 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: Abbott, Sam <Sam.Abbott@tetratech.com>

Sent: Tuesday, February 28, 2023 7:56 AM

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

Cc: Beauvais, Charles R < Charles.R.Beauvais@conocophillips.com>; Llull, Christian < Christian.Llull@tetratech.com>;

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

Subject: [EXTERNAL] Extension Request - Application ID 162745 (Incident ID nAB1821442233)

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 3, 2023) to complete additional assessment activities and associated reporting for the Corsair State #002H Release site (nAB1821442233).

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 extension is required to safely complete the additional assessment. ConocoPhillips plans to conduct the additional assessment in the coming month however, and once the sampling data is collected, tabulated, and evaluated, a revised report will be submitted to the OCD.

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

Sam

Samantha Abbott, PG | Project Manager

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

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

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

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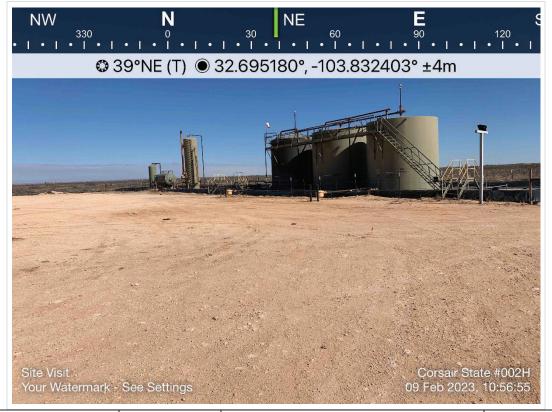
f in Please consider the environment before printing. Read more



# APPENDIX D Photographic Documentation



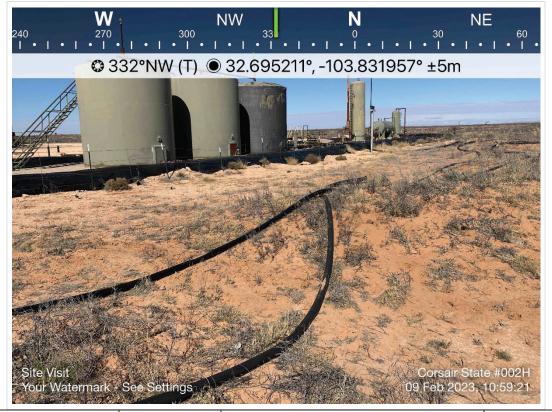
TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View northeast/east of Site pad conditions. Staining shown.	1
212C-MD-02990	SITE NAME	Corsair State #002H	2/9/2023



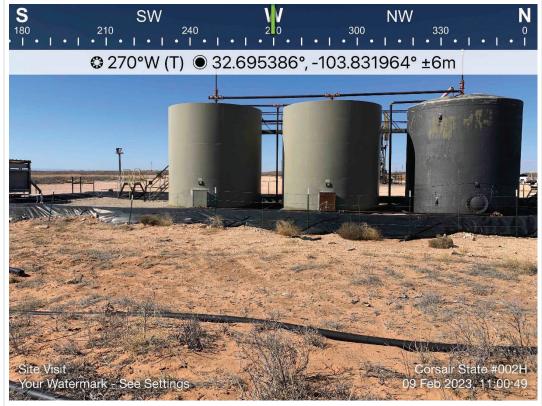
TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View northeast of stained Site pad area adjacent to tank batteries.	2
212C-MD-02990	SITE NAME	Corsair State #002H	2/9/2023



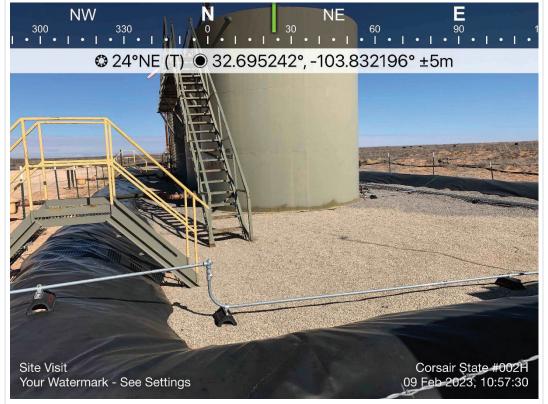
TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View north/northwest of stained Site pad area adjacent to tank batteries.	3
212C-MD-02990	SITE NAME	Corsair State #002H	2/9/2023



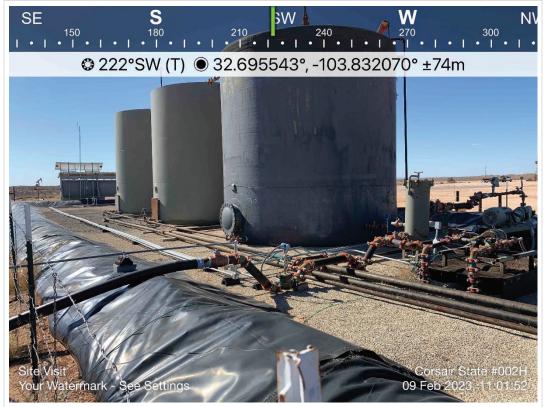
TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View north of pastureland on east perimeter of Site pad. Surface polylines shown.	4
212C-MD-02990	SITE NAME	Corsair State #002H	2/9/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View south/southwest of pastureland. Surface polylines shown.	5
212C-MD-02990	SITE NAME	Corsair State #002H	2/9/2023



TETRA TECH, INC.	DESCRIPTION	View north/northeast of tank battery. Staining visible in gravel within liner.	6
PROJECT NO. 212C-MD-02990	SITE NAME	Corsair State #002H	2/9/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View southwest of tank battery. Staining visible in gravel within liner.	7
212C-MD-02990	SITE NAME	Corsair State #002H	2/9/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View south of lease pad east of tank battery.	8
212C-MD-02990	SITE NAME	Corsair State #002H	2/9/2023

### **APPENDIX E Laboratory Analytical Data**



March 15, 2023

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

RE: CORSAIR STATE #002H

Enclosed are the results of analyses for samples received by the laboratory on 03/09/23 14:10.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/09/2023 Sampling Date: 03/08/2023

Reported: 03/15/2023 Sampling Type: Soil

Project Name: CORSAIR STATE #002H Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02990 Sample Received By: Shalyn Rodriguez

Applyand By 14

Project Location: COP - EDDY COUNTY, NEW MEXICO

### Sample ID: AH-23-1 (0-1') (H231095-01)

DTEV 0021D

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	03/10/2023	ND	2.04	102	2.00	3.78	
Toluene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	3.68	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.03	101	2.00	2.87	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.23	104	6.00	2.93	
Total BTEX	<0.300	0.300	03/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	320	16.0	03/10/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	232	116	200	10.0	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	221	110	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					
Surrogate: 1-Chlorooctane	82.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.6	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/09/2023 Sampling Date: 03/08/2023

Reported: 03/15/2023 Sampling Type: Soil

Project Name: CORSAIR STATE #002H Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02990 Sample Received By: Shalyn Rodriguez

Analyzed By: 14

Project Location: COP - EDDY COUNTY, NEW MEXICO

### Sample ID: AH-23-2 (0-1') (H231095-02)

RTFY 8021R

BIEX 8021B	mg	/ Kg	Anaiyze	ea By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2023	ND	2.04	102	2.00	3.78	
Toluene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	3.68	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.03	101	2.00	2.87	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.23	104	6.00	2.93	
Total BTEX	<0.300	0.300	03/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (P	ID 103	% 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	03/10/2023	ND	400	100	400	3.92	
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	03/10/2023	ND	232	116	200	10.0	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	221	110	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					
Surrogate: 1-Chlorooctane	84.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.8	% 49.1-14	8						
Surrogate: 1-Chlorooctane	84.7	% 48.2-13	4	ND					

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/09/2023 Sampling Date: 03/08/2023

Reported: 03/15/2023 Sampling Type: Soil

Project Name: CORSAIR STATE #002H Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02990 Sample Received By: Shalyn Rodriguez

Analyzed By: 14

Project Location: COP - EDDY COUNTY, NEW MEXICO

### Sample ID: AH-23-3 (0-1') (H231095-03)

RTFY 8021R

B1EX 8021B	mg,	кg	Апатуге	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2023	ND	2.04	102	2.00	3.78	
Toluene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	3.68	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.03	101	2.00	2.87	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.23	104	6.00	2.93	
Total BTEX	<0.300	0.300	03/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/10/2023	ND	400	100	400	3.92	
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	03/10/2023	ND	200	99.9	200	3.93	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	215	108	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					
Surrogate: 1-Chlorooctane	98.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

**TETRA TECH** SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/09/2023 Sampling Date: 03/08/2023

Reported: 03/15/2023 Sampling Type: Soil

Project Name: CORSAIR STATE #002H Sampling Condition: Cool & Intact Project Number: 212C - MD - 02990 Sample Received By: Shalyn Rodriguez

Project Location: COP - EDDY COUNTY, NEW MEXICO

### Sample ID: AH-23-4 (0-1') (H231095-04)

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	03/10/2023	ND	2.04	102	2.00	3.78	
Toluene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	3.68	
Ethylbenzene*	< 0.050	0.050	03/10/2023	ND	2.03	101	2.00	2.87	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.23	104	6.00	2.93	
Total BTEX	<0.300	0.300	03/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 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	32.0	16.0	03/10/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	200	99.9	200	3.93	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	215	108	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					
Surrogate: 1-Chlorooctane	92.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	49.1-14	8						

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Celey D. Keene



### Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/09/2023 Sampling Date: 03/08/2023

Reported: 03/15/2023 Sampling Type: Soil

Project Name: CORSAIR STATE #002H Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02990 Sample Received By: Shalyn Rodriguez

Analyzed By: 14

Project Location: COP - EDDY COUNTY, NEW MEXICO

### Sample ID: AH-23-5 (0-1') (H231095-05)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a BA: TH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2023	ND	2.04	102	2.00	3.78	
Toluene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	3.68	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.03	101	2.00	2.87	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.23	104	6.00	2.93	
Total BTEX	<0.300	0.300	03/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/10/2023	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	200	99.9	200	3.93	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	215	108	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					
Surrogate: 1-Chlorooctane	92.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/09/2023 Sampling Date: 03/08/2023

Reported: 03/15/2023 Sampling Type: Soil

Project Name: CORSAIR STATE #002H Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02990 Sample Received By: Shalyn Rodriguez

Analyzed By: 14

Project Location: COP - EDDY COUNTY, NEW MEXICO

### Sample ID: AH-23-6 (0-1') (H231095-06)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a BA: TH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2023	ND	2.04	102	2.00	3.78	
Toluene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	3.68	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.03	101	2.00	2.87	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.23	104	6.00	2.93	
Total BTEX	<0.300	0.300	03/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	160	16.0	03/10/2023	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	200	99.9	200	3.93	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	215	108	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					
Surrogate: 1-Chlorooctane	92.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Celey D. Keene



### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

\*\*\* Insufficient time to reach temperature.

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

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

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Celeg D. Kreene



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Tetra Tech	Tetra Tech												112	BILL TO					ANA	2010	2	101					
Project Manager: Sam Abbott	: Sam Abbott									P.O. #:	*	1	- 18			7	1		745	אייירו סוס אבעטבטו	75	- 2	-	-	-	1	
Address: 8911 C	Address: 8911 Capital o Texas Hwy, Suite 2310	te 2310								Cor	npar	ı yı	etra	Company: Tetra Tech								_					
City: Austin		State: TX	Zip:							Attn: Sam Abbott	Sa	m A	odd	#							2					_	
Phone #:	(512)565-0190	Fax #:								30	Ser	Address: EMAIL	AL										_			8	
Project #:	212C-MD-02990	Project Owner:			0	ConocoPhillips	coP			City:	"		-			10	-										
Project Name: Co	Project Name: Corsair State #002H									State:	 e		N	Zip:												_	
Project Location	Project Location: Eddy County, New Mexico	xico				-				Phone #:	ne #							I-B			y.						
Sampler Name: C	Sampler Name: Colton Bickerstaff					-				Fax #:	#							0C						×			
FOR LAB USE ONLY					П	11	MA	MATRIX		P	RES	PRESERV.		SAMPLING	NG			50									
Lab I.D.					T					4	-		7	-	100		3	[4:							_		
	Sample I.D.	I.D.	R (C)OMP	INERS	WATER	ATER				E.		-				8015M	8021I	de SM	,	4							
19310%			(G)RAB C	# CONTA	GROUND	WASTEW	SOIL	OIL	SLUDGE	OTHER:		OTHER:		DATE	TIME	TPH :	BTEX	Chlori							7		
_	AH-23-1 (0-1')		G	-		$\overline{}$	×	$\overline{}$	$\rightarrow$	$\overline{}$	_		$\forall$	3/8/2023		×	×	×	1	+	4	+	+	+	+		
છ	AH-23-2 (0-1')		G	1			×			-	×	^	+	3/8/2023		×	×	×	_	+	4	+	+	+	+	1	
. U	AH-23-3 (0-1')		G	-			×		Ш	$\vdash$	X	^		3/8/2023		×	×	×		+	4	+	+	+	+	_	
1	AH-23-4 (0-1')		G	1			×	-	_	$\vdash$	×	_		3/8/2023		×	×	X				-	$\dashv$	$\dashv$	$\dashv$		
	AII-23-3 (0-1)		G	-			×	_	L	_	X	_		3/8/2023		×	×	×				_					
6	AH-23-6 (0-1')		G	-			×	-	$\perp$	+	×			3/8/2023		×	×	×	$\perp$	+	$\perp$	+	+	+	+		
								+	+	++-	++-		++							+	+	+++					
event shall Cardinal be liable for affiliates or successors arising o	recover nutric users and bringer. Custimate studies and defict exclusion enough for any claim mixing whether based in contract or but, shall be lended to the amount paid by the client for the amount paid by the amount paid by the client for the	in entendy for any claim asking whether based in content or tors, shall be limited to the amount paid by the client for the analyses. All claims involving without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, enrices hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	based in on interruption fless of v	contract ons, los whether	or lort, i	shall be e, or lo slaim is	limited ss of p based	to the a rofits in upon a	mount curred my of t	by clie	he clien nt, its s e state	t for the ubsidia d reaso	analy ries, ms or o	laims	including those for negligence and any other cause whatsoeve	gligence	and any other	r cause whats		deemed wa	ived unless	made in writ	ing and recei	ved by Cardi	nal within 30 da	shall be deemed waiwed unless made in writing and received by Cordinal within 30 days after completion of the	tion of the a
Relinquished By:	Relinquished By: Colton Bickerstaff	Date: 3/9/23	Received By:	Pivec	By	) "	5	1	2		>		_	All	Verbal Result: ☐ Yes ☐ No ☐ Add*! Phone #: All Results are emailed. Please provide Email address: Sam.Abbott@tetratech.com	email	Yes 🗆 ed. Pleas	No e provide	Email ac	dd'l Pho	ne #: Sam.Ab	oott@te	ratech.co	m			
Relinquished By:			Received By:	ived	By	(	-		-	5	5	(	6	RE	REMARKS:												
Delivered By: (Circle One)		Observed Temp. °C	)	_	20	Sample Condition	5	1	3	+	2	CHECKED BY:	5			2											
Sampler - UPS - Bus - Other	her:	Corrected Temp. °C 442	2	1 '	N O	Cool Intact	In last	g 2			^	1 1	(Initials)		Rush: NIA, Standard TAT	TAT	<b>*</b>	Cool Intact	ol Intact Observed Temp. "C	emp. °C							
		4.3:			П	No C		No				d	K	Cor	Thermometer ID #113 Correction Factor -0.5°C	#113 -0.5°	0				☐ Yes ☐ Yes ☐ Yes ☐ No ☐ No Corrected Temp. °C	Correcte	Temp. °C				
																					100	And and a second	o dimen				

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

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

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

CONDITIONS

Action 210251

### **CONDITIONS**

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	210251
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
bhall	Deferral approved. Remediation will need to be completed when the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	4/27/2023
bhall	Incident number will remain in "closure not approved" status until remediation is completed and closure is requested and subsequently approved.	4/27/2023
bhall	if the site is not reasonably needed for production operations or for subsequent drilling operations at time of remediation, the site will also need to meet 19.15.29.13 NMAC.	4/27/2023