

December 28, 2016

Oil Conservation Division District 2 – Artesia 811 S. First St. Artesia, NM 88210

Re:

Firefox 4 Federal Com #005H 30-015-41423 Sec. 4, T19S-R31E Eddy County, NM

Mr. Bratcher/Ms. Tucker,

COG Operating LLC would like to submit the enclosed documents for closure of the above captioned well. The closure request is in response to the C-141 Initial report dated September 16, 2016.

The impacted area of the pasture was sampled on October 14, 2016 to delineate any possible contamination from the release. Attached you will find a site diagram depicting the release area and location of sample points along with the corresponding analytical results. According to the analytical results, no excavation is required.

A signed C-141 Final is enclosed for your consideration. Please feel free to contact me with any questions or concerns at (575) 748-6933.

Sincerely,

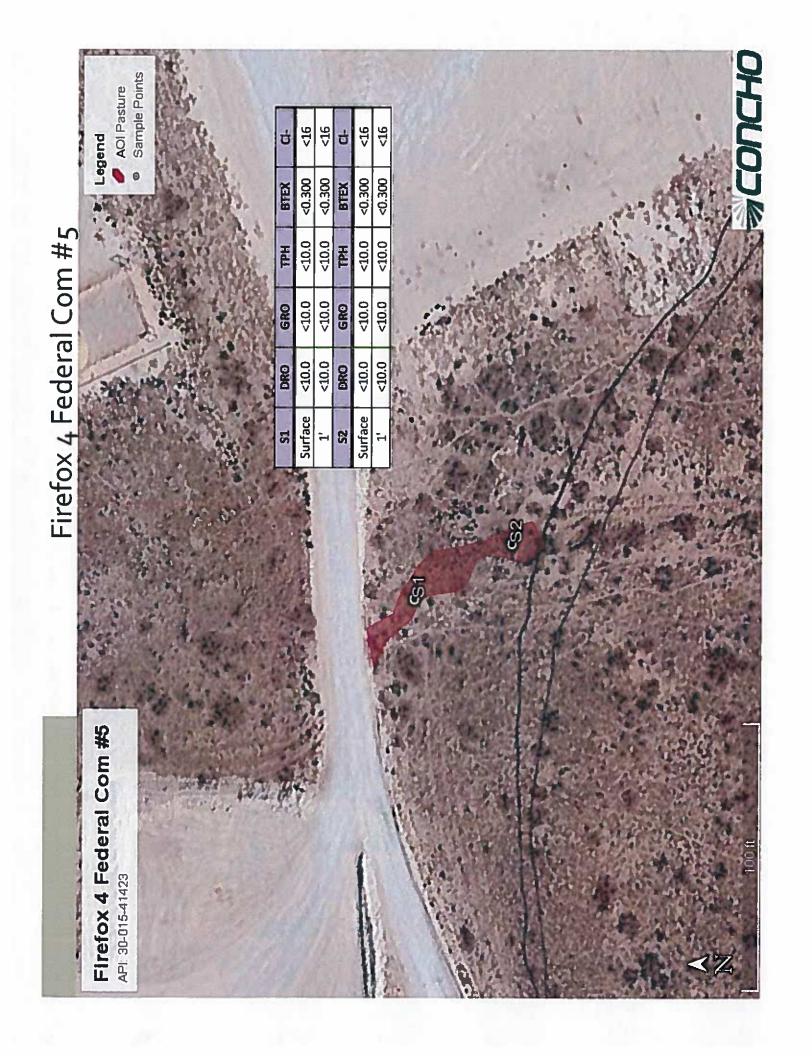
Dakota Neel

Environmental Coordinator

abox News

Enclosed

- (1) Site Diagram
- (2) Analytical Results
- (3) C-141 Initial (Copy)
- (4) C-141 Final





October 18, 2016

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: FIREFOX 4 FED COM #5H

Enclosed are the results of analyses for samples received by the laboratory on 10/12/16 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab-accred-certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:

10/12/2016

Reported:

10/18/2016

Project Name:

FIREFOX 4 FED COM #5H

Project Number: Project Location:

NONE GIVEN EDDY COUNTY Sampling Date:

Sampling Type:

10/04/2016

ng Type:

Soil

Sampling Condition:

Cool & Intact Angela Cabrera

Sample Received By:

Sample ID: S1 - SURFACE (H602306-01)

BTEX 80218	mg/	'kg	Analyze	d By: CK	-				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/14/2016	ND	2.35	118	2.00	0.427	
Toluene*	<0.050	0.050	10/14/2016	ND	2.44	122	2.00	0.401	
Ethylbenzene*	<0.050	0.050	10/14/2016	ND	2.37	118	2.00	0.470	
Total Xylenes*	<0.150	0.150	10/14/2016	ND	7.18	120	6.00	0.363	
Total BTEX	<0.300	0,300	10/14/2016	ND					
Surrogate: 4-Bromosluorobenzene (PIC	97.8	% 73.6-14	0				<u> </u>		
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	10/13/2016	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					- 11
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/13/2016	ND	184	91.8	200	5.61	
DRO >C10-C28	<10.0	10.0	10/13/2016	ND	191	95.7	200	5.61	
Surrogate: 1-Chlorooctane	80.6	% 35-147							
Surrogate: 1-Chlorooctadecane	95.69	% 28-171							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Listelity and Demages. Curdinal's hability and cherros exclusive remedy for any diam arising, whether based in contract or tont, shall be limited to the amount paid by chent for analyses. All claims, including those for negligence and any other cause whatevore shall be deemed welved unless made in writing and reconsidered with expectations of the applicable service. In no event shall Certinal be itself-entry consequential damages including, without limited to the performance of the services interactions, loss of use, or loss of profits incurred by clearly, as absoluters, artifactor or successors arising out of or interact to the performance of the services invariance. Are unless that the performance of the services invariance and claims is based upon any of the above interactions, or otherwest. Results related only to the samples identified above. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celley D. Kenne



COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:

10/12/2016

Reported:

10/18/2016

Project Name: Project Number: FIREFOX 4 FED COM #5H

Project Location:

NONE GIVEN EDDY COUNTY Sampling Date:

Sampling Type:

10/04/2016

Type: Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Angela Cabrera

Sample ID: S1 - 1' (H602306-02)

BTEX 8021B	mg/	kg	Analyze	d By: CK		·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2016	ND	2.34	117	2.00	1.75	
Toluene*	<0.050	0.050	10/14/2016	ND	2.47	123	2.00	2.13	
Ethylbenzene*	<0.050	0.050	10/14/2016	ND	2.42	121	2.00	1.68	
Total Xylenes*	<0.150	0.150	10/14/2016	ND	7.34	122	6.00	1.80	
Total BTEX	<0.300	0.300	10/14/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIC	98.65	6 73 6-14	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	10/13/2016	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/14/2016	ND	184	91.8	200	5.61	
DRO >C10-C28	<10.0	10.0	10/14/2016	ND	191	95.7	200	5.61	
Surrogate: 1-Chlorooctane	78.2 9	6 35-147							
Surrogate: I-Chlorooctadecane	82.69	6 28-171							

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*=Accredited Analyte

PLEASE NOTE: Liability and Damajes. Cardinal's bability and clients: exclusive remark for any client arrang, whether based in contract or tort, shell be limited to the amount paid by client for analyses. All clients, including those for negligence and any other cause whatsoever shall be idented waved unless made in writing and received by Cardinal within thinty (30) days after competition of the applicable service. In no event shall Cardinal be label for incidental or consequential damages, including which entation, business interruptions, less of use, or loss of profits incurred by Cardinal within thinty such client in particular and any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproducted except in full with written approval of Cardinal Laboratories.

Celeng & Kenne



COG OPERATING **DAKOTA NEEL** P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

10/12/2016

Reported:

10/18/2016

Project Name:

FIREFOX 4 FED COM #5H

Project Number:

NONE GIVEN

Project Location:

EDDY COUNTY

Sampling Date:

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Angela Cabrera

10/04/2016

Sample ID: S2 - SURFACE (H602306-05)

BTEX 80218	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2016	ND	2.34	117	2.00	1.75	
Toluene*	<0.050	0.050	10/14/2016	ND	2.47	123	2.00	2.13	
Ethylbenzene*	<0.050	0.050	10/14/2016	ND	2.42	121	2.00	1.68	
Total Xylenes*	<0.150	0.150	10/14/2016	ND	7.34	122	6.00	1.80	
Total BTEX	<0.300	0.300	10/14/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.0	% 73.6-14	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	10/13/2016	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/14/2016	ND	184	91.8	200	5.61	
DRO >C10-C28	<10.0	10,0	10/14/2016	ND	191	95.7	200	5.61	
Surrogate: 1-Chlorooctane	78.5	% 35-147							
Surrogate: 1-Chlorooctadecane	83.4	6 28-171							

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*=Accredited Analyte

lested to the amount peed by client for analyses. All clients, including those for negligence and applicable service. In no event shall Cardnal be bable for incidental or cansequential damages, any other cause whatsoever shall be deemed warved unless made in writing and received by Cardinal we including, without Birntoston, business interruptions, loss of use, or loss of profits incurrent by client, its sub-client is beset upon any of the above third resource or otherwise. Results relate only to the samples identified above. This repo completion of the applicable service. In no evert shall Cardinal be liable for incidental or consequential damages, sors arrang out of or related to the performance of the services hereunder by Cardinal, regardless of whether such

Celley D. Kreene



COG OPERATING **DAKOTA NEEL** P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

10/12/2016

Reported:

10/18/2016

Project Name:

FIREFOX 4 FED COM #5H

Project Number: Project Location: NONE GIVEN

EDDY COUNTY

Sampling Date:

10/04/2016

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Angela Cabrera

Sample ID: S2 - 1' (H602306-06)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2016	ND	2.34	117	2.00	1.75	
Toluene*	<0.050	0.050	10/14/2016	ND	2.47	123	2.00	2.13	
Ethylbenzene*	<0.050	0.050	10/14/2016	ND 👙	2.42	121	2.00	1.68	
Total Xylenes*	<0.150	0.150	10/14/2016	ND	7.34	122	6.00	1.80	
Total BTEX	<0.300	0.300	10/14/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIE	98.29	6 73.6-14	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	10/13/2016	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/14/2016	ND	184	91.8	200	5.61	
DRO >C10-C28	<10.0	10.0	10/14/2016	ND	191	95.7	200	5.61	
Surrogate: 1-Chlorooctane	89.09	6 35-147		1					
Surrogate: 1-Chlorooctadecane	92.89	6 28-171							

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id valved unless made in writing and received by Cerdinal within thirty (30) days after completion of the applicable service. In no event shall Cerdinal be bable for incounted or tone, loss of use, or loss of profits incurred by chent, its subsidiance, affiliates or successors trising out of or related to the performance of the services hereunder by Cerdinal, regi

Celly D. Kinne



Notes and Definitions

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

recovery.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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PLEASE NOTE: Liability and Damages. Cardanal's Rability and chem's exclusive remody for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other clause valuationers shall be desired viewed unless made in variety and incurred by Cardanal widow thing (30) days after completion of the applicable service. In no event shall Cardanal be Basile for incidental or consequencial carriegoss including, without Rivistoro, business international, one, or loss of profits incurred by Creat, its report shall not be reproduced except in full with vention approved of Cardanal placestories.

Celany D. Kenne



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ı									ANALYSIS	いってにこれび
Company Name: COG	COG Operating LLC			Die	11 11 11 11	AND RESIDENCE AND RESIDENCE				
Project Manager: Dako	Dakota Neel		9	P.O. #:						
Address: 2208 West Main	ain		0	Company: (COG Operating LLC	отс				
City: Artesia	State: NM	Zip	88210	Attn:	Robert McNeill				y y	
**	432-215-2783 Fax #:			Address:	600 W Illinois) is				
Project #:	Project Owner:	ä	0	City:	Midland					
Project Name: Firefox 4	Firefox 4 Federal #5		10	State: TX	Zip: 79701					
Project Location:			70	Phone #: (432) 221-0388) 221-0388					
Sampler Name: Dako	Dakota Neel	i		Fax #:						
FOR LAB USE ONLY			MATRIX	PRESERV	SAMPLING					
Lab 1.D.	Sample L.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER	SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE	BTEX	TPH	Chloride		
	S1- Surface				10/4/16	9:00 AM	×	×		
N	S1-1'				10/4/16	9:00 AM	×	×		
W	S1:2'				10/4/16	8:00 AM	×	×		
4	S1-4'				10/4/16	9:00 AM	×	×		
<u>v</u>	S2- Surface				10/4/16	9:00 AM	×	×		
51	S2-1'				10/4/16	9:00 AM	×	×		
-4	S2-3'				10/4/16	MA 00:6	×	×		

In no cent and Carbol to take in rectard or compared demands including which freezes have as many called an extend to the public household because it in Carbol and translated to the public household because it in Carbol and translated to the public household because it in Carbol and translated to the public household because it in Carbol and translated to the public household because it in Carbol and the car

PLEASE NOTE: Luckey and Day

3.8°C Lives Lives 40 H75

15:38

dneel2@concho.com

O Yes

8 8 8

Add'l Phone #: Add'l Fax #:

Please only run the first 2 horizons on each set of samples unless one of the following occurs. Chlorides exceed 250ppm, Benzene exceeds 10ppm, BTEX exceeds 50ppm, and TPH exceeds 5000ppm. If exceeded please run the next sample until these levels are achieved.

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Relinquished By:

District 1
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

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

Form C-141

Revised August 8, 2011

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

		Rele	ease Notific	ation	and Co	orrective A	ction				
					OPERA'			Initia	l Report	\boxtimes	Final Repo
Name of Compan			1777 50501	-		bert McNeill					
Address: 600 Wes Facility Name: FI						No. 432-230-00	77				_
		SKAL CC	WI #UUSH		Facility Typ	е: Вапегу					
Surface Owner: F	ederal		Mineral O	wner: I	Federal			API No.	. 30-015-4	1423	
		1.5			OF RE						
Unit Letter Sect M 4	ion Township 19S	Range 31E	Feet from the 670		South Line	Feet from the 250		Vest Line Vest		Count Eddy	
			Latitude 32.6	84082	Longitude	-103.8822098					
			NAT	URE	OF REL	EASE					
Type of Release: Oi	l and Rainwater				Volume of 7 bbls oil	Release:		Volume R 0.5	ecovered:		- 4
Source of Release: I	llegal Dump			т.	Date and H	lour of Occurrence	e:	Date and I	Hour of Dis	covery:	
Was Immediate Not	ice Given?			-	9/2/2016 u If YES, To			9/2/2016	11:45 a.m.		
		Yes 🗵	No 🔲 Not Rec	quired	1 1 2 2 3, 10	Whom.					
By Whom?					Date and H						
Was a Watercourse	Reached?	Yes ⊠	 No		If YES, Vo	olume Impacting t	the Wate	rcourse.			
Describe Cause of P				he conte	ents of his tr	uck on the road. "	The deive	ar was same	nuina etandi	na sain	water from a
recent rain storm wh	en the discharge t	ook place.	The portion of the	release	in the pastu	re was sprayed wi	ith micro	blaze.	oving standi	ng ram	water from a
Describe Area Affect The release impacte contamination from	d the pasture adjac			ortion o	of the lease ro	oad. Concho had t	he site s	ampled to d	delineate an	y possil	ole
I hereby certify that regulations all opera public health or the should their operation or the environment. federal, state, or loca	tors are required tenvironment. The ons have failed to a In addition, NMC	o report and acceptance acceptanc	d/or file certain re e of a C-141 repor investigate and re	lease no t by the mediate	otifications ar NMOCD made contamination	nd perform correct arked as "Final Roon that pose a three	tive action of the control of the co	ons for rele oes not relic ound water.	ases which eve the oper surface wa	may en ator of ter, hur	danger liability nan health
Signature:	Dalor	c no	_			OIL CON	SERV.	ATION	DIVISIO	<u>N</u>	
Printed Name: Dako	ota Neel			A	Approved by	Environmental S	pecialist				4
Title: Environmenta	Coordinator		_ .	A	Approval Dat	e:	E	xpiration D	ate:		
E-mail Address: dne	el2@concho.com		_		Conditions of	`Approval:			Attached		
Date: December 28, Attach Additional		e: 575-748- arv	-6933							_	

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

State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011
Submit 1 Copy to appropriate District Office in

Form C-141

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rele	ase Notific	cation and C	orrective A	ction				
					OPERA		⊠ I	nitial Report		Final F	Repor
		OG Operati inois Avenue		4 TV 70701		obert McNeill	77				
		OX 4 FEDE				No. 432-230-001 pe: Battery	11				
							LARY	37 00 016	41.400		
Surface Ow	ner: Feder	al		Mineral C	Owner: Federal		API	No. 30-015-	11423	_	
			-		TION OF RE						
Unit Letter M	Section 4	Township 19S	Range 31E	Feet from the 670	North/South Line South	Feet from the 250	East/West Li	ne	Cour Edd		
				Latitude 32.	684082 Longitud	-103.8822098					
				NAT	URE OF REL	EASE					
Type of Rele	ase: Oil and	Rainwater			Volume o	f Release:		ne Recovered:			
Source of Re	lease: Illega	l Dump			7 bbls oil	Hour of Occurrence	e. Date s	and Hour of Di	scovers	,.	
	Ĭ				9/2/2016	inknown		016 11:45 a.m.	300 701 7	•	
Was Immedi	ate Notice C		Vac 🔽	No Not Re	If YES, T	o Whom?					
By Whom?			163 🖂	140 🔲 1401 Ki	Date and	laum					
Was a Water	course Reac	hed?				olume Impacting t	he Watercourse				
			Yes 🛚	No							
This release recent rain st Describe Are The release in	was caused lorm when the a Affected and a first the angle of the angle	ne discharge to and Cleanup A pasture adjac	ty water had been been been been been been been bee	The portion of the en.*	the contents of his to e release in the past portion of the lease re ediation work plan to	re was sprayed wi	th microblaze.	te sampled to o	lelineat	e any	
regulations at public health should their of	I operators a or the envir operations ha nment. In a	are required to conment. The ave failed to a ddition, NMO	report an acceptance dequately CD accept	d/or file certain re e of a C-141 repo investigate and re	lete to the best of my elease notifications a rt by the NMOCD remediate contaminate report does not relie	nd perform correct parked as "Final Rotion that pose a throw the operator of r	tive actions for eport" does not eat to ground w	releases which relieve the ope ater, surface w or compliance	n may elerator of ater, hu with any	ndanger f liability ıman heal	,
Signature:	1	- abox	n			OIL COIN	<u>JLICY ATTO</u>	N DIVISI	214		
Printed Name	: Dakota N	eel			Approved by	Environmental Sp	pecialist:	_			
Title: Environ	nmental Coc	ordinator			Approval Da	te:	Expirati	on Date:		-4	
E-mail Addre	ss: dneel2@	concho.com			Conditions of	f Approval:		Attached	i 🗆		
Date: Septen Attach Addit		6 ts If Necessa		e: 575-748-6933						-	