

**APPROVED**

Work Plan 1RP 4005

*By Kristen Lynch at 8:12 am, Nov 30, 2016*

On December 7<sup>th</sup> 2015 ConocoPhillips had a leak on the Grayburg Battery Transfer Line. The calculated amount of the spill was 20 bbl. of produced water with 15 bbl. recovered. The affected area was approx. 5,670 sq. feet. The immediate action by COPC was to immediately go in and clean up all of the visibly saturated soils and haul to an approved disposal. Approximately 6" of topsoil was removed and the road scraped down also. There was only a thin layer of contamination on the main caliche road. On 11/16/16 COPC went to the site and completed 2 soil delineations to a depth of 5' in the pasture area collecting samples at 1' intervals. DGW in this area is approx. 60'. As shown on the attached samples from Cardinal lab all samples came back clean from the lab. Our plan is to still remove 6" of the affected area of the pasture and take material to an approved landfill and then backfill with clean material. We will then reseed with a BLM approved seed. I have attached the initial C-141, the map showing the locations of the samples and the lab results of the samples taken. If you need anything else, please let me know and I will get it to you.



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

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November 23, 2016

DANNY HOOPER

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: GREYBURG T/F LINE

Enclosed are the results of analyses for samples received by the laboratory on 11/16/16 8:30.

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/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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,

Hope S. Moreno For Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

Conoco Phillips - Hobbs  
DANNY HOOPER  
P. O. BOX 325  
Hobbs NM, 88240  
Fax To: (575) 297-1477

Received:	11/16/2016	Sampling Date:	11/16/2016
Reported:	11/23/2016	Sampling Type:	Soil
Project Name:	GREYBURG T/F LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PASTURE		

**Sample ID: #1 - 1' (H602565-01)**

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2016	ND	2.16	108	2.00	0.116	
Toluene*	<0.050	0.050	11/17/2016	ND	2.24	112	2.00	1.41	
Ethylbenzene*	<0.050	0.050	11/17/2016	ND	2.14	107	2.00	0.139	
Total Xylenes*	<0.150	0.150	11/17/2016	ND	6.41	107	6.00	0.918	
Total BTX	<0.300	0.300	11/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/16/2016	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/17/2016	ND	188	93.8	200	0.125	
DRO >C10-C28	<10.0	10.0	11/17/2016	ND	200	100	200	1.26	

Surrogate: 1-Chlorooctane 84.3 % 35-147

Surrogate: 1-Chlorooctadecane 82.5 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

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DANNY HOOPER  
P. O. BOX 325  
Hobbs NM, 88240  
Fax To: (575) 297-1477

Received: 11/16/2016  
Reported: 11/23/2016  
Project Name: GREYBURG T/F LINE  
Project Number: NONE GIVEN  
Project Location: PASTURE

Sampling Date: 11/16/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: #1 - 2' (H602565-02)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2016	ND	2.16	108	2.00	0.116	
Toluene*	<0.050	0.050	11/17/2016	ND	2.24	112	2.00	1.41	
Ethylbenzene*	<0.050	0.050	11/17/2016	ND	2.14	107	2.00	0.139	
Total Xylenes*	<0.150	0.150	11/17/2016	ND	6.41	107	6.00	0.918	
Total BTEx	<0.300	0.300	11/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

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	11/16/2016	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/17/2016	ND	188	93.8	200	0.125	
DRO >C10-C28	<10.0	10.0	11/17/2016	ND	200	100	200	1.26	

Surrogate: 1-Chlorooctane 91.1 % 35-147

Surrogate: 1-Chlorooctadecane 103 % 28-171

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Hobbs NM, 88240  
Fax To: (575) 297-1477

Received: 11/16/2016  
Reported: 11/23/2016  
Project Name: GREYBURG T/F LINE  
Project Number: NONE GIVEN  
Project Location: PASTURE

Sampling Date: 11/16/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: #1 - 3' (H602565-03)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2016	ND	2.24	112	2.00	1.51	
Toluene*	<0.050	0.050	11/18/2016	ND	2.29	114	2.00	1.69	
Ethylbenzene*	<0.050	0.050	11/18/2016	ND	2.21	110	2.00	1.17	
Total Xylenes*	<0.150	0.150	11/18/2016	ND	6.71	112	6.00	1.12	
Total BTEx	<0.300	0.300	11/18/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

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	11/16/2016	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/17/2016	ND	188	93.8	200	0.125	
DRO >C10-C28	<10.0	10.0	11/17/2016	ND	200	100	200	1.26	


Surrogate: 1-Chlorooctane 91.6 % 35-147

Surrogate: 1-Chlorooctadecane 104 % 28-171

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DANNY HOOPER  
P. O. BOX 325  
Hobbs NM, 88240  
Fax To: (575) 297-1477

Received: 11/16/2016  
Reported: 11/23/2016  
Project Name: GREYBURG T/F LINE  
Project Number: NONE GIVEN  
Project Location: PASTURE

Sampling Date: 11/16/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: #1 - 5' (H602565-04)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2016	ND	2.24	112	2.00	2.51		
Toluene*	<0.050	0.050	11/18/2016	ND	2.27	114	2.00	2.24		
Ethylbenzene*	<0.050	0.050	11/18/2016	ND	2.20	110	2.00	2.48		
Total Xylenes*	<0.150	0.150	11/18/2016	ND	6.69	111	6.00	2.48		
Total BTEx	<0.300	0.300	11/18/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

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	11/16/2016	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/17/2016	ND	188	93.8	200	0.125	
DRO >C10-C28	<10.0	10.0	11/17/2016	ND	200	100	200	1.26	


Surrogate: 1-Chlorooctane 82.0 % 35-147

Surrogate: 1-Chlorooctadecane 86.2 % 28-171

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Hobbs NM, 88240  
Fax To: (575) 297-1477

Received: 11/16/2016  
Reported: 11/23/2016  
Project Name: GREYBURG T/F LINE  
Project Number: NONE GIVEN  
Project Location: PASTURE

Sampling Date: 11/16/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: #2 - 1' (H602565-05)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2016	ND	2.24	112	2.00	2.51		
Toluene*	<0.050	0.050	11/18/2016	ND	2.27	114	2.00	2.24		
Ethylbenzene*	<0.050	0.050	11/18/2016	ND	2.20	110	2.00	2.48		
Total Xylenes*	<0.150	0.150	11/18/2016	ND	6.69	111	6.00	2.48		
Total BTEx	<0.300	0.300	11/18/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.6-140

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	11/16/2016	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/17/2016	ND	188	93.8	200	0.125	
DRO >C10-C28	<10.0	10.0	11/17/2016	ND	200	100	200	1.26	


Surrogate: 1-Chlorooctane 83.9 % 35-147

Surrogate: 1-Chlorooctadecane 93.9 % 28-171

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P. O. BOX 325  
Hobbs NM, 88240  
Fax To: (575) 297-1477

Received: 11/16/2016  
Reported: 11/23/2016  
Project Name: GREYBURG T/F LINE  
Project Number: NONE GIVEN  
Project Location: PASTURE

Sampling Date: 11/16/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: #2 - 2' (H602565-06)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2016	ND	2.24	112	2.00	2.51	
Toluene*	<0.050	0.050	11/18/2016	ND	2.27	114	2.00	2.24	
Ethylbenzene*	<0.050	0.050	11/18/2016	ND	2.20	110	2.00	2.48	
Total Xylenes*	<0.150	0.150	11/18/2016	ND	6.69	111	6.00	2.48	
Total BTEx	<0.300	0.300	11/18/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/16/2016	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/17/2016	ND	188	93.8	200	0.125	
DRO >C10-C28	<10.0	10.0	11/17/2016	ND	200	100	200	1.26	

Surrogate: 1-Chlorooctane 98.7 % 35-147

Surrogate: 1-Chlorooctadecane 103 % 28-171

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Conoco Phillips - Hobbs  
DANNY HOOPER  
P. O. BOX 325  
Hobbs NM, 88240  
Fax To: (575) 297-1477

Received: 11/16/2016  
Reported: 11/23/2016  
Project Name: GREYBURG T/F LINE  
Project Number: NONE GIVEN  
Project Location: PASTURE

Sampling Date: 11/16/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: #2 - 3' (H602565-07)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2016	ND	2.24	112	2.00	2.51	
Toluene*	<0.050	0.050	11/18/2016	ND	2.27	114	2.00	2.24	
Ethylbenzene*	<0.050	0.050	11/18/2016	ND	2.20	110	2.00	2.48	
Total Xylenes*	<0.150	0.150	11/18/2016	ND	6.69	111	6.00	2.48	
Total BTEx	<0.300	0.300	11/18/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/16/2016	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/17/2016	ND	188	93.8	200	0.125	
DRO >C10-C28	<10.0	10.0	11/17/2016	ND	200	100	200	1.26	

Surrogate: 1-Chlorooctane 90.8 % 35-147

Surrogate: 1-Chlorooctadecane 87.4 % 28-171

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Conoco Phillips - Hobbs  
DANNY HOOPER  
P. O. BOX 325  
Hobbs NM, 88240  
Fax To: (575) 297-1477

Received: 11/16/2016  
Reported: 11/23/2016  
Project Name: GREYBURG T/F LINE  
Project Number: NONE GIVEN  
Project Location: PASTURE

Sampling Date: 11/16/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: #2 - 5' (H602565-08)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2016	ND	1.97	98.4	2.00	0.742	
Toluene*	<0.050	0.050	11/21/2016	ND	2.01	101	2.00	0.898	
Ethylbenzene*	<0.050	0.050	11/21/2016	ND	1.94	97.0	2.00	1.31	
Total Xylenes*	<0.150	0.150	11/21/2016	ND	5.89	98.2	6.00	0.551	
Total BTEx	<0.300	0.300	11/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/16/2016	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/17/2016	ND	188	93.8	200	0.125	
DRO >C10-C28	<10.0	10.0	11/17/2016	ND	200	100	200	1.26	

Surrogate: 1-Chlorooctane 91.7 % 35-147

Surrogate: 1-Chlorooctadecane 92.7 % 28-171

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Hope S. Moreno For Caley 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.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Cardinal Laboratories

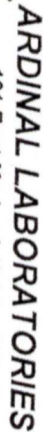
\*=Accredited Analyte

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager



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(575) 393-2326 Fax (575) 393-2476

Page \_\_\_\_ of \_\_\_\_

Company Name: Conoco							BILL TO		ANALYSIS REQUEST																			
Project Manager: Justin Wright							P.O. #:																					
Address: Justin.Wright@Conocophillips.com							Company:	Conoco																				
City: Hahr							Attn:	Justin																				
State: MN Zip: 55240							Address:																					
Phone #: 575-631-9052 Fax #:							City:																					
Project #: Greybug T/E Line Project Owner: Conoco							State:																					
Project Location: Greybug T/E Line Pasture							Zip:																					
Sample Name: Blacky							Phone #:	631-9052																				
FOR LAB USE ONLY							Fax #:																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	MATRIX	PRESERV.	SAMPLING																		
H602565		#1 -1'						SOIL																				
		#1 -2'						OIL																				
		#1 -3'						SLUDGE																				
		#1 -5'						OTHER :	ACID/BASE:	ICE / COOL	DATE	TIME	Chloride				TPH				B-Tex				Benzine			
		#2 -1'									11/16/16	1:00																
		#2 -2'																										
		#2 -3'																										
		#2 -5'																										
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. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.														Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.														
Sampler Relinquished:							Received By:							Phone Result: <input type="checkbox"/> No Add'l Phone #: _____														
Relinquished By:							Time:							Fax Result: <input type="checkbox"/> No Add'l Fax #: _____														
Delivered By: (Circle One)							Temp. Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>							CHECKED BY: (Initials) _____														
Date: 11/16/16 Time: 2:30							Received By: [Signature]							REMARKS: Justin														