APPROVED

ConocoPhillips

CONOCOPHILLIPS

P.O. Box 2197
Houston, TX 77252-2197
Phone 281.293.1000

PHILMEX #15

Corrective Action Plan

1RP-3999

API 30-025-27402

Release Date: November 11, 2015

Unit Letter A, Section 28, Township 17S, Range 33E

PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

August 3rd, 2016

Jamie Keyes
Environmental Specialist – New Mexico Oil Conservation Division
Energy, Minerals and Natural Resources Department
1625 N. French Dr.
Hobbs, NM 88240

RE: **Corrective Action Plan**
ConocoPhillips – Philmex 15 (1RP-3999)
UL/A sec. 28 T17S R33E
API No. 30-025-27402

Ms. Jones:

ConocoPhillips (CoP) has retained Basin Environmental Service Technologies (Basin) to address potential environmental concerns at the above-referenced site.

Background and Previous Work

The site is located approximately 0.5 miles northeast of the intersection of Mescalero Road and Hummingbird Road in Lea County, New Mexico at Unit Letter F of Section 28, in Township 20 South of Range 37 East. The Global Positioning System (GPS) coordinates are: Latitude – 32.8033257, Longitude - -103.7240601. Utilizing the New Mexico Water and Infrastructure Data System (NM WAIDS), existing well records indicate that groundwater will likely be encountered at a depth of approximately one-hundred eighty (180) +/- feet.

On November 24th, 2015, CoP discovered a release from a flow-line. A total of seven and one-half (7.5) barrels (bbls) of crude oil and produced water were released over approximately two-thousand nine-hundred twenty-eight (2,928) square feet (ft^2) of pasture land. Approximately five (5) bbls total of fluid were recovered. The New Mexico Oil Conservation Division (NMOCD) was notified of the release on November 25th, 2015, and an initial C-141 was submitted the same day. NMOCD approved the initial C-141 on November 25th, 2015 (Appendix A).

Basin personnel were on site to assess the release December 4th, 2015. The release was mapped and photographed (Figure 1). On December 9th and 10th, 2015, samples were taken with depth and submitted to a NMOCD approved commercial laboratory for analysis (Appendix B). Laboratory analysis of the soil sample (Point 1) retrieved at two (2) feet below ground surface (bgs) showed an elevated chloride concentration of 6,560 mg/kg, gasoline range organics (GRO) concentration of 15.3 mg/kg, and diesel range organics (DRO) concentration of 101 mg/kg. Benzene concentration was below the applicable method detection limit. Toluene concentration was 0.361 mg/kg. Ethylbenzene concentration was 0.878 mg/kg. Xylenes concentration was 1.43

mg/kg. The total BTEX concentration was 2.67 mg/kg. The soil sample (Point 1) retrieved at three (3) feet bgs had a chloride concentration at 112 mg/kg. GRO and DRO concentrations were below the applicable detection limit.

The soil sample (Point 2) retrieved at one (1) feet (bgs) showed an elevated chloride concentration of 3,120 mg/kg, GRO concentration of 447 mg/kg, and DRO concentration of 4030 mg/kg. Benzene concentration was 0.268 mg/kg. Toluene concentration was 6.63 mg/kg. Ethylbenzene concentration was 14 mg/kg. Xylenes concentration was 24.3 mg/kg. The total BTEX concentration was 45.2 mg/kg. The soil sample (Point 2) retrieved at three and one-half (3.5) feet bgs had a chloride concentration less than the appropriate method detection limit. GRO and DRO concentrations were below the applicable detection limit.

The soil sample (Point 3) retrieved at one (1) feet (bgs) showed an elevated chloride concentration of 11,500 mg/kg, GRO concentration of 409 mg/kg, and DRO concentration of 3350 mg/kg. Benzene concentration was 0.639 mg/kg. Toluene concentration was 11.9 mg/kg. Ethylbenzene concentration was 19.2 mg/kg. Xylenes concentration was 28 mg/kg. The total BTEX concentration was 59.7 mg/kg. The soil sample (Point 3) retrieved at two and one-half (2.5) feet bgs had a chloride concentration of 48 mg/kg with GRO and DRO concentrations below the applicable detection limit.

Photo Documentation of the of these activities may be found in Appendix C.

Corrective Action Plan

Based on the assessment and sampling data, the release will be excavated down at various depths. The area around Point 1 as depicted in Figure 1, will be excavated to a depth of three (3) feet bgs. The area around Point 2 will be excavated to a depth of three and one-half (3.5) feet bgs. The area around Point 3 will be excavated to a depth of two and one-half (2.5) feet bgs. Once the entire excavation is completed, discreet wall samples from the excavation will be collected and field tested for chlorides and organic vapors. If the field data indicates that the wall samples will not achieve chloride, Gasoline Range Organics (GRO), Diesel Range Organics (DRO) and BTEX readings below regulatory standards, the walls of the excavation will be extended until field testing indicates that all constituents from the wall samples will return values below regulatory standards. The samples will then be taken to a commercial laboratory to confirm that all constituents return readings are below regulatory standards.

All excavated soil will be taken to a NMOCD approved facility for disposal. Clean soil will be imported to the site to serve as backfill. A sample of the backfill soil will be taken to a commercial laboratory to confirm that the chloride concentration is below the recommended regulatory standards. The excavated area will be backfilled with clean, imported topsoil and contoured to the surrounding location.

Revegetation of the site will be performed as follows:

Disturbed areas associated with the remediation efforts will be reseeded. If after one growing season the vegetation has not taken hold, seeding may need to be repeated until revegetation is successful. The seed will be spread using a hand-held broadcaster and the area raked or dragged

to cover the seed. Because the seed will be broadcast, the pounds per acre will be doubled. BLM #2 seed mix will be used.

The seed mixture will be planted in the amounts specified in pounds of pure live seed (PLS) per acre. Commercially sold seed will be either certified or registered. The area will be seeded following backfilling of the excavated area.

The site will be visited on a quarterly basis to assess the establishment of vegetative growth. Staff personnel performing the site visit will also look for the presence of noxious weeds at the site. If a noxious weed is observed at the site, CoP will determine the most effective manner to eradicate it.

Once these activities have been completed, a report will be sent to NMOCD requesting 'remediation termination' and site closure.

Basin appreciates the opportunity to work with you on this project. Please contact me if you have any questions or wish to discuss the site.

Sincerely,

Kyle Norman

Kyle Norman
Project Lead
Basin Environmental Service Technologies
(575) 942-8542

Attachments:

Figure 1 – Proposed Excavation
Appendix A – Initial C-141
Appendix B – Laboratory Analysis
Appendix C – Photo Documentation

Figures

Basin Environmental Service Technologies, LLC
P.O. Box 2948, Hobbs, NM 88241
Phone 575.393.2967

Proposed Excavation

Vertical 1

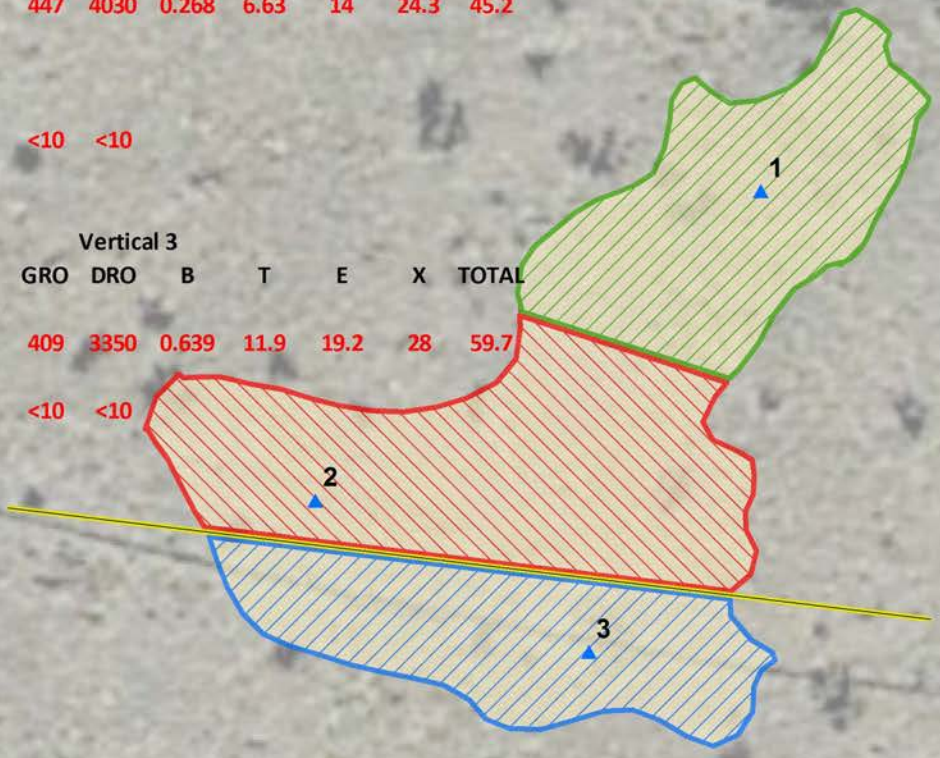
Depth	Cl-	PID	GRO	DRO	B	T	E	X	TOTAL
SS	480	694.7							
1'	592	1213							
2'	6560	624.5	15.3	101	<0.05	0.361	0.878	1.43	2.67
2.5'	656	11.1							
3'	112	4.9	<10	<10					

Vertical 2

Depth	Cl-	PID	GRO	DRO	B	T	E	X	TOTAL
SS	3067	153.1							
1'	3120	203.5	447	4030	0.268	6.63	14	24.3	45.2
2'	1759	113							
2.5'	1653	107							
3'	594	34.6							
3.5'	<16	0.4	<10	<10					

Vertical 3

Depth	Cl-	PID	GRO	DRO	B	T	E	X	TOTAL
SS	4268	778.3							
1'	11500	397.1	409	3350	0.639	11.9	19.2	28	59.7
2'	3637	70.7							
2.5'	48	7	<10	<10					



Legend
- SAMPLE POINT
- SURFACE PIPELINE
- PROP. EXCAV @ 2.5'
- PROP. EXCAV @ 3'
- PROP. EXCAV @ 3.5'
- STAIN - 2,928 SQ FT

Landowner: State
DGW: 180 Ft

Basin Environmental Service Technologies
Effective Solutions

CONOCOPHILLIPS PHILMEX #15

1RP-3999

UL A SECTION 28
T-17-S R-33-E
LEA COUNTY, NM

Figure 1

GPS: 32.811329 -103.661798

0 10 20 Feet

GPS date: 11/4/15 JK
Drawing date: 3/16/16
Drafted by: T. Grieco

N W E S

Appendix A
Intial C-141

Basin Environmental Service Technologies, LLC
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

RECEIVED
By JKeyes at 12:18 pm, Nov 25, 2015

District I
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

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: **ConocoPhillips**	Contact: **Spencer Cluff**
Address: **29 Vacuum Complex Lane**	Telephone No. **575-746-7248**
Facility Name: **Philmex 15**	Facility Type: **Well**

Surface Owner: NMOCD	Mineral Owner: NMOCD	API No. 30-025-27402

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	28	17S	33E	660	North	660	East	**LEA**

Latitude 32.8033257 **Longitude** 103.7240601 NAD83

NATURE OF RELEASE

Type of Release: **Spill**	Volume of Release: 7.50 BBLS	Volume Recovered: 5 BBLS
Source of Release: Fiber Spar Line	Date and Hour of Occurrence 11/23/2015 2:00 pm	Date and Hour of Discovery 11/24/2015 2:00 pm
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **Jamie Keyes**	
By Whom? **Spencer Cluff**	Date and Hour: 11/**25/2015 11:05 am**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

On November 24th, 2015 at 1400 hrs. MDT a flow line leak occurred at the Philmex 15. The immediate action by the MSO was to shut down the well, isolate the line, and repair the line. The spill released 5 bbls of oil and 2.5 bbls of produced water for a total of 7.5 bbls, with 5 bbls of fluid recovered. The spill will be remediated according to NMOCD and COPC guidelines.

Describe Area Affected and Cleanup Action Taken.*

The area was in the pasture and will be remediated according to NMOCD guidelines

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: *Spencer A. Cluff*

Printed Name: Spencer A. Cluff

Title: HSE Specialist

E-mail Address: ***spencer.a.cluff@conocophillips.com***

Date: 11/25/2015 Phone:575-746-7248

OIL CONSERVATION DIVISION

Approved by Environmental Specialist:

Approval Date: 11/25/2015 Expiration Date: 01/25/2016

Conditions of Approval:
Discrete site samples required. Delineate and remediate per NMOCD guidelines.
Geotagged photos recommended.

Attached ☐

1RP 3999

* Attach Additional Sheets If Necessary

Appendix B
Laboratory Analysis

Basin Environmental Service Technologies, LLC
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

CARDINAL Laboratories

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

December 17, 2015

KYLE NORMAN

BASIN ENVIRONMENTAL - HOBBS

419 W. CAIN

HOBBS, NM 88240

RE: PHILMEX #15

Enclosed are the results of analyses for samples received by the laboratory on 12/15/15 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

BASIN ENVIRONMENTAL - HOBBS
KYLE NORMAN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 393-0293

Received:	12/15/2015	Sampling Date:	12/09/2015
Reported:	12/17/2015	Sampling Type:	Soil
Project Name:	PHILMEX #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VERTICAL 1 @ 2' (H503248-01)

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	12/16/2015	ND	1.95	97.5	2.00	0.179	
Toluene*	**0.361**	0.050	12/16/2015	ND	1.97	98.6	2.00	0.739	
Ethylbenzene*	**0.878**	0.050	12/16/2015	ND	2.00	100	2.00	0.0556	
Total Xylenes*	**1.43**	0.150	12/16/2015	ND	5.99	99.9	6.00	0.291	
Total BTEX	**2.67**	0.300	12/16/2015	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**6560**	16.0	12/15/2015	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	**15.3**	10.0	12/15/2015	ND	206	103	200	3.57	
DRO >C10-C28	**101**	10.0	12/15/2015	ND	190	95.1	200	4.23	

Surrogate: 1-Chlorooctane *107 %* *35-147*

Surrogate: 1-Chlorooctadecane *94.5 %* *28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

BASIN ENVIRONMENTAL - HOBBS
KYLE NORMAN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 393-0293

Received:	12/15/2015	Sampling Date:	12/09/2015
Reported:	12/17/2015	Sampling Type:	Soil
Project Name:	PHILMEX #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VERTICAL 1 @ 3' (H503248-02)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	12/15/2015	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	12/15/2015	ND	206	103	200	3.57	
DRO >C10-C28	<10.0	10.0	12/15/2015	ND	190	95.1	200	4.23	

Surrogate: 1-Chlorooctane	*108 %*	*35-147*
Surrogate: 1-Chlorooctadecane	*95.1 %*	*28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

BASIN ENVIRONMENTAL - HOBBS
KYLE NORMAN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 393-0293

Received:	12/15/2015	Sampling Date:	12/09/2015
Reported:	12/17/2015	Sampling Type:	Soil
Project Name:	PHILMEX #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VERTICAL 2 @ 1' (H503248-03)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**0.268**	0.200	12/16/2015	ND	1.95	97.5	2.00	0.179	
Toluene*	**6.63**	0.200	12/16/2015	ND	1.97	98.6	2.00	0.739	
Ethylbenzene*	**14.0**	0.200	12/16/2015	ND	2.00	100	2.00	0.0556	
Total Xylenes*	**24.3**	0.600	12/16/2015	ND	5.99	99.9	6.00	0.291	
Total BTEX	**45.2**	1.20	12/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID *123 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3120**	16.0	12/15/2015	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS **S-06**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	**447**	100	12/15/2015	ND	206	103	200	3.57	
DRO >C10-C28	**4030**	100	12/15/2015	ND	190	95.1	200	4.23	

Surrogate: 1-Chlorooctane *169 %* *35-147*

Surrogate: 1-Chlorooctadecane *166 %* *28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

BASIN ENVIRONMENTAL - HOBBS
KYLE NORMAN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 393-0293

Received:	12/15/2015	Sampling Date:	12/10/2015
Reported:	12/17/2015	Sampling Type:	Soil
Project Name:	PHILMEX #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VERTICAL 2 @ 3.5' (H503248-04)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/15/2015	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	12/15/2015	ND	206	103	200	3.57	
DRO >C10-C28	<10.0	10.0	12/15/2015	ND	190	95.1	200	4.23	

Surrogate: 1-Chlorooctane	*107 %*	*35-147*
Surrogate: 1-Chlorooctadecane	*102 %*	*28-171*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

BASIN ENVIRONMENTAL - HOBBS
KYLE NORMAN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 393-0293

Received:	12/15/2015	Sampling Date:	12/10/2015
Reported:	12/17/2015	Sampling Type:	Soil
Project Name:	PHILMEX #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VERTICAL 3 @ 1' (H503248-05)

BTEX 8021B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**0.639**	0.200	12/16/2015	ND	1.95	97.5	2.00	0.179	
Toluene*	**11.9**	0.200	12/16/2015	ND	1.97	98.6	2.00	0.739	
Ethylbenzene*	**19.2**	0.200	12/16/2015	ND	2.00	100	2.00	0.0556	
Total Xylenes*	**28.0**	0.600	12/16/2015	ND	5.99	99.9	6.00	0.291	
Total BTEX	**59.7**	1.20	12/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID *118 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**11500**	16.0	12/15/2015	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	**409**	50.0	12/16/2015	ND	206	103	200	3.57	
DRO >C10-C28	**3350**	50.0	12/16/2015	ND	190	95.1	200	4.23	

Surrogate: 1-Chlorooctane *104 %* *35-147*

Surrogate: 1-Chlorooctadecane *93.1 %* *28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

BASIN ENVIRONMENTAL - HOBBS
KYLE NORMAN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 393-0293

Received:	12/15/2015	Sampling Date:	12/10/2015
Reported:	12/17/2015	Sampling Type:	Soil
Project Name:	PHILMEX #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VERTICAL 3 @ 2.5' (H503248-06)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	12/15/2015	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	12/16/2015	ND	206	103	200	3.57	
DRO >C10-C28	<10.0	10.0	12/16/2015	ND	190	95.1	200	4.23	

Surrogate: 1-Chlorooctane	*107 %*	*35-147*
Surrogate: 1-Chlorooctadecane	*96.1 %*	*28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

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.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name: ConocoPhillips	**BILL TO**
Project Manager: Kyle Norman	P.O. #:
Address: 419 W Cain	Company: Basin
City: Hobbs State: NM Zip: 88240	Attn:
Phone #: 575-393-2967 Fax #: 575-393-0293	Address: 419 W Cain
Project #: Project Owner:	City: Hobbs
Project Name:	State: NM Zip: 88240
Project Location: Phillmex #15	Phone #: 575-393-2967
Sampler Name: JKamplain	Fax #: 575-393-0293

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS						
H5003248																										
1	Vert 1 @ 2'	G	1			✓					✓		12-9-15	3:30	✓	✓	✓									
2	Vert 1 @ 3'	G	1			✓					✓			3:45	✓	✓										
3	Vert 2 @ 1'	G	1			✓					✓			4:00	✓	✓	✓									
4	Vert 2 @ 3.5'	G	1			✓					✓		12-10-15	3:30	✓	✓										
5	Vert 3 @ 1'	G	1			✓					✓			3:45	✓	✓	✓									
6	Vert 3 @ 2.5'	G	1			✓					✓			4:00	✓	✓										

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental 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.

Relinquished By:	Date: 12-11-15	Received By:	
	Time: 3:00		
Relinquished By:	Date: 12-15-15	Received By:	Jodi Henson
	Time: 8:15		
Delivered By: (Circle One)		Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	~14.6°C	Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	

Phone Result: ☐ Yes ☑ No Add'l Phone #:
Fax Result: ☐ Yes ☑ No Add'l Fax #:
REMARKS:

email results:
hconder@basinenv.com; knorman@basinenv.com;
jkamplain@basinenv; lflores@basinenv; lweinheimer@basinenv;
cursanic@basinenv; sedwards@basinenv
environmental tech: @basinenv

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#54

Appendix C
Photo Documentation

Basin Environmental Service Technologies, LLC
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

Conoco Phillips - Philmex #015

Unit Letter A, Section 28, T17S, R33E

Initial release, facing northeast 12/4/15

Initial release, facing southwest 12/4/15

Top 1' removed, facing northeast 12/16/15

Top 1' removed, facing northwest 3/22/12