



**RECEIVED**

*By JKeyes at 7:53 am, Oct 01, 2015*

**APPROVED**

*By JKeyes at 7:53 am, Oct 01, 2015*

Stipulations:

Ensure BLM Concurrence/approval.

# CONOCOPHILLIPS

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

## Warren Unit Satellite 5 (1RP-3486)

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## Corrective Action Plan

API No. 30-025-30473

Release Date: January 3<sup>rd</sup>, 2015

Unit Letter F, Section 28, Township 20S, Range 38E



PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

**September 30, 2015**

**Kelly Jones**

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 Warren Unit Satellite 5 (1RP-3486)  
UL/F sec. 28 T20S R38E  
API No. 30-025-30473**

Ms. Jones:

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

### **Background and Previous Work**

The site is located approximately 8.3 miles southwest of Monument, New Mexico at UL/F sec. 28 T20S R37E. NM OSE, BLM and Basin installed monitor well records indicate that groundwater will likely be encountered at a depth of approximately 62 +/- feet.

On January 3<sup>rd</sup>, 2015, CoP discovered a release from a transfer pump intake line. A total of 15.67 barrels of oil was released over 2,278 sq ft of caliche pad and pasture land with an overspray of 139 sq ft on the caliche pad. None of this fluid was recovered. BLM and NMOCD were notified of the release on January 5<sup>th</sup>, 2015, and an initial C-141 was submitted to both parties the same day. NMOCD approved the initial C-141 on January 7<sup>th</sup>, 2015 (Appendix A).

Basin personnel were on site to assess the release January 6<sup>th</sup>, 2015. The release was mapped and photographed (Figure 1). On August 8<sup>th</sup>, 2015, samples were taken at the surface and with depth and sent to a commercial laboratory for analysis (Appendix B). Laboratory analysis of Point 1 at the surface returned a chloride value of 1,740 mg/kg, Gasoline Range Organics (GRO), Diesel Range Organics (DRO) and BTEX values of non-detect. At 1 ft bgs, Point 1 returned a chloride reading of 48 mg/kg, GRO, DRO and BTEX values of non-detect. Laboratory analysis of Point 2 at the surface returned a chloride reading of 144 mg/kg, a GRO value of non-detect, a DRO value of 5,000 mg/kg and BTEX values of non-detect. At 6 in bgs, Point 2 returned a chloride value of non-detect, a GRO value of non-detect, a DRO reading of 2,520 mg/kg and BTEX values of non-detect.

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

Based on the assessment, the release will be scraped down to 1 ft bgs. Once the scrape is completed, discrete samples from the bottom of the scrape will be taken and field tested for chlorides and organic vapors. If the field data indicates that the composite will not achieve chloride, Gasoline Range Organics (GRO), Diesel Range Organics (DRO) and BTEX readings below regulatory standards, the scrape will be deepened until field testing indicates that all constituents from the bottom composite will return values below regulatory standards. The bottom composite 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 reading is below regulatory standards. The lease pad will be backfilled with clean, imported caliche and the pasture will be backfilled with clean, imported top soil. The site will be contoured to the surrounding location. The pasture area will be seeded with a blend of native vegetation.

Once these activities have been completed, a report will be sent to NMOCD and BLM 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,

A handwritten signature in black ink, appearing to read "Kyle Norman", followed by a horizontal line.

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

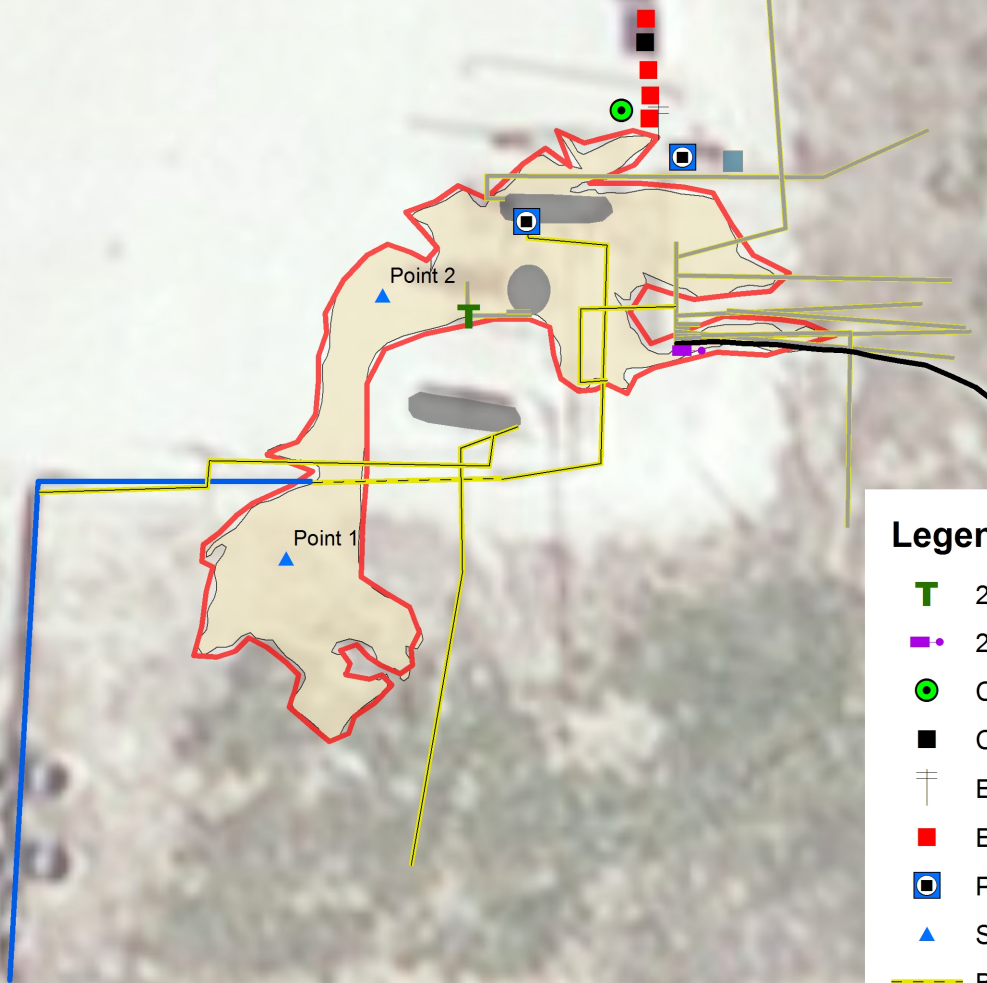
Attachments:

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

# Figures

# Proposed Scrape

Point 1										Point 2									
	CI-	PID	GRO	DRO	B	T	E	X	BTEX		CI-	PID	GRO	DRO	B	T	E	X	BTEX
SS	1740	10.8	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3	SS	144	8.1	<50	5000	<0.05	<0.05	<0.05	<0.15	<0.3
6"	523	8.1								6"	<16	60.1	<50	2520	<0.05	<0.05	<0.05	<0.15	<0.3
1'	48	15.1	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3										



## Legend

- T 2" T CONNECTOR
- 2" to 4" ADAPTER
- COMPRESSOR
- CONTROL BOX
- ⋈ ELECTRIC POLE
- ELECTRICAL BOX
- PUMP
- ▲ SAMPLE POINT
- BURIED PIPELINE
- RISER - STEEL
- SURFACE PIPELINE
- SURFACE PIPELINE - POLY
- SURFACE PIPELINE - STEEL
- CHEMICAL TANK
- PROPOSED 1 FT SCRAPE
- SEPARATOR
- STAIN (2,278 sq ft)

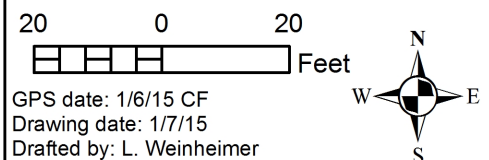
DGW: 62 FT  
Landowner: BLM

Source: Esri, DigitalGlobe,  
Getmapping, Aerogrid, IGN



**CONOCOPHILLIPS**  
**WARREN UNIT**  
**SATELLITE 5**  
LEGALS: UL/F SEC. 28  
T-20-S R-38-E  
LEA COUNTY, NM  
NMOCD CASE # 1RP-3486

Figure 1



# Appendix A

Intial C-141

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  
NMOCD Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

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

RECEIVED  
Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: <b>ConocoPhillips</b>	Contact: <b>Spencer Cluff</b>	
Address: <b>1410 N West Country Road</b>	Telephone No. <b>575-746-7248</b>	
Facility Name: <b>Warren Unit Satellite 5</b>	Facility Type: <b>Satellite</b>	
Surface Owner: <b>NMOCD</b>	Mineral Owner: <b>BLM</b>	API No. <b>30-025-30473</b>

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	28	20S	38E	1940	North	2020	West	LEA

Latitude 32.5462164601454 Longitude 103.155469948588

NATURE OF RELEASE

Type of Release: <b>Spill</b>	Volume of Release: <b>15.67 BBLS</b>	Volume Recovered: <b>0 BBLS</b>
Source of Release: <b>transfer pump intake line</b>	Date and Hour of Occurrence <b>01/03/2015 7:30 am</b>	Date and Hour of Discovery <b>01/03/2015 1:30 pm</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Tomas Oberding Solomon Hughes</b>	
By Whom? <b>Spencer Cluff</b>	Date and Hour: <b>01/05/2015 12:15 pm</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

On Saturday, January 3, 2015 at 1330 hrs. MST, a spill occurred at the Warren Unit Satellite 5. The spill originated from the transfer pump intake line. All valves were closed to the transfer pump and separator, and the transfer pump power was also disabled at the electrical box. Spill area was 120 ft. x 60 ft. x 1 inch deep for a total of 6.68 BO with none recovered. The spill remained on the caliche pad. The area will be remediated according to NMOCD guidelines.

Describe Area Affected and Cleanup Action Taken.\*

Spill area was 120 ft. x 60 ft. x 1 inch deep for a total of 6.68 BO with none recovered. The spill remained on the caliche pad. The area 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: <b>Spencer A. Cluff</b>		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Spencer A. Cluff</b>		Approved by Environmental Specialist:	
Title: <b>LEAD HSE</b>		Approval Date: <b>1-7-15</b>	Expiration Date: <b>2-7-15</b>
E-mail Address: <b>spencer.a.cluff@conocophillips.com</b>		Conditions of Approval: <i>Site Single report. Delivered 2 names over to per NMOCD guide Shirley L. Cluff 2/7/15</i>	
Date: <b>01/05/2015</b>		Attached <input type="checkbox"/> <b>IRP-3486</b>	
Phone: <b>575-746-7248</b>			

\* Attach Additional Sheets If Necessary

JAN 08 2015

NT01500737228  
PT01500737322

217817

# Appendix B

## Laboratory Analysis

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





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

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August 27, 2015

KYLE NORMAN

BASIN ENVIRONMENTAL - HOBBS

419 W. CAIN

HOBBS, NM 88240

RE: WARREN UNIT SAT 5

Enclosed are the results of analyses for samples received by the laboratory on 08/21/15 10:03.

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](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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	08/21/2015	Sampling Date:	08/18/2015
Reported:	08/27/2015	Sampling Type:	Soil
Project Name:	WARREN UNIT SAT 5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

**Sample ID: POINT 1 SURFACE (H502209-01)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2015	ND	2.04	102	2.00	1.23		
Toluene*	<0.050	0.050	08/25/2015	ND	1.92	96.0	2.00	0.582		
Ethylbenzene*	<0.050	0.050	08/25/2015	ND	2.02	101	2.00	0.721		
Total Xylenes*	<0.150	0.150	08/25/2015	ND	5.80	96.6	6.00	0.437		
Total BTEX	<0.300	0.300	08/25/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1740	16.0	08/24/2015	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/24/2015	ND	191	95.4	200	0.499		
DRO >C10-C28	<10.0	10.0	08/24/2015	ND	196	98.0	200	3.17		

Surrogate: 1-Chlorooctane 75.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 74.4 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 08/21/2015  
Reported: 08/27/2015  
Project Name: WARREN UNIT SAT 5  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 08/18/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Judy Garcia

**Sample ID: POINT 1 @ 1' (H502209-02)**

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2015	ND	2.04	102	2.00	1.23	
Toluene*	<0.050	0.050	08/25/2015	ND	1.92	96.0	2.00	0.582	
Ethylbenzene*	<0.050	0.050	08/25/2015	ND	2.02	101	2.00	0.721	
Total Xylenes*	<0.150	0.150	08/25/2015	ND	5.80	96.6	6.00	0.437	
Total BTEx	<0.300	0.300	08/25/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/24/2015	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2015	ND	191	95.4	200	0.499	
DRO >C10-C28	<10.0	10.0	08/24/2015	ND	196	98.0	200	3.17	

Surrogate: 1-Chlorooctane 76.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 70.6 % 52.1-176

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	08/21/2015	Sampling Date:	08/18/2015
Reported:	08/27/2015	Sampling Type:	Soil
Project Name:	WARREN UNIT SAT 5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

**Sample ID: POINT 2 SURFACE (H502209-03)**

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2015	ND	2.04	102	2.00	1.23	
Toluene*	<0.050	0.050	08/25/2015	ND	1.92	96.0	2.00	0.582	
Ethylbenzene*	<0.050	0.050	08/25/2015	ND	2.02	101	2.00	0.721	
Total Xylenes*	<0.150	0.150	08/25/2015	ND	5.80	96.6	6.00	0.437	
Total BTX	<0.300	0.300	08/25/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/24/2015	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	08/24/2015	ND	191	95.4	200	0.499	
DRO >C10-C28	5000	50.0	08/24/2015	ND	196	98.0	200	3.17	

Surrogate: 1-Chlorooctane 83.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 151 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	08/21/2015	Sampling Date:	08/18/2015
Reported:	08/27/2015	Sampling Type:	Soil
Project Name:	WARREN UNIT SAT 5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

**Sample ID: POINT 2 @ 6" (H502209-04)**

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2015	ND	2.04	102	2.00	1.23	
Toluene*	<0.050	0.050	08/25/2015	ND	1.92	96.0	2.00	0.582	
Ethylbenzene*	<0.050	0.050	08/25/2015	ND	2.02	101	2.00	0.721	
Total Xylenes*	<0.150	0.150	08/25/2015	ND	5.80	96.6	6.00	0.437	
Total BTX	<0.300	0.300	08/25/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/24/2015	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	08/24/2015	ND	191	95.4	200	0.499	
DRO >C10-C28	2520	50.0	08/24/2015	ND	196	98.0	200	3.17	

Surrogate: 1-Chlorooctane 83.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 109 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**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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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 7 of 7

[illegible]

† 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



# ConocoPhillips Warren Unit Satellite 5

Unit Letter F, Section 28, T20S, R38E



Initial release area, facing southwest

1/6/15



Initial release area, facing south

1/6/15



Initial release area, facing north

1/6/15