



# CONOCOPHILLIPS

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

## MCA Station 1

---

# Termination Request

API No. 30-025-00783

Release Date: April 19<sup>th</sup>, 2012

Unit Letter A, Section 30, Township 17S, Range 32E

**May 13<sup>th</sup>, 2014**

**Geoffrey Leking**

New Mexico Energy, Minerals, & Natural Resources  
Oil Conservation Division, Environmental Bureau – District 1  
1625 N. French Dr.  
Hobbs, NM 88240-9273

**RE: Termination Request  
ConocoPhillips MCA Station 1  
UL/A sec. 30 T17S R32E  
API No. 30-025-00783**

Mr. Leking:

ConocoPhillips (CoP) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

**Background and Previous Work**

The site is located approximately 3.7 miles southwest of Maljamar, New Mexico at UL/A sec. 30 T17S R32E. Soil bore installation activities at the site suggested that groundwater occurs at a depth of approximately 105 ft bgs.

On April 19<sup>th</sup>, 2012, CoP had a release of 40 barrels of crude oil and 28 barrels of produced water from a water tank. Trash had gotten lodged in the transfer pump, which blocked fluid movement. Water levels rose in the South Water Tank until it overflowed. A total of 36,274 square feet of battery pad, lease road and pasture land was affected. Vacuum trucks were called to the site and recovered 50 barrels of fluid. NMOCD and BLM were notified of the release on April 19<sup>th</sup>, 2012, and an initial C-141 was sent to NMOCD for their approval (Appendix A).

Prior to RECS receiving the site from CoP, another environmental company completed initial assessment activities. Based on that company's assessment, a Corrective Action Plan (CAP) was submitted to NMOCD and BLM. NMOCD approved the CAP on March 13<sup>th</sup>, 2013, and BLM approved the CAP on March 22<sup>nd</sup>, 2013.

RECS personnel were on site beginning on February 25<sup>th</sup>, 2014, to begin the approved CAP work (Figure 1). The release area to the east was excavated to a depth of 10 ft bgs. Once the excavation was completed, wall samples were taken and field tested for chlorides and organic vapors. Representative wall samples were sent to a commercial laboratory to verify that all constituents were below regulatory standards (Appendix B). The release area to the west was excavated to a depth of 3 ft bgs. At 3 ft bgs, a 5 point composite at the base of the excavation was field tested for chlorides and organic vapors. Since the field sampling returned clean data,

further excavation on the west side ceased. The 5 point composite at the base of the excavation was taken to a commercial laboratory to confirm that all constituents were below regulatory standards. Wall samples were taken throughout the final west excavation and field tested for chlorides and organic vapors. Representative wall samples were taken to a commercial laboratory to confirm that all constituents were below regulatory standards (Appendix C).

A total of 3,698 yards<sup>3</sup> of contaminated soil was taken to a NMOCD approved facility for disposal. A total of 420 yards<sup>3</sup> of clay was imported to the site to serve as a clay liner in the east excavation. Another 3,348 yards<sup>3</sup> of top soil was imported to the site to serve as backfill. A sample of the imported top soil was taken to a commercial laboratory for analysis and returned a chloride value of non-detect (Appendix D).

A 2 ft clay liner was installed into the base of the east excavation. Then both excavations were backfilled with the imported top soil to the surface and contoured to the surrounding location. On April 25<sup>th</sup>, 2014, the site was seeded with BLM mix #2.

Photo documentation of all CAP activities can be found in Appendix E.

Given that CoP excavated the east side of the release to 10 ft bgs and the west side of the release to clean, installed a clay liner in the east excavation, backfilled and seeded, CoP respectfully requests 'remediation termination' and site closure. A final C-141 can be found in Appendix F.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,



Lara Weinheimer  
Project Scientist  
RECS  
(575) 441-0431

Attachments:

- Figure 1 – Excavation Data
- Appendix A – Initial C-141
- Appendix B – East Side Excavation Labs
- Appendix C – West Side Excavation Labs
- Appendix D – Imported Soil Lab
- Appendix E – Photo Documentation
- Appendix F – Final C-141

# Figures



# Excavation Data

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
North Wall East	176	24.8	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.30
South Wall Center	176	24.8	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.30
East Wall Center	64	40.4	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.30
West Wall Center	128	54.1	<10	10.3	<0.05	<0.05	<0.05	<0.15	<0.30

Imported Soil Lab CI-  
<16.0

	CI-	GRO	DRO	B	T	E	X	BTEX
5 Point Bottom Comp	240	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.30



Landowner: BLM  
DGW: 105 FT

## Final Wall Samples

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Point 1 East Wall	16	4.1	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
Point 2 South Wall	16	2.8	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
Point 3 South Wall	32	6.2	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
Point 4 West Wall	64	6.1	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
Point 5 West Wall	32	7.9	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
Point 7 West Wall	141	33.8							
Point 8 West Wall	96	64.5	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
Point 9 West Wall	172	84.4							
Point 10 West Wall	<16	10.9	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
Point 11 West Wall	117	11.7							
Point 12 West Wall	128	12.1	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

## Legend

- ▲ 5 PT. BOTTOM COMP
- ▲ FINAL WALL SAMPLES
- ⚡ ELECTRICAL POLE
- BURIED PIPELINE
- OVERHEAD ELECTRIC
- SURFACE PIPELINE
- EXCAVATION @ 3 FT
- EXCAVATION @ 10 FT
- RELEASE (36,274 sq ft)
- REMEDIATED

Source: Esri, DigitalGlobe, GeoEye, i-cubed, Getmapping, Aerogrid, IGN, IGP, swisstopo



## CONOCOPHILLIPS MCA STATION 1

UL A SECTION 30  
T-17-S R-32-E  
LEA COUNTY, NM

Figure 1



0 50 100  
Feet

Drawing date: 3/11/14  
Drafted by: L. Weinheimer

# Appendix A

Initial C-141

*Have Approval of written plan  
Need AFE*

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, 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

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

**Release Notification and Corrective Action**

**OPERATOR**

☒ Initial Report ☐ Final Report

Name of Company	ConocoPhillips Company	Contact	John W. Gates
Address	3300 North A St. Bldg 6, Midland, TX 79705-5406	Telephone No.	505.391.3158
Facility Name	MCA Station I	Facility Type	Oil and Gas
Surface Owner	Federal	Mineral Owner	Federal
		Lease No.	LC-0601995

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	30	17S	32E					Lea

Latitude Longitude

**NATURE OF RELEASE**

Type of Release	Volume of Release	Volume Recovered
Crude Oil & Produced Water	68bbl (40oil, 28water)	(30oil, 20water)
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Thief Hatch on south water tank	04/19/2012 0400	04/19/2012 0630
Was Immediate Notice Given?	If YES, To Whom?	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	Trishia Bad Bear (BLM) & Geoffrey Leking (NMOCD)	
By Whom?	Date and Hour	
Justin Wright	04/19/2012 0700	
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

Spill was caused by the north transfer pump getting trash in the pump which caused the pump to not move any fluid. Water level climbed resulting in tank overflow. Spill site will be delineated/remediated in accordance with BLM & NMOCD guidelines

Describe Area Affected and Cleanup Action Taken.\*

180' x 35', 165' x 20', 65' x 20', 145' x 6', 110' x 80' area of facility pad and road. Each area is 1" deep. Vacuum truck was called and ~30 bbls of oil and ~20 bbls of produced water was recovered

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:	<u>JOHN W. GATES</u>		
Printed Name:	John W. Gates		
Title:	HSER Lead		
E-mail Address:	John.W.Gates@conocophillips.com		
Date:	4/20/2012		
Phone:	505.391.3158		
		<b>OIL CONSERVATION DIVISION</b>	
		Approved by District Supervisor:	
		Approval Date:	Expiration Date:
		Conditions of Approval:	Attached <input type="checkbox"/>

- Attach Additional Sheets If Necessary

# Appendix B

## East Side Excavation Labs

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967



March 05, 2014

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MCA STATION #1

Enclosed are the results of analyses for samples received by the laboratory on 03/04/14 9:30.

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,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 03/04/2014  
Reported: 03/05/2014  
Project Name: MCA STATION #1  
Project Number: NONE GIVEN  
Project Location: CONOCO PHILLIPS

Sampling Date: 02/28/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: PT. 1 EAST WALL (H400644-01)**

BTEX 8260B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2014	ND	2.38	119	2.00	1.15	
Toluene*	<0.050	0.050	03/05/2014	ND	2.32	116	2.00	0.230	
Ethylbenzene*	<0.050	0.050	03/05/2014	ND	2.17	109	2.00	2.08	
Total Xylenes*	<0.150	0.150	03/05/2014	ND	6.57	109	6.00	1.83	
Total BTEX	<0.300	0.300	03/05/2014	ND					

Surrogate: Dibromofluoromethane 99.9 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 109 % 65.7-141

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	03/05/2014	ND	416	104	400	3.77	

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	03/05/2014	ND	205	102	200	6.43	
DRO >C10-C28	<10.0	10.0	03/05/2014	ND	194	97.0	200	9.21	

Surrogate: 1-Chlorooctane 92.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.3 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (30) days after completion of the applicable service. 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 03/04/2014  
Reported: 03/05/2014  
Project Name: MCA STATION #1  
Project Number: NONE GIVEN  
Project Location: CONOCO PHILLIPS

Sampling Date: 02/28/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: PT. 2 SOUTH WALL (H400644-02)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2014	ND	2.38	119	2.00	1.15	
Toluene*	<0.050	0.050	03/05/2014	ND	2.32	116	2.00	0.230	
Ethylbenzene*	<0.050	0.050	03/05/2014	ND	2.17	109	2.00	2.08	
Total Xylenes*	<0.150	0.150	03/05/2014	ND	6.57	109	6.00	1.83	
Total BTX	<0.300	0.300	03/05/2014	ND					

Surrogate: Dibromofluoromethane 97.3 % 61.3-142  
Surrogate: Toluene-d8 101 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

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	03/05/2014	ND	416	104	400	3.77	

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	03/05/2014	ND	205	102	200	6.43	
DRO >C10-C28	<10.0	10.0	03/05/2014	ND	194	97.0	200	9.21	

Surrogate: 1-Chlorooctane 73.0 % 65.2-140  
Surrogate: 1-Chlorooctadecane 77.1 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (30) days after completion of the applicable service. 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 03/04/2014  
Reported: 03/05/2014  
Project Name: MCA STATION #1  
Project Number: NONE GIVEN  
Project Location: CONOCO PHILLIPS

Sampling Date: 02/28/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: PT. 3 SOUTH WALL (H400644-03)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2014	ND	2.38	119	2.00	1.15	
Toluene*	<0.050	0.050	03/05/2014	ND	2.32	116	2.00	0.230	
Ethylbenzene*	<0.050	0.050	03/05/2014	ND	2.17	109	2.00	2.08	
Total Xylenes*	<0.150	0.150	03/05/2014	ND	6.57	109	6.00	1.83	
Total BTX	<0.300	0.300	03/05/2014	ND					

Surrogate: Dibromofluoromethane 98.4 % 61.3-142  
Surrogate: Toluene-d8 98.7 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/05/2014	ND	416	104	400	3.77	

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	03/05/2014	ND	205	102	200	6.43	
DRO >C10-C28	<10.0	10.0	03/05/2014	ND	194	97.0	200	9.21	

Surrogate: 1-Chlorooctane 73.8 % 65.2-140  
Surrogate: 1-Chlorooctadecane 75.8 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (30) days after completion of the applicable service. 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

---

Cardinal Laboratories

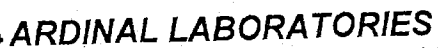
\*=Accredited Analyte

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 client for 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 thirty (30) days after completion of the applicable service. 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



---

Celey D. Keene, Lab Director/Quality Manager

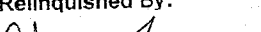




101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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 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.

Relinquished By: 		Date: 3-4-2014 Time: 9:30	Received By: 	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: Add'l Fax #: REMARKS:
Relinquished By:		Date: Time:	Received By:	email results hconder@ <span style="float: right;">iflores@</span> Knorman@ <span style="float: right;">cflores@</span> lweinhelmer@
Delivered By: (Circle One) Sampler - UPS - Bus - Other:			Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: 

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

March 05, 2014

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MCA STATION #1

Enclosed are the results of analyses for samples received by the laboratory on 03/04/14 16:30.

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,



Celey D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 03/04/2014  
Reported: 03/05/2014  
Project Name: MCA STATION #1  
Project Number: NONE GIVEN  
Project Location: CONOCO PHILLIPS

Sampling Date: 03/04/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: POINT 4 WEST WALL (H400661-01)**

BTEX 8260B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2014	ND	2.24	112	2.00	0.979	
Toluene*	<0.050	0.050	03/05/2014	ND	2.33	117	2.00	0.332	
Ethylbenzene*	<0.050	0.050	03/05/2014	ND	2.28	114	2.00	2.39	
Total Xylenes*	<0.150	0.150	03/05/2014	ND	6.91	115	6.00	1.92	
Total BTEX	<0.300	0.300	03/05/2014	ND					

Surrogate: Dibromofluoromethane 94.6 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	03/05/2014	ND	416	104	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	03/05/2014	ND	208	104	200	7.01	
DRO >C10-C28	<10.0	10.0	03/05/2014	ND	204	102	200	6.86	

Surrogate: 1-Chlorooctane 94.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.4 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (30) days after completion of the applicable service. 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 03/04/2014  
Reported: 03/05/2014  
Project Name: MCA STATION #1  
Project Number: NONE GIVEN  
Project Location: CONOCO PHILLIPS

Sampling Date: 03/04/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: POINT 5 WEST WALL (H400661-02)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2014	ND	2.24	112	2.00	0.979	
Toluene*	<0.050	0.050	03/05/2014	ND	2.33	117	2.00	0.332	
Ethylbenzene*	<0.050	0.050	03/05/2014	ND	2.28	114	2.00	2.39	
Total Xylenes*	<0.150	0.150	03/05/2014	ND	6.91	115	6.00	1.92	
Total BTEX	<0.300	0.300	03/05/2014	ND					

Surrogate: Dibromofluoromethane 95.5 % 61.3-142  
Surrogate: Toluene-d8 105 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/05/2014	ND	416	104	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	03/05/2014	ND	208	104	200	7.01	
DRO >C10-C28	<10.0	10.0	03/05/2014	ND	204	102	200	6.86	

Surrogate: 1-Chlorooctane 82.7 % 65.2-140  
Surrogate: 1-Chlorooctadecane 84.8 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (30) days after completion of the applicable service. 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

---

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (30) days after completion of the applicable service. 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



---

Celey D. Keene, Lab Director/Quality Manager



\*RUSH\*

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: RECS				BILL TO				ANALYSIS REQUEST																																	
Project Manager: Kyle Norman				P.O. #:				<div>Chlorides</div> <div>TPH 8015 M</div> <div>BTEX</div> <div>Texas TPH</div> <div>Complete Cations/Anions</div> <div>TDS</div>																																	
Address:				Company:																																					
City: Hobbs State: NM Zip: 88240				Attn:																																					
Phone #: Fax #:				Address:																																					
Project #: Project Owner:				City:																																					
Project Name: Conoco Phillips				State: Zip:																																					
Project Location: MCH Station 1				Phone #: Fax #:																																					
Sampler Name: Chris Flores																																									
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		(GRAB OR (COMP. # CONTAINERS		MATRIX		PRESERV.		SAMPLING																													
								GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME													
		H4001d01		1 Point 4 West Wall		G 1																				3-4-2014		2:30 PM		X X X											
				2 Point 5 West Wall		G 1																				3-4-2014		2:35 PM		X X X											

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 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.

Relinquished By:		Date: 3-4-2014		Received By: Jodi Benson		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:	
Relinquished By:		Time: 4:30		Received By:		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:	
						REMARKS:			
						email results			
						hender@			
						knorman@			
						weinheimer@			
						lflores@			
						cflores@			
Delivered By: (Circle One)				Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other:				Cool Intact		(initials)			
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
				<input type="checkbox"/> No <input checked="" type="checkbox"/> No					

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

#54

March 21, 2014

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MCA STATION #1

Enclosed are the results of analyses for samples received by the laboratory on 03/20/14 8:07.

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,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 03/20/2014  
Reported: 03/21/2014  
Project Name: MCA STATION #1  
Project Number: NONE GIVEN  
Project Location: CONOCO PHILLIPS

Sampling Date: 03/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: POINT 8 WEST WALL (H400841-01)**

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	03/20/2014	ND	2.21	110	2.00	4.86	
Toluene*	<0.050	0.050	03/20/2014	ND	2.10	105	2.00	4.55	
Ethylbenzene*	<0.050	0.050	03/20/2014	ND	2.05	102	2.00	4.60	
Total Xylenes*	<0.150	0.150	03/20/2014	ND	5.88	98.0	6.00	4.52	
Total BTEX	<0.300	0.300	03/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/20/2014	ND	416	104	400	7.41		

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	03/20/2014	ND	214	107	200	7.24	
DRO >C10-C28	<10.0	10.0	03/20/2014	ND	191	95.3	200	8.07	

Surrogate: 1-Chlorooctane 134 % 65.2-140

Surrogate: 1-Chlorooctadecane 150 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (30) days after completion of the applicable service. 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 KYLE NORMAN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

 Received: 03/20/2014  
 Reported: 03/21/2014  
 Project Name: MCA STATION #1  
 Project Number: NONE GIVEN  
 Project Location: CONOCO PHILLIPS

 Sampling Date: 03/18/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: POINT 10 EAST WALL (H400841-02)**

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	03/20/2014	ND	2.21	110	2.00	4.86	
Toluene*	<0.050	0.050	03/20/2014	ND	2.10	105	2.00	4.55	
Ethylbenzene*	<0.050	0.050	03/20/2014	ND	2.05	102	2.00	4.60	
Total Xylenes*	<0.150	0.150	03/20/2014	ND	5.88	98.0	6.00	4.52	
Total BTX	<0.300	0.300	03/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

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	03/20/2014	ND	416	104	400	7.41		

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	03/20/2014	ND	214	107	200	7.24	
DRO >C10-C28	<10.0	10.0	03/20/2014	ND	191	95.3	200	8.07	

Surrogate: 1-Chlorooctane 136 % 65.2-140

Surrogate: 1-Chlorooctadecane 151 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (30) days after completion of the applicable service. 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 03/20/2014  
Reported: 03/21/2014  
Project Name: MCA STATION #1  
Project Number: NONE GIVEN  
Project Location: CONOCO PHILLIPS

Sampling Date: 03/19/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: POINT 12 NORTH WALL (H400841-03)**

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	03/20/2014	ND	2.21	110	2.00	4.86	
Toluene*	<0.050	0.050	03/20/2014	ND	2.10	105	2.00	4.55	
Ethylbenzene*	<0.050	0.050	03/20/2014	ND	2.05	102	2.00	4.60	
Total Xylenes*	<0.150	0.150	03/20/2014	ND	5.88	98.0	6.00	4.52	
Total BTX	<0.300	0.300	03/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/20/2014	ND	416	104	400	7.41	

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	03/21/2014	ND	214	107	200	7.24	
DRO >C10-C28	<10.0	10.0	03/21/2014	ND	191	95.3	200	8.07	

Surrogate: 1-Chlorooctane 80.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.7 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (30) days after completion of the applicable service. 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

---

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (30) days after completion of the applicable service. 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



---

Celey D. Keene, Lab Director/Quality Manager



# 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

*Rush*

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 6 of 6

Company Name: <b>RECS</b>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: <b>Kyle Norman</b>				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div>Chlorides</div> <div>TPH 8015 M</div> <div>BTEX</div> <div>Texas TPH</div> <div>Complete Cations/Anions</div> <div>TDS</div> </div>																			
Address:				Company:																							
City: <b>Hobbs</b> State: <b>NM</b> Zip: <b>88240</b>				Attn:																							
Phone #: Fax #:				Address:																							
Project #: Project Owner:				City:																							
Project Name: <b>Conaco Phillips</b>				State: Zip:																							
Project Location: <b>MCA Station 1</b>				Phone #:																							
Sampler Name: <b>Chris Flores</b>				Fax #:																							
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		(GRAB OR (C)OMP. # CONTAINERS		MATRIX				PRESERV		SAMPLING													
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER				ACID/BASE: ICE / COOL OTHER		DATE TIME													
<b>H400841</b>																											
<b>1</b>		<b>Point 8 West wall</b>		<b>G</b>		<b>1</b>								<b>3-18-14 11:45AM</b>		<b>X X X</b>											
<b>2</b>		<b>Point 10 East wall</b>		<b>G</b>		<b>1</b>								<b>3-18-14 9:50AM</b>		<b>X X X</b>											
<b>3</b>		<b>Point 12 North wall</b>		<b>G</b>		<b>1</b>								<b>3-19-14 11:05AM</b>		<b>X X X</b>											

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 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.

Relinquished By:		Date: <b>3-20-2014</b>		Received By: <b>Jodi Benson</b>		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:	
Time: <b>8:07</b>		Time:		Time:		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:	
Relinquished By: <b>Chris Flores</b>		Date:		Received By:		REMARKS:  email results hcondere@ lweinheimer@ Knorman@ lflores@ cflores@			
Time:		Time:		Time:					
Delivered By: (Circle One)		Sample Condition		CHECKED BY: <b>[Signature]</b>					
Sampler - UPS - Bus - Other:		Cool Intact							
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							

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

**#54**

# Appendix C

## West Side Excavation Labs

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

March 25, 2014

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MCA STATION #1

Enclosed are the results of analyses for samples received by the laboratory on 03/21/14 12:47.

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,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 KYLE NORMAN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

 Received: 03/21/2014  
 Reported: 03/25/2014  
 Project Name: MCA STATION #1  
 Project Number: NONE GIVEN  
 Project Location: CONOCO PHILLIPS

 Sampling Date: 03/21/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Amanda Ponce

**Sample ID: 5 PT. BOTTOM COMP (H400858-01)**

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	03/21/2014	ND	2.07	104	2.00	12.1	
Toluene*	<0.050	0.050	03/21/2014	ND	1.99	99.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/21/2014	ND	1.94	96.8	2.00	11.8	
Total Xylenes*	<0.150	0.150	03/21/2014	ND	5.63	93.8	6.00	11.2	
Total BTEX	<0.300	0.300	03/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/24/2014	ND	416	104	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	03/24/2014	ND	201	101	200	2.43	
DRO >C10-C28	<10.0	10.0	03/24/2014	ND	201	100	200	3.00	

Surrogate: 1-Chlorooctane 76.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.1 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (30) days after completion of the applicable service. 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 03/21/2014  
Reported: 03/25/2014  
Project Name: MCA STATION #1  
Project Number: NONE GIVEN  
Project Location: CONOCO PHILLIPS

Sampling Date: 03/21/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Amanda Ponce

**Sample ID: NORTH WALL EAST (H400858-02)**

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	03/21/2014	ND	2.07	104	2.00	12.1	
Toluene*	<0.050	0.050	03/21/2014	ND	1.99	99.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/21/2014	ND	1.94	96.8	2.00	11.8	
Total Xylenes*	<0.150	0.150	03/21/2014	ND	5.63	93.8	6.00	11.2	
Total BTEx	<0.300	0.300	03/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/24/2014	ND	416	104	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	03/24/2014	ND	201	101	200	2.43	
DRO >C10-C28	<10.0	10.0	03/24/2014	ND	201	100	200	3.00	

Surrogate: 1-Chlorooctane 82.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.4 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (30) days after completion of the applicable service. 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 03/21/2014  
Reported: 03/25/2014  
Project Name: MCA STATION #1  
Project Number: NONE GIVEN  
Project Location: CONOCO PHILLIPS

Sampling Date: 03/21/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Amanda Ponce

**Sample ID: SOUTH WALL CENTER (H400858-03)**

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	03/21/2014	ND	2.07	104	2.00	12.1	
Toluene*	<0.050	0.050	03/21/2014	ND	1.99	99.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/21/2014	ND	1.94	96.8	2.00	11.8	
Total Xylenes*	<0.150	0.150	03/21/2014	ND	5.63	93.8	6.00	11.2	
Total BTEx	<0.300	0.300	03/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/24/2014	ND	416	104	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	03/24/2014	ND	201	101	200	2.43	
DRO >C10-C28	<10.0	10.0	03/24/2014	ND	201	100	200	3.00	

Surrogate: 1-Chlorooctane 85.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.6 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (30) days after completion of the applicable service. 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 KYLE NORMAN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

 Received: 03/21/2014  
 Reported: 03/25/2014  
 Project Name: MCA STATION #1  
 Project Number: NONE GIVEN  
 Project Location: CONOCO PHILLIPS

 Sampling Date: 03/21/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Amanda Ponce

**Sample ID: EAST WALL CENTER (H400858-04)**

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	03/21/2014	ND	2.07	104	2.00	12.1	
Toluene*	<0.050	0.050	03/21/2014	ND	1.99	99.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/21/2014	ND	1.94	96.8	2.00	11.8	
Total Xylenes*	<0.150	0.150	03/21/2014	ND	5.63	93.8	6.00	11.2	
Total BTEx	<0.300	0.300	03/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	03/24/2014	ND	416	104	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	03/24/2014	ND	201	101	200	2.43	
DRO >C10-C28	<10.0	10.0	03/24/2014	ND	201	100	200	3.00	

Surrogate: 1-Chlorooctane 68.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 79.4 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (30) days after completion of the applicable service. 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 03/21/2014  
Reported: 03/25/2014  
Project Name: MCA STATION #1  
Project Number: NONE GIVEN  
Project Location: CONOCO PHILLIPS

Sampling Date: 03/21/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Amanda Ponce

**Sample ID: WEST WALL CENTER (H400858-05)**

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	03/21/2014	ND	2.07	104	2.00	12.1	
Toluene*	<0.050	0.050	03/21/2014	ND	1.99	99.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/21/2014	ND	1.94	96.8	2.00	11.8	
Total Xylenes*	<0.150	0.150	03/21/2014	ND	5.63	93.8	6.00	11.2	
Total BTX	<0.300	0.300	03/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/24/2014	ND	416	104	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	03/24/2014	ND	201	101	200	2.43	
DRO >C10-C28	10.3	10.0	03/24/2014	ND	201	100	200	3.00	

Surrogate: 1-Chlorooctane 79.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.6 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (30) days after completion of the applicable service. 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

---

Cardinal Laboratories

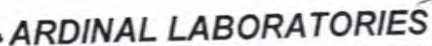
\*=Accredited Analyte

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 client for 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 thirty (30) days after completion of the applicable service. 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



---

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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 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.

Relinquished By: <u>Chris Flores</u> Date: <u>3-21-2014</u> Time: <u>12:47</u>		Received By: <u>[Signature]</u> Date: _____ Time: _____		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    Add'l Fax #: _____ REMARKS:	
Relinquished By: _____ Date: _____ Time: _____		Received By: _____ Date: _____ Time: _____		email results hconder@knorman@ lweinheimerlflores@ cflores	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>5.8C</u>		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		CHECKED BY: <u>[Signature]</u> (Initials)	

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

March 26, 2014

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MCA STATION #1

Enclosed are the results of analyses for samples received by the laboratory on 03/25/14 15:05.

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,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 03/25/2014  
Reported: 03/26/2014  
Project Name: MCA STATION #1  
Project Number: NONE GIVEN  
Project Location: CONOCO PHILLIPS

Sampling Date: 03/25/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: EAST WALL CENTER (H400883-01)**

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	03/25/2014	ND	1.97	98.3	2.00	9.72	
Toluene*	<0.050	0.050	03/25/2014	ND	1.87	93.7	2.00	9.34	
Ethylbenzene*	<0.050	0.050	03/25/2014	ND	1.84	91.8	2.00	8.67	
Total Xylenes*	<0.150	0.150	03/25/2014	ND	5.40	90.0	6.00	7.38	
Total BTX	<0.300	0.300	03/25/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/26/2014	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	03/26/2014	ND	218	109	200	6.66	
DRO >C10-C28	<10.0	10.0	03/26/2014	ND	196	98.2	200	0.812	

Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (30) days after completion of the applicable service. 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager



### Notes and Definitions

QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
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

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 client for 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 thirty (30) days after completion of the applicable service. 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



---

Celey D. Keene, Lab Director/Quality Manager



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

[illegible]

**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 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.

Relinquished By:		Date:	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:
<i>Chris Flores</i>		Time:	<i>3:05</i>	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS:		
		Time:		email results		
Delivered By: (Circle One)		Sample Condition		CHECKED BY:		
Sampler - UPS - Bus - Other:		Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		(Initials)		
				<i>hcoader</i> <i>1 Flores</i>		
				<i>knorman</i> <i>aflores</i>		
				<i>lweilheimer</i>		

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

3-2476  
#45

# Appendix D

## Imported Soil Lab

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

March 31, 2014

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MCA STATION #1

Enclosed are the results of analyses for samples received by the laboratory on 03/25/14 15:05.

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,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 03/25/2014  
Reported: 03/31/2014  
Project Name: MCA STATION #1  
Project Number: NONE GIVEN  
Project Location: CONOCO PHILLIPS

Sampling Date: 03/25/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: IMPORTED SOIL (H400884-01)****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	03/28/2014	ND	416	104	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (30) days after completion of the applicable service. 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

---

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (30) days after completion of the applicable service. 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



---

Celey D. Keene, Lab Director/Quality Manager








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

## Page 4 of 4

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 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.

Relinquished By:		Date:	Received By:	Phone Result:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
		Time:		Fax Result:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:		REMARKS:	email results hender@      iFlores@ Knorman@ lWeinheimer@      CFlores@	
Delivered By: (Circle One)		Time:	Received By:			
Sampler - UPS - Bus - Other:			Sample Condition	CHECKED BY:		
			<input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No			

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

~~#~~ 54

# Appendix E

Photo Documentation

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967



# ConocoPhillips MCA Station 1

Unit Letter A, Section 30, T17S, R32E



Begin excavating east side, facing northwest 2/25/14



Exporting soil, facing north 2/26/14



Continue excavating east site, facing south 2/28/14



East excavation completed, facing northeast 3/20/14





Begin excavating the west side, facing north 3/20/14



West excavation completed, facing southwest 3/21/14



Importing clay, facing southwest 3/21/14



Installing clay liner in east excavation, facing northeast 3/21/14





Clay liner installed in east excavation, facing north  
3/25/14



Importing top soil, facing north  
3/25/14



Backfilling east excavation with top soil, facing north  
3/27/14



Backfilling of east excavation completed, facing  
northeast  
4/3/14



Backfilling of west excavation completed, facing  
northeast 4/3/14



Tilling site prior to seeding, facing north 4/25/14



Seeding site with BLM #2, facing south 4/25/14



Tilling in seed, facing southeast 4/25/14





East side completed, facing north

4/25/14



West side completed, facing northeast

4/25/14

# Appendix F

Final C-141

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

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

Form C-141  
Revised August 8, 2011

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 Company	Contact	Sean Robinson
Address	3300 North A St. Bldg 6, Midland, TX 79705-5406	Telephone No.	575-391-3147
Facility Name	MCA Station I	Facility Type	Oil and Gas

Surface Owner	Federal	Mineral Owner	Federal	API No.	30-025-00783
---------------	---------	---------------	---------	---------	--------------

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	30	17S	32E					Lea

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

#### NATURE OF RELEASE


Type of Release	Crude Oil & Produced Water	Volume of Release	68bbls (40 oil, 28 water)	Volume Recovered	(30 oil, 20 water)
Source of Release	Thief Hatch on south water tank	Date and Hour of Occurrence	04/19/2012 0400	Date and Hour of Discovery	04/19/2012 0630
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Trisha Bad Bear (BLM) & Geoffrey Leking (NMOCD)		
By Whom?	Justin Wright	Date and Hour	04/19/2012 0700		
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.\* Spill was caused by the north transfer pump getting trash in the pump which caused the pump to not move any fluid. Water level climbed resulting in tank overflow. Vacuum trucks were called to the site and removed 50 barrels of fluid.

Describe Area Affected and Cleanup Action Taken.\* A total of 36,274 square feet of battery pad, lease road and pasture land was affected. Prior to RECS receiving the site from CoP, another environmental company completed initial assessment activities. Based on that company's assessment, a Corrective Action Plan (CAP) was submitted to NMOCD and BLM. NMOCD approved the CAP on March 13<sup>th</sup>, 2013 and BLM approved the CAP on March 22<sup>nd</sup>, 2013. RECS personnel were on site beginning on February 25<sup>th</sup>, 2014, to begin the approved CAP work. The release area to the east was excavated to a depth of 10 ft bgs. Once the excavation was completed, wall samples were taken and field tested for chlorides and organic vapors. Representative wall samples were sent to a commercial laboratory to verify that all constituents were below regulatory standards. The release area to the west was excavated to a depth of 3 ft bgs. At 3 ft bgs, a 5 point composite at the base of the excavation was field tested for chlorides and organic vapors. Since the field sampling returned clean data, further excavation on the west side ceased. The 5 point composite at the base of the excavation was taken to a commercial laboratory to confirm that all constituents were below regulatory standards. Wall samples were taken throughout the final west excavation and field tested for chlorides and organic vapors. Representative wall samples were taken to a commercial laboratory to confirm that all constituents were below regulatory standards. A total of 3,698 yards<sup>3</sup> of contaminated soil was taken to a NMOCD approved facility for disposal. A total of 420 yards<sup>3</sup> of clay was imported to the site to serve as a clay liner in the east excavation. Another 3,348 yards<sup>3</sup> of top soil was imported to the site to serve as backfill. A sample of the imported top soil was taken to a commercial laboratory for analysis and returned a chloride value of non-detect. A 2 ft clay liner was installed into the base of the east excavation. Both excavations were then backfilled with the imported top soil to the surface and contoured to the surrounding location. On April 25<sup>th</sup>, 2014, the site was seeded with BLM mix #2.

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>OIL CONSERVATION DIVISION</b>		
Printed Name: SEAN ROBINSON	Approved by Environmental Specialist:		
Title: OPERATIONS SUPERVISOR	Approval Date:	Expiration Date:	
E-mail Address: Sean.T.Robinson@cop.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 5-13-14	Phone: 575-391-3147		

\* Attach Additional Sheets If Necessary