

HOBBS OCD

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

JUL 15 2014

Form C-141
Revised August 8, 2011

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

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

RECEIVED

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company ConocoPhillips	Contact
Address 29 Vacuum Complex Lane	Telephone No.
Facility Name MCA 2F Header	Facility Type Header

Surface Owner BLM	Mineral Owner BLM	API No. 3002500718
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	27	17S	32E	1980	South	1980	East	Lea

Latitude 32.8037075642669 Longitude -103.752155401928

NATURE OF RELEASE

Type of Release Spill	Volume of Release 11.7 BBLs	Volume Recovered 5 BBLs
Source of Release 2 inch steel flow line	Date and Hour of Occurrence 10/17/13 7:20 am	Date and Hour of Discovery SAME
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/Geoffrey Leking	
By Whom? David May	Date and Hour 10/18/13 2:50 pm	
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.* Release was caused by external corrosion. Abandoned line was connected to a 12" trunk line with a butterfly valve that was leaking. Line was disconnected from butterfly valve and was replaced with ball valve plug.

Describe Area Affected and Cleanup Action Taken.* The release affected a total of 3,485 square feet of lease pad and pasture land. RECS personnel were on site beginning on December 10th, 2013 to assess the release. The release was photographed and mapped. Beginning on April 7th, 2014, four points within the release area were sampled at the surface and with depth. The samples were field tested for chlorides and organic vapors, and representative samples were taken to a commercial laboratory for analysis. Based on the laboratory data, a Corrective Action Plan (CAP) was submitted to NMOCD and BLM on April 15th, 2014. BLM approved the CAP on April 16th, 2014 and NMOCD approved the CAP on April 22nd, 2014. BLM had one stipulation as part of their approval. They stated that Point 4 must be excavated to 1.5 ft and shown to be clean. Corrective actions began at the site on May 9th, 2014. The site was scraped down by hand and backhoe as stated in the approved CAP. A total of 285 cubic yards of contaminated soil was taken to a NMOCD approved facility for disposal. A final sample was taken at the base of each scrape, including Point 4 as requested by BLM, and sent to a commercial laboratory for analysis. All constituents from each sample point returned results below regulatory standards. A total of 205 cubic yards of base coarse caliche and 80 cubic yards of top soil were imported to the site to serve as backfill. A composite sample from the imported base coarse caliche and the imported top soil were taken to a commercial laboratory for analysis. The imported base coarse caliche returned a laboratory chloride reading of 112 mg/kg, and the imported top soil returned a laboratory chloride reading of non-detect. On May 22nd, 2014, RECS requested permission to backfill the site from NMOCD and BLM. BLM approved the site to be backfilled on May 23rd, 2014, and NMOCD approved the site to be backfilled on May 27th, 2014. The pasture area was backfilled with the imported top soil and the lease pad was backfilled with the imported base coarse caliche. Both areas were contoured to their surrounding locations. On May 30th, 2014, the scraped pasture area and the adjacent areas with little vegetation were 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: <i>Jean Roberson</i>	OIL CONSERVATION DIVISION	
Printed Name: JEAN ROBERSON	Approved by Environmental Specialist:	
Title: OPERATIONS SUPERVISOR	Approval Date: 7-15-14	Expiration Date: _____
E-mail Address: JEAN.T.ROBERSON@cp.com	Conditions of Approval: _____	Attached <input type="checkbox"/>
Date: 7/2/14 Phone: 575-390-8873		7-14-3176

* Attach Additional Sheets If Necessary

JUL 15 2014

ogrid 217819
NTO 1419039129
PTO 1419 639441



CONOCOPHILLIPS

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

MCA 2F Header

Termination Request

API No. 3002500718

Release Date: October 17th, 2013

Unit Letter J, Section 27, Township 17S, Range 32E



PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

July 2nd, 2014

Tomáš 'Doc' Oberding, PhD

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

**RE: Termination Request
ConocoPhillips MCA 2F Header
UL/J sec. 27 T17S R32E
API No. 3002500718**

Dr. Oberding:

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 3.6 miles south of Maljamar, New Mexico at UL/J sec. 27 T17S R32E. NM OSE records indicate that groundwater will likely be encountered at a depth of approximately 65 +/- feet.

On October 17th, 2013, CoP discovered a release of 11.7 barrels of fluid from an abandoned 2 inch steel line connected to a 12 inch truck line by a butterfly valve. The butterfly valve leaked and the line was disconnected and replaced with a ball valve and plug. The release affected a total of 3,485 square feet of lease pad and pasture land. Five barrels of fluid was recovered from the site. NMOCD and BLM were notified of the release on October 18th, 2013 and an initial C-141 was sent to NMOCD for their approval (Appendix A).

RECS personnel were on site beginning on December 10th, 2013 to assess the release. The release was photographed and mapped. Beginning on April 7th, 2014, four points within the release area were sampled at the surface and with depth (Figure 1). The samples were field tested for chlorides and organic vapors, and representative samples were taken to a commercial laboratory for analysis (Appendix B).

Based on the laboratory data, a Corrective Action Plan (CAP) was submitted to NMOCD and BLM on April 15th, 2014. BLM approved the CAP on April 16th, 2014 and NMOCD approved the CAP on April 22nd, 2014. As part of the CAP, the release area would be scraped down one foot using a backhoe in the easily accessible areas and by hydrovac and by hand in the southern area of the release where active lines inhibit easy access. The remainder of the contamination from the release would be addressed during site abandonment. All excavated soils would be disposed of at a NMOCD approved facility. Clean soil would be imported to the site to serve as

backfill and to contour the site to the surrounding location. A sample of the imported soil would be taken to a commercial laboratory for analysis to confirm that the constituents are below regulatory standards. Soil amendments would be added to the pasture area as needed and then seeded with a blend of native vegetation.

BLM had one stipulation as part of their approval. They stated that Point 4 must be excavated to 1.5 ft and shown to be clean (Figure 2).

Corrective actions began at the site on May 9th, 2014. The site was scraped down by hand and backhoe as shown in the approved Corrective Action Plan Stipulations map (Figure 3). A total of 285 cubic yards of contaminated soil was taken to a NMOCD approved facility for disposal. A final sample was taken at the base of each scrape, including Point 4 as requested by BLM, and sent to a commercial laboratory for analysis (Appendix C). All constituents from each sample point returned results below regulatory standards. A total of 205 cubic yards of base coarse caliche and 80 cubic yards of top soil were imported to the site to serve as backfill. A composite sample from the imported base coarse caliche and the imported top soil were taken to a commercial laboratory for analysis. The imported base coarse caliche returned a laboratory chloride reading of 112 mg/kg, and the imported top soil returned a laboratory chloride reading of non-detect.

On May 22nd, 2014, RECS requested permission to backfill the site from NMOCD and BLM. BLM approved the site to be backfilled on May 23rd, 2014, and NMOCD approved the site to be backfilled on May 27th, 2014. The pasture area was backfilled with the imported top soil and the lease pad was backfilled with the imported base coarse caliche. Both areas were contoured to their surrounding locations. On May 30th, 2014, the scraped pasture area and the adjacent areas with little vegetation were seeded with BLM mix #2.

Photo documentation of these activities can be found in Appendix D.

Given that the site was scraped in accordance with the approved CAP and backfilled with clean, imported soil, CoP respectfully requests 'remediation termination' and site closure. The remainder of the contamination from the release will be addressed during site abandonment. A final C-141 can be found in Appendix E.

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 – Vertical Data

Figure 2 – Corrective Action Plan Stipulations

Figure 3 – Excavation Data

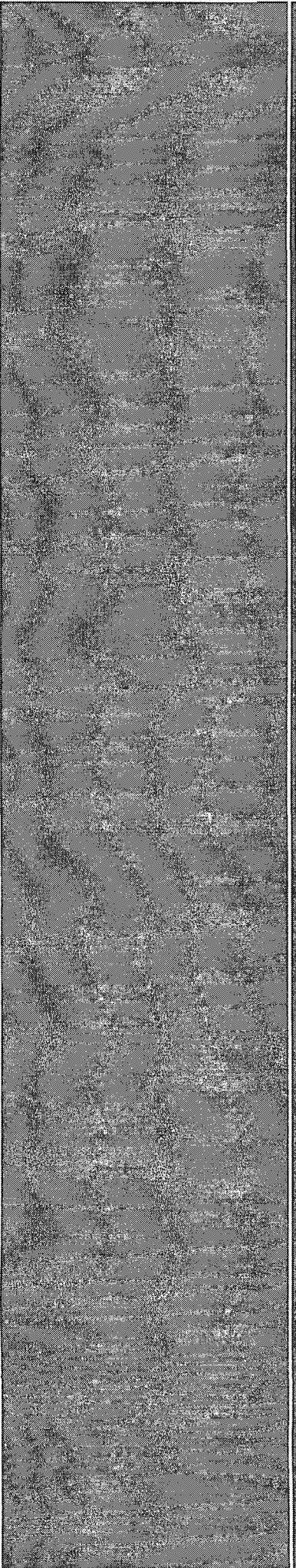
Appendix A – Initial C-141

Appendix B – Initial Sampling Labs

Appendix C – Excavation Sampling Labs

Appendix D – Photo Documentation

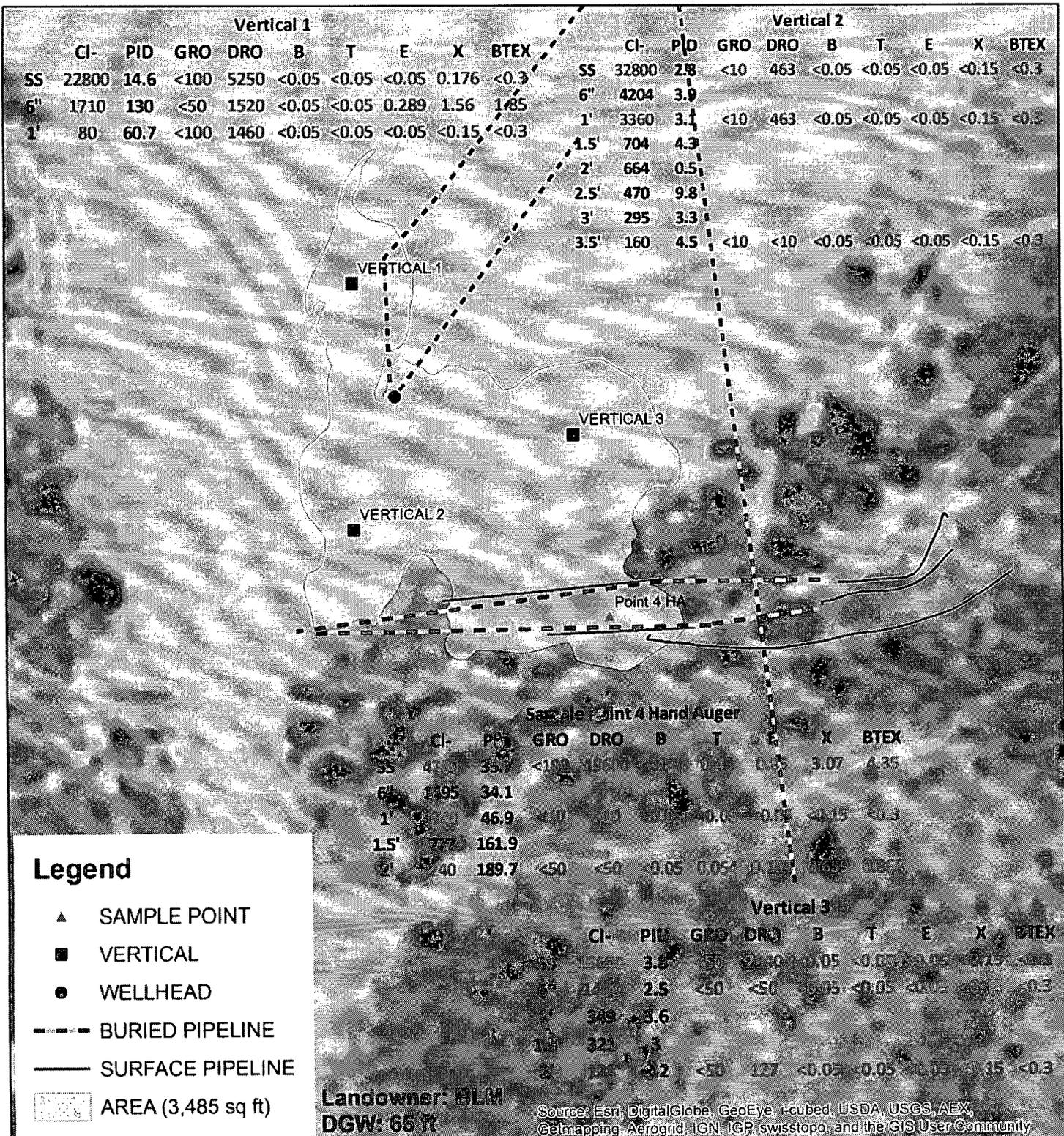
Appendix E – Final C-141



Figures

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

Vertical Data



Legend

- ▲ SAMPLE POINT
- VERTICAL
- WELLHEAD
- BURIED PIPELINE
- SURFACE PIPELINE
- ▨ AREA (3,485 sq ft)

Landowner: BLM
DGW: 65 ft

Source: Esri, DigitalGlobe, GeoEye, I-cubed, USDA, USGS, AEX, Calmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



CONOCOPHILLIPS MCA 2F HEADER

LEGALS: UL/J sec. 27
T-17-S R-32-E
LEA COUNTY, NM

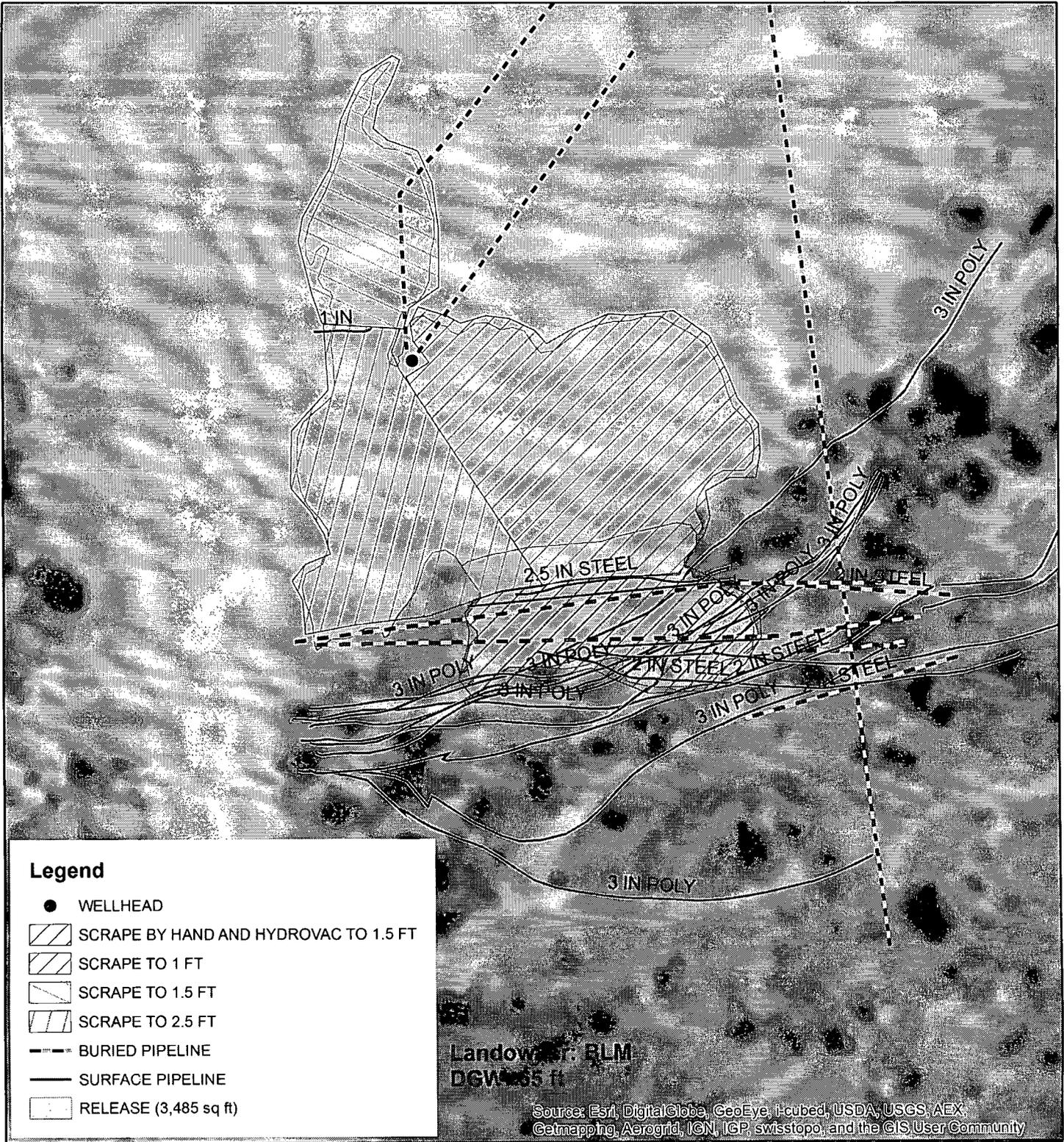
Figure 1



0 10 20
Feet

GPS date: 4/7/14 EC
Drawing date: 4/9/14
Drafted by: C. Ursanic

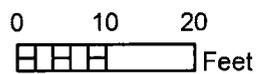
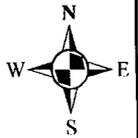
Corrective Action Plan Stipulations



CONOCOPHILLIPS MCA 2F HEADER

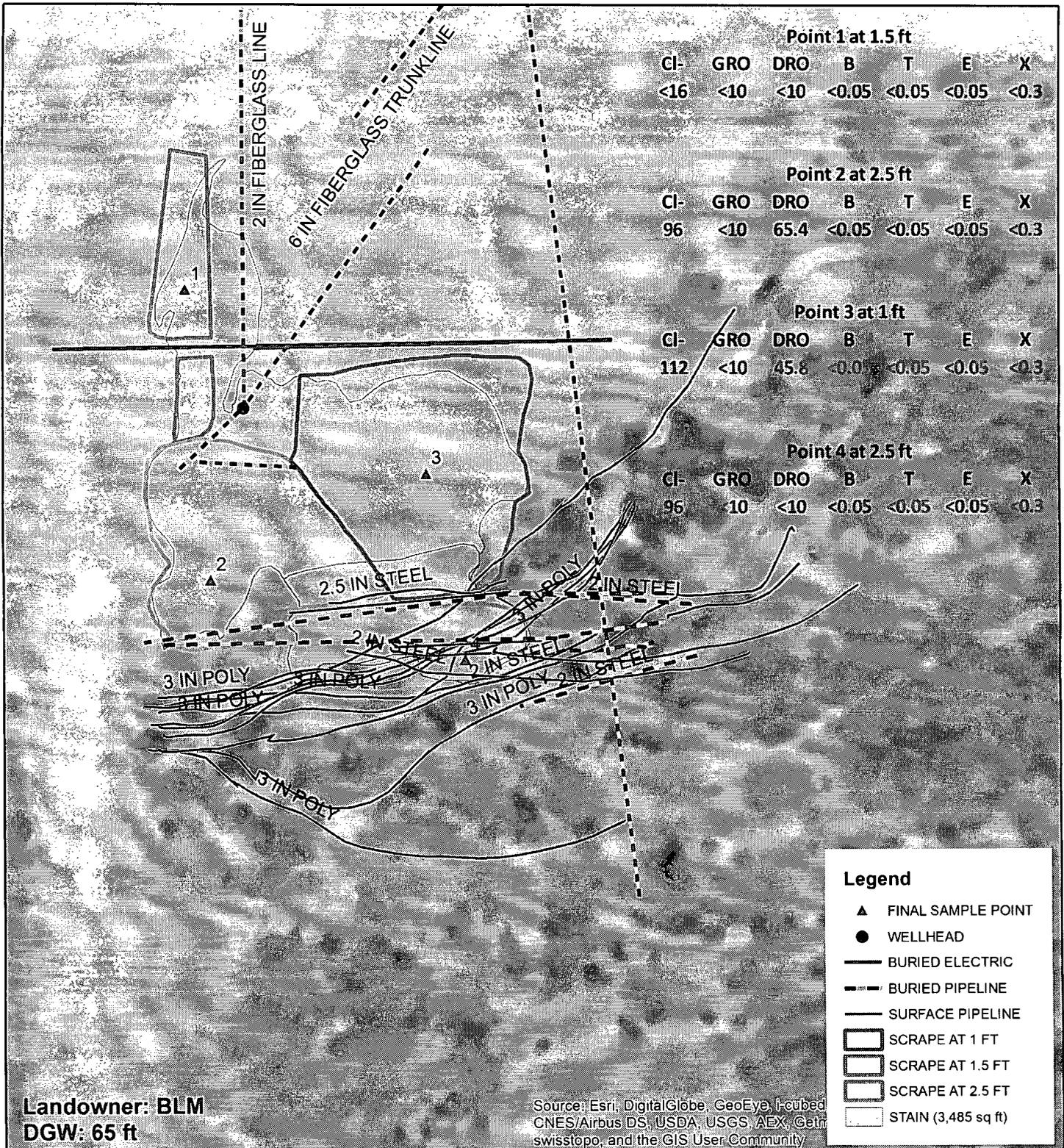
LEGALS: UL/J sec. 27
T-17-S R-32-E
LEA COUNTY, NM

Figure 2



GPS date: 4/7/14 EC
Drawing date: 4/22/14
Drafted by: L. Weinheimer

Excavation Data



Landowner: BLM
DGW: 65 ft

Source: Esri, DigitalGlobe, GeoEye, i-cubed, CNES/Airbus DS, USDA, USGS, AEX, Getm, swisstopo, and the GIS User Community

Legend

- ▲ FINAL SAMPLE POINT
- WELLHEAD
- BURIED ELECTRIC
- - - BURIED PIPELINE
- SURFACE PIPELINE
- SCRAPE AT 1 FT
- SCRAPE AT 1.5 FT
- SCRAPE AT 2.5 FT
- STAIN (3,485 sq ft)

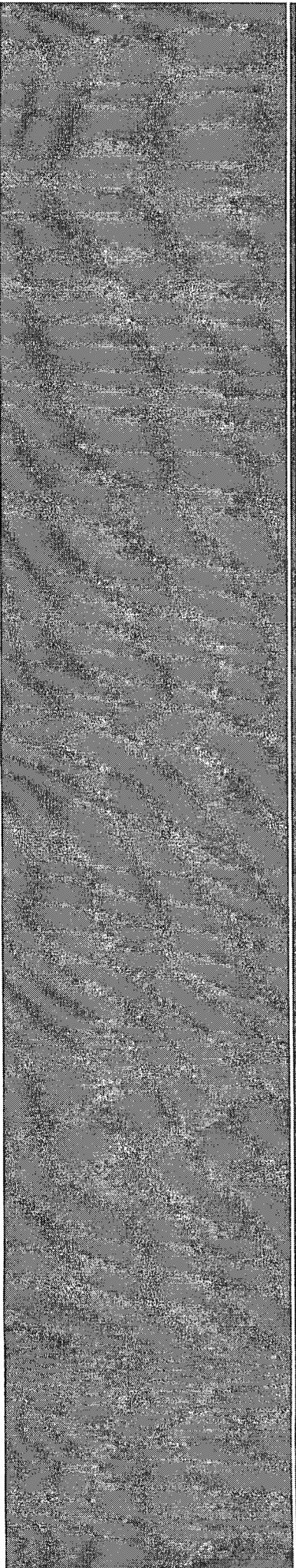
RECS
RICE ENVIRONMENTAL
CONSULTING & SAFETY

CONOCOPHILLIPS
MCA 2F HEADER

LEGALS: UL/J sec. 27
T-17-S R-32-E
LEA COUNTY, NM

Figure 3

GPS date: 5/21/14 CF
Drawing date: 5/22/14
Drafted by: L. Weinheimer



Appendix A

Initial 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
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811 S. First St., Artesia, NM 88210
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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	Contact: David May
Address: 29 Vacuum Complex Lane	Telephone No. 575-391-3106
Facility Name: MCA 2F Header	Facility Type: Header

Surface Owner: BLM	Mineral Owner: BLM	API No. 3002500718
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	27	17S	32E	1980	South	1980	East	LEA

Latitude **32.8037075642669**

Longitude **-103.752155401928**

NATURE OF RELEASE

Type of Release: Spill	Volume of Release: 11.7 BBLs	Volume Recovered: 5 BBLs
Source of Release: 2 inch steel flow line	Date and Hour of Occurrence 10/17/13 7:20 am	Date and Hour of Discovery SAME
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Trish Bad Bear/Geoffrey Leking	
By Whom? David May	Date and Hour: 10/18/13 2:50 pm	
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.*

Release was caused by external corrosion. Abandoned line was connected to a 12" trunk line with a butterfly valve that was leaking. Line was disconnected from butterfly valve and was replaced with ball valve and plug.

Describe Area Affected and Cleanup Action Taken.*

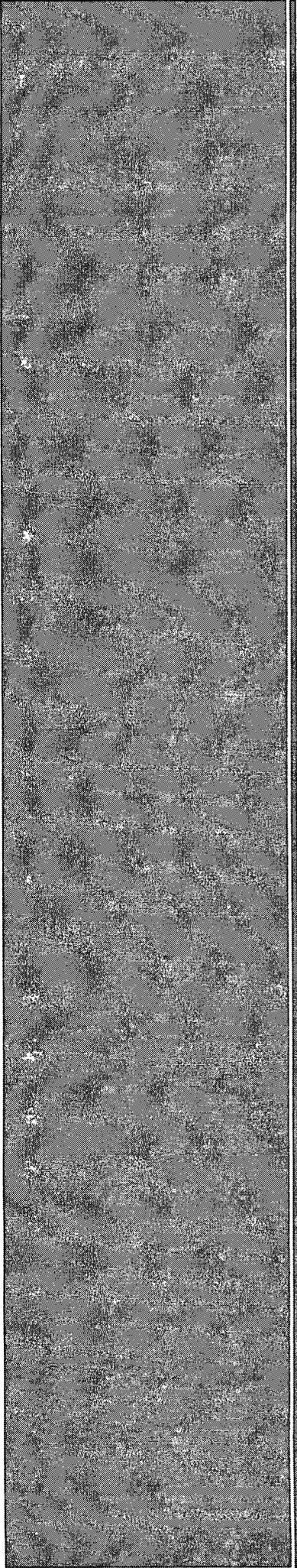
Affected area was 60 feet X 60 feet. Spill will be remediated according to BLM requirements.

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.

OIL CONSERVATION DIVISION

Signature:		
Printed Name: David May	Approved by Environmental Specialist:	
Title: LEAD HSE	Approval Date:	Expiration Date:
E-mail Address: david.d.may@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/18/13	Phone: 575-391-3106	

* Attach Additional Sheets If Necessary



Appendix B

Initial Sampling Labs

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

April 08, 2014

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MCA 2 F HEADER

Enclosed are the results of analyses for samples received by the laboratory on 04/07/14 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is 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:	04/07/2014	Sampling Date:	04/07/2014
Reported:	04/08/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: VERTICAL #1 SURFACE (H401054-01)

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	04/08/2014	ND	2.13	106	2.00	3.71		
Toluene*	<0.050	0.050	04/08/2014	ND	2.17	108	2.00	4.04		
Ethylbenzene*	<0.050	0.050	04/08/2014	ND	2.16	108	2.00	4.18		
Total Xylenes*	0.176	0.150	04/08/2014	ND	6.29	105	6.00	4.72		
Total BTEX	<0.300	0.300	04/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 125 % 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	22800	16.0	04/08/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<100	100	04/08/2014	ND	188	94.2	200	2.05			
DRO >C10-C28	5250	100	04/08/2014	ND	206	103	200	1.70			

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 228 % 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:	04/07/2014	Sampling Date:	04/07/2014
Reported:	04/08/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: VERTICAL #1 6" (H401054-02)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/08/2014	ND	2.13	106	2.00	3.71		
Toluene*	<0.050	0.050	04/08/2014	ND	2.17	108	2.00	4.04		
Ethylbenzene*	0.289	0.050	04/08/2014	ND	2.16	108	2.00	4.18		
Total Xylenes*	1.56	0.150	04/08/2014	ND	6.29	105	6.00	4.72		
Total BTEX	1.85	0.300	04/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 221 % 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	1710	16.0	04/08/2014	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	<50.0	50.0	04/08/2014	ND	188	94.2	200	2.05		
DRO >C10-C28	1520	50.0	04/08/2014	ND	206	103	200	1.70		

Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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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:	04/07/2014	Sampling Date:	04/07/2014
Reported:	04/08/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: VERTICAL #1 1' (H401054-03)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/08/2014	ND	2.13	106	2.00	3.71		
Toluene*	<0.050	0.050	04/08/2014	ND	2.17	108	2.00	4.04		
Ethylbenzene*	<0.050	0.050	04/08/2014	ND	2.16	108	2.00	4.18		
Total Xylenes*	<0.150	0.150	04/08/2014	ND	6.29	105	6.00	4.72		
Total BTEX	<0.300	0.300	04/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 129 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP				S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/08/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms				S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	04/08/2014	ND	188	94.2	200	2.05		
DRO >C10-C28	1460	100	04/08/2014	ND	206	103	200	1.70		

Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 169 % 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

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 Fax To: (575) 397-1471

Received:	04/07/2014	Sampling Date:	04/07/2014
Reported:	04/08/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: VERTICAL #2 SURFACE (H401054-04)

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	04/08/2014	ND	2.13	106	2.00	3.71		
Toluene*	<0.050	0.050	04/08/2014	ND	2.17	108	2.00	4.04		
Ethylbenzene*	<0.050	0.050	04/08/2014	ND	2.16	108	2.00	4.18		
Total Xylenes*	<0.150	0.150	04/08/2014	ND	6.29	105	6.00	4.72		
Total BTEX	<0.300	0.300	04/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 118 % 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	32800	16.0	04/08/2014	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	04/08/2014	ND	188	94.2	200	2.05		
DRO >C10-C28	463	10.0	04/08/2014	ND	206	103	200	1.70		

Surrogate: 1-Chlorooctane 96.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.9 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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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:	04/07/2014	Sampling Date:	04/07/2014
Reported:	04/08/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: VERTICAL #2 1' (H401054-05)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/08/2014	ND	2.13	106	2.00	3.71		
Toluene*	<0.050	0.050	04/08/2014	ND	2.17	108	2.00	4.04		
Ethylbenzene*	<0.050	0.050	04/08/2014	ND	2.16	108	2.00	4.18		
Total Xylenes*	<0.150	0.150	04/08/2014	ND	6.29	105	6.00	4.72		
Total BTEX	<0.300	0.300	04/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 118 % 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	3360	16.0	04/08/2014	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	04/08/2014	ND	188	94.2	200	2.05		
DRO >C10-C28	<10.0	10.0	04/08/2014	ND	206	103	200	1.70		

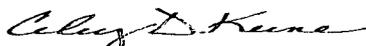
Surrogate: 1-Chlorooctane 92.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.4 % 63.6-154

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*=Accredited Analyte

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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:	04/07/2014	Sampling Date:	04/07/2014
Reported:	04/08/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: VERTICAL #2 3.5' (H401054-06)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/08/2014	ND	2.13	106	2.00	3.71		
Toluene*	<0.050	0.050	04/08/2014	ND	2.17	108	2.00	4.04		
Ethylbenzene*	<0.050	0.050	04/08/2014	ND	2.16	108	2.00	4.18		
Total Xylenes*	<0.150	0.150	04/08/2014	ND	6.29	105	6.00	4.72		
Total BTEX	<0.300	0.300	04/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 120 % 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	160	16.0	04/08/2014	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	04/08/2014	ND	188	94.2	200	2.05		
DRO >C10-C28	<10.0	10.0	04/08/2014	ND	206	103	200	1.70		

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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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:	04/07/2014	Sampling Date:	04/07/2014
Reported:	04/08/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: VERTICAL #3 SURFACE (H401054-07)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/08/2014	ND	2.13	106	2.00	3.71		
Toluene*	<0.050	0.050	04/08/2014	ND	2.17	108	2.00	4.04		
Ethylbenzene*	<0.050	0.050	04/08/2014	ND	2.16	108	2.00	4.18		
Total Xylenes*	<0.150	0.150	04/08/2014	ND	6.29	105	6.00	4.72		
Total BTEX	<0.300	0.300	04/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 118 % 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	15600	16.0	04/08/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<50.0	50.0	04/08/2014	ND	188	94.2	200	2.05			
DRO >C10-C28	2940	50.0	04/08/2014	ND	206	103	200	1.70			

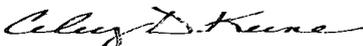
Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 158 % 63.6-154

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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:	04/07/2014	Sampling Date:	04/07/2014
Reported:	04/08/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: VERTICAL #3 6" (H401054-08)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/08/2014	ND	2.13	106	2.00	3.71		
Toluene*	<0.050	0.050	04/08/2014	ND	2.17	108	2.00	4.04		
Ethylbenzene*	<0.050	0.050	04/08/2014	ND	2.16	108	2.00	4.18		
Total Xylenes*	<0.150	0.150	04/08/2014	ND	6.29	105	6.00	4.72		
Total BTEX	<0.300	0.300	04/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 119 % 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	1490	16.0	04/08/2014	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	<50.0	50.0	04/08/2014	ND	188	94.2	200	2.05		
DRO >C10-C28	<50.0	50.0	04/08/2014	ND	206	103	200	1.70		

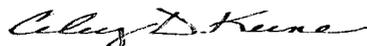
Surrogate: 1-Chlorooctane 100 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.0 % 63.6-154

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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:	04/07/2014	Sampling Date:	04/07/2014
Reported:	04/08/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: VERTICAL #3 2' (H401054-09)

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	04/08/2014	ND	2.13	106	2.00	3.71		
Toluene*	<0.050	0.050	04/08/2014	ND	2.17	108	2.00	4.04		
Ethylbenzene*	<0.050	0.050	04/08/2014	ND	2.16	108	2.00	4.18		
Total Xylenes*	<0.150	0.150	04/08/2014	ND	6.29	105	6.00	4.72		
Total BTEX	<0.300	0.300	04/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 120 % 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	04/08/2014	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	<50.0	50.0	04/08/2014	ND	188	94.2	200	2.05		
DRO >C10-C28	127	50.0	04/08/2014	ND	206	103	200	1.70		

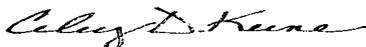
Surrogate: 1-Chlorooctane 85.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.3 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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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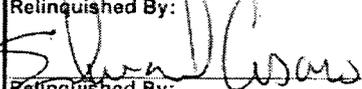
Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: RECS				BILL TO				ANALYSIS REQUEST									
Project Manager: KYLE NORMAN				P.O. #:				<div style="font-size: 2em; font-family: cursive;">RUSH!</div>									
Address:				Company:													
City:		State:		Zip:		Attn:											
Phone #:		Fax #:		Address:													
Project #:		Project Owner:		City:													
Project Name:				State:		Zip:											
Project Location: CoP MCA 2F HEADER				Phone #:													
Sampler Name: EDWARD CESAREO				Fax #:													
FOR LAB USE ONLY																	
Lab I.D.	Sample I.D.	GRAB OR (COMP. # CONTAINERS	MATRIX									PRESERV		SAMPLING		TPH	CLORIDES
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	DATE	TIME				
H401054																	
1	VERTICAL#1 Surface	G 1			/			/		4-7-14	10:15	/	/	/			
2	VERTICAL#1 6"	G 1			/			/		}	10:20	/	/	/			
3	VERTICAL#1 1'	G 1			/			/			10:25	/	/	/			
4	VERTICAL#2 Surface	G 1			/			/			11:50	/	/	/			
5	VERTICAL#2 1'	G 1			/			/			11:55	/	/	/			
6	VERTICAL#2 3.5'	G 1			/			/			12:00	/	/	/			
7	VERTICAL#3 Surface	G 1			/			/			12:50	/	/	/			
8	VERTICAL#3 6"	G 1			/			/			12:55	/	/	/			
9	VERTICAL#3 2'	G 1			/			/			1:00	/	/	/			

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Relinquished By: 	Date: 4-7-14	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 4:15	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: hronder@rice-swd.com Knorman@rice-ecs.com lweinheimer@rice-ecs.com ecesareo@rice-ecs.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: 		



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

April 09, 2014

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MCA 2 F HEADER

Enclosed are the results of analyses for samples received by the laboratory on 04/08/14 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is 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 style with a large, prominent initial 'C'.

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:	04/08/2014	Sampling Date:	04/08/2014
Reported:	04/09/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: POINT 4 @ SURFACE (H401066-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	04/09/2014	ND	2.19	109	2.00	4.47		
Toluene*	0.430	0.200	04/09/2014	ND	2.09	105	2.00	3.09		
Ethylbenzene*	0.850	0.200	04/09/2014	ND	2.02	101	2.00	3.47		
Total Xylenes*	3.07	0.600	04/09/2014	ND	5.81	96.8	6.00	3.75		
Total BTEX	4.35	1.20	04/09/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 123 % 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	4280	16.0	04/09/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<100	100	04/09/2014	ND	203	101	200	3.60			
DRO >C10-C28	19600	100	04/09/2014	ND	219	109	200	6.96			

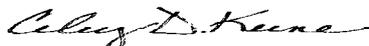
Surrogate: 1-Chlorooctane 152 % 65.2-140

Surrogate: 1-Chlorooctadecane 648 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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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:	04/08/2014	Sampling Date:	04/08/2014
Reported:	04/09/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: POINT 4 @ 1' (H401066-02)

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	04/09/2014	ND	2.19	109	2.00	4.47		
Toluene*	<0.050	0.050	04/09/2014	ND	2.09	105	2.00	3.09		
Ethylbenzene*	<0.050	0.050	04/09/2014	ND	2.02	101	2.00	3.47		
Total Xylenes*	<0.150	0.150	04/09/2014	ND	5.81	96.8	6.00	3.75		
Total BTEX	<0.300	0.300	04/09/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 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	1740	16.0	04/09/2014	ND	400	100	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	04/09/2014	ND	203	101	200	3.60		
DRO >C10-C28	<10.0	10.0	04/09/2014	ND	219	109	200	6.96		

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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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:	04/08/2014	Sampling Date:	04/08/2014
Reported:	04/09/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: POINT 4 @ 2' (H401066-03)

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	04/09/2014	ND	2.19	109	2.00	4.47		
Toluene*	0.054	0.050	04/09/2014	ND	2.09	105	2.00	3.09		
Ethylbenzene*	0.155	0.050	04/09/2014	ND	2.02	101	2.00	3.47		
Total Xylenes*	0.659	0.150	04/09/2014	ND	5.81	96.8	6.00	3.75		
Total BTEX	0.868	0.300	04/09/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 123 % 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	04/09/2014	ND	400	100	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	<50.0	50.0	04/09/2014	ND	203	101	200	3.60		
DRO >C10-C28	<50.0	50.0	04/09/2014	ND	219	109	200	6.96		

Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

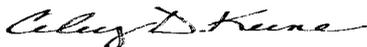
Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- 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

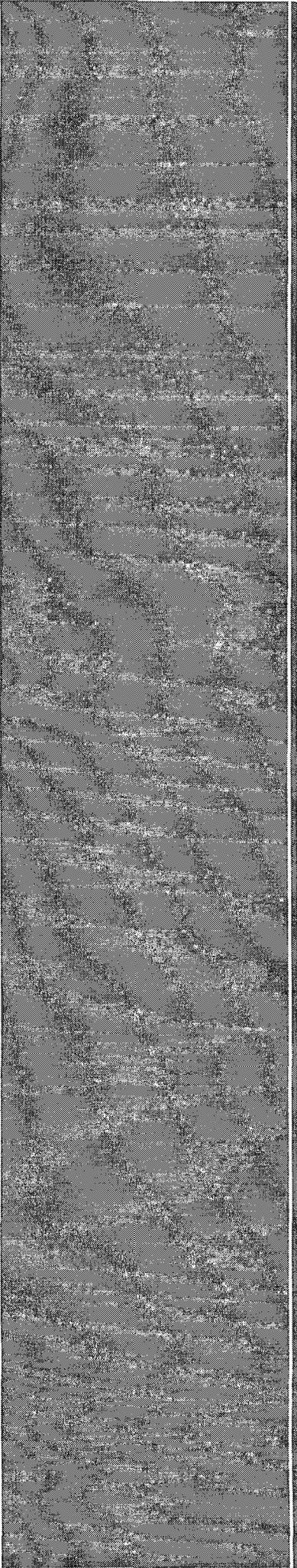
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Celey D. Keene, Lab Director/Quality Manager



Appendix C

Excavation Sampling Labs

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



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

May 22, 2014

KYLE NORMAN
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: MCA 2 F HEADER

Enclosed are the results of analyses for samples received by the laboratory on 05/21/14 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is 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 cursive script that reads "Celey D. Keene".

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:	05/21/2014	Sampling Date:	05/21/2014
Reported:	05/22/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: EXC. #1 BTTM SAMPLE GRAB @ 1.5' (H401564-01)

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	05/22/2014	ND	2.26	113	2.00	2.72		
Toluene*	<0.050	0.050	05/22/2014	ND	2.21	111	2.00	2.27		
Ethylbenzene*	<0.050	0.050	05/22/2014	ND	2.14	107	2.00	2.39		
Total Xylenes*	<0.150	0.150	05/22/2014	ND	6.72	112	6.00	2.43		
Total BTEX	<0.300	0.300	05/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 89.4-126

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	05/22/2014	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	05/22/2014	ND	202	101	200	3.08		
DRO >C10-C28	<10.0	10.0	05/22/2014	ND	219	110	200	5.82		

Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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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:	05/21/2014	Sampling Date:	05/21/2014
Reported:	05/22/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: EXC. #2 BTM SAMPLE GRAB @ 2.5' (H401564-02)

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	05/22/2014	ND	2.26	113	2.00	2.72		
Toluene*	<0.050	0.050	05/22/2014	ND	2.21	111	2.00	2.27		
Ethylbenzene*	<0.050	0.050	05/22/2014	ND	2.14	107	2.00	2.39		
Total Xylenes*	<0.150	0.150	05/22/2014	ND	6.72	112	6.00	2.43		
Total BTEX	<0.300	0.300	05/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/22/2014	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	05/22/2014	ND	202	101	200	3.08		
DRO >C10-C28	65.4	10.0	05/22/2014	ND	219	110	200	5.82		

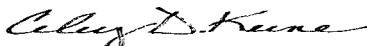
Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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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:	05/21/2014	Sampling Date:	05/21/2014
Reported:	05/22/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: EXC. #3 BTTM SAMPLE GRAB @ 1' (H401564-03)

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	05/22/2014	ND	2.26	113	2.00	2.72		
Toluene*	<0.050	0.050	05/22/2014	ND	2.21	111	2.00	2.27		
Ethylbenzene*	<0.050	0.050	05/22/2014	ND	2.14	107	2.00	2.39		
Total Xylenes*	<0.150	0.150	05/22/2014	ND	6.72	112	6.00	2.43		
Total BTEX	<0.300	0.300	05/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/22/2014	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	05/22/2014	ND	202	101	200	3.08		
DRO >C10-C28	45.8	10.0	05/22/2014	ND	219	110	200	5.82		

Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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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:	05/21/2014	Sampling Date:	05/21/2014
Reported:	05/22/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: EXC. #4 BTM SAMPLE GRAB @ 2.5' (H401564-04)

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	05/22/2014	ND	2.26	113	2.00	2.72		
Toluene*	<0.050	0.050	05/22/2014	ND	2.21	111	2.00	2.27		
Ethylbenzene*	<0.050	0.050	05/22/2014	ND	2.14	107	2.00	2.39		
Total Xylenes*	<0.150	0.150	05/22/2014	ND	6.72	112	6.00	2.43		
Total BTEX	<0.300	0.300	05/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/22/2014	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	05/22/2014	ND	202	101	200	3.08		
DRO >C10-C28	<10.0	10.0	05/22/2014	ND	219	110	200	5.82		

Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

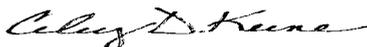
Notes and Definitions

- 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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

May 28, 2014

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MCA 2 F HEADER

Enclosed are the results of analyses for samples received by the laboratory on 05/27/14 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.

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,



Caley 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:	05/27/2014	Sampling Date:	05/27/2014
Reported:	05/28/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: IMPORTED BASE COARSE (H401623-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/28/2014	ND	416	104	400	3.77		

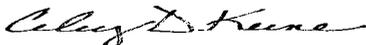
Sample ID: IMPORTED TOP SOIL (H401623-02)

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	05/28/2014	ND	416	104	400	0.00		

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

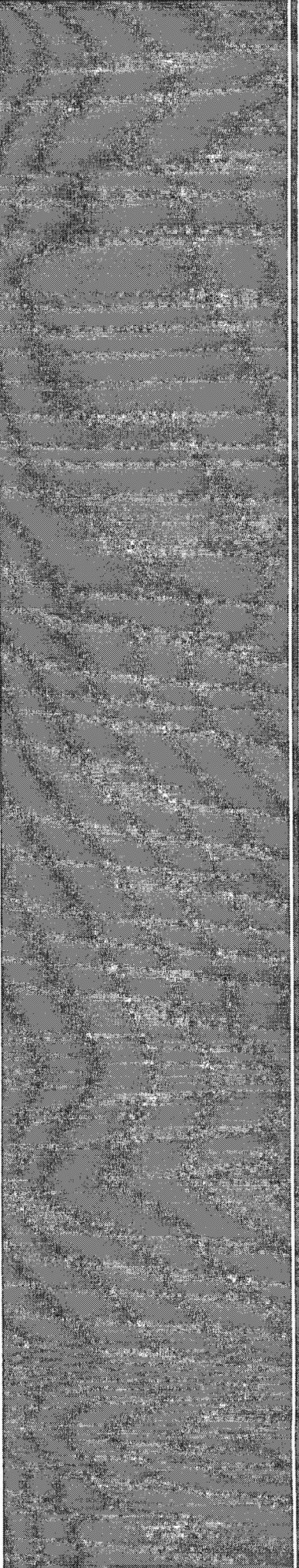
Cardinal Laboratories

*=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



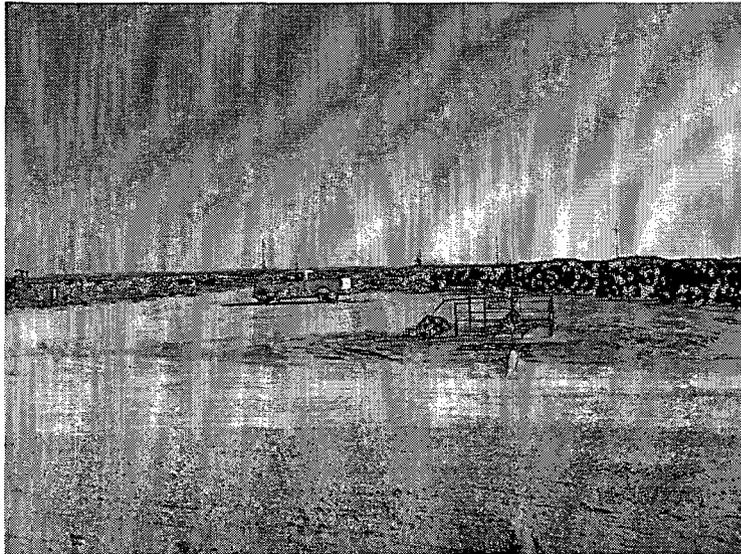
Appendix D

Photo Documentation

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

ConocoPhillips MCA 2F Header

Unit Letter J, Section 27, T17S, R32E



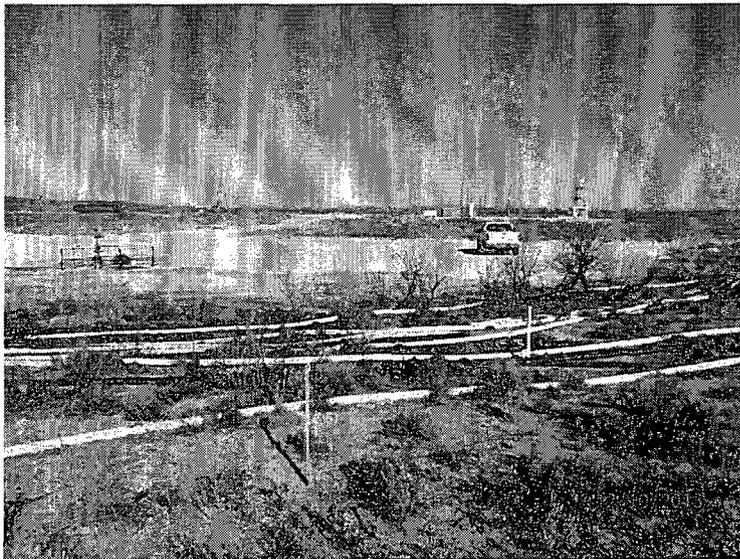
Initial site photo, facing east

12/10/13



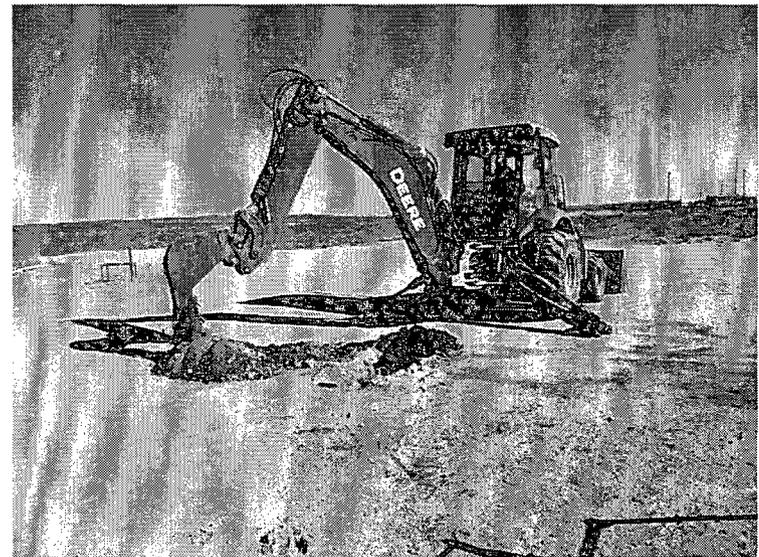
Initial site photo, facing northeast

12/10/13



Initial site photo, facing north

12/10/13

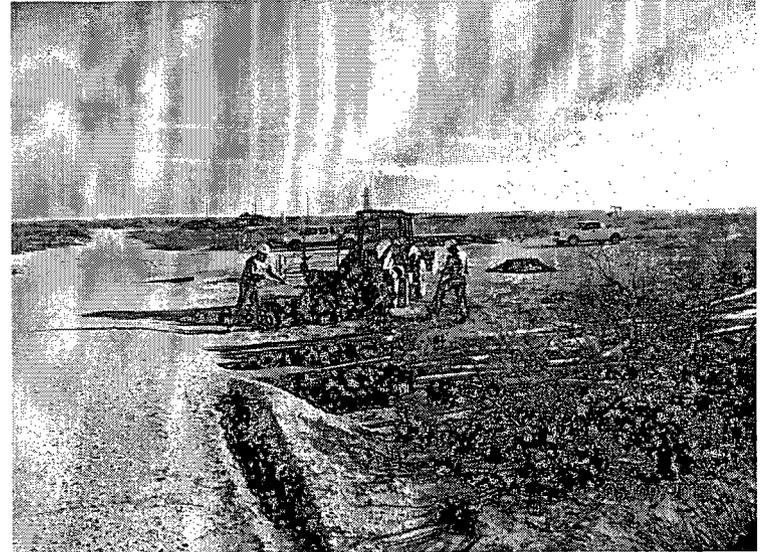


Installing verticals, facing northwest

4/7/14



Hand auguring Point 4, facing northwest 4/8/14



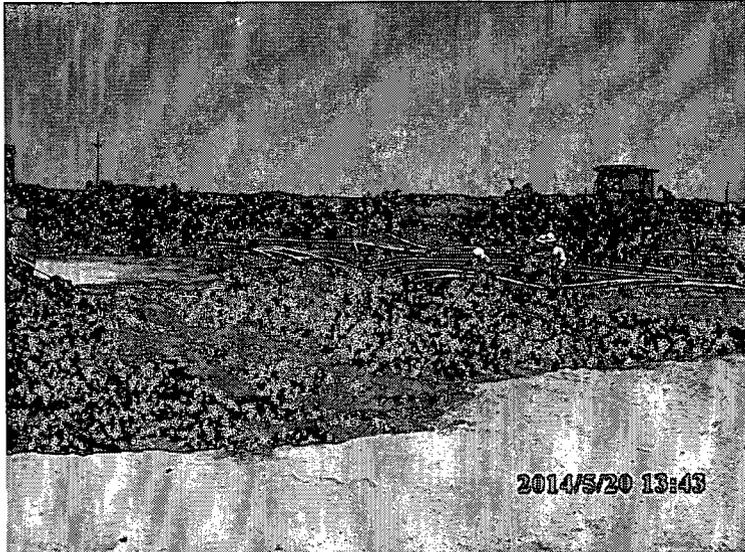
Shoveling release area, facing northeast 5/9/14



Sampling the hand shoveled scrape, facing west 5/15/14

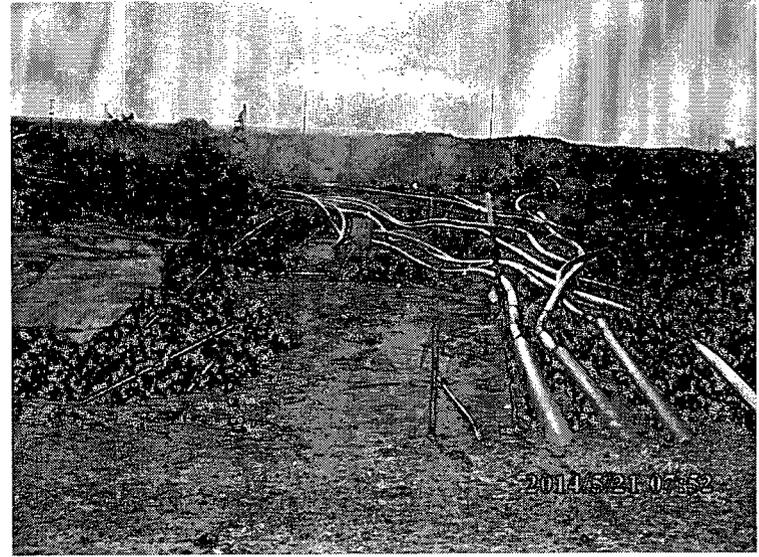


Excavating site, facing northeast 5/20/14



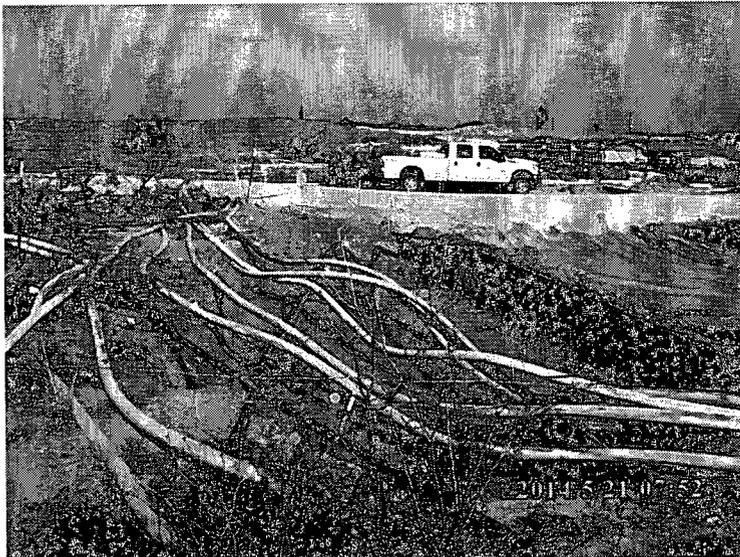
Excavating site, facing southeast

5/20/14



Excavation completed, facing east

5/21/14



Excavation completed, facing west

5/21/14



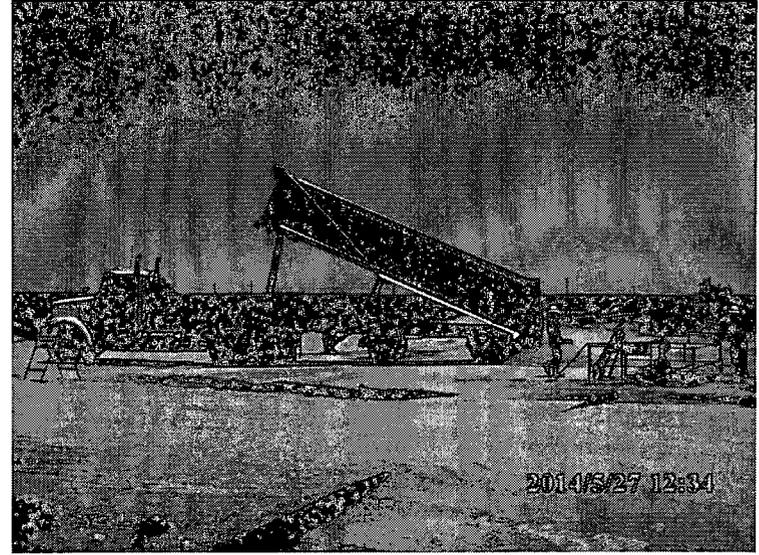
Excavation completed, facing east

5/21/14



Exporting soil, facing northeast

5/21/14



Importing caliche, facing northeast

5/27/14



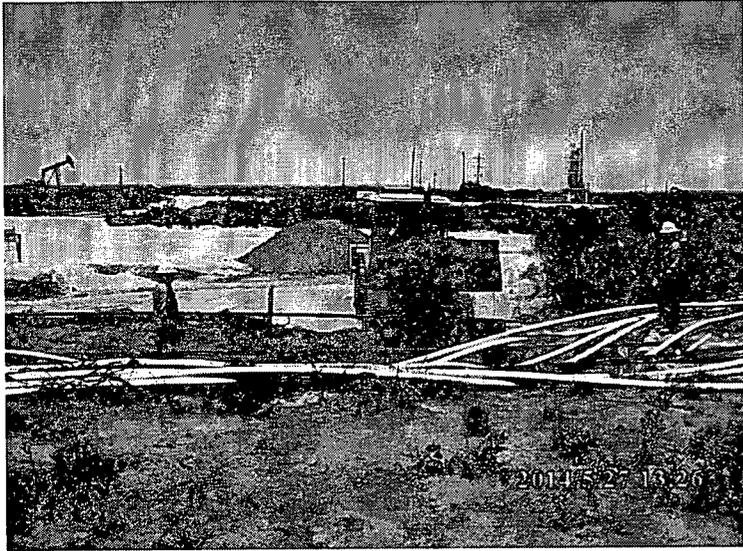
Backfilling site, facing northeast

5/27/14



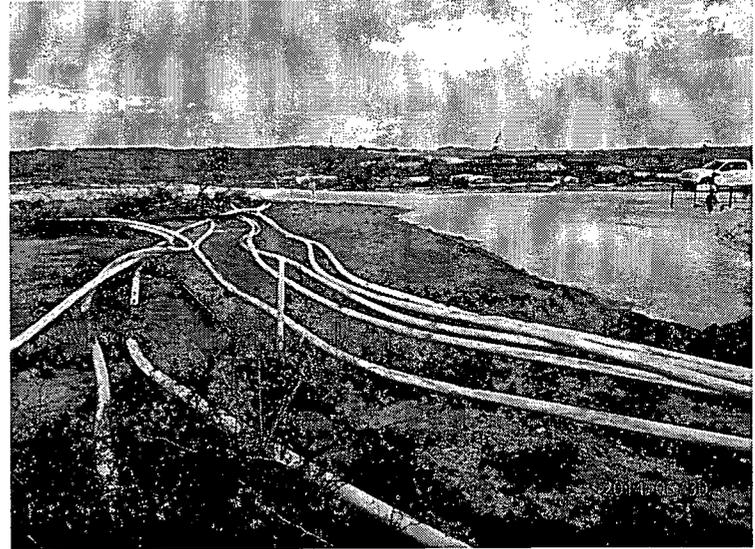
Importing top soil, facing northeast

5/27/14



Backfilling site, facing north

5/27/14



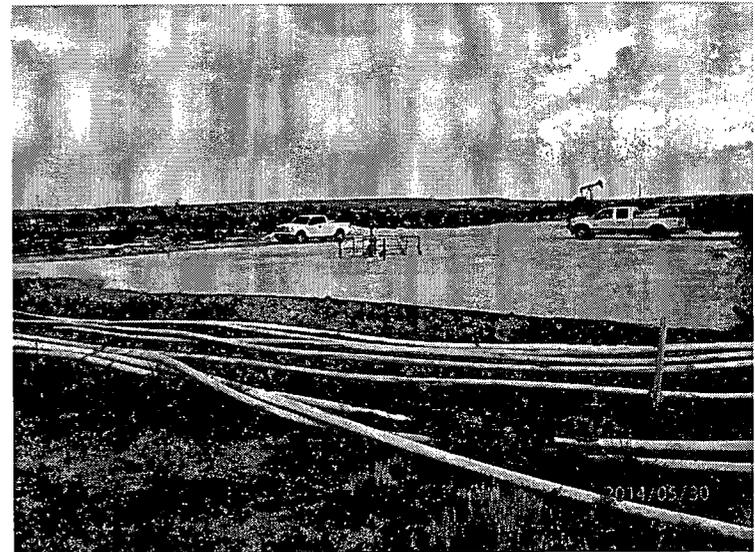
Backfill completed, facing east

5/30/14



Backfill completed, facing east

5/30/14



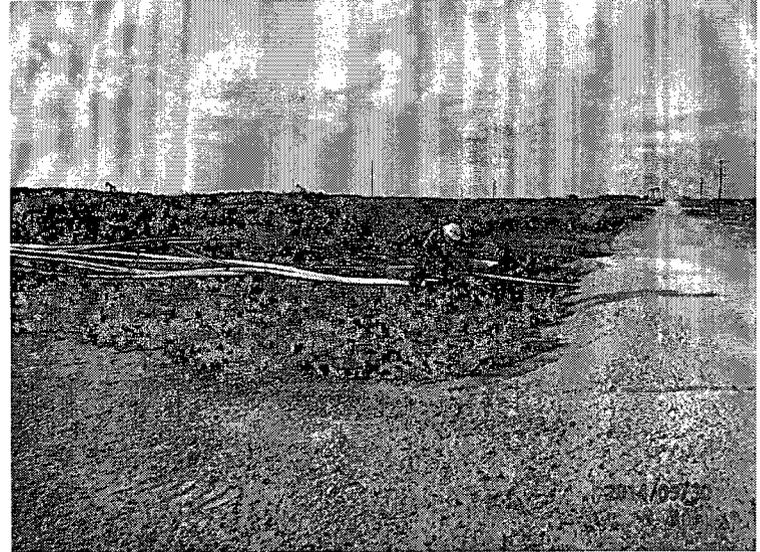
Backfill completed, facing northwest

5/30/14



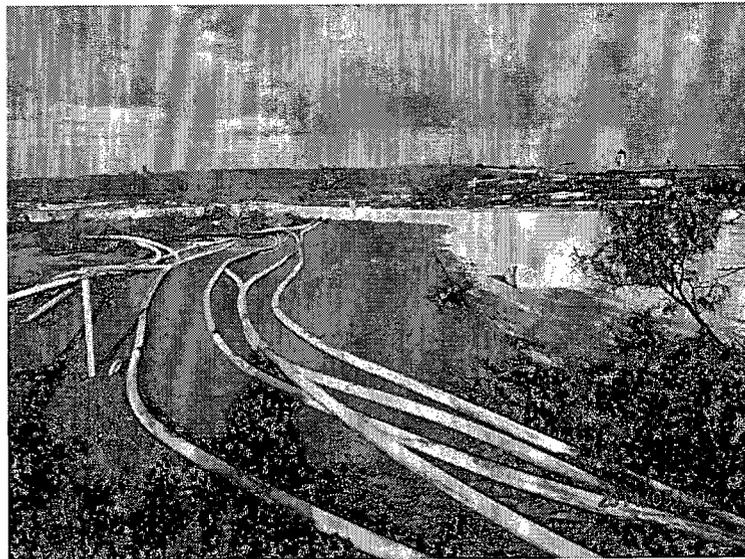
Seeding site, facing south

5/30/14



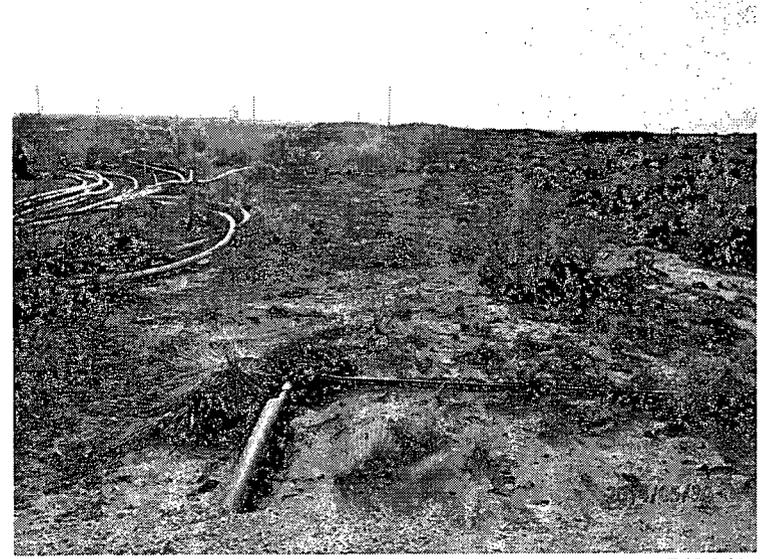
Raking the seed into the site, facing south

6/30/14



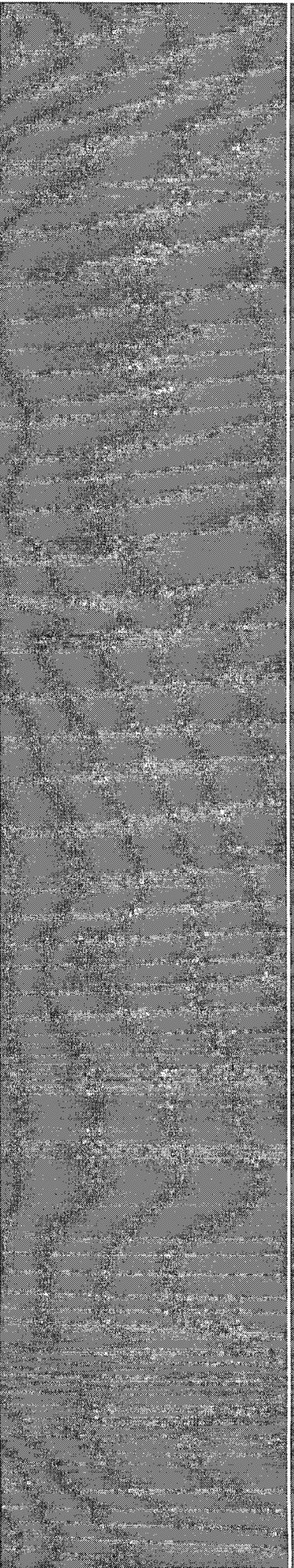
Site completed, facing east

5/30/14



Site completed, facing west

5/30/14



Appendix E

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	Contact	
Address	29 Vacuum Complex Lane	Telephone No.	
Facility Name	MCA 2F Header	Facility Type	Header
Surface Owner	BLM	Mineral Owner	BLM
		API No.	3002500718

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	27	17S	32E	1980	South	1980	East	Lea

Latitude 32.8037075642669 Longitude -103.752155401928

NATURE OF RELEASE

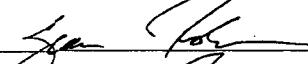
Type of Release	Spill	Volume of Release	11.7 BBLS	Volume Recovered	5 BBLS
Source of Release	2 inch steel flow line	Date and Hour of Occurrence	10/17/13 7:20 am	Date and Hour of Discovery	SAME
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Trisha Bad Bear/Geoffrey Leking		
By Whom?	David May	Date and Hour	10/18/13 2:50 pm		
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.* Release was caused by external corrosion. Abandoned line was connected to a 12" trunk line with a butterfly valve that was leaking. Line was disconnected from butterfly valve and was replaced with ball valve plug.

Describe Area Affected and Cleanup Action Taken.* The release affected a total of 3,485 square feet of lease pad and pasture land. RECS personnel were on site beginning on December 10th, 2013 to assess the release. The release was photographed and mapped. Beginning on April 7th, 2014, four points within the release area were sampled at the surface and with depth. The samples were field tested for chlorides and organic vapors, and representative samples were taken to a commercial laboratory for analysis. Based on the laboratory data, a Corrective Action Plan (CAP) was submitted to NMOCD and BLM on April 15th, 2014. BLM approved the CAP on April 16th, 2014 and NMOCD approved the CAP on April 22nd, 2014. BLM had one stipulation as part of their approval. They stated that Point 4 must be excavated to 1.5 ft and shown to be clean. Corrective actions began at the site on May 9th, 2014. The site was scraped down by hand and backhoe as stated in the approved CAP. A total of 285 cubic yards of contaminated soil was taken to a NMOCD approved facility for disposal. A final sample was taken at the base of each scrape, including Point 4 as requested by BLM, and sent to a commercial laboratory for analysis. All constituents from each sample point returned results below regulatory standards. A total of 205 cubic yards of base coarse caliche and 80 cubic yards of top soil were imported to the site to serve as backfill. A composite sample from the imported base coarse caliche and the imported top soil were taken to a commercial laboratory for analysis. The imported base coarse caliche returned a laboratory chloride reading of 112 mg/kg, and the imported top soil returned a laboratory chloride reading of non-detect. On May 22nd, 2014, RECS requested permission to backfill the site from NMOCD and BLM. BLM approved the site to be backfilled on May 23rd, 2014, and NMOCD approved the site to be backfilled on May 27th, 2014. The pasture area was backfilled with the imported top soil and the lease pad was backfilled with the imported base coarse caliche. Both areas were contoured to their surrounding locations. On May 30th, 2014, the scraped pasture area and the adjacent areas with little vegetation were 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:		OIL CONSERVATION DIVISION	
Printed Name:	SEAN T. ROBERSON	Approved by Environmental Specialist:	
Title:	OPERATIONS SUPERVISOR	Approval Date:	Expiration Date:
E-mail Address:	SEAN.T.ROBERSON@cp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date:	7/2/14	Phone:	575-390-8873

* Attach Additional Sheets If Necessary