



February 14, 2014

Mr. Mike Bratcher
NMOCD District 2
811 S. 1st Street
Artesia, NM 88210

AMARILLO
921 North Bivins
Amarillo, Texas 79107
Phone 806.467.0607
Fax 806.467.0622

ARTESIA
408 West Texas Ave.
Artesia, New Mexico 88210
Phone 575.746.8768
Fax 575.748.8905

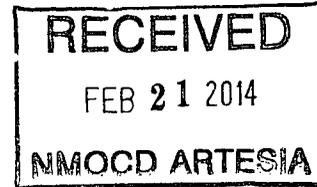
HOBBS
318 East Taylor Street
Hobbs, New Mexico 88241
Phone 505.393.4261
Fax 505.393.4658

MIDLAND
2901 State Highway 349
Midland, Texas 79706
Phone 432.522.2133
Fax 432.522.2180

OKLAHOMA CITY
7700 North Hudson Ave
Suite 10
Oklahoma City, Oklahoma 73116
Phone 405.486.7030
Fax 806.467.0622

SAN ANTONIO
13111 Lookout Way
San Antonio, TX 78233
Phone 210.265.8025
Fax 210.568.2191

Subject: **Soil Assessment and Remediation Work Plan**
Devon Energy
Cotton Draw Unit No. 114
API # 30-015-37410
2RP-962 & 2RP-2076



Dear Mr. Bratcher,

Devon Energy has contracted Talon/LPE (Talon) to perform soil assessment and remediation services for the Cotton Draw Unit No. 114 release. The results of our soil assessment and proposed remediation activities consist of the following:

Incident Date

November 11, 2011 & November 16, 2013

Background Information

The Cotton Draw Unit No. 114 is located approximately forty-eight (48) miles southeast of Carlsbad, New Mexico. The legal location for the site is Section 34, Township 24 South and Range 31 East in Eddy County, New Mexico. More specifically, the Latitude and Longitude for the release are 32.1801170 North and -103.763554 West.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Berino complex with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Quaternary in age and is comprised of eolian sands and piedmont deposits which include silty soils under lain with sandy clay loam and hard caliche. Drainage courses in this area are normally dry. According to the Texaco/Chevron Eddy County Water Trend Data Map (2005), the depth to groundwater is approximately 450-feet deep.

The ranking for this site is 0 based on the as following:

Depth to ground water	>100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Incident Description

A gasket ruptured on the fire tube of the heater treater causing a release of 60 barrels oil. Vacuum trucks were immediately called to the location to pick up the standing oil and they recovered 50 barrels of oil. The heater treater was repaired. The area effected from this release was under the separators, heater treaters and pipelines, as shown on the attached site plan.

Actions Taken

On January 27, 2014 Talon mobilized personnel to begin the site assessment and soil sampling for the construction of a work plan. Grab soil samples were collected utilizing a hand auger to a depth of 3-feet deep below ground surface around the separators and heater treaters. Soil sample locations are illustrated on the attached site plan.

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, and volatile organics (BTEX) using EPA Method 8021B. The chloride samples were analyzed per method SM4500Cl-B. The complete laboratory report is attached.

Analytical Results

Analytical results received from Cardinal Laboratories are summarized below:

January 21, 2014

<u>Sample</u>	<u>Depth</u>	<u>BTEX</u>	<u>TPH</u>	<u>Chlorides (mg/kg)</u>
BG	0'	<0.300	<10	<16
	1'	<0.300	<10	<16
S-1	0'	101	3607	368
	1'	<0.300	29.2	160
	2'	<0.300	36.2	160
	3'	<0.300	<10	544
S-2	0'	308	12250	688
	1'	<0.300	<10	112
	2'	<0.300	<10	48
	3'	<0.300	<10	32
S-3	0'	<0.300	35.8	3880
	1'	<0.300	<10	2160
	2'	<0.300	<10	688
	3'	<0.300	<10	176

For this site's ranking, New Mexico Oil Conservation District action level criterion for BTEX is 50 mg/kg, Benzene is 10 mg/kg and TPH is 5000 mg/kg.

Summary and Conclusions

- Ground water in the project vicinity is approximately 450-feet below land surface.
- Based on the depth to groundwater, it is unlikely that the impacts identified from this release will pose a threat to groundwater after proposed remediation activities are complete.

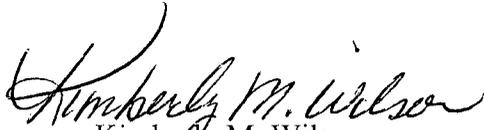
Proposed Remedial Actions

- The impacted gravel and caliche under the separators, heater treaters and the historical release will be treated with mircoblaze, a bioremediation agent.
- Confirmation samples will be collected after 90-days to verify effectiveness of treatment.
- A final closure report documenting all remedial actions and analytical results will be provided to the NMOCD Artesia Office and the BLM along with a Final C-141 Form.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575.746.8768.

Respectfully submitted,

TALON/LPE

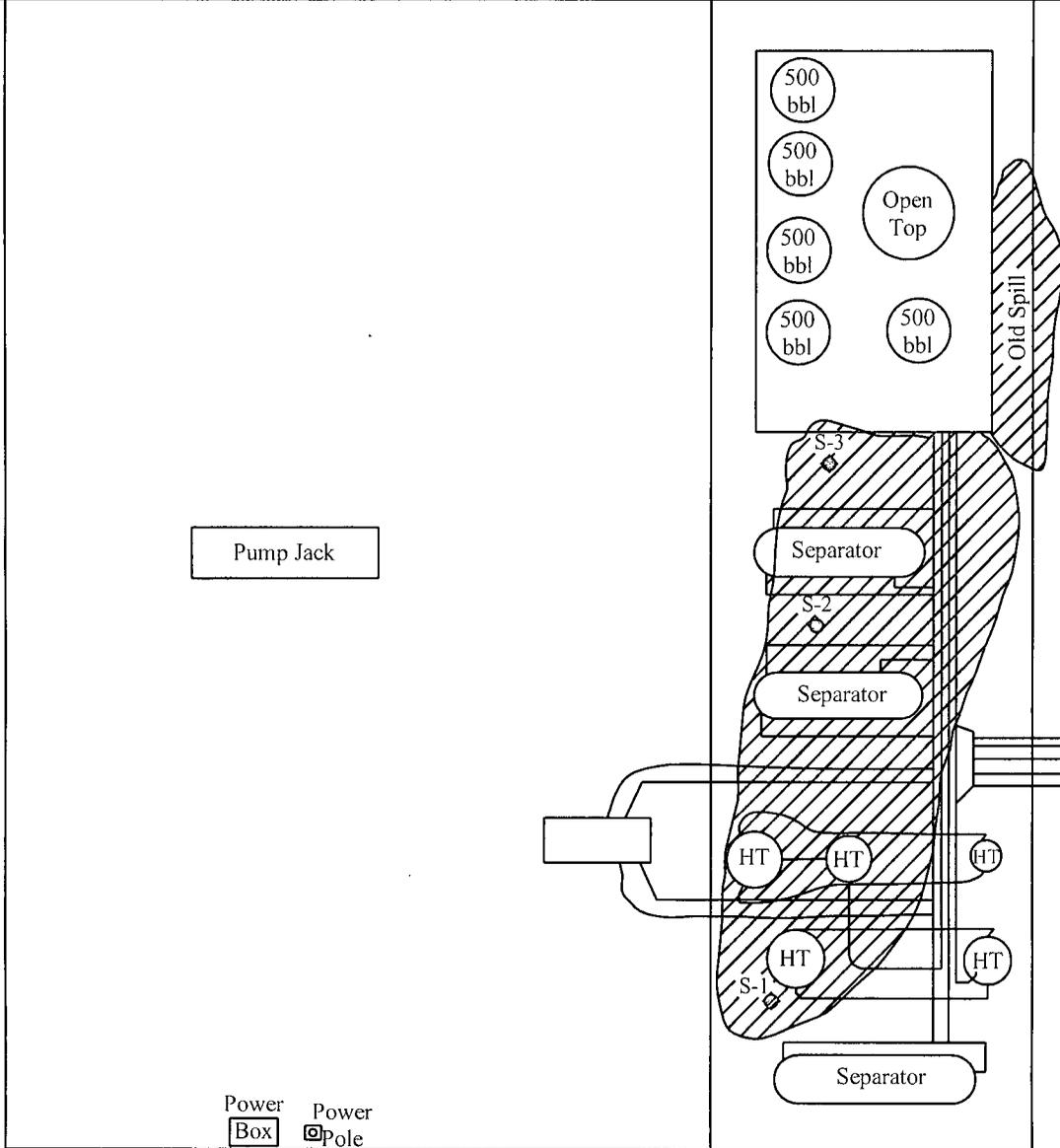

Kimberly M. Wilson
Project Manager



David J. Adkins
District Manager

SITE MAP

Lease Road



Power Box Power Pole

BG
◇



NTS
Scale in Feet

Legend

- ◇ - Sample Location
- ▨ - New Spill Area
- ▩ - Old Spill Area



Date: 02/04/2014
Scale: NTS
Drawn By: TJS

Cotton Draw 114
Devon Energy Corporation
Eddy County, New Mexico
Figure 1 - Site Plan

APPENDIX I
GROUNDWATER DATA
INITIAL C-141



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<u>C 02574</u>			ED	1	1	2	02	25S	31E	618092	3559494*	1994			
<u>C 02571</u>			ED	4	1	2	02	25S	31E	618292	3559294*	2275	860		
<u>C 02572</u>			ED	4	2	2	02	25S	31E	618695	3559294*	2546	852		
<u>C 02573</u>			ED	1	4	2	02	25S	31E	618499	3559091*	2563			
<u>C 02569</u>			ED	4	4	2	02	25S	31E	618699	3558891*	2845	1016		
<u>C 02568</u>			ED	4	3	1	01	25S	31E	619103	3558892*	3119	1025		
<u>C 02570</u>			ED	4	2	4	02	25S	31E	618704	3558489*	3166	895		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 616872

Northing (Y): 3561072

Radius: 5000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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 March 17, 1999

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

30-015-37410

Release Notification and Corrective Action

NMLB/132639798

OPERATOR

Initial Report Final Report

Name of Company Devon Energy <i>6137</i>	Contact <input type="checkbox"/> Roger Hernandez
Address P. O. Box 250 Artesia, NM 88211	Telephone No. <input type="checkbox"/> 575-748-5238
Facility Name Cotton Draw Unit #114	Facility Type <input type="checkbox"/> Oil Well

Surface Owner	Mineral Owner	Lease No. <input type="checkbox"/>
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LOCATION OF RELEASE

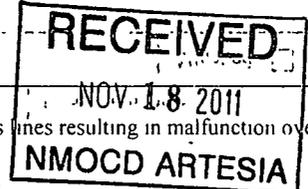
Unit Letter	Section 34	Township 24S	Range 31E	Feet from the 330	North/South Line North	Feet from the 1980	East/West Line East	County Eddy
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NATURE OF RELEASE

Type of Release Oil	Volume of Release 40 BO	Volume Recovered <input type="checkbox"/> 30 BO
Source of Release Separator	Date and Hour of Occurrence 11-11-11 9 00 AM	Date and Hour of Discovery <input type="checkbox"/> 11-11-11 9 00 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? BLM (Jim Amos - Carlsbad) OCD (Mike Bratcher - Artesia)	
By Whom? <input type="checkbox"/> Roger Hernandez	Date and Hour <input type="checkbox"/> BLM - 11/11/11 11 40 AM	OCD - 11/11/11 11 50 AM
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 *

N/A



Describe Cause of Problem and Remedial Action Taken *
Separator malfunctioned - mechanical device broke resulting in high level equipment sending fluid out gas control device Vented gas and liquid to open top tank resulting in spill Filled tanks with fluid/overspray

lines resulting in malfunction over gas outlet

Describe Area Affected and Cleanup Action Taken *
Area impacted was 40'x60', called vacuum truck to pickup fluid

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 *Adrienne Verkler*
Printed Name Adrienne Verkler
Title Field Tech-II
Date November 14, 2011 Phone (575) 748-0174

Approved by *[Signature]*
Approval Date **DEC 02 2011** Expiration Date
Conditions of Approval Attached

* Attach Additional Sheets If Necessary

Remediation per OCD Rules &
Guidelines. **SUBMIT REMEDIATION
PROPOSAL NOT LATER THAN:
11/2/2012**

2PP-962

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

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 accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

JMW 1333029835

OPERATOR Initial Report Final Report

Name of Company <i>Devon Energy Prod. Co 137</i>	Contact <i>Tracy Kidd</i>
Address <i>PO Box 250 Artesia, NM 88211</i>	Telephone No. <i>575.513.0628</i>
Facility Name <i>Cotton Draw Unit 114</i>	Facility Type <i>Oil Well</i>

Surface Owner <i>Federal</i>	Mineral Owner	API No. <i>3001537410</i>
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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
<i>B</i>	<i>34</i>	<i>24S</i>	<i>31E</i>	<i>330</i>	<i>North</i>	<i>1980</i>	<i>East</i>	<i>Eddy</i>

Latitude: 32.180117040773 Longitude: 103.763554613439

NATURE OF RELEASE

Type of Release <i>Spill Oil</i>	Volume of Release <i>60bbls</i>	Volume Recovered <i>50bbls</i>
Source of Release <i>mechanical failure blown gasket on a heater treater</i>	Date and Hour of Occurrence <i>11/16/2013</i>	Date and Hour of Discovery <i>11/16/2013, 9:49PM</i>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <i>Tracy Kidd- Production Foreman</i>	
By Whom? <i>Chris McCullough</i>	Date and Hour <i>11/16/2013</i>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <i>N/A</i>	
If a Watercourse was Impacted, Describe Fully.* <i>N/A</i>		
Describe Cause of Problem and Remedial Action Taken.* <i>Gasket rupture on fire tube in heater treater caused oil spray. RW Trucking recovered 50bbls of oil and soil samples will be taken. Gasket was replaced on heater treater.</i>		
Describe Area Affected and Cleanup Action Taken.* <i>Oil spill remained on location. RW Trucking recovered 50bbls and soil sampling will be done.</i>		

RECEIVED

NOV 20 2013
NMOCB

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>Sandra Farley</i>	OIL CONSERVATION DIVISION	
Printed Name: <i>Sandra Farley</i>	Approved by Environmental Specialist	Signed By <i>[Signature]</i>
Title: <i>Field Admin Support</i>	Approval Date: <i>NOV 26 2013</i>	Expiration Date:
E-mail Address: <i>Sandra.Farley@dvn.com</i>	Conditions of Approval: Remediation per OCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION PROPOSAL NO LATER THAN:	Attached <input type="checkbox"/>
Date: <i>11/19/2013</i> Phone: <i>575.746.5587</i>	<i>December 26, 2013</i>	

2RP-2076

* Attach Additional Sheets If Necessary

APPENDIX II
LABORATORY RESULTS



February 04, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: COTTON DRAW UNIT #114

Enclosed are the results of analyses for samples received by the laboratory on 01/29/14 10:11.

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:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	01/29/2014	Sampling Date:	01/27/2014
Reported:	02/04/2014	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT #114	Sampling Condition:	Cool & Intact
Project Number:	700794.092.01	Sample Received By:	Kathy Perez
Project Location:	B-34-24-31		

Sample ID: BG 0' (H400279-01)

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	01/31/2014	ND	2.28	114	2.00	1.96	
Toluene*	<0.050	0.050	01/31/2014	ND	2.24	112	2.00	1.60	
Ethylbenzene*	<0.050	0.050	01/31/2014	ND	2.22	111	2.00	1.54	
Total Xylenes*	<0.150	0.150	01/31/2014	ND	6.54	109	6.00	0.808	
Total BTEX	<0.300	0.300	01/31/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	02/03/2014	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	01/30/2014	ND	200	99.9	200	2.61	
DRO >C10-C28	<10.0	10.0	01/30/2014	ND	199	99.4	200	2.43	

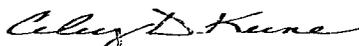
Surrogate: 1-Chlorooctane 85.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.6 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	01/29/2014	Sampling Date:	01/27/2014
Reported:	02/04/2014	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT #114	Sampling Condition:	Cool & Intact
Project Number:	700794.092.01	Sample Received By:	Kathy Perez
Project Location:	B-34-24-31		

Sample ID: BG 1' (H400279-02)

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	02/03/2014	ND	2.28	114	2.00	1.96		
Toluene*	<0.050	0.050	02/03/2014	ND	2.24	112	2.00	1.60		
Ethylbenzene*	<0.050	0.050	02/03/2014	ND	2.22	111	2.00	1.54		
Total Xylenes*	<0.150	0.150	02/03/2014	ND	6.54	109	6.00	0.808		
Total BTEX	<0.300	0.300	02/03/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	02/03/2014	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	01/30/2014	ND	200	99.9	200	2.61		
DRO >C10-C28	<10.0	10.0	01/30/2014	ND	199	99.4	200	2.43		

Surrogate: 1-Chlorooctane 91.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

Cardinal Laboratories

*==Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	01/29/2014	Sampling Date:	01/27/2014
Reported:	02/04/2014	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT #114	Sampling Condition:	Cool & Intact
Project Number:	700794.092.01	Sample Received By:	Kathy Perez
Project Location:	B-34-24-31		

Sample ID: S-1 0' (H400279-03)

BTEX 8021B		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	1.98	1.00	01/31/2014	ND	2.28	114	2.00	1.96		
Toluene*	26.9	1.00	01/31/2014	ND	2.24	112	2.00	1.60		
Ethylbenzene*	12.8	1.00	01/31/2014	ND	2.22	111	2.00	1.54		
Total Xylenes*	59.2	3.00	01/31/2014	ND	6.54	109	6.00	0.808		
Total BTEX	101	6.00	01/31/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 143 % 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	368	16.0	02/03/2014	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	907	10.0	01/30/2014	ND	200	99.9	200	2.61		
DRO >C10-C28	2700	10.0	01/30/2014	ND	199	99.4	200	2.43		

Surrogate: 1-Chlorooctane 133 % 65.2-140

Surrogate: 1-Chlorooctadecane 122 % 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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 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	01/29/2014	Sampling Date:	01/27/2014
Reported:	02/04/2014	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT #114	Sampling Condition:	Cool & Intact
Project Number:	700794.092.01	Sample Received By:	Kathy Perez
Project Location:	B-34-24-31		

Sample ID: S-1 1' (H400279-04)

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	01/31/2014	ND	2.28	114	2.00	1.96		
Toluene*	<0.050	0.050	01/31/2014	ND	2.24	112	2.00	1.60		
Ethylbenzene*	<0.050	0.050	01/31/2014	ND	2.22	111	2.00	1.54		
Total Xylenes*	<0.150	0.150	01/31/2014	ND	6.54	109	6.00	0.808		
Total BTEX	<0.300	0.300	01/31/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	160	16.0	02/03/2014	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	01/30/2014	ND	200	99.9	200	2.61		
DRO >C10-C28	29.2	10.0	01/30/2014	ND	199	99.4	200	2.43		

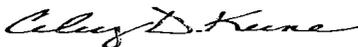
Surrogate: 1-Chlorooctane 87.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.8 % 63.6-154

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Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	01/29/2014	Sampling Date:	01/27/2014
Reported:	02/04/2014	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT #114	Sampling Condition:	Cool & Intact
Project Number:	700794.092.01	Sample Received By:	Kathy Perez
Project Location:	B-34-24-31		

Sample ID: S-1 2' (H400279-05)

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	01/31/2014	ND	2.28	114	2.00	1.96		
Toluene*	<0.050	0.050	01/31/2014	ND	2.24	112	2.00	1.60		
Ethylbenzene*	<0.050	0.050	01/31/2014	ND	2.22	111	2.00	1.54		
Total Xylenes*	<0.150	0.150	01/31/2014	ND	6.54	109	6.00	0.808		
Total BTEX	<0.300	0.300	01/31/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	02/03/2014	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	01/30/2014	ND	200	99.9	200	2.61		
DRO >C10-C28	36.2	10.0	01/30/2014	ND	199	99.4	200	2.43		

Surrogate: 1-Chlorooctane 87.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.7 % 63.6-154

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Received:	01/29/2014	Sampling Date:	01/27/2014
Reported:	02/04/2014	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT #114	Sampling Condition:	Cool & Intact
Project Number:	700794.092.01	Sample Received By:	Kathy Perez
Project Location:	B-34-24-31		

Sample ID: S-1 3' (H400279-06)

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	02/03/2014	ND	2.28	114	2.00	1.96		
Toluene*	<0.050	0.050	02/03/2014	ND	2.24	112	2.00	1.60		
Ethylbenzene*	<0.050	0.050	02/03/2014	ND	2.22	111	2.00	1.54		
Total Xylenes*	<0.150	0.150	02/03/2014	ND	6.54	109	6.00	0.808		
Total BTEX	<0.300	0.300	02/03/2014	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	544	16.0	02/03/2014	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	01/30/2014	ND	200	99.9	200	2.61		
DRO >C10-C28	<10.0	10.0	01/30/2014	ND	199	99.4	200	2.43		

Surrogate: 1-Chlorooctane 81.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.9 % 63.6-154

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Received:	01/29/2014	Sampling Date:	01/27/2014
Reported:	02/04/2014	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT #114	Sampling Condition:	Cool & Intact
Project Number:	700794.092.01	Sample Received By:	Kathy Perez
Project Location:	B-34-24-31		

Sample ID: S-2 0' (H400279-07)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	3.34	2.00	01/31/2014	ND	2.28	114	2.00	1.96		
Toluene*	67.3	2.00	01/31/2014	ND	2.24	112	2.00	1.60		
Ethylbenzene*	36.7	2.00	01/31/2014	ND	2.22	111	2.00	1.54		
Total Xylenes*	201	6.00	01/31/2014	ND	6.54	109	6.00	0.808		
Total BTEX	308	12.0	01/31/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 153 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	02/03/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	3510	10.0	01/30/2014	ND	200	99.9	200	2.61		
DRO >C10-C28	8740	10.0	01/30/2014	ND	199	99.4	200	2.43		

Surrogate: 1-Chlorooctane 163 % 65.2-140

Surrogate: 1-Chlorooctadecane 201 % 63.6-154

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Received:	01/29/2014	Sampling Date:	01/27/2014
Reported:	02/04/2014	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT #114	Sampling Condition:	Cool & Intact
Project Number:	700794.092.01	Sample Received By:	Kathy Perez
Project Location:	B-34-24-31		

Sample ID: S-2 1' (H400279-08)

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	01/31/2014	ND	2.28	114	2.00	1.96		
Toluene*	<0.050	0.050	01/31/2014	ND	2.24	112	2.00	1.60		
Ethylbenzene*	<0.050	0.050	01/31/2014	ND	2.22	111	2.00	1.54		
Total Xylenes*	<0.150	0.150	01/31/2014	ND	6.54	109	6.00	0.808		
Total BTEX	<0.300	0.300	01/31/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	112	16.0	02/03/2014	ND	416	104	400	0.00		

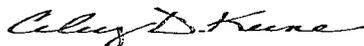
TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/30/2014	ND	218	109	200	10.7		
DRO >C10-C28	<10.0	10.0	01/30/2014	ND	225	112	200	14.2		

Surrogate: 1-Chlorooctane 80.6 % 65.2-140
Surrogate: 1-Chlorooctadecane 87.9 % 63.6-154

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Received:	01/29/2014	Sampling Date:	01/27/2014
Reported:	02/04/2014	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT #114	Sampling Condition:	Cool & Intact
Project Number:	700794.092.01	Sample Received By:	Kathy Perez
Project Location:	B-34-24-31		

Sample ID: S-2 2' (H400279-09)

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	01/31/2014	ND	2.28	114	2.00	1.96	
Toluene*	<0.050	0.050	01/31/2014	ND	2.24	112	2.00	1.60	
Ethylbenzene*	<0.050	0.050	01/31/2014	ND	2.22	111	2.00	1.54	
Total Xylenes*	<0.150	0.150	01/31/2014	ND	6.54	109	6.00	0.808	
Total BTEX	<0.300	0.300	01/31/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	48.0	16.0	02/03/2014	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	01/30/2014	ND	218	109	200	10.7	
DRO >C10-C28	<10.0	10.0	01/30/2014	ND	225	112	200	14.2	

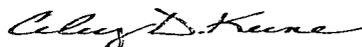
Surrogate: 1-Chlorooctane 79.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.4 % 63.6-154

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 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	01/29/2014	Sampling Date:	01/27/2014
Reported:	02/04/2014	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT #114	Sampling Condition:	Cool & Intact
Project Number:	700794.092.01	Sample Received By:	Kathy Perez
Project Location:	B-34-24-31		

Sample ID: S-2 3' (H400279-10)

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	01/31/2014	ND	2.28	114	2.00	1.96		
Toluene*	<0.050	0.050	01/31/2014	ND	2.24	112	2.00	1.60		
Ethylbenzene*	<0.050	0.050	01/31/2014	ND	2.22	111	2.00	1.54		
Total Xylenes*	<0.150	0.150	01/31/2014	ND	6.54	109	6.00	0.808		
Total BTEX	<0.300	0.300	01/31/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	32.0	16.0	02/03/2014	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	01/30/2014	ND	218	109	200	10.7		
DRO >C10-C28	<10.0	10.0	01/30/2014	ND	225	112	200	14.2		

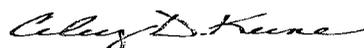
Surrogate: 1-Chlorooctane 90.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.8 % 63.6-154

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 Fax To: (575) 745-8905

Received:	01/29/2014	Sampling Date:	01/27/2014
Reported:	02/04/2014	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT #114	Sampling Condition:	Cool & Intact
Project Number:	700794.092.01	Sample Received By:	Kathy Perez
Project Location:	B-34-24-31		

Sample ID: S-3 0' (H400279-11)

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	01/31/2014	ND	2.28	114	2.00	1.96		
Toluene*	<0.050	0.050	01/31/2014	ND	2.24	112	2.00	1.60		
Ethylbenzene*	<0.050	0.050	01/31/2014	ND	2.22	111	2.00	1.54		
Total Xylenes*	<0.150	0.150	01/31/2014	ND	6.54	109	6.00	0.808		
Total BTEX	<0.300	0.300	01/31/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	3880	16.0	02/03/2014	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	01/30/2014	ND	218	109	200	10.7		
DRO >C10-C28	35.8	10.0	01/30/2014	ND	225	112	200	14.2		

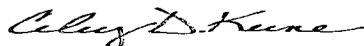
Surrogate: 1-Chlorooctane 78.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.5 % 63.6-154

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 Fax To: (575) 745-8905

Received:	01/29/2014	Sampling Date:	01/27/2014
Reported:	02/04/2014	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT #114	Sampling Condition:	Cool & Intact
Project Number:	700794.092.01	Sample Received By:	Kathy Perez
Project Location:	B-34-24-31		

Sample ID: S-3 1' (H400279-12)

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	01/31/2014	ND	2.28	114	2.00	1.96		
Toluene*	<0.050	0.050	01/31/2014	ND	2.24	112	2.00	1.60		
Ethylbenzene*	<0.050	0.050	01/31/2014	ND	2.22	111	2.00	1.54		
Total Xylenes*	<0.150	0.150	01/31/2014	ND	6.54	109	6.00	0.808		
Total BTEX	<0.300	0.300	01/31/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	2160	16.0	02/03/2014	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	01/31/2014	ND	218	109	200	10.7		
DRO >C10-C28	<10.0	10.0	01/31/2014	ND	225	112	200	14.2		

Surrogate: 1-Chlorooctane 81.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.8 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	01/29/2014	Sampling Date:	01/27/2014
Reported:	02/04/2014	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT #114	Sampling Condition:	Cool & Intact
Project Number:	700794.092.01	Sample Received By:	Kathy Perez
Project Location:	B-34-24-31		

Sample ID: S-3 2' (H400279-13)

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	01/31/2014	ND	2.28	114	2.00	1.96	
Toluene*	<0.050	0.050	01/31/2014	ND	2.24	112	2.00	1.60	
Ethylbenzene*	<0.050	0.050	01/31/2014	ND	2.22	111	2.00	1.54	
Total Xylenes*	<0.150	0.150	01/31/2014	ND	6.54	109	6.00	0.808	
Total BTEX	<0.300	0.300	01/31/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	688	16.0	02/03/2014	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	01/31/2014	ND	218	109	200	10.7	
DRO >C10-C28	<10.0	10.0	01/31/2014	ND	225	112	200	14.2	

Surrogate: 1-Chlorooctane 85.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.9 % 63.6-154

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Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	01/29/2014	Sampling Date:	01/27/2014
Reported:	02/04/2014	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT #114	Sampling Condition:	Cool & Intact
Project Number:	700794.092.01	Sample Received By:	Kathy Perez
Project Location:	B-34-24-31		

Sample ID: S-3 3' (H400279-14)

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	01/31/2014	ND	2.28	114	2.00	1.96		
Toluene*	<0.050	0.050	01/31/2014	ND	2.24	112	2.00	1.60		
Ethylbenzene*	<0.050	0.050	01/31/2014	ND	2.22	111	2.00	1.54		
Total Xylenes*	<0.150	0.150	01/31/2014	ND	6.54	109	6.00	0.808		
Total BTEX	<0.300	0.300	01/31/2014	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	176	16.0	02/03/2014	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	01/31/2014	ND	218	109	200	10.7		
DRO >C10-C28	<10.0	10.0	01/31/2014	ND	225	112	200	14.2		

Surrogate: 1-Chlorooctane 82.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.6 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

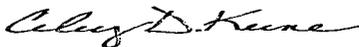
Notes and Definitions

- 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: <i>Zalon/LPE</i>		BILL TO		ANALYSIS REQUEST												
Project Manager: <i>Kimberly M. Wilson</i>		P.O. #:		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> </div>												
Address: <i>408 W. Texas</i>		Company: <i>Zalon</i>														
City: <i>Artesia</i> State: <i>NM</i> Zip: <i>88210</i>		Attn:														
Phone #: <i>575-746-8768</i> Fax #: <i>575-746-8905</i>		Address:														
Project #: <i>700794.092.07</i> Project Owner: <i>Devlon</i>		City:														
Project Name: <i>Cotton Sewer Unit #114</i>		State: Zip:														
Project Location: <i>B-34-24-31</i>		Phone #:														
Sampler Name: <i>Robbie DeRosier</i>		Fax #:														
FOR LAB USE ONLY																
Lab I.D.	Sample I.D.	(C)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.			SAMPLING						
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL:	OTHER:	DATE	TIME		
<i>H40279</i>						/							<i>1.27.14</i>	<i>2:29</i>	/	/
<i>12</i>	<i>S-3 1'</i>	<i>9</i>	<i>9</i>			/							<i>1.27.14</i>	<i>2:29</i>	/	/
<i>13</i>	<i>S-3 2'</i>	<i>9</i>	<i>9</i>			/							<i>1.27.14</i>	<i>2:30</i>	/	/
<i>14</i>	<i>S-3 3'</i>	<i>9</i>	<i>9</i>			/							<i>1.27.14</i>	<i>2:32</i>	/	/

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Relinquished By: <i>Robbie DeRosier</i>	Date: <i>1/29/14</i>	Received By: <i>Fathy Herzog</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: <i>10:11</i>		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(Initials)		

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