



**NM OIL CONSERVATION**  
ARTESIA DISTRICT

**JUN 27 2014**

June 2, 2014

**RECEIVED**

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

Mr. Mike Bratcher  
**NMOCD District 2**  
811 S. 1<sup>st</sup> Street  
Artesia, NM 88210

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

Subject: **Soil Assessment and Remediation Work Plan**  
Devon Energy  
Cotton Draw Unit No. 65 SWD  
API #: 30-015-10843 2RP-2300

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

Dear Mr. Bratcher:

Devon Energy has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

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

**Incident Date**

February 11, 2014

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

**Background Information**

The Cotton Draw Unit No. 65 SWD is located approximately fifty-four (54) miles southeast of Carlsbad in Eddy County, New Mexico. The legal location for this site is Section 2, Township 25 South, and Range 31 East. More specifically the latitude and longitude for the release point are 32.16116 North and -103.74568 West. A site plan is presented in Appendix I.

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

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, 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 underlain with sandy clay loam and hard caliche. Drainage courses in this area are normally dry. According to the New Mexico Office of the State Engineer there are 5 wells in the vicinity and appears to be dry wells. See Appendix II for the referenced groundwater data.

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

ENVIRONMENTAL CONSULTING  
ENGINEERING  
DRILLING  
CONSTRUCTION  
SPILL MANAGEMENT  
GENERAL CONTRACTING

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

## Incident Description

At the Cotton Draw Unit No. 65 SWD, the check valve on the produced water header malfunctioned causing a release of 255 barrels of produced water. A vac truck was immediately called to the location and it recovered 250 barrels of fluid. The wells were shut-in and the valve was repaired. The fluids were contained within the earthen berms surrounding the location. The area was scraped and back dragged. On May 12, 2014, Talon mobilized personnel to conduct soil sampling activities. The results of these sampling activities are summarized in the table below.

## Laboratory Results

See Appendix III for complete report of laboratory results.

May 19, 2014

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'	<0.300	7200	14.9	121
	1'	<0.300	10400	<10	<10
S-2	0'	0.658	32800	<10	93
	1'	<0.300	1540	<10	<10
	2'	--	3160	--	--
	3'	--	5040	--	--
S-3	0'	<0.300	15000	<10	<10
	1'	<0.300	176	<10	<10
	2'	--	64	--	--
	3'	--	208	--	--
	4'	--	576	--	--
S-4	0'	<0.300	24800	<10	<10
	1'	<0.300	2280	<10	<10
	2'	--	64	--	--
	3'	--	48	--	--
	4'	--	64	--	--

--Analyte Not Tested

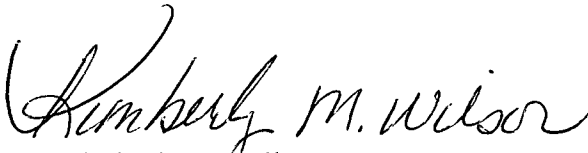
Based upon the site ranking of 0, NMOCD Recommended Remedial Action Levels (RRAL's) are 50 mg/kg for BTEX, 10 mg for Benzene, and 5,000 mg/kg for TPH. The chloride remediation standard to be 1,000 mg/kg based upon a water table depth greater than 100-feet deep.

## Proposed Remedial Actions

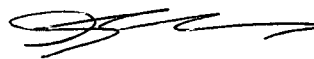
- At the beginning of the project, a test pit will be excavated at sample location S-2 for further vertical delineation purposes in this area. The samples will be field tested for chlorides and followed up with laboratory confirmation analysis. The test pit will be backfilled until lab results are obtained.
- Upon receipt of the lab analysis for the additional samples at S-2, the results will be immediately forwarded to the NMOCD. Should the analytical results indicate the contamination extends to 4-feet deep or less, this area will be excavated and confirmed with lab analysis on the sidewalls. If the contamination in the vicinity of S-2 extends deeper than 4-feet, upon NMOCD approval a liner will be installed.
- Remediation activities will begin at sample locations S-3 and S-4 following the test pit at S-2. The impacted area in this vicinity of S-3 will be scraped and at S-4 it will be excavated to a depth of 1.5-feet. Soil samples will be collected and tested using the field titration method for chlorides for horizontal delineation purposes.
- The impacted area in the vicinity of S-1 will need to be hand excavated due to the headers, flow lines and chemical tanks. The impacted area will be excavated to a depth of 1.5-feet deep. Soil samples will be collected and tested using the field titration method for chlorides for horizontal and vertical delineation purposes.
- All contaminated soil will be transported to an approved NMOCD disposal facility.
- The excavated areas will be backfilled with caliche and the location will be re-contoured.
- A final report documenting all field activities and lab reports will be provided to the BLM Carlsbad Office and NMOCD District II Office.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

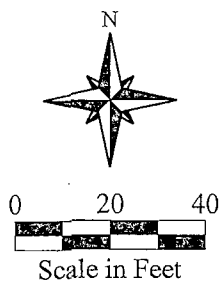
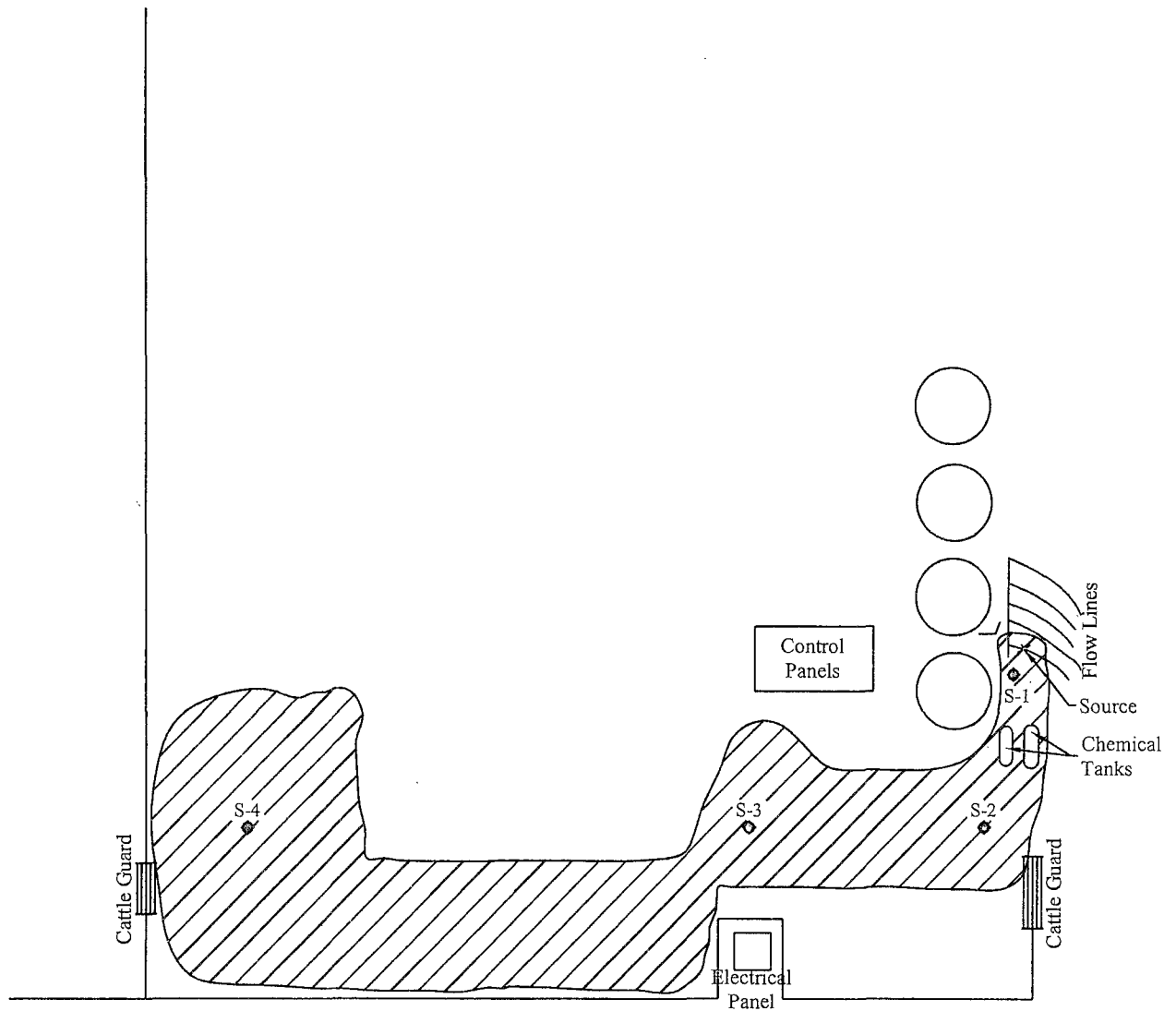
Respectfully submitted,



Kimberly M. Wilson  
Project Manager



David J. Adkins  
District Manager



Legend	
	- Sample Location
	- Impacted Area



Date: 05/27/2014

Scale: 1" = 40'

Drawn By: TJS

Cotton Draw 65 SWD  
Devon Energy Corporation  
Eddy County, New Mexico  
Figure 1 - Site Plan

**APPENDIX II**  
**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	Q	Q	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water Column
C 02572			ED	4	2	2	02	25S	31E	618695	3559294*	200	852	
C 02571			ED	4	1	2	02	25S	31E	618292	3559294*	203	860	
C 02573			ED	1	4	2	02	25S	31E	618499	3559091*	203		
C 02574			ED	1	1	2	02	25S	31E	618092	3559494*	449		
C 02569			ED	4	4	2	02	25S	31E	618699	3558891*	451	1016	
C 02568			ED	4	3	1	01	25S	31E	619103	3558892*	728	1025	
C 02570			ED	4	2	4	02	25S	31E	618704	3558489*	831	895	

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 618495

Northing (Y): 3559294

Radius: 2000

\*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  
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

RECEIVED  
MAY 08 2014  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505  
NMOCD ARTESIA

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

n HMP1413429654

<b>OPERATOR</b> <input checked="" type="checkbox"/> Initial Report <input type="checkbox"/> Final Report	
Name of Company <b>Devon Energy</b> <b>6137</b>	Contact <b>Tracy Kidd</b>
Address <b>PO Box 250 Artesia, NM 88211</b>	Telephone No. <b>575. 513.0628</b>
Facility Name <b>Cotton Draw Unit 65 SWD</b>	Facility Type <b>Salt Water Disposal</b>
Surface Owner <b>Federal</b>	Mineral Owner <b>State</b> API No. <b>30-015-10843</b>

### LOCATION OF RELEASE


Unit Letter <b>G</b>	Section <b>2</b>	Township <b>25S</b>	Range <b>31E</b>	Feet from the <b>1980</b>	North/South Line <b>N</b>	Feet from the <b>1980</b>	East/West Line <b>E</b>	County <b>Eddy</b>
-------------------------	---------------------	------------------------	---------------------	------------------------------	------------------------------	------------------------------	----------------------------	-----------------------

Latitude: 32.161085918

Longitude: -103.746039442

### NATURE OF RELEASE

Type of Release Spill <b>Produced Water</b>	Volume of Release <b>255BBLs</b>	Volume Recovered <b>250 BBLs</b>
Source of Release <b>Produced water line</b>	Date and Hour of Occurrence <b>May 5, 2014 7:00AM</b>	Date and Hour of Discovery <b>May 5, 2014 7:00AM</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Joah Weidemann; Devon Energy Assistant Production Foreman</b>	
By Whom? <b>David Medlock with RW Trucking</b>	Date and Hour <b>7:00 AM</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>N/A</b>	
If a Watercourse was Impacted, Describe Fully.* <b>N/A</b>		
Describe Cause of Problem and Remedial Action Taken.* <b>The leak was in the produced water line coming from the Cotton Draw Unit 76 location to the Cotton Draw Unit 65 SWD. The check valve on the produced water header was bad. The line was isolated to determine the exact cause of the problem and the well was shut in. Once it was determined what the issue was the leaking area was dug up and repairs were made. The line had a hole in it as a result of corrosion.</b>		
Describe Area Affected and Cleanup Action Taken.* <b>The produced water leak was contained within the earthen berm surrounding the location. On May 5 a vacuum truck recovered 250 BBLs of the 255 BBLs spilled. The area where the spill occurred was back dragged. Soil samples will be taken to determine if remediation is needed.</b>		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		

Signature: <b>Sandra Farley</b>		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Sandra Farley</b>		Approved by Environmental Specialist: 	
Title: <b>Field Admin Support</b>		Approval Date: <b>5/14/14</b>	Expiration Date: <b>NA</b>
E-mail Address: <b>Sandy.Farley@dv.com</b>		Conditions of Approval: Remediation per OCD Rule & Guidelines, & like approval by BLM. <b>SUBMIT REMEDIATION</b>	
Date: <b>May 6, 2014</b> Phone: <b>575.746.5587</b>		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary

**PROPOSAL NO LATER THAN:**

**6/14/14**

**2PP-2300**

**APPENDIX III**  
**LABORATORY RESULTS**





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

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May 19, 2014

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: COTTON DRAW #65 SWD

Enclosed are the results of analyses for samples received by the laboratory on 05/12/14 16:55.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 05/12/2014  
Reported: 05/19/2014  
Project Name: COTTON DRAW #65 SWD  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 05/12/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-1 0' (H401442-01)**

BTEX 8260B		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	05/16/2014	ND	2.28	114	2.00	0.684	
Toluene*	<0.050	0.050	05/16/2014	ND	2.23	112	2.00	3.55	
Ethylbenzene*	<0.050	0.050	05/16/2014	ND	2.07	104	2.00	3.35	
Total Xylenes*	<0.150	0.150	05/16/2014	ND	6.30	105	6.00	2.33	
Total BTEX	<0.300	0.300	05/16/2014	ND					

Surrogate: Dibromofluoromethane 97.8 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 161 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7200	16.0	05/15/2014	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	14.9	10.0	05/16/2014	ND	203	101	200	4.36	
DRO >C10-C28	121	10.0	05/16/2014	ND	230	115	200	6.27	


Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 05/12/2014  
 Reported: 05/19/2014  
 Project Name: COTTON DRAW #65 SWD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 05/12/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-1 1' (H401442-02)**

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2014	ND	2.28	114	2.00	0.684	
Toluene*	<0.050	0.050	05/16/2014	ND	2.23	112	2.00	3.55	
Ethylbenzene*	<0.050	0.050	05/16/2014	ND	2.07	104	2.00	3.35	
Total Xylenes*	<0.150	0.150	05/16/2014	ND	6.30	105	6.00	2.33	
Total BTEX	<0.300	0.300	05/16/2014	ND					

Surrogate: Dibromofluoromethane 99.5 % 61.3-142

Surrogate: Toluene-d8 100 % 71.3-129

Surrogate: 4-Bromofluorobenzene 107 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	05/15/2014	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	05/16/2014	ND	203	101	200	4.36	
DRO >C10-C28	<10.0	10.0	05/16/2014	ND	230	115	200	6.27	

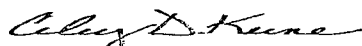
Surrogate: 1-Chlorooctane 110 % 65.2-140

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:**

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

Received: 05/12/2014  
Reported: 05/19/2014  
Project Name: COTTON DRAW #65 SWD  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 05/12/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-2 0' (H401442-03)**

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2014	ND	2.28	114	2.00	0.684	
Toluene*	<b>0.168</b>	0.050	05/16/2014	ND	2.23	112	2.00	3.55	
Ethylbenzene*	<b>0.086</b>	0.050	05/16/2014	ND	2.07	104	2.00	3.35	
Total Xylenes*	<b>0.404</b>	0.150	05/16/2014	ND	6.30	105	6.00	2.33	
Total BTEX	<b>0.658</b>	0.300	05/16/2014	ND					

Surrogate: Dibromofluoromethane 95.2 % 61.3-142  
Surrogate: Toluene-d8 98.2 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 118 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>32800</b>	16.0	05/15/2014	ND	416	104	400	0.00	

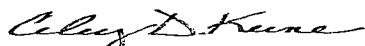
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/16/2014	ND	203	101	200	4.36	
DRO >C10-C28	<b>93.0</b>	10.0	05/16/2014	ND	230	115	200	6.27	

Surrogate: 1-Chlorooctane 112 % 65.2-140  
Surrogate: 1-Chlorooctadecane 117 % 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:**

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

Received: 05/12/2014  
Reported: 05/19/2014  
Project Name: COTTON DRAW #65 SWD  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 05/12/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-2 1' (H401442-04)**

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2014	ND	2.28	114	2.00	0.684	
Toluene*	<0.050	0.050	05/16/2014	ND	2.23	112	2.00	3.55	
Ethylbenzene*	<0.050	0.050	05/16/2014	ND	2.07	104	2.00	3.35	
Total Xylenes*	<0.150	0.150	05/16/2014	ND	6.30	105	6.00	2.33	
Total BTEX	<0.300	0.300	05/16/2014	ND					

Surrogate: Dibromofluoromethane 96.8 % 61.3-142  
Surrogate: Toluene-d8 99.1 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	05/15/2014	ND	416	104	400	0.00	

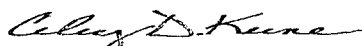
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/16/2014	ND	203	101	200	4.36	
DRO >C10-C28	<10.0	10.0	05/16/2014	ND	230	115	200	6.27	

Surrogate: 1-Chlorooctane 107 % 65.2-140  
Surrogate: 1-Chlorooctadecane 108 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 05/12/2014  
Reported: 05/19/2014  
Project Name: COTTON DRAW #65 SWD  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 05/12/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-2 2' (H401442-05)**

Chloride, SM4500Cl-B			mg/kg Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	05/15/2014	ND	416	104	400	0.00	

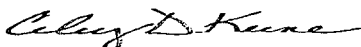
**Sample ID: S-2 3' (H401442-06)**

Chloride, SM4500Cl-B			mg/kg Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	05/15/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 05/12/2014  
Reported: 05/19/2014  
Project Name: COTTON DRAW #65 SWD  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 05/12/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-3 0' (H401442-07)**

BTEX 8260B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2014	ND	2.28	114	2.00	0.684	
Toluene*	<0.050	0.050	05/16/2014	ND	2.23	112	2.00	3.55	
Ethylbenzene*	<0.050	0.050	05/16/2014	ND	2.07	104	2.00	3.35	
Total Xylenes*	<0.150	0.150	05/16/2014	ND	6.30	105	6.00	2.33	
Total BTEX	<0.300	0.300	05/16/2014	ND					

Surrogate: Dibromofluoromethane 94.8 % 61.3-142

Surrogate: Toluene-d8 98.0 % 71.3-129

Surrogate: 4-Bromofluorobenzene 110 % 65.7-141

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15000	16.0	05/15/2014	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	05/16/2014	ND	203	101	200	4.36	
DRO >C10-C28	<10.0	10.0	05/16/2014	ND	230	115	200	6.27	

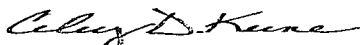
Surrogate: 1-Chlorooctane 107 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 05/12/2014  
Reported: 05/19/2014  
Project Name: COTTON DRAW #65 SWD  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 05/12/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-3 1' (H401442-08)**

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2014	ND	2.28	114	2.00	0.684	
Toluene*	<0.050	0.050	05/16/2014	ND	2.23	112	2.00	3.55	
Ethylbenzene*	<0.050	0.050	05/16/2014	ND	2.07	104	2.00	3.35	
Total Xylenes*	<0.150	0.150	05/16/2014	ND	6.30	105	6.00	2.33	
Total BTEX	<0.300	0.300	05/16/2014	ND					

Surrogate: Dibromofluoromethane 96.2 % 61.3-142  
Surrogate: Toluene-d8 100 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/15/2014	ND	416	104	400	0.00	

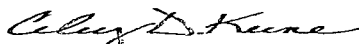
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/16/2014	ND	203	101	200	4.36	
DRO >C10-C28	<10.0	10.0	05/16/2014	ND	230	115	200	6.27	

Surrogate: 1-Chlorooctane 95.1 % 65.2-140  
Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

 Received: 05/12/2014  
 Reported: 05/19/2014  
 Project Name: COTTON DRAW #65 SWD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 05/12/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-3 2' (H401442-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/15/2014	ND	416	104	400	0.00	

**Sample ID: S-3 3' (H401442-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/15/2014	ND	416	104	400	0.00	

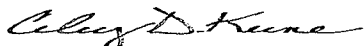
**Sample ID: S-3 4' (H401442-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	05/15/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	05/12/2014	Sampling Date:	05/12/2014
Reported:	05/19/2014	Sampling Type:	Soil
Project Name:	COTTON DRAW #65 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-4 0' (H401442-12)**

BTEX 8260B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2014	ND	2.28	114	2.00	0.684	
Toluene*	<0.050	0.050	05/16/2014	ND	2.23	112	2.00	3.55	
Ethylbenzene*	<0.050	0.050	05/16/2014	ND	2.07	104	2.00	3.35	
Total Xylenes*	<0.150	0.150	05/16/2014	ND	6.30	105	6.00	2.33	
Total BTEX	<0.300	0.300	05/16/2014	ND					

Surrogate: Dibromofluoromethane 96.6 % 61.3-142

Surrogate: Toluene-d8 98.5 % 71.3-129

Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24800	16.0	05/15/2014	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	05/16/2014	ND	203	101	200	4.36	
DRO >C10-C28	<10.0	10.0	05/16/2014	ND	230	115	200	6.27	

Surrogate: 1-Chlorooctane 117 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 05/12/2014  
 Reported: 05/19/2014  
 Project Name: COTTON DRAW #65 SWD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 05/12/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-4 1' (H401442-13)**

BTX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2014	ND	2.28	114	2.00	0.684	
Toluene*	<0.050	0.050	05/16/2014	ND	2.23	112	2.00	3.55	
Ethylbenzene*	<0.050	0.050	05/16/2014	ND	2.07	104	2.00	3.35	
Total Xylenes*	<0.150	0.150	05/16/2014	ND	6.30	105	6.00	2.33	
Total BTX	<0.300	0.300	05/16/2014	ND					

Surrogate: Dibromofluoromethane 104 % 61.3-142

Surrogate: Toluene-d8 98.6 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	05/15/2014	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	05/16/2014	ND	203	101	200	4.36	
DRO >C10-C28	<10.0	10.0	05/16/2014	ND	230	115	200	6.27	


Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 05/12/2014  
Reported: 05/19/2014  
Project Name: COTTON DRAW #65 SWD  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 05/12/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-4 2' (H401442-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/15/2014	ND	416	104	400	0.00	

**Sample ID: S-4 3' (H401442-15)**

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	05/15/2014	ND	416	104	400	0.00	

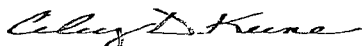
**Sample ID: S-4 4' (H401442-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/15/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

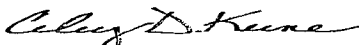
- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND             Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*              Samples not received at proper temperature 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



PG 1 of 2

Page 14 of 15

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

Company Name: Talon/LPE		BILL TO		ANALYSIS REQUEST																							
Project Manager: K. Wilson		P.O. #:																									
Address: 408 W. Texas Ave.		Company: Talon/LPE																									
City: Artesia State: NM Zip: 88210		Attn:																									
Phone #: 575-746-8768 Fax #: 575-746-8905		Address:																									
Project #: Project Owner: Devon		City:																									
Project Name: Cotton Draw 65 SWD		State: Zip:																									
Project Location:		Phone #:																									
Sampler Name: S. Hitchcock		Fax #:																									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV		SAMPLING																
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	TPH	BTEX	Chlorides										
H401442																											
1	S-1 0'	G	1	/						/			5/12/14	9:58	/	/	/										
2	S-1 1'	G	1	/						/				10:08	/	/	/										
3	S-2 0'	G	1	/						/				10:09	/	/	/										
4	S-2 1'	G	1	/						/				10:09	/	/	/										
5	S-2 2'	G	1	/						/				10:12	/	/	/										
6	S-2 3'	G	1	/						/				10:15	/	/	/										
7	S-3 0'	G	1	/						/				10:26	/	/	/										
8	S-3 1'	G	1	/						/				10:28	/	/	/										
9	S-3 2'	G	1	/						/				10:30	/	/	/										
10	S-3 3'	G	1	/						/				10:33	/	/	/										

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Relinquished By:	Date: 5/12/14	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Sheldon Hirschman	Time: 4:55	Jodi Benson	Fax Result: <input type="checkbox"/> Yes <input 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:	5.00	Initials		
	Cool <input type="checkbox"/> Intact <input type="checkbox"/>			
	Yes <input type="checkbox"/> No <input type="checkbox"/>			

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

H.54

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE		BILL TO		ANALYSIS REQUEST																			
Project Manager: K. Wilson		P.O. #:																					
Address: 408 W. Texas Ave.		Company: Talon/LPE																					
City: Artesia State: NM Zip: 88210		Attn:																					
Phone #: 575-746-8768 Fax #: 575-746-8905		Address:																					
Project #: Project Owner: Devon		City:																					
Project Name: Cotton Draw G5 SWD		State: Zip:																					
Project Location:		Phone #:																					
Sampler Name: S. Hitchcock		Fax #:																					
Lab I.D.	Sample I.D.	FOR LAB USE ONLY	MATRIX	PRESERV.	SAMPLING																		
		(GIRAB OR C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	TPH	BTEX	Chlorides						
H4D1442																							
11	S-3 4'	G	1			/				/			5/12/14	10:37	/	/	/						
12	S-4 0'	G	1			/				/				10:41	/	/	/						
13	S-4 1'	G	1			/				/				10:45	/	/	/						
14	S-4 2'	G	1			/				/				10:47	/	/	/						
15	S-4 3'	G	1			/				/				10:50	/	/	/						
16	S-4 4'	G	1			/				/				10:55	/	/	/						

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 5/12/14	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<i>Sheldon Henderson</i>	Time: 14:55	<i>Wendi Benson</i>	Fax Result: <input type="checkbox"/> Yes <input 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 <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	<i>[Signature]</i>		
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			