

**Devon Energy Production Co LP
Cotton Draw 10 Fed 3H
Delineation Report and Work Plan**

**Unit Letter A, Section 10, T25S, R31E
Eddy County, New Mexico
2RP-2983**

August 25, 2015



Prepared for:

**Devon Energy Production Co., LP
PO Box 250
Artesia, New Mexico 88211**

By:

**Safety & Environmental Solutions, Inc.
703 East Clinton Street
Hobbs, New Mexico 88240
(575) 397-0510**

TABLE OF CONTENTS

I. COMPANY CONTACTS.....	1
II. BACKGROUND.....	1
III. SURFACE AND GROUND WATER.....	1
IV. CHARACTERIZATION.....	1
V. WORK PERFORMED.....	2
VI. ACTION PLAN.....	3
VII. FIGURES & APPENDICES	4
Figure 1 – Vicinity Map.....	5
Figure 2 – Site Plan	7
Appendix A – C-141	9
Appendix B – Site Photographs.....	11
Appendix C – Analytical Results.....	12
Appendix D – Groundwater	13

I. Company Contacts

Representative	Company	Telephone	E-mail
Brett Fulks	Devon Energy Prod.	575-748-1844	Brett.Fulks@dvn.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Alfredo's Trucking to perform site delineation on the Cotton Draw 10 Fed 3H, concerning a produced water spill of an unknown amount. The impacted area was primarily contained on the pad area just north of the well heads and encompassed an area measuring 75'x175'. This site is situated in Eddy County, Section 10, Township 25S, and Range 31E.

According to the C-141: the cause of impact occurred at some point in time during the drilling period of this well and was discovered during the remediation efforts of an acid spill that occurred 09/10/2014 for which was reported and closed on **2RP-2626**. The C-141 for the produced water spill of an unknown amount, and addressed in this remediation plan was filed with the NMOCD on April 04, 2015 and was assigned **2RP-2983** (Appendix A).

III. Surface and Ground Water

There is no record of groundwater in the immediate vicinity of the site location. According to the topography map for Eddy County the depth to ground water for Section 10, Township 25S, Range 31E is approximately 400 bgs. Further research of the New Mexico Office of the State Engineer records indicate the average depth to groundwater for the area to be 390' bgs. Thereby, posing no eminent threat or danger to life forms in the area (Appendix D).

IV. Characterization

The target cleanup levels are determined using the *Guidelines for Remediation of Leaks, Spills and Releases* published by the NMOCD (August 13, 1993). Based on the ranking criteria presented below, the applicable Recommended Remediation Action Levels (RRAL) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethyl benzene, and total xylenes (BTEX), and 5,000 ppm Total Petroleum Hydrocarbons (TPH). Characterization of vertical extent of chloride concentration to a level of 1000 mg/kg (PPM) is also required.

Depth to Ground Water:			
(Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet	20 points	
	50 feet to 99 feet	10 points	
	>100 feet	0 points	X
Wellhead Protection Area:			
(Less than 200 feet from a private domestic water source; or less than 1000 feet from all other water sources)	Yes	20 points	
	No	0 points	X

Sample Date 6/03/15	Chloride (mg/kg)
Depth	
AH-1 @ 1'	528
AH-1 @ 2'	3200
AH-2 @ 1'	3560
AH-2 @ 2'	9860
AH-3 @ 1'	3800
AH-3 @ 2'	11500
AH-4 @ 1'	944
AH-4 @ 2'	5460
AH-5 @ 1'	208
AH-6 @ 1'	<16.0

Due to the aforementioned results: Hobbs Anchor was consulted to further delineate the area between AH-2 and AH-4 respectively. On August 14, 2015, SESI personnel, as well as Hobbs Anchor were on site to retrieve the representative soil bore samples. There were three (3) consecutive representative samples retrieved at depths of 8' bgs., 10' bgs., and 12' bgs. The samples were properly packaged, preserved, and transported to the commercial laboratory for Chloride (Cl) analyses. The results are listed in the table below (Appendix C):

Sample Date 8/14/15	Chloride (mg/kg)
Depth	
BH-1 @ 8'	624
BH-1 @ 10'	496
BH-1 @ 12'	784

VI. Action Plan

Due to the results listed above the following action plan is proposed:

Excavate by extending the East and South walls horizontally, and to the extent that intermittent field testing of representative soil sampling indicates Chloride constituency at < 1000 mg/kg. The newly excavated area would be to a depth of 18" bgs., due to the number of electrical lines, backfilling the previously excavated area to a depth of 18" bgs. SESI personnel will conduct field testing of the representative composite soil samples for sidewalls and bottom of the excavation. All contaminated soils will be transported to an approved NMOCD facility for disposal. The representative soil samples will be taken to a commercial laboratory for final analysis and confirmation. A 20 mil. Liner will be installed in the entire excavated area, backfilling with topsoil then capping with material similar to that removed, returning to grade and esthetically restoring the area according to NMOCD guidelines.

VII. Figures & Appendices

Figure 1 – Vicinity Map

Figure 2 – Site Plan

Appendix A – C-141

Appendix B – Photographs

Appendix C – Analytical Results

Appendix D – Groundwater

**Figure 1
Vicinity Map**



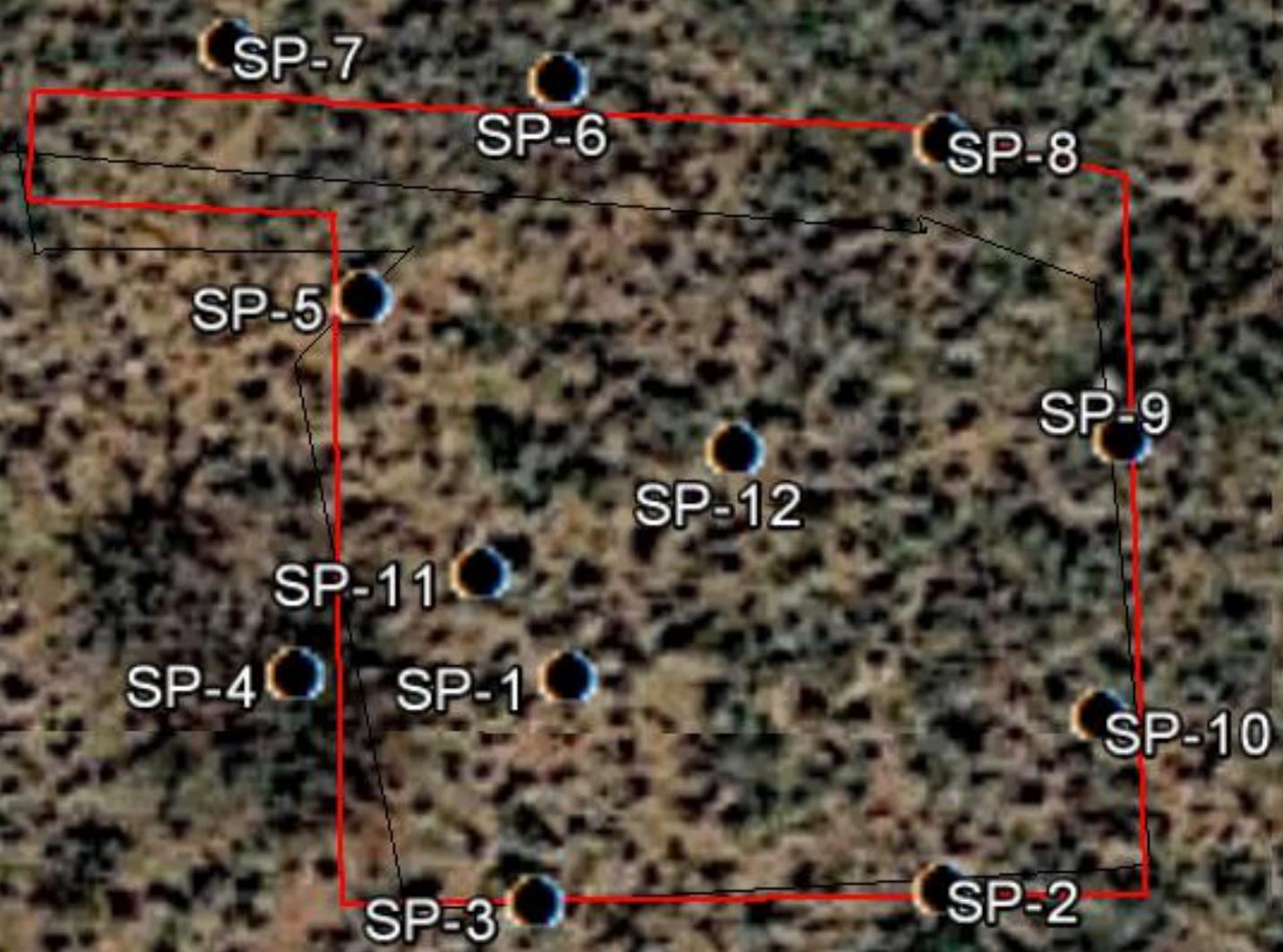
Cotton Draw 10 Fed 3H

Area of Impact

© 2015 Google

Google earth

**Figure 2
Site Plan**



1996

© 2015 Google

Google earth

Imagery Date: 2/13/2014 lat 32.151885° lon -103.761203° elev 3435 ft eye alt 3615 ft



AH-6

AH-1
AH-2

AH-4

AH-5

Oil or Gas Well 8

Oil or Gas Well 9

© 2015 Google

Google earth

1996

Imagery Date: 2/13/2014 32°09'06.70" N 103°45'39.87" W elev 3436 ft eye alt 3675 ft



Bore Hole 2 ●
Oil or Gas Well 3

Google earth

© 2015 Google

1996

Imagery Date: 2/13/2014 32°09'06.79" N 103°45'39.99" W elev 3436 ft eye alt 5334 ft

Appendix A C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

NM OIL CONSERVATION
ARTESIA DISTRICT

State of New Mexico
Energy Minerals and Natural Resources

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

APR 30 2015

Form C-141
Revised August 8, 2011

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

RECEIVED

Release Notification and Corrective Action

NAB 1512454101

OPERATOR Initial Report Final Report

Name of Company: Devon Energy Production Co LP (6137)	Contact: Martin Jimenez
Address: PO Box 250 Artesia, NM 88211	Telephone No. 575-513-5819
Facility Name: Cotton Draw 10 Fed 3H	Facility Type: Well location
Surface Owner: Federal	Mineral Owner: Federal
API No. 30-015-42126	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	10	25S	31E	200	North	1200	East	Eddy

Latitude: **32deg 9' 6.09" N** Longitude: **103deg 45' 39.944" W**

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: Unknown	Volume Recovered: 0
Source of Release: Drilling rigs (H&P 212)	Date and Hour of Occurrence Between 3/23/14 - 4/28/14	Date and Hour of Discovery April 2015
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour: N/A	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		

Describe Cause of Problem and Remedial Action Taken.*

At some time during the drilling period of this well, a produced water spill must have occurred and was found by the environmental company hired by Devon for remediation on another Completions spill of 15% acid that occurred on 9/10/2014. (Another C141 was submitted for the acid spill).

Describe Area Affected and Cleanup Action Taken.*

The drilling PW spill is estimated at 75' x 175' just north of the wellheads.
A plan will be submitted to take care of the produced water spill (as well as the 9/10/2014 acid spill).

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>D. Menoud</i>	OIL CONSERVATION DIVISION	
Printed Name: Denise Menoud	Approved by Environmental Specialist: <i>H. Huber</i>	
Title: Field Admin Support	Approval Date: 5/4/15	Expiration Date: N/A
E-mail Address: Denise.Menoud@dvn.com	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines Attached <input type="checkbox"/>	
Date: 4/29/2015 Phone: 575-746-5544	SUBMIT REMEDIATION PROPOSAL NO	

* Attach Additional Sheets If Necessary

LATER THAN: 1/4/15

2RP-2983

Appendix B Site Photographs

**Devon Energy
Cotton Draw 10 Fed. #3H
API 30-015-42126**



Site photo looking northwest to wells and excavation



Southwest corner of excavation looking east to wells



Southwest corner of excavation looking northeast



Southeast corner of excavation looking northwest



Southeast corner of excavation looking north



Northeast corner of excavation looking southwest

**Devon Energy
Cotton Draw 10 Fed. #3H
API 30-015-42126**



Northeast corner of excavation looking west



Northeast corner of excavation looking south to wells



Northwest excavation extension looking east



Interior of excavation looking southeast



SP-2. Sample from sand. Location 8 ft. west



SP-3 Sample from sand, south side of excavation

Devon Energy
Cotton Draw 10 Fed. #3H
API 30-015-42126



SP-4. Sample from sand, west side of excavation



SP-5 Sample from sand, west side of excavation



SP-6. Sample from sand, N side of excavation, 29.3 ft. from E end

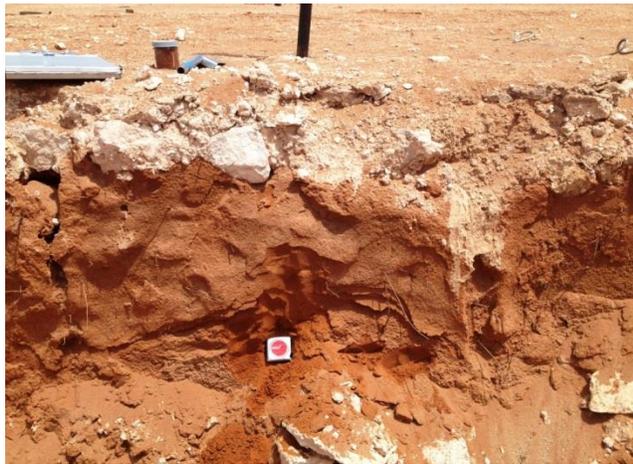


SP7 1.6' Bgs.

**Devon Energy
Cotton Draw 10 Fed. #3H
API 30-015-42126**



SP-9. Sample from sand, east side of excavation, 14.9 ft. south from northeast corner, 1.8 ft. below surface.



SP-10. Sample from sand, east side of excavation, 15.1 ft. north from southeast corner, 2.0 ft. below land surface.



SP 11 taken from caliche scrapings rock in bottom.

Devon Energy
Cotton Draw 10 Fed. #3H
API 30-015-42126



SP-12. Sample from approximate center of excavation, scrapings from bottom in hard caliche. Right photo looking southwest from approximate center of excavation.

Appendix C – Analytical Results



May 12, 2015

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: COTTON DRAW 10 FED COM 3H

Enclosed are the results of analyses for samples received by the laboratory on 05/05/15 16:40.

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.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	05/05/2015	Sampling Date:	05/04/2015
Reported:	05/12/2015	Sampling Type:	Soil
Project Name:	COTTON DRAW 10 FED COM 3H	Sampling Condition:	** (See Notes)
Project Number:	ALF-15-006	Sample Received By:	Jodi Henson
Project Location:	EAST OF LOVING, NM		

Sample ID: SP-1 SOUTH SIDE (H501168-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	05/08/2015	ND	416	104	400	3.77	

Sample ID: SP-2 E. END S. WALL (H501168-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	05/08/2015	ND	416	104	400	3.77	

Sample ID: SP-3 W. END S. WALL (H501168-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	05/08/2015	ND	416	104	400	3.77	

Sample ID: SP-4 S. END W. WALL (H501168-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19600	16.0	05/08/2015	ND	416	104	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	05/05/2015	Sampling Date:	05/04/2015
Reported:	05/12/2015	Sampling Type:	Soil
Project Name:	COTTON DRAW 10 FED COM 3H	Sampling Condition:	** (See Notes)
Project Number:	ALF-15-006	Sample Received By:	Jodi Henson
Project Location:	EAST OF LOVING, NM		

Sample ID: SP-5 N. END W. WALL (H501168-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	05/08/2015	ND	416	104	400	3.77	

Sample ID: SP-6 W. END N. WALL (H501168-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	05/08/2015	ND	416	104	400	3.77	

Sample ID: SP-7 CENTER N. WALL (H501168-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9060	16.0	05/08/2015	ND	416	104	400	3.77	

Sample ID: SP-8 E. END N. WALL (H501168-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18800	16.0	05/08/2015	ND	416	104	400	3.77	

Sample ID: SP-9 N. END E. WALL (H501168-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18900	16.0	05/08/2015	ND	416	104	400	3.77	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	05/05/2015	Sampling Date:	05/04/2015
Reported:	05/12/2015	Sampling Type:	Soil
Project Name:	COTTON DRAW 10 FED COM 3H	Sampling Condition:	** (See Notes)
Project Number:	ALF-15-006	Sample Received By:	Jodi Henson
Project Location:	EAST OF LOVING, NM		

Sample ID: SP-10 S. END E. WALL (H501168-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	05/08/2015	ND	416	104	400	3.77	

Sample ID: SP-11 BOTTOM WESAT (H501168-11)

Chloride, SM4500CI-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	05/08/2015	ND	416	104	400	3.77	

Sample ID: SP-12 BOTTOM CENTER EXC (H501168-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16000	16.0	05/08/2015	ND	416	104	400	3.77	

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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



Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

Company Name: Safety & Environmental Solutions, Inc. P.O. # BILLYTO

Project Manager: Bob Allen Company: Same

Address: 703 East Clinton

City: Hobbs State: NM Zip: 88240

Phone #: 575-397-0510 Fax #: 575-393-4388

Project #: ALF-15-006 Project Owner: A/F Trucks

Project Name: Cotton Brand 10 Fed Trucking

Project Location: East of Lovins Com 34

Sampler Name: DAVID BOYER Phone #: _____

FOR USE ONLY Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
1	SP-1 South side	G	1	X							5/4	1313	Chlorides
2	SP-2 E. End S. Wall	G	1	X							5/4	1330	
3	SP-3 W. End S. Wall	G	1	X							5/4	1337	
4	SP-4 S. End W. Wall	G	1	X							5/4	1346	
5	SP-5 N. End W. Wall	G	1	X							5/4	1352	
6	SP-6 W. End N. Wall	G	1	X							5/4	1358	
7	SP-7 Center N. Wall	G	1	X							5/4	1305	
8	SP-8 Eng N. Wall	G	1	X							5/4	1313	

PLEASE NOTE: Laboratory and client's sensitive property for this chain of custody whether based in contract or not, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 90 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 profit, 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.

Terms and Conditions: Invoices will be charged on all accounts more than 30 days past due at the rate of 2.5% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished By: DAVID BOYER Date: 5/15 Received By: SPACI SHERMAN

Relinquished By: DAVID BOYER Date: 5/15 Received By: SPACI SHERMAN

Temp. _____ Sample Condition: Cool Intact Yes No No

Delivered By: (Circle One) UPS - Bus - Other: 24.62 CHECKED BY: PH

Phone Result: Yes No Add'l Phone #: _____

Fax Result: Yes No Add'l Fax #: _____

REMARKS: _____

* Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



June 12, 2015

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: DEVON COTTON DRAW 10 FED #3H

Enclosed are the results of analyses for samples received by the laboratory on 06/05/15 15:35.

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 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:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	06/05/2015	Sampling Date:	06/03/2015
Reported:	06/12/2015	Sampling Type:	Soil
Project Name:	DEVON COTTON DRAW 10 FED #3H	Sampling Condition:	** (See Notes)
Project Number:	AFL-15-006	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: AH-1 1' (H501460-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	06/11/2015	ND	416	104	400	0.00	

Sample ID: AH-1 2' (H501460-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	06/11/2015	ND	416	104	400	0.00	

Sample ID: AH-2 1' (H501460-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3560	16.0	06/11/2015	ND	416	104	400	0.00	

Sample ID: AH-2 2' (H501460-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9860	16.0	06/11/2015	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	06/05/2015	Sampling Date:	06/03/2015
Reported:	06/12/2015	Sampling Type:	Soil
Project Name:	DEVON COTTON DRAW 10 FED #3H	Sampling Condition:	** (See Notes)
Project Number:	AFL-15-006	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: AH-3 1' (H501460-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3800	16.0	06/11/2015	ND	416	104	400	3.92	

Sample ID: AH-3 2' (H501460-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11500	16.0	06/11/2015	ND	416	104	400	3.92	

Sample ID: AH-4 1' (H501460-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	06/11/2015	ND	416	104	400	3.92	

Sample ID: AH-4 2' (H501460-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5460	16.0	06/11/2015	ND	416	104	400	3.92	

Sample ID: AH-5 1' (H501460-09)

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	06/11/2015	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	06/05/2015	Sampling Date:	06/03/2015
Reported:	06/12/2015	Sampling Type:	Soil
Project Name:	DEVON COTTON DRAW 10 FED #3H	Sampling Condition:	** (See Notes)
Project Number:	AFL-15-006	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: AH-6 1' (H501460-10)

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	06/11/2015	ND	416	104	400	3.92	

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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



Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Safety & Environmental Solutions, Inc. P.O. #
 Project Manager: Bob Allen Company: Same
 Address: 703 East Clinton
 City: Hobbs State: NM zip: 88240
 Phone #: 575-397-0510 Fax #: 575-393-4388
 Project #: ALE-15-006 Project Owner: Affleck's Plumbing
 Project Name: DONOR CATCHER DRAINS 10 FEB 34 State: zip:
 Project Location: LEO CONCRETE Phone #:
 Sampler Name: SOSS Jerry Fax #:
 FOR LAB USE ONLY PRESERV. SAMPLING

Lab I.D. Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
4501400	AH-1	GR	1						06/03	1045	X	Calcium
	AH-1	2FT	5							1055	X	
	AH-2	1FT	1							1120	X	
	AH-2	2FT	1							1140	X	
	AH-3	1FT	1							1415	X	
	AH-3	2FT	1							1200	X	
	AH-4	1FT	1							1220	X	
	AH-4	2FT	1							1310	X	
	AH-5	1FT	1							1340	X	
	AH-6	1FT	1								X	

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Temp. 15.1pt Sample Condition Cool Intact Yes No
 Delivered By: (Circle One) UPS - Bus - Other: #54
 Relinquished By: [Signature] Date: 6-5-15 Time: 13:35
 Received By: [Signature] Date: 6/5/15 Time: 16:00
 CHECKED BY: [Signature] (Initials)
 Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS:

June 18, 2015

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: COTTON DRAW #10

Enclosed are the results of analyses for samples received by the laboratory on 06/15/15 8:00.

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



August 18, 2015

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: DEVON COTTON DRAW 10 FED #3H

Enclosed are the results of analyses for samples received by the laboratory on 08/18/15 9:00.

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".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	08/18/2015	Sampling Date:	08/14/2015
Reported:	08/18/2015	Sampling Type:	Soil
Project Name:	DEVON COTTON DRAW 10 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	ALF-15-006	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: BH-1 8' (H502151-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	08/18/2015	ND	432	108	400	7.69	

Sample ID: BH-1 12' (H502151-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	08/18/2015	ND	432	108	400	7.69	

Sample ID: BH-1 10' (H502151-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	08/18/2015	ND	432	108	400	7.69	

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



Celey D. Keene, Lab Director/Quality Manager

Appendix D

Groundwater Analysis



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	Depth Well	Depth Water	Water Column
C 02250			ED	3	1	4	21	25S	31E	614912	3553620*	400	390	10
C 02568			ED	4	3	1	01	25S	31E	619103	3558892*	1025		
C 02569			ED	4	4	2	02	25S	31E	618699	3558891*	1016		
C 02570			ED	4	2	4	02	25S	31E	618704	3558489*	895		
C 02571			ED	4	1	2	02	25S	31E	618292	3559294*	860		
C 02572			ED	4	2	2	02	25S	31E	618695	3559294*	852		
C 02573			ED	1	4	2	02	25S	31E	618499	3559091*			
C 02574			ED	1	1	2	02	25S	31E	618092	3559494*			
C 03830 POD1	CUB		ED	4	2	4	02	25S	31E	618632	3558432	450		

Average Depth to Water: **390 feet**
 Minimum Depth: **390 feet**
 Maximum Depth: **390 feet**

Record Count: 9

PLSS Search:

Township: 25S Range: 31E

*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.