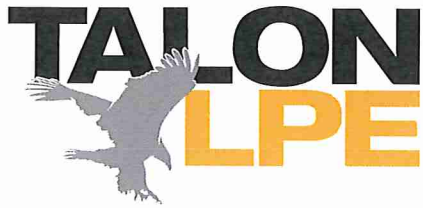


talonlpe.com • 866.742.0742



## **Soil Assessment and Remediation Work Plan**

Cotton Draw Unit 89  
API # 30-015-31381 \* 2RP-4186  
Talon Project No. 700794.241.01

### **Prepared For:**

Devon Energy Production  
6488 Seven Rivers Hwy  
Artesia, New Mexico 88210

### **Prepared By:**

TALON/LPE  
408 W. Texas Avenue  
Artesia, New Mexico 88210

**March 16, 2018**

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

Subject: **Soil Assessment and Remediation Work Plan**  
Cotton Draw Unit 89  
API # 30-015-31381 \* 2RP-4186

Dear Mr. Bratcher,

Devon Corporation 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.

### **Site Information**

The Cotton Draw Unit 89 is located approximately forty-four (44) miles southeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter O, Section 3, Township 25 South and Range 31 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.1528893 North and -103.7636414 West. A site plan is presented in [Appendix I](#).

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 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 Holocene to Pleistocene in age and is comprised of eolian sands and piedmont deposits which include silty soils under lain with hard caliche.

### **Ground Water and Site Ranking**

The New Mexico State Engineer web site indicates that there are 7 wells in the vicinity and they all appear to be dry. The Chevron/Texaco Water Trend Map has the ground water in this area to be greater than 450-feet below ground surface. See [Appendix III](#) for the referenced groundwater data.

Therefore the ranking for this site is a **0** based on the following:

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

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 5,000 mg/kg for TPH. The recommended guidelines for total chlorides is 600 mg/kg.

### Incident Description and Initial Remedial Actions

On May 10, 2017 a filter screen plug was missing on the triplex pump causing 16 barrels of produced waste to be released outside of the containment. A vac truck was called to the location and recovered 5 barrels of fluid. The main supply valve feeding the pump was closed and the plug was replaced. A site plan is presented in [Appendix I](#) which illustrates the impacted area. See initial C-141 in [Appendix II](#).

On December 6, 2017, Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected from around the impacted area utilizing a hand auger.

See [Appendix IV](#) for complete report of laboratory results.

Sample ID	Depth (feet)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH EXT (mg/kg)	BTEX (mg/kg)	Chlorides (mg/kg)
S-1	0'	-	-	-	-	6960
	1'	-	-	-	-	1040
	2'	-	-	-	-	336
S-2	0'	-	-	-	-	432
S-3	0'	-	-	-	-	752
	1'	-	-	-	-	432
	2'	-	-	-	-	704
	3'	-	-	-	-	496
	4'	-	-	-	-	496
S-4	0'	-	-	-	-	32

--Analyte Not Tested

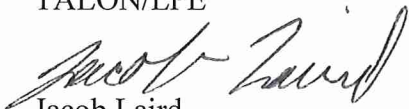
**Proposed Remedial Actions of:**


- The impacted soil in the vicinity of S-1 and S-3, as well as the flow paths southward will be excavated to a depth of 2-feet deep.
- All contaminated soil will be transported to Lea Land, LLC, a NMOCD approved disposal facility.
- The excavated area will be backfilled with new caliche. Once the backfilling activities are complete the work area will be contoured to match the surrounding location.
- A final closure report documenting all remedial actions will be provided to the NMOCD Artesia Office 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

  
Jacob Laird  
Environmental Scientist

  
Kimberly Wilson  
Project Manager

Attachments:

- Appendix I Site Plan
- Appendix II Initial C-141
- Appendix III Groundwater Data
- Appendix IV Laboratory Results

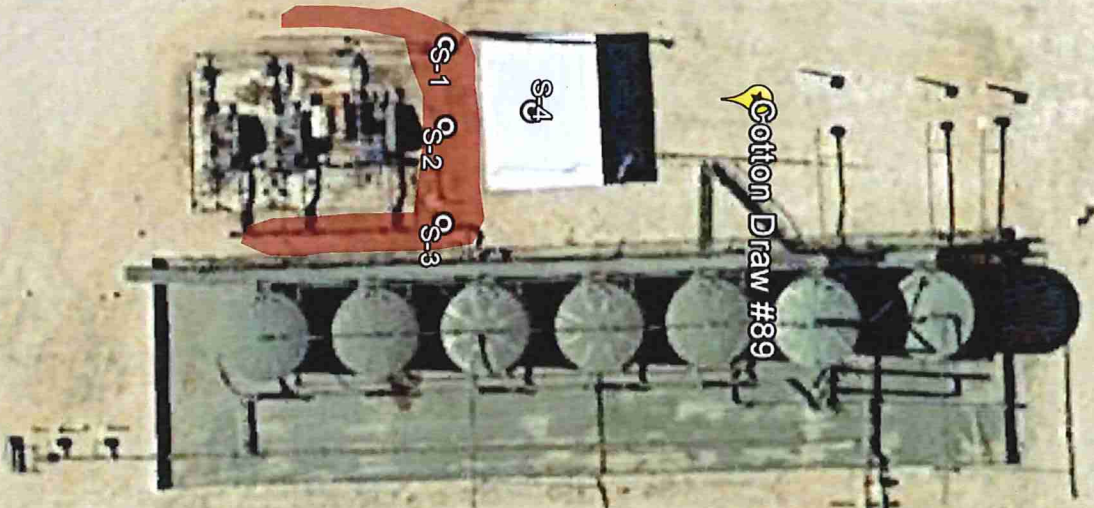
# APPENDIX I

## SITE PLAN






# Cotton Draw #89

Devon Energy



**Legend**

-  Cotton Draw #89
-  Impacted Area
-  Sample Locations

100 ft



**APPENDIX II**

**INITIAL 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

State of New Mexico  
Energy Minerals and Natural Resources

APR 21 2017

Form C-141  
Revised August 8, 2011

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

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

**Release Notification and Corrective Action**

**NAB1711551324**

**OPERATOR**

Initial Report  Final Report

<b>Name of Company</b> Devon Energy Production Company <i>6137</i>		<b>Contact</b> Matt Nettles, Production Foreman	
<b>Address</b> 6488 Seven Rivers Hwy Artesia, NM 88210		<b>Telephone No.</b> 575-513-5767	
<b>Facility Name</b> Cotton Draw Unit 89		<b>Facility Type</b> Salt Water Disposal	
<b>Surface Owner</b> Federal		<b>Mineral Owner</b> Federal	
		<b>API No</b> 30-015-31381	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	3	25S	31E	250	FSL	1980	FEL	Eddy

**Latitude:** 32.1528893

**Longitude:** -103.7636414

**NATURE OF RELEASE**

<b>Type of Release</b> Produced Water	<b>Volume of Release</b> 16bbbls	<b>Volume Recovered</b> 5BBLS
<b>Source of Release</b> Water tanks	<b>Date and Hour of Occurrence</b> 4/10/2017 @ 10:00 PM	<b>Date and Hour of Discovery</b> 4/10/2017 @ 10:00 PM
<b>Was Immediate Notice Given?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	<b>If YES, To Whom?</b> BLM OCD	
<b>By Whom?</b> David Simmons, Assistant Production Foreman	<b>Date and Hour</b> BLM-4/10/2017 @ 11:00 PM OCD-4/10/20107 @11:02 PM	
<b>Was a Watercourse Reached?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>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> A filter screen plug was missing on the triplex pump causing a 16BBL produced water release outside of containment. The main water supply valve feeding the pump was closed and the plug was replaced.		
<b>Describe Area Affected and Cleanup Action Taken.*</b> Approximately 16bbbls produced water was released outside of containment. A vacuum truck was dispatched and recovered 5BBLS of produced water. A remediation contractor will be contacted to assist with remediation efforts.		

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.

<b>Signature:</b> Dana DeLaRosa	<b>OIL CONSERVATION DIVISION</b>	
<b>Printed Name:</b> Dana DeLaRosa	Approved by Environmental Specialist: <i>[Signature]</i>	
<b>Title:</b> Field Admin Support	Approval Date: 4/25/17	Expiration Date: N/A
<b>E-mail Address:</b> Dana.Delarosa@dvn.com	Conditions of Approval: see attached	Attached: <input checked="" type="checkbox"/>
<b>Date:</b> 4.20.2017 <b>Phone:</b> 575.74.5594		

\* Attach Additional Sheets If Necessary

2RP-A186



**APPENDIX III**  
**GROUNDWATER DATA**



## 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 Code	Sub-basin	County	Q 6	Q 4	Q 2	Q 1	Sec	Tws	Rng	X	Y	Distance	Depth	Well	Depth	Water Column
<a href="#">C 03830</a> <b>POD1</b>	CUB	ED	4	2	4	02	25S	31E	618632	3558432	2077	450					
<a href="#">C 02574</a>		ED	1	1	2	02	25S	31E	618092	3559494*	2081						
<a href="#">C 02571</a>		ED	4	1	2	02	25S	31E	618292	3559294*	2106	860					
<a href="#">C 02570</a>		ED	4	2	4	02	25S	31E	618704	3558489*	2158	895					
<a href="#">C 02573</a>		ED	1	4	2	02	25S	31E	618499	3559091*	2172						
<a href="#">C 02569</a>		ED	4	4	2	02	25S	31E	618699	3558891*	2269	1016					
<a href="#">C 02572</a>		ED	4	2	2	02	25S	31E	618695	3559294*	2443	852					

Average Depth to Water: --  
Minimum Depth: --  
Maximum Depth: --

**Record Count:** 7

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 616590.67

**Northing (Y):** 3558051.99

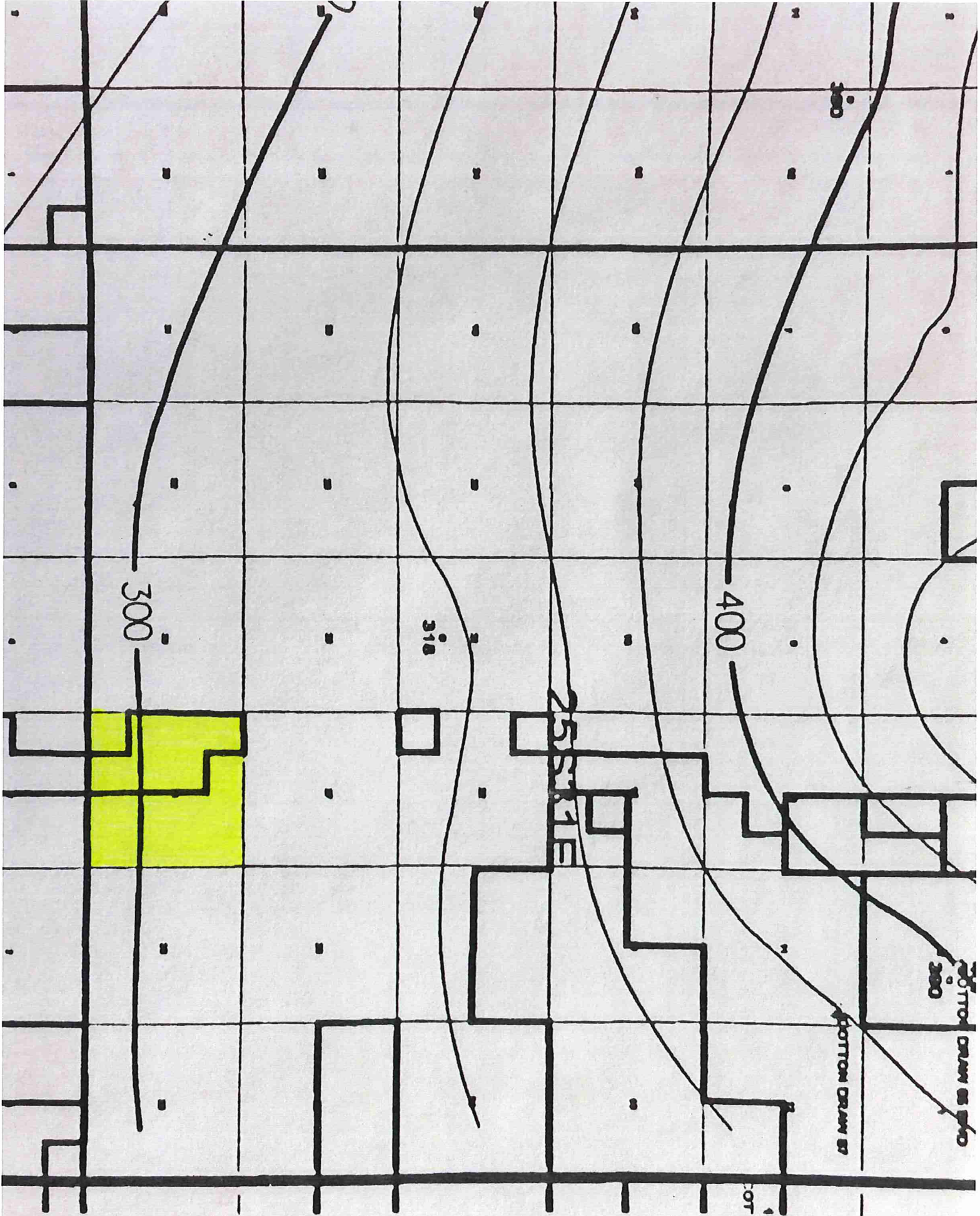
**Radius:** 2500

\*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.

1/18/18 3:10 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



300

310

400

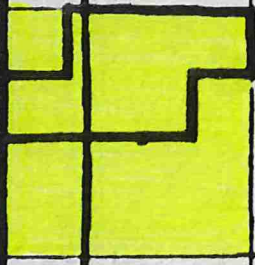
500

255 ST E

COTTON DRAIN 87

COTTON DRAIN 88

TROT



**APPENDIX IV**  
**LABORATORY RESULTS**

December 09, 2017

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: COTTON DRAW #89

Enclosed are the results of analyses for samples received by the laboratory on 12/06/17 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

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

 Received: 12/06/2017  
 Reported: 12/09/2017  
 Project Name: COTTON DRAW #89  
 Project Number: 700794.244.01  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 12/05/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S-1 0' (H703364-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6960	16.0	12/07/2017	ND	448	112	400	0.00		

**Sample ID: S-1 1' (H703364-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	12/07/2017	ND	448	112	400	0.00		

**Sample ID: S-1 2' R (H703364-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	12/07/2017	ND	448	112	400	0.00		

**Sample ID: S-2 0' (H703364-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	12/07/2017	ND	448	112	400	0.00		

Cardinal Laboratories

\* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	12/06/2017	Sampling Date:	12/05/2017
Reported:	12/09/2017	Sampling Type:	Soil
Project Name:	COTTON DRAW #89	Sampling Condition:	Cool & Intact
Project Number:	700794.244.01	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

**Sample ID: S-2 0.5' R (H703364-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1060	16.0	12/07/2017	ND	448	112	400	0.00		

**Sample ID: S-3 0' (H703364-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	12/07/2017	ND	448	112	400	0.00		

**Sample ID: S-3 1' (H703364-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	12/07/2017	ND	448	112	400	0.00		

**Sample ID: S-3 2' (H703364-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	12/08/2017	ND	448	112	400	0.00		

**Sample ID: S-3 3' (H703364-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	12/08/2017	ND	448	112	400	0.00		

Cardinal Laboratories

\* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 12/06/2017  
 Reported: 12/09/2017  
 Project Name: COTTON DRAW #89  
 Project Number: 700794.244.01  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 12/05/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S-3 4' (H703364-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	12/08/2017	ND	448	112	400	0.00		


**Sample ID: S-4 0' (H703364-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/08/2017	ND	448	112	400	0.00		

Cardinal Laboratories

\* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



---

Celey D. Keene, Lab Director/Quality Manager





# CARDINAL Laboratories

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 2

### ANALYSIS REQUEST

**BILL TO**

Company Name: Talon/LPE

Project Manager: Kimberly M. Wilson

Address: 408 W. Texas Ave.

City: Atesia

Phone #: 575-746-8768

Project #: 700994.24.01

Project Name: Cotton Grass #89

Project Location: Eddy Bay

Sample Name: Kim Wilson

FOR LAB USE ONLY

P.O. #:

Company: Talon/LPE

Attn:

Address:

City:

State:

Phone #:

Fax #:

PRESERV:

ACID/BASE:

ICE / COOL:

OTHER:

DATE

TIME

SAMPLING

MATRIX

OTHER:

SLUDGE

OIL

SOIL

WASTEWATER

GROUNDWATER

# CONTAINERS

(G)RAB OR (C)OMP.

Sample I.D.

Lab I.D.

1003304

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

PLEASE NOTE: Liability and Damages: Cardinal's liability and clients 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 analysis. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, 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: 12/5/17

Time: 1:50

Received By:

Date: 12/5/17

Time: 1:50

Relinquished By:

Date: 12/5/17

Time: 1:50

Received By:

Date: 12/5/17

Time: 1:50

Delivered By: (Circle One)

UPS

Bus

Other

1. Use corrected

Sample Condition

Cool  Intact

Yes  No

Yes  No

Checked By: B. D. #75

Phone Result:  Yes  No

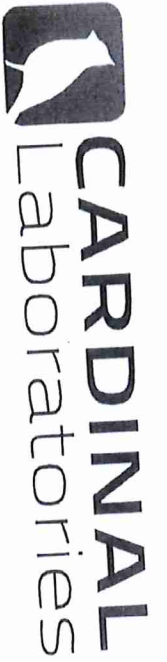
Adtl' Phone #:

Adtl' Fax #:

REMARKS:

Chlorides





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 2

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

BILL TO

ANALYSIS REQUEST

Company Name: Talon/LPE

Project Manager: Kimberly M. Wilson

Address: 408 W. Texas Ave. State: NM zip: 88210

City: Artesia Phone #: 575-746-8768 Fax #: 575-746-8905

Project #: 700994.24.01 Project Owner: DeDon

Project Name: Cotton Draw #89

Project Location: Eddy Ave

Sampler Name: Kim Wilson

FOR LAB USE ONLY

P.O. #: Company: Talon/LPE

Attn: Address:

City: State: zip:

Phone #: Fax #:

Matrix: GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:

ACID/BASE: ICE / COOL OTHER: DATE TIME

Matrix: GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:

ACID/BASE: ICE / COOL OTHER: DATE TIME

Matrix: GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:

ACID/BASE: ICE / COOL OTHER: DATE TIME

Matrix: GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:

ACID/BASE: ICE / COOL OTHER: DATE TIME

Matrix: GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:

ACID/BASE: ICE / COOL OTHER: DATE TIME

Matrix: GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:

ACID/BASE: ICE / COOL OTHER: DATE TIME

Matrix: GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:

ACID/BASE: ICE / COOL OTHER: DATE TIME

Matrix: GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:

ACID/BASE: ICE / COOL OTHER: DATE TIME

Matrix: GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:

ACID/BASE: ICE / COOL OTHER: DATE TIME

Matrix: GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:

ACID/BASE: ICE / COOL OTHER: DATE TIME

Matrix: GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:

ACID/BASE: ICE / COOL OTHER: DATE TIME

Matrix: GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:

ACID/BASE: ICE / COOL OTHER: DATE TIME

Matrix: GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:

ACID/BASE: ICE / COOL OTHER: DATE TIME

Chlorides

Relinquished By: Kimberly M. Wilson Date: 8/6/17 Time: 11:30  
 Received By: [Signature] Date: 8/6/17 Time: [Blank]  
 Sample Condition:  Yes  No  
 Cool Intact:  Yes  No  
 CHECKED BY: [Signature] (Initials) BB #75

REMARKS:

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

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 stated upon any of the above stated reasons or otherwise.

Sampler - UPS - Bus - Other: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100