

Soil Assessment and Remediation Work Plan

Cotton Draw Unit #255H 30-015-43739 * 2RP-4106

Prepared For:

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

Prepared By:

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

March 29, 2017

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

Subject:

Soil Assessment and Remediation Work Plan

Cotton Draw Unit #255H * 30-015-43739 * 2RP-4106

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 #255 is located approximately fifty-eight (58) miles east of Carlsbad, New Mexico. The legal location for this release is Unit Letter A, Section 13, Township 25 South and Range 31 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.1370258 North and -103.7250735 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 Berino complex with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Quaternary in age and is comprised of eolian sands and piedmont deposits which include silty soils under lain with a sandy clay loam and hard caliche. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

The New Mexico State Engineer web site indicates that there is no known ground water in the area. See Appendix II 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, and 5,000 mg/kg for TPH. The clean up criteria for total chlorides is considered to be 1,000 mg/kg.

Incident Description and Initial Remedial Actions

On January 20, 2017 a contractor released 5 barrels of fluid from the frac blender. A vac truck was called to the location and recovered 4 barrels of fluid. A site plan is presented in Appendix I which illustrates the impacted area. See initial C-141 in Appendix II and site photos in Appendix IV

On March 8, 2016 Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected utilizing a hand auger.

See Appendix III for complete report of laboratory results.

March 13, 2017

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'		11100	_	
	0.5'		2800		
	1'		208		
	2'		128		
	3'		352		
	4'		272		
S-2	0'		9600		
	0.5'		3680		
	1'		176		
	2'		144		
	3'		32		
	4'		32		
S-3	0'		6930		
	0.5'		4800		
	1'		48		
	2'		48		
	3'		32		
	4'		64		
S-4	0'		304		
	0.5'		160		
	1'		16		
	2'		16		
	3'		32		
	4'		<16		
S-5	0		4530		
	0.5'		2400		
	1		80		
	2		48		
	3		48		

	4	 32	
S-6	0	13600	
	0.5'	 13600 800	
	1	 320	
	2	 128	
	3	 80	
	4	32	

Proposed Remedial Actions

- The impacted areas surrounding S-1, S-2, S-3 and S-5 will be excavated to a depth of 1-foot deep. The impacted area located at S-6 will be excavated to only 0.5-feet deep.
- Field chloride titrations will be used to guide the horizontal extent of the excavation at S-3, S-5 and S-6.
- 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 backfill activities are complete the work area will be compacted.
- 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

Kimberly M. Wilson

Project Manager

David J. Adkins

District Manager

Attachments:

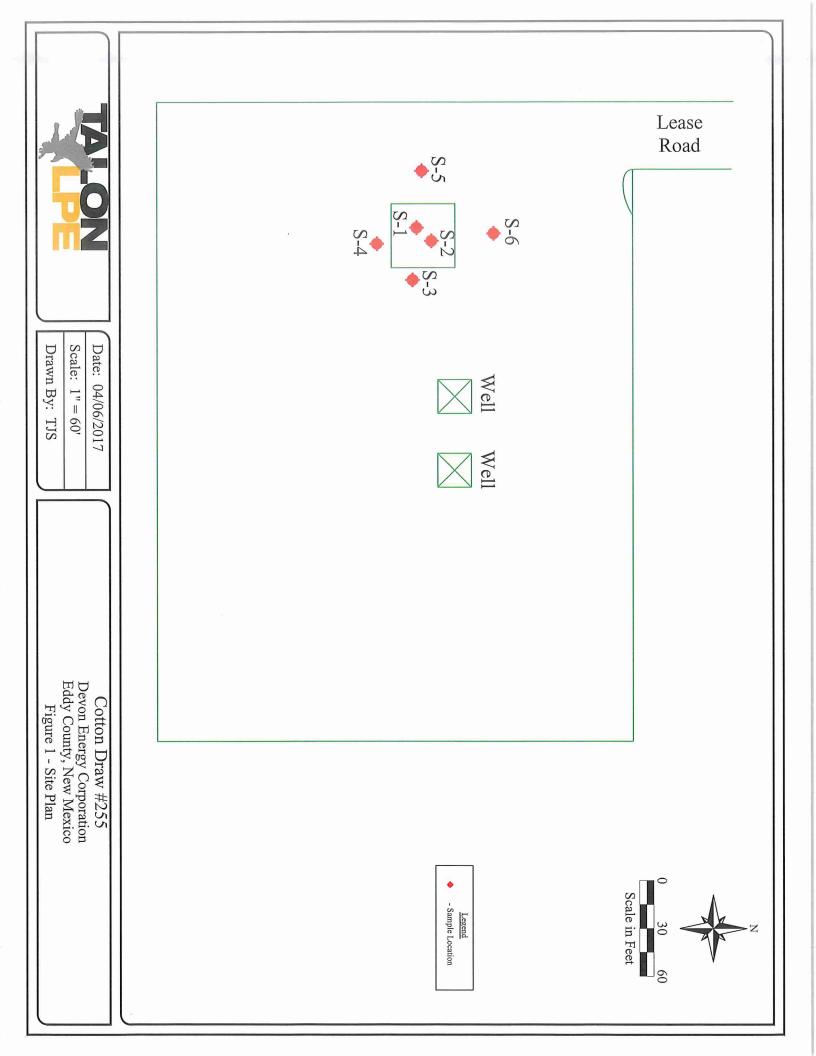
Appendix I Site Plan

Appendix II Groundwater Data & Initial C-141

imberly M. Wilson

Appendix III Laboratory Results

APPENDIX I SITE MAP



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 Sub-		Q	Q	Q								Water
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	Χ	Υ	DistanceD	epthWellDep	thWaterColumn
C 03830 POD1		CUB	ED	4	2	4	02	25S	31E	618632	3558432 🌑	2743	450	
C 02570			ED	4	2	4	02	25S	31E	618704	3558489* 🦲	2744	895	
C 02568			ED	4	3	1	01	25S	31E	619103	3558892*	2884	1025	
C 02569			ED	4	4	2	02	25S	31E	618699	3558891*	3078	1016	
C 02573			ED	1	4	2	02	25S	31E	618499	3559091*	3355		
C 02572			ED	4	2	2	02	25S	31E	618695	3559294*	3428	852	
C 02571			ED	4	1	2	02	25S	31E	618292	3559294*	3639	860	
C 02574			ED	1	1	2	02	25S	31E	618092	3559494* 🦲	3917		

Average Depth to Water:

100

Minimum Depth:

--

Maximum Depth:

Record Count:8

UTMNAD83 Radius Search (in meters):

Easting (X): 620345

Northing (Y): 3556289

Radius: 5000

*UTM location was derived from PLSS - see Help

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

1/24/17 3:05 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

NM OIL CONSERVATION

ARTESIA O'STRICT

State of New Mexico Energy Minerals and Natural Resources FEP 6 1 2017

Form C-141 Revised August 8, 2011

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

Oil Conservation Division 1220 South St. Francis Dr.

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

Santa Fe, NM 87505 Release Notification and Corrective Action NAB 17030493 OPERATOR Initial Report Final Report Name of Company: Devon Energy Production Co LP **Brett Fulks, EHS Professional** Contact: (6137)Address: PO Box 250 Artesia, NM 88211 Telephone No. 432-301-3223 Facility Name: Cotton Draw Unit 255H Facility Type: Oil Well Mineral Owner: Surface Owner: **Federal Federal** API No. 30-015-43739 LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County A 13 25S 31E 200 North 640 East Eddy Latitude: 32.1370258 ____Longitude: __-103.7250735 NATURE OF RELEASE Type of Release: Volume of Release: 5 BBLS Volume Recovered: 4 BBLS **Produced Treated Water** Source of Release Date and Hour of Occurrence Date and Hour of Discovery 1/20/2017, 12:30 AM 1/20/2017, 12:30 AM Blender If YES, To Whom? Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required NA, spill was under 25 barrels and not required By Whom? Date and Hour: NA NA, spill was under 25 barrels and not required Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No N/A If a Watercourse was Impacted, Describe Fully,* N/A Describe Cause of Problem and Remedial Action Taken.* A contractor released 5 bbls from the frac blender into the blender's secondary containment, and then proceeded to drive the blender over the containment before having a vacuum truck remove the fluid. Describe Area Affected and Cleanup Action Taken. * 5 barrels of produced treated water was released onto the ground approximately 90 feet north of the wellhead. The spill was contained to the location pad and covered an approximate 10,000 square feet area. The 5 barrel release mixed with the rain water already on the pad. A vacuum truck was called to location and recovered 4 bbls of the produced treated water. A remediation contractor will be contacted. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Denise Menoud Signature: Approved by Environmental Specialist: Printed Name: Denise Menoud Approval Date: 4 Expiration Date:

Conditions of Approval:

* Attach Additional Sheets If Necessary

E-mail Address: Denise.Menoud@dvn.com

Field Admin Support

Phone: 575-746-5544

Title:

Attached X

APPENDIX III LABORATORY RESULTS



March 13, 2017

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: COTTON DRAW UNIT #255

Enclosed are the results of analyses for samples received by the laboratory on 03/10/17 13:55.

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.

Cardinal Laboratories is accreditated 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.

Celey D. Keens

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



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received: Reported: 03/10/2017

03/13/2017

Project Name:

COTTON DRAW UNIT #255

Project Number: Project Location: 700794.212.01

EDDY CO.

Sampling Date:

03/08/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Tamara Oldaker

Sample ID: S-1 0' (H700633-01)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte

Result

Reporting Limit

Analyzed

Method Blank

BS

True Value QC

RPD 0.00

0.00

0.00

Qualifier

Chloride

11100

Result

2800

16.0

Reporting Limit

03/13/2017

Analyzed

ND

Method Blank

ND

416

% Recovery 104

400

Sample ID: S-1 0.5' (H700633-02)

Chloride, SM4500Cl-B

Analyte

mg/kg

Analyzed By: AC

BS

416

% Recovery

True Value QC RPD

Qualifier

Chloride

16.0 03/13/2017

104

400

Sample ID: S-1 1' (H700633-03)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte

Result

208

Reporting Limit 16.0

Analyzed 03/13/2017 Method Blank ND

BS 416 % Recovery

104

True Value QC

400

RPD

Qualifier

Chloride

Sample ID: S-1 2' (H700633-04)

Chloride, SM4500Cl-B

Analyte

mg/kg

Analyzed By: AC

Analyzed

Method Blank

BS

% Recovery

True Value OC

RPD

Qualifier

Chloride

128

Result

Reporting Limit 16.0

03/13/2017

ND

416

104

400

0.00

*=Accredited Analyte

Cardinal Laboratories

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Celeg D. Keens



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

03/10/2017

Sampling Date:

03/08/2017

Reported:

03/13/2017

Sampling Type:

Soil

Project Name:

COTTON DRAW UNIT #255

Sampling Condition:

** (See Notes)

Project Number: Project Location: 700794.212.01

EDDY CO.

Sample Received By:

Tamara Oldaker

Sample ID: S-1 3' (H700633-05)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyte

Result

Analyzed

Method Blank

% Recovery

True Value QC

RPD 0.00 Qualifier

Chloride

352

16.0 03/13/2017

Reporting Limit

ND

BS 416

104

400

Sample ID: S-1 4' (H700633-06)

Chloride, SM4500Cl-B

Analyte

Analyte

Analyte

Analyte

mg/kg

Analyzed By: AC

Qualifier

Chloride

Result 272

16.0

Reporting Limit

Reporting Limit

Reporting Limit

16.0

16.0

03/13/2017

Analyzed

Method Blank ND

BS 416 % Recovery 104

True Value QC 400

RPD 0.00

Sample ID: S-2 0' (H700633-07)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyzed

Method Blank

BS

% Recovery

Chloride

Result 9600

16.0 03/13/2017 ND

416

104

True Value QC 400

RPD

Qualifier

Sample ID: S-2 0.5' (H700633-08)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Method Blank

ND

0.00

Result

3680

Analyzed

03/13/2017

03/13/2017

BS

% Recovery

104

104

True Value QC RPD

Qualifier

Chloride

Sample ID: S-2 1' (H700633-09) Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

416

400

400

0.00

Chloride

Result

176

Reporting Limit Analyzed Method Blank

ND

BS 416

True Value QC % Recovery

RPD

0.00

Qualifier

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*=Accredited Analyte

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TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

03/10/2017

Sampling Date:

03/08/2017

Reported:

03/13/2017

Sampling Type:

Soil

Project Name:

COTTON DRAW UNIT #255

Sampling Condition:

** (See Notes)

Project Number:

700794,212,01

Sample Received By:

Tamara Oldaker

Project Location:

EDDY CO.

Sample ID: S-2 2' (H700633-10)

Chloride, SM4500Cl-I	2

mg/kg

Analyzed By: AC

Analyte

Reporting Limit Result

Analyzed

Method Blank

BS

% Recovery

True Value QC

RPD 0.00 Qualifier

Chloride

144

Result

32.0

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

03/13/2017

Analyzed

03/13/2017

ND

Method Blank

ND

416

104

400

400

Sample ID: S-2 3' (H700633-11)

Analyte

Analyte

Analyte

Analyte

Chloride,	SM4500Cl-B
-----------	------------

mg/kg

Analyzed By: AC

BS

416

% Recovery True Value QC

104

RPD

0.00

Qualifier

Chloride

Sample ID: S-2 4' (H700633-12)

	- 3
Chloride, SM4500Cl-B	

mg/kg

Analyzed By: AC

Result

Reporting Limit Analyzed Method Blank

BS

% Recovery

104

Chloride

32.0

16.0 03/13/2017 ND

416

True Value QC

RPD

Qualifier

Analyzed By: AC

400

0.00

0.00

Sample ID: S-3 0' (H700633-13)

Result

6930

Result

4800

mg/kg

Analyzed

03/13/2017

Analyzed

03/13/2017

Method Blank

ND

BS

416

BS

416

% Recovery

104

104

True Value QC

400

400

RPD Qualifier

Sample ID: S-3 0.5' (H700633-14)

Chloride

Chloride

Chloride, SM4500Cl-B

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Method Blank

ND

% Recovery

True Value QC

RPD

0.00

Qualifier

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Celeg D. Keene



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received: Reported: 03/10/2017

03/13/2017

Project Name:

COTTON DRAW UNIT #255

Project Number:

700794,212,01

Project Location:

EDDY CO.

Sampling Date:

03/08/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Tamara Oldaker

Sample ID: S-3 1' (H700633-15)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte

Reporting Limit Result

Analyzed Method Blank

% Recovery 104

104

True Value QC

RPD Qualifier

Chloride

Chloride

48.0

Result

48.0

16.0

Reporting Limit

16.0

03/13/2017

ND

BS 416

BS

416

400

0.00

Sample ID: S-3 2' (H700633-16)

Chloride, SM4500CI-B

Analyte

Analyte

Analyte

Analyte

mg/kg

Analyzed By: AC

Analyzed

03/13/2017

Method Blank ND

% Recovery

True Value QC

400

RPD

0.00

Qualifier

Sample ID: S-3 3' (H700633-17)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Reporting Limit Analyzed Method Blank

BS

True Value QC

Chloride

Result 32.0

Result

16.0

03/13/2017

RPD

Qualifier

ND

416

104

% Recovery

400

3.77

Sample ID: S-3 4' (H700633-18)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

BS

% Recovery

True Value QC

Chloride

64.0

16.0

Reporting Limit

Analyzed 03/13/2017 Method Blank ND

416

104

400

RPD 0.00 Qualifier

Sample ID: S-4 0' (H700633-19)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Qualifier

Chloride

Result 304

Reporting Limit Analyzed 16.0 03/13/2017 Method Blank ND

BS 416 % Recovery 104

True Value QC 400

RPD 3.77

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TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

03/10/2017

03/13/2017

Reported: Project Name:

COTTON DRAW UNIT #255

Project Number:

700794.212.01

Project Location:

EDDY CO.

Sampling Date:

03/08/2017

Soil

Sampling Type:

Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: S-4 0.5' (H700633-20)

Chlorid	le, SM450	OCI-B
---------	-----------	-------

mg/kg

Analyzed By: AC

Analyte

Result

160

16.0

16.0

Result

32.0

Result

<16.0

Reporting Limit 16.0

16.0

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed 03/13/2017 Method Blank ND

BS 416

104

% Recovery

True Value QC 400

RPD 3.77 Qualifier

Chloride

Chloride

Chloride

Sample ID: S-4 1' (H700633-21)

Analyzed By: AC

Analyte

Chloride, SM4500Cl-B

mg/kg Result Reporting Limit

Analyzed 03/13/2017 Method Blank ND

BS 416 % Recovery 104

True Value QC 400

400

400

RPD 3.77

Qualifier

Sample ID: S-4 2' (H700633-22)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Reporting Limit Analyte Result

Analyzed 03/13/2017

Method Blank ND

BS 416 % Recovery True Value QC

104

3.77

RPD Qualifier

Sample ID: S-4 3' (H700633-23)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyzed

03/13/2017

Method Blank

ND

BS 416 % Recovery True Value QC **RPD**

3.77

Qualifier

Chloride

Chloride

Sample ID: S-4 4' (H700633-24)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte

Analyte

Analyzed

03/13/2017

Method Blank

ND

BS 416 % Recovery

104

104

True Value QC

400

RPD

3.77

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Keens



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

03/10/2017

03/13/2017

Reported: Project Name:

COTTON DRAW UNIT #255

Project Number:

700794,212.01

Project Location:

EDDY CO.

Sampling Date:

03/08/2017

Soil

Sampling Type:

BS

416

Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: S-5 0' (H700633-25)

Chl	arida	SM45000	TL.D

mg/kg

Analyzed By: AC

Analyte

Result

4530

Reporting Limit

Analyzed

Method Blank

ND

104

% Recovery

True Value QC 400

RPD Qualifier

3.77

Sample ID: S-5 0.5' (H700633-26)

Cilioliue, Si44300Ci-b	Chl	oride	, SM4500CI-B
------------------------	-----	-------	--------------

Analyte

Analyte

Analyte

mg/kg

Analyzed By: AC

Method Blank

% Recovery

Qualifier

Chloride

Chloride

2400

Result

16.0

Reporting Limit

16.0

Analyzed 03/13/2017

03/13/2017

ND

BS 416

104

True Value QC 400

RPD 3.77

Sample ID: S-5 1' (H700633-27)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyzed

Method Blank

% Recovery

Qualifier

Chloride

80.0

Result

48.0

Result

48.0

Result

16.0

Reporting Limit

03/13/2017

416

104

True Value QC

RPD

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

ND

BS

400

3.77

Sample ID: S-5 2' (H700633-28)

Reporting Limit Analyzed Method Blank

BS

% Recovery

True Value QC

RPD

Chloride

Chloride

16.0

Reporting Limit

16.0

03/13/2017

Analyzed

03/13/2017

ND

416

BS

416

104

400

3.77

Qualifier

Sample ID: S-5 3' (H700633-29)

Chloride, SM4500CI-B

Analyte

mg/kg

Analyzed By: AC

Method Blank

ND

% Recovery

104

True Value QC

400

RPD

3.77

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keena



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received: Reported: 03/10/2017

03/13/2017

Project Name: Project Number:

COTTON DRAW UNIT #255 700794.212.01

Project Location:

EDDY CO.

Sampling Date: Sampling Type: 03/08/2017 Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: S-5 4' (H700633-30)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte

Analyte

Analyte

Analyte

Analyte

Result

Reporting Limit

Analyzed

Method Blank

BS

% Recovery 104

True Value QC

Qualifier RPD

Chloride

Chloride

32.0

Result

13600

16.0

Reporting Limit

16.0

03/13/2017

ND

416

400

3.77

Sample ID: S-6 0' (H700633-31)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyzed

Method Blank

% Recovery

True Value QC 400

RPD

3.77

Qualifier

Sample ID: S-6 0.5' (H700633-32)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Method Blank

BS

% Recovery

104

Chloride

Result 800

16.0

Reporting Limit

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed

Analyzed

03/13/2017

Analyzed

03/13/2017

03/13/2017

ND

416

% Recovery

104

True Value QC

RPD

Qualifier

Result

Result

128

03/13/2017

ND

416

104

400

3.77

Sample ID: S-6 1' (H700633-33)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Method Blank

ND

ND

BS

416

416

True Value QC

400

RPD

3.77

Qualifier

Chloride

Chloride

320

Sample ID: S-6 2' (H700633-34)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Method Blank BS

% Recovery

104

True Value QC 400

RPD

3.77

Qualifier

Cardinal Laboratories

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Celeg & Keens



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

03/10/2017

Sampling Date:

03/08/2017

Reported:

03/13/2017

Sampling Type:

Soil

Project Name:

COTTON DRAW UNIT #255

Sampling Condition:

** (See Notes)

Project Number:

700794.212.01

Sample Received By:

Tamara Oldaker

Project Location:

Analyte

EDDY CO.

BS

Sample ID: S-6 3' (H700633-35)

Cilionae, Si4500Ci-b	Chl	oride,	SM4500CI-B
----------------------	-----	--------	------------

mg/kg

Analyzed By: AC

Result

Reporting Limit

Analyzed Method Blank

104

% Recovery

400

True Value QC

RPD

Chloride

80.0

16.0

03/13/2017

ND

416

3.77

Qualifier

Sample ID: S-6 4' (H700633-36)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/13/2017	ND	416	104	400	3.77	

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Celeg D. Keen



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

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Celey & Keine



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ion (initials)	B	`	Phone Result: ☐ Yes ☐ No Add'l Phone #: Fax Result: ☐ Yes ☐ No Add'l Fax #:	hall be dearned valved unless made in willing and recalved by Cardinal withh 30 days after completion of the applicable including which all the labeling in the completion of the properties of the completion of	tor tort, shall be limited to the amount paid by the client for the								3/8/m	OTHER:	PRESERV. SAMPLING · · · · · ·	Fax#:	Phone #:	: Zip:	City:	Address:	Attn:	Company: Talon/LPE	P.O.#:	BIG TO ANALYSIS REQUEST	Fage 10% H

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



Relinquished By: Date: Received By:	Time Wilson Time: 1 100 Harry	Relinguished By: Date: 0 or related to the performance of services personal person Colonial, regarding or where services in West Services (Received By:	umming and semingen. Commine simply and emerica seminate seminal, we say seminate seminal seminate in willing m The including those for negligence and may char means with about shall be demanded valided closes made in willing m The shall Cardinal be fasts for heidenfall or consequential dampass, including without final closes, business interriptions,	20 0,5" G	19 2-4	18 4' 6	7 3/	21 6 1	3	0.5	13 5-3 0'	12 4" (2)	11 5-2 3: 6	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	FOR LAB USE ONLY MATRIX	Project Location: Eddy Oth	ime: Cotton Maw Und #255	100794.212.01	-746-8768 Fax #: 575-746-8905	State: NM Zip: 88210	We.	erly Wilson		101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
		Phone Result:	d geas/ved by Cardinal within 30 days after completion of the applicable (associates, or loss of profits insured by client, its substitution, its substitution is not of profits insured by client, its substitution, its substitution and of the after of the others shafe drasters or otherwise.	the shall be limited to the amount trailed by the client for the									13/8/pm	ACID/BASE: ICE / COOL OTHER: DATE	SAMITING CONTRACTOR OF THE PROPERTY OF THE PRO	Phone #:	Stafe: Zip:	B (C)	Address:	Attn:	Company: Taion/LPE	P,O.带	BILL 10 ANALYSIS REQUEST	tage 20/ 4

Delivered By: (Cifcle One)
Sampler-UPS - Bus - Other:



(575) 393-2326 FAX (575) 393-2476	tage 50h T
Company Name: Talon/LPE	ANALYSIS REQUEST
Project Manager: Kimberly Wallan	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:
100794,242,81	City:
ame: Collon Du	State: Zip:
Project Location: FROU OTU	Phone共
Sampler Name: Kim William	Fax#
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING · W
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ONTAIN OUNDV STEWA IL	HER: ID/BASE I/COO! HER:
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PLEASE NOTES Liability and Samages. Castinata bissilly and elenits exclusive remedy for any sistin saising whether based in contract or for, shall be implied to be amount paid by the ellenit for the analyses. All clinins including those for negligence and say other cause whatsever shall be deemed which durings made in writing and near-what by Cardinal be fill the within 30 days after compellation of the applicable saylors. In no event-shall Cardinal be Table for Indeeding and analysis, in no event-shall Cardinal be Table for Indeeding and a canonequantal damages, including without limitation, business interruptions, loss of use, or loss of profits insured by client, its substitution,	at or tort, shall be lingled to the amount paid by the ellent for the not or tort, shall be lingled to the amount paid by the ellent for the not received by Cardink within 36 days after compellation of the applicable of the paid of the part of the state of the part of the state of the part of
official or successors arising out of or related to the pedformance of services hypeunder by Cardinal, regardless of whether such soling	t Yes
Keinguisped by:	☐ Yes ☐ No
Man Time:	CERTATION.
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Sampler - UPS - Bus - Other:

Circle One)



Sampler Name: Q Project Location: Project # 700° Phone #: 575-746-8768 Project Manager: Kimberly Company Name: Talon/LPE Project Name: Address: 408 W. Texas Ave Lab I.D. FOR LAB USE ONLY 32 8 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Sample I.D. Project Owner: Jelon Fax #: 575-746-8905 State: NM zip: 88210 Jelson illusive remedy for any walm asking whether based in contract or tort, shall be limited to the amount paid by the client for the flashes were shall be deemed valued unless made in willing and seasived by Cardinal within 30 days after completion of the applicable flashes were shall be deemed valued unless made in willing and seasived by Cardinal within 30 days after completion of the applicable. 225 000000 Received By: (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER MATRIX SOIL OIL. SLUDGE State: City: P.O. #: OTHER: Fax#: Attn: Phone #: Address: Company: ACID/BASE: PRESERV. ICE/.COOL OTHER: 三月二十二日 15日 Talon/LPE Zip: SAMPLING Phone Result: Fax Result: REMARKS: TIME Yes 8 8 0 ANALYSIS REQUEST

Cool Intact

Sampler - UPS - Bus - Other:

Delivered By:

(eno elado)

Received By: