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Closure Report

Cotton Draw Unit #114
|30-015-37410|2RP-4266|

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

September 7, 2017

Mr. Mike Shoemaker
Devon Energy Corporation
6488 Seven Rivers Hwy.
Artesia, New Mexico 88210

Subject: **Closure Report**
Cotton Draw Unit #114
[30-015-37410| 2RP-4266]

Dear Mr. Shoemaker,

Devon Energy Corporation (Devon) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remediation activities and closure request are submitted herein.

Site Information

The Cotton Draw Unit #114 is located approximately forty-five (45) miles southeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter B, Section 34, Township 24 South and Range 31 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.1801186 North and -103.7635269 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. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

The New Mexico Office of the State Engineer (NMOSE) Water Rights Reporting System indicates that groundwater in the project vicinity is 429-feet below ground surface (BGS). 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, 5,000 mg/kg for TPH and the recommended guideline for Total Chlorides is 1,000 mg/kg.

Incident Description

On June 7, 2017, while maintenance was being performed at the facility a spark ignited a fire. The tank battery was destroyed resulting the release of approximately 360bbls of produced water and 450bbls of oil. A vacuum truck was dispatched to the site and was able to recover approximately 60bbls of produced water and 60bbls of oil. Following the recovery of the standing fluid a backhoe was mobilized to the site to scrape up the saturated soil and remove the remnants of the tank battery.

Talon mobilized personnel to conduct a site assessment and to vertically and horizontally delineate the impacted area. The results of our soil sampling events are summarized in the tables below. See [Appendix IV](#) for complete report of laboratory results.

Laboratory Results

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

Site Assessment

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	<0.300	352	<10.0	450
S-2	0	<0.300	48	<10.0	<10.0
S-3	0	<0.300	7860	<10.0	63.7
S-4	0	<0.300	560	<10.0	<10.0
S-5	0	<0.300	16000	<10.0	4050
S-6	0	<0.300	48	<10.0	22
S-7	0	<0.300	3040	<10.0	1520
S-7	1	--	960	--	--
S-7	2	--	448	--	--
S-7	3	--	80	--	--
S-8	0	<0.300	272	<10.0	10.2
S-9	0	<0.300	32	<10.0	
S-10	0	<0.300	48	<10.0	198
S-11	0	--	416	--	--
S-11	1	--	96	--	--
S-12	2	--	128	--	--
S-12	3	--	32	--	--
S-13	1	--	32	--	--
S-13	2	--	32	--	--
S-14	0	--	96	--	--
S-15	0	--	80	--	--
S-16	0	--	32	--	--
S-17	0	--	32	--	--
S-18	0	--	32	--	--

Confirmation Soil Sampling

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-3	1.5	--	480	--	--
S-5	1.5	--	48	--	--

Remedial Actions Taken

- The impacted area in the vicinity of sample locations S-3 and S-5 were excavated to a depth of 1.5-feet BGS.
- A confirmation soil sample was taken at sample location S-3 and S-5 to confirm that all of the chloride impacts at these locations were below NMOCD RRAL's.
- The impacted area in the vicinity of sample locations S-7, S-11, and S-12 were excavated to a depth of 1-2 feet BGS.
- All of the excavated material was hauled to an NMOCD approved solid waste disposal facility.
- Upon NMOCD review of the confirmation soil sampling results, permission to backfill was granted. The excavation was backfilled with caliche and contoured to match the surrounding location.

Closure


On behalf of Devon Energy Company we respectfully request that no further actions be required at this site and that closure with regard to this incident be granted.

If we can provide additional information or be of further assistance, please contact our office at (575)-746-8768.

Respectfully submitted,

TALON/LPE


Sheldon Hitchcock
Project Manager


David J. Adkins
District Manager

Attachments

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

APPENDIX I

SITE PLAN

Cotton Draw Unit #114

Devon Energy

Legend

- Impacted Area
- Sample Location



APPENDIX II

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 Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02574			ED	1	1	2	02	25S	31E	618092	3559494*	2118			
C 02571			ED	4	1	2	02	25S	31E	618292	3559294*	2400	860		
C 02573			ED	1	4	2	02	25S	31E	618499	3559091*	2690			
C 02572			ED	4	2	2	02	25S	31E	618695	3559294*	2704	852		
C 02569			ED	4	4	2	02	25S	31E	618699	3558891*	2973	1016		
C 03830 POD1	CUB		ED	4	2	4	02	25S	31E	618632	3558432	3267	450		
C 02570			ED	4	2	4	02	25S	31E	618704	3558489*	3270	895		
C 02568			ED	4	3	1	01	25S	31E	619103	3558892*	3274	1025		
C 02440	C		ED		2	3	10	24S	31E	616103	3566599*	5650	350		
C 03891 POD1	CUB		ED	4	4	2	01	25S	30E	610608	3558890	6314	635	429	206

Average Depth to Water: **429 feet**

Minimum Depth: **429 feet**

Maximum Depth: **429 feet**

Record Count: 10

Basin/County Search:

County: Eddy

UTM NAD83 Radius Search (in meters):

Easting (X): 616571

Northing (Y): 3560968

Radius: 6350

*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.

APPENDIX III
INITIAL C-141
&
FINAL C-141

Page 11 of 40
Received by OCD: 4/8/2020 12:05:37 PM
Released to Imaging: 9/14/2021 9:42:11 AM

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

NM OIL CONSERVATION
ARTESIA DISTRICT

Form C-141
Revised August 8, 2011

JUN 21 2017

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

RECEIVED

Release Notification and Corrective Action

NAB1718029845

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Devon Energy Production Company	Contact	Matt Nettles, Production Foreman
Address	6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No.	575-513-5767
Facility Name	Cotton Draw Unit 114	Facility Type	Oil

Surface Owner	Federal	Mineral Owner	Federal	API No	30-015-37410
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	34	24S	31E	330'	FNL	1980'	FEL	Eddy

Latitude: 32.1801186

Longitude: -103.7635269

NATURE OF RELEASE

Type of Release Produced Water & Oil	Volume of Release 360bbls produced water 450bbls oil	Volume Recovered 60bbls produced water 60bbls oil
Source of Release Tanks at facility	Date and Hour of Occurrence June 7, 2017 @ 2:45PM	Date and Hour of Discovery June 7, 2017 @ 2:45 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Shelly Tucker, BLM Mike Bratcher, OCD & Crystal Weaver, OCD	
By Whom? Mike Shoemaker, EHS Representative	Date and Hour Shelly Tucker, BLM June 7, 2017 @ 6:04 PM Mike Bratcher, OCD June 7, 2017 @ 6:08 PM Crystal Weaver, OCD June 7, 2017 @ 6:09 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse N/A	

Please refer to the New Mexico
Conservation Division Website
updated form(s) at:
<http://www.emnrd.state.nm.us/OCD/forms.html> Thank

If a Watercourse was Impacted, Describe Fully.* N/A

Describe Cause of Problem and Remedial Action Taken.*

Maintenance was being performed at the facility when a spark ignited. The facility was immediately evacuated and the fire department was contacted to extinguish the fire.

Describe Area Affected and Cleanup Action Taken.*

Approximately 360bbls of produced water and 450bbls of oil were released from the tanks. A portion of these fluids burned in the fire and a portion was released to the containment. The fluid then left containment on the North side of the pad running in a westerly direction and impacted an area that is 30'x30'. The fluid then continued to travel approximately 200' down the lease road in the barrow ditch. A vacuum truck was dispatched and recovered approximately 60 bbls of produced water and 60 bbls of oil. An environmental contractor will be contacted to assist with delineation and remediation.

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: Sheila Fisher	OIL CONSERVATION DIVISION		
Printed Name: Sheila Fisher	Signed By: <i>Mike Bratcher</i>		
Title: Field Admin Support	Approved by Environmental Specialist:		
E-mail Address: Sheila.fisher@dmv.com	Approval Date: 6/28/17	Expiration Date: N/A	
Date:	Phone: 575.748.1829	Conditions of Approval: See attached	Attached <input type="checkbox"/>

22P-4206

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

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Devon Energy Production Company	Contact Mike Shoemaker
Address 6488 Seven River Hwy. Artesia, NM 88210	Telephone No. 575-746-5566
Facility Name Cotton Draw Unit 114	Facility Type Tank Battery

Surface Owner BLM	Mineral Owner Federal	API No. 30-015-37410
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LOCATION OF RELEASE

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

Latitude 32.1801186 Longitude -103.7635269 NAD83

NATURE OF RELEASE

Type of Release Mixed Fluids	Volume of Release 360bbls produced water 450bbls oil	Volume Recovered 60bbls produced water 60bbls oil
Source of Release Tank Battery	Date and Hour of Occurrence 6/7/2017 @ 2:45pm	Date and Hour of Discovery 6/7/2017 2:45pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Shelly Tucker-BLM Mike Bratcher & Crystal Weaver-NMOCD	
By Whom? Mike Shoemaker, EHS Representative	Date and Hour Shelly Tucker-BLM 6/7/2017 @ 6:04pm Mike Bratcher & Crystal Weaver-NMOCD 6/7/2017 @ 6:08pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

While maintenance was being performed a spark ignited a fire at the facility. The facility was evacuated and the fire department was contacted to extinguish the fire.

Describe Area Affected and Cleanup Action Taken.*

The tank battery was destroyed by the fire. Approximately 360bbls of produced water and 450bbls of oil were released from the tank battery. A vacuum truck was utilized to recover the standing fluid. Approximately 60bbls of produced water and 60bbls of oil were recovered. A backhoe was utilized to remove the remaining debris from the tank battery and scrape up the saturated soil. Talon/LPE mobilized personnel to the site to conduct a site assessment and vertical/horizontal delineation of the impacted area. Remediation of the impacted soil was carried out in accordance to NMOCD & BLM guidelines and stipulations.

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>Mike Shoemaker</i>		OIL CONSERVATION DIVISION	
Printed Name: Mike Shoemaker		Approved by Environmental Specialist: <i>Bradford Billings</i>	
Title: EHS Representative		Approval Date: 09/14/2021	Expiration Date:
E-mail Address: mike.shoemaker@dvn.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 9/7/2017 Phone: 575-746-5566			

Attach Additional Sheets If Necessary

nAB1718029845

APPENDIX IV

LABORATORY RESULTS



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

July 26, 2017

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: COTTON DRAW UNIT #114

Enclosed are the results of analyses for samples received by the laboratory on 07/25/17 16:30.

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 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



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

Analytical Results For:

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

Received:	07/25/2017	Sampling Date:	07/24/2017
Reported:	07/26/2017	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT #114	Sampling Condition:	** (See Notes)
Project Number:	700794.230.01	Sample Received By:	Tamara Oldaker
Project Location:	B-34-24-31		

Sample ID: S -1 0' (H701942-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2017	ND	2.15	107	2.00	0.414	
Toluene*	<0.050	0.050	07/26/2017	ND	2.01	101	2.00	1.38	
Ethylbenzene*	<0.050	0.050	07/26/2017	ND	2.07	103	2.00	0.170	
Total Xylenes*	<0.150	0.150	07/26/2017	ND	6.23	104	6.00	0.372	
Total BTX	<0.300	0.300	07/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/26/2017	ND	448	112	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	07/26/2017	ND	190	94.8	200	1.18	
DRO >C10-C28	450	10.0	07/26/2017	ND	207	103	200	2.16	

Surrogate: 1-Chlorooctane 83.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 94.6 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/25/2017
 Reported: 07/26/2017
 Project Name: COTTON DRAW UNIT #114
 Project Number: 700794.230.01
 Project Location: B-34-24-31

Sampling Date: 07/24/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: S -2 0' (H701942-02)

BTEx 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/26/2017	ND	2.15	107	2.00	0.414		
Toluene*	<0.050	0.050	07/26/2017	ND	2.01	101	2.00	1.38		
Ethylbenzene*	<0.050	0.050	07/26/2017	ND	2.07	103	2.00	0.170		
Total Xylenes*	<0.150	0.150	07/26/2017	ND	6.23	104	6.00	0.372		
Total BTEx	<0.300	0.300	07/26/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/26/2017	ND	448	112	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	07/26/2017	ND	190	94.8	200	1.18	
DRO >C10-C28	<10.0	10.0	07/26/2017	ND	207	103	200	2.16	

Surrogate: 1-Chlorooctane 98.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 104 % 34.7-157

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/25/2017	Sampling Date:	07/24/2017
Reported:	07/26/2017	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT #114	Sampling Condition:	** (See Notes)
Project Number:	700794.230.01	Sample Received By:	Tamara Oldaker
Project Location:	B-34-24-31		

Sample ID: S -3 0' (H701942-03)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/26/2017	ND	2.15	107	2.00	0.414		
Toluene*	<0.050	0.050	07/26/2017	ND	2.01	101	2.00	1.38		
Ethylbenzene*	<0.050	0.050	07/26/2017	ND	2.07	103	2.00	0.170		
Total Xylenes*	<0.150	0.150	07/26/2017	ND	6.23	104	6.00	0.372		
Total BTX	<0.300	0.300	07/26/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7860	16.0	07/26/2017	ND	448	112	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	07/26/2017	ND	190	94.8	200	1.18		
DRO >C10-C28	63.7	10.0	07/26/2017	ND	207	103	200	2.16		

Surrogate: 1-Chlorooctane 86.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 89.4 % 34.7-157

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/25/2017	Sampling Date:	07/24/2017
Reported:	07/26/2017	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT #114	Sampling Condition:	** (See Notes)
Project Number:	700794.230.01	Sample Received By:	Tamara Oldaker
Project Location:	B-34-24-31		

Sample ID: S -4 0' (H701942-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2017	ND	2.15	107	2.00	0.414	
Toluene*	<0.050	0.050	07/26/2017	ND	2.01	101	2.00	1.38	
Ethylbenzene*	<0.050	0.050	07/26/2017	ND	2.07	103	2.00	0.170	
Total Xylenes*	<0.150	0.150	07/26/2017	ND	6.23	104	6.00	0.372	
Total BTEX	<0.300	0.300	07/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	07/26/2017	ND	448	112	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	07/26/2017	ND	190	94.8	200	1.18	
DRO >C10-C28	<10.0	10.0	07/26/2017	ND	207	103	200	2.16	

Surrogate: 1-Chlorooctane 95.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 92.5 % 34.7-157

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*=Accredited Analyte

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Celestine D. Keene

Celestine D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/25/2017	Sampling Date:	07/24/2017
Reported:	07/26/2017	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT #114	Sampling Condition:	** (See Notes)
Project Number:	700794.230.01	Sample Received By:	Tamara Oldaker
Project Location:	B-34-24-31		

Sample ID: S -5 0' (H701942-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2017	ND	2.15	107	2.00	0.414	
Toluene*	<0.050	0.050	07/26/2017	ND	2.01	101	2.00	1.38	
Ethylbenzene*	<0.050	0.050	07/26/2017	ND	2.07	103	2.00	0.170	
Total Xylenes*	<0.150	0.150	07/26/2017	ND	6.23	104	6.00	0.372	
Total BTX	<0.300	0.300	07/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 107 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16000	16.0	07/26/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/26/2017	ND	190	94.8	200	1.18		
DRO >C10-C28	4050	10.0	07/26/2017	ND	207	103	200	2.16		

Surrogate: 1-Chlorooctane 75.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 164 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/25/2017
 Reported: 07/26/2017
 Project Name: COTTON DRAW UNIT #114
 Project Number: 700794.230.01
 Project Location: B-34-24-31

Sampling Date: 07/24/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: S -6 0' (H701942-06)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2017	ND	2.15	107	2.00	0.414	
Toluene*	<0.050	0.050	07/26/2017	ND	2.01	101	2.00	1.38	
Ethylbenzene*	<0.050	0.050	07/26/2017	ND	2.07	103	2.00	0.170	
Total Xylenes*	<0.150	0.150	07/26/2017	ND	6.23	104	6.00	0.372	
Total BTX	<0.300	0.300	07/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 107 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/26/2017	ND	432	108	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	07/26/2017	ND	190	94.8	200	1.18	
DRO >C10-C28	22.0	10.0	07/26/2017	ND	207	103	200	2.16	

Surrogate: 1-Chlorooctane 89.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 88.7 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/25/2017
 Reported: 07/26/2017
 Project Name: COTTON DRAW UNIT #114
 Project Number: 700794.230.01
 Project Location: B-34-24-31

Sampling Date: 07/24/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: S-7 0' (H701942-07)

BTEX 8021B mg/kg			Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2017	ND	2.15	107	2.00	0.414	
Toluene*	<0.050	0.050	07/26/2017	ND	2.01	101	2.00	1.38	
Ethylbenzene*	<0.050	0.050	07/26/2017	ND	2.07	103	2.00	0.170	
Total Xylenes*	<0.150	0.150	07/26/2017	ND	6.23	104	6.00	0.372	
Total BTEX	<0.300	0.300	07/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 72-148

Chloride, SM4500Cl-B mg/kg			Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	07/26/2017	ND	432	108	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	07/26/2017	ND	190	94.8	200	1.18	
DRO >C10-C28	1520	10.0	07/26/2017	ND	207	103	200	2.16	

Surrogate: 1-Chlorooctane 92.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 120 % 34.7-157

Sample ID: S-7 1' (H701942-08)

Chloride, SM4500Cl-B mg/kg			Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	07/26/2017	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/25/2017
 Reported: 07/26/2017
 Project Name: COTTON DRAW UNIT #114
 Project Number: 700794.230.01
 Project Location: B-34-24-31

Sampling Date: 07/24/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: S -7 2' (H701942-09)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	07/26/2017	ND	432	108	400	0.00	

Sample ID: S -7 3' (H701942-10)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/26/2017	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/25/2017	Sampling Date:	07/24/2017
Reported:	07/26/2017	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT #114	Sampling Condition:	** (See Notes)
Project Number:	700794.230.01	Sample Received By:	Tamara Oldaker
Project Location:	B-34-24-31		

Sample ID: S -8 0' (H701942-11)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2017	ND	2.15	107	2.00	0.414	
Toluene*	<0.050	0.050	07/26/2017	ND	2.01	101	2.00	1.38	
Ethylbenzene*	<0.050	0.050	07/26/2017	ND	2.07	103	2.00	0.170	
Total Xylenes*	<0.150	0.150	07/26/2017	ND	6.23	104	6.00	0.372	
Total BTX	<0.300	0.300	07/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/26/2017	ND	432	108	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	07/26/2017	ND	190	94.8	200	1.18	
DRO >C10-C28	10.2	10.0	07/26/2017	ND	207	103	200	2.16	

Surrogate: 1-Chlorooctane 74.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 77.3 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/25/2017
 Reported: 07/26/2017
 Project Name: COTTON DRAW UNIT #114
 Project Number: 700794.230.01
 Project Location: B-34-24-31

Sampling Date: 07/24/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: S -9 0' (H701942-12)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2017	ND	2.15	107	2.00	0.414	
Toluene*	<0.050	0.050	07/26/2017	ND	2.01	101	2.00	1.38	
Ethylbenzene*	<0.050	0.050	07/26/2017	ND	2.07	103	2.00	0.170	
Total Xylenes*	<0.150	0.150	07/26/2017	ND	6.23	104	6.00	0.372	
Total BTX	<0.300	0.300	07/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 113 % 72-148

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	07/26/2017	ND	432	108	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	07/26/2017	ND	190	94.8	200	1.18	
DRO >C10-C28	<10.0	10.0	07/26/2017	ND	207	103	200	2.16	

Surrogate: 1-Chlorooctane 95.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 96.1 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/25/2017	Sampling Date:	07/24/2017
Reported:	07/26/2017	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT #114	Sampling Condition:	** (See Notes)
Project Number:	700794.230.01	Sample Received By:	Tamara Oldaker
Project Location:	B-34-24-31		

Sample ID: S -10 0' (H701942-13)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2017	ND	2.15	107	2.00	0.414	
Toluene*	<0.050	0.050	07/26/2017	ND	2.01	101	2.00	1.38	
Ethylbenzene*	<0.050	0.050	07/26/2017	ND	2.07	103	2.00	0.170	
Total Xylenes*	<0.150	0.150	07/26/2017	ND	6.23	104	6.00	0.372	
Total BTEX	<0.300	0.300	07/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/26/2017	ND	432	108	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	07/26/2017	ND	190	94.8	200	1.18	
DRO >C10-C28	198	10.0	07/26/2017	ND	207	103	200	2.16	

Surrogate: 1-Chlorooctane 86.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 86.3 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

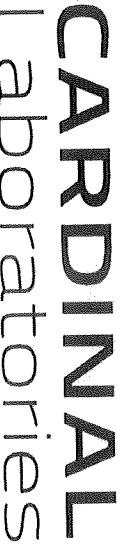
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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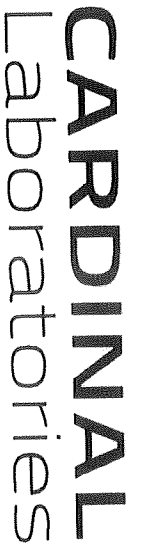
Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Rush



Released to Imaging: 9/14/2021 9:42:11 AM

(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company: Talon/LPE

Attn:

Address:

State:

Phone #:

Fax #:

MATRIX

PRESERV

SAMPLING

Sample ID:

OTHER.

TIME

chlorides

Phone Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Phone #:
Easy Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Fax #:

2

CHECKED BY: _____
(Initials)

YES NO
✓ 2. 775

Rush



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

August 11, 2017

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: COTTON DRAW #114

Enclosed are the results of analyses for samples received by the laboratory on 08/03/17 15:10.

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 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,

Celest D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/03/2017
 Reported: 08/11/2017
 Project Name: COTTON DRAW #114
 Project Number: 700794.230.01
 Project Location: EDDY CTY

Sampling Date: 08/03/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S -11 0' (H702110-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	08/07/2017	ND	432	108	400	3.64	

Sample ID: S -11 1' (H702110-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/07/2017	ND	432	108	400	3.64	

Sample ID: S -12 2' (H702110-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/07/2017	ND	432	108	400	3.64	

Sample ID: S -12 3' (H702110-04)

Chloride, SM4500CI-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	08/07/2017	ND	432	108	400	3.64	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/03/2017	Sampling Date:	08/03/2017
Reported:	08/11/2017	Sampling Type:	Soil
Project Name:	COTTON DRAW #114	Sampling Condition:	Cool & Intact
Project Number:	700794.230.01	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CTY		

Sample ID: S -13 1' (H702110-05)

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	08/07/2017	ND	432	108	400	3.64	

Sample ID: S -13 2' (H702110-06)

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	08/07/2017	ND	432	108	400	3.64	

Sample ID: S -14 0' (H702110-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/07/2017	ND	432	108	400	3.64	

Sample ID: S -15 0' (H702110-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/07/2017	ND	448	112	400	0.00	

Sample ID: S -16 0' (H702110-09)

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	08/07/2017	ND	448	112	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/03/2017
 Reported: 08/11/2017
 Project Name: COTTON DRAW #114
 Project Number: 700794.230.01
 Project Location: EDDY CTY

Sampling Date: 08/03/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S -17 0' (H702110-10)

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	08/07/2017	ND	448	112	400	0.00	

Sample ID: S -18 0' (H702110-11)

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	08/07/2017	ND	448	112	400	0.00	

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**Notes and Definitions**

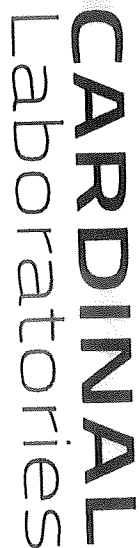
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

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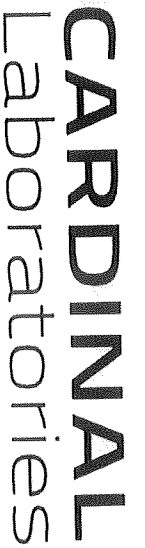
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE		P.O. #:	
Project Manager: Kimberly Wilson		Company: Talon/LPE	
Address: 408 W. Texas Ave.		Attn:	
City: Artesia		Address:	
Phone #: 575-746-8768		City:	
Fax #: 575-746-8905		State:	
Project #: 760794.230.01		Zip:	
Project Name: Cotton Draw 114		Phone #:	
Project Location:		Fax #:	
Sampler Name: Kimberly Wilson		PRESERV:	
FOR LAB USE ONLY		SAMPLING	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST		
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				ACID/BASE:	ICE / COOL
H702110	1	5-11 0'	6	1							8/31/17	12:00	✓	Chlorides
	2	5-11 1'										12:05	✓	
	3	5-12 2'										9:35	✓	
	4	5-12 3'										9:37	✓	
	5	5-13 1'										9:00	✓	
	6	5-13 2'										9:05	✓	
	7	5-14 0'										11:45	✓	
	8	5-15 0'										12:25	✓	
	9	5-16 0'										1:00	✓	
	10	5-17 0'										1:15	✓	

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Relinquished By: <u>Kimberly Wilson</u> Date: <u>8/31/17</u> Time: <u>3:10</u>	Received By: <u>Quanta Clark</u> Date: _____ Time: _____
REMARKS: All Jar 14615, + 1 samples received from work order H702041. Revised COC received 8/10/17.	



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476

[illegible]



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

August 15, 2017

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: COTTON DRAW #114

Enclosed are the results of analyses for samples received by the laboratory on 08/15/17 9:50.

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 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



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

Analytical Results For:

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

Received: 08/15/2017
 Reported: 08/15/2017
 Project Name: COTTON DRAW #114
 Project Number: 700794.230.01
 Project Location: EDDY CTY

Sampling Date: 08/14/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: S -3 (H702149-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	08/15/2017	ND	400	100	400	3.92	

Sample ID: S -5 (H702149-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/15/2017	ND	400	100	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

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Celey D. Keene, Lab Director/Quality Manager

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 4873

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 4873
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	None	9/14/2021