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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

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Received by OCD: 4/8/2020 12:05:37 PM

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		

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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.

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### 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



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### 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 Sub-		Q	0							Donth	Depth Water
POD Number	Code basin C	County				Tws	Rng	Х	Υ	Distance	- A A B - 100 - 10	Water Column
C 02574		ED	1 1	2	02	25S	31E	618092	3559494*	2118		
C 02571		ED	4	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 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	2 4	02	25S	31E	618632	3558432 🌍	3267	450	
C 02570		ED	4 2	2 4	02	25S	31E	618704	3558489* 🌑	3270	895	
C 02568		ED	4 3	3 1	01	25S	31E	619103	3558892* 🌍	3274	1025	
C 02440	С	ED	2	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

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Record Count: 10

Basin/County Search:

County: Eddy

UTMNAD83 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.

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APPENDIX III
INITIAL C-141
&
FINAL C-141

### State of New Mexico **Energy Minerals and Natural Resources**

NM OIL CONSERVATION ARTESIA DISTRICT

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. June 21 2017 to appropriate District Office in accordance with 19.15.29 NMAC.

1220 S. St. Fran	cis Dr., Santa	a Fe, NM 87505	5	Sa	anta Fe	, NM 875	05	RE	CEIVED				
			Relo	ease Notific	cation	and Co	rrective A	ction	ì				
NABI	71802	19845	•			OPERA?	<b>TOR</b>			l Report		Final R	eport
Name of Co	ompany D	Devon Energy	Product	ion Company	1137	Contact Ma	tt Nettles, Prod	uction	Foreman				
Address 64	88 Seven	Rivers Hwy	Artesia, l	NM 88210			No. 575-513-57	67					
Facility Na	me Cotton	Draw Unit	114			Facility Ty	pe Oil						
Surface Ov	vner Fede	ral		Mineral (	Owner	Federal			API No	30-015-3	7410		
				LOCA	TOITA	OF REI	LEASE						
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	1	West Line	County			
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Describe Ca Maintenance extinguish th	was being	blem and Rer performed at	nedial Ac	tion Taken.* y when a spark igi	nited. Th	ne facility wa	s immediately ev	acuated	and the fire	departmen	t was co	ontacted t	to
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regulations a public health should their or the enviro	all operators n or the env operations onment. In	s are required ironment. The have failed to	to report a e acceptan adequatel OCD acce	e is true and comp and/or file certain ace of a C-141 rep y investigate and ptance of a C-141	release n ort by th remediat	otifications a e NMOCD n e contaminat	nd perform corre narked as "Final I ion that pose a th	ctive ac Report" reat to g	tions for rel does not rel ground wate	eases which ieve the ope r, surface w	n may en erator of eater, hu	ndanger f liability man heal	,
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Printed Nam	ne: Sheila F	isher				Approved by	Environmental S	Speciali	st:	· · · · · · · · · · · · · · · · · · ·			
Title: Field						Approval Da	ne: 4128/17		Expiration	Date: N	/A		
E-mail Add	ress: Sheila	.fisher@dvn.	com	,,,,		Conditions of	of Approval:		, <u>.</u> 1	Attache	d 🗍		

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Date:

Phone: 575.748.1829

See) attached

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District 1
1625 N. French Dr., Hobbs, NM 88240
District II
88 811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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

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

			Rele	ease Notific	ation	and Co	rrective A	ction			
						<b>OPERA</b>	FOR		Initia	nl Report 🔲 Fina	l Report
		von Energy					e Shoemaker				
		Liver Hwy. A		M 88210			No. 575-746-556	56			
		Draw Unit 1	14				e Tank Battery				
Surface Ow	ner BLM	****		Mineral O	wner F	ederal			API No	. 30-015-37410	
				LOCA	TION	OF REI	LEASE				
Unit Letter B	Section 34	Township 24S	Range 31E	Feet from the 330		South Line North	Feet from the 1980	k .	est Line ast	County Eddy	
		L	atitude_	32.1801186		gitude103		NAI	D83		
				NAT	URE	OF RELI					
Type of Rele	ase Mixed I	Fluids				Volume of 360bbls pro 450bbls oil	oduced water		Volume F 60bbls pro 60bbls oil	oduced water	
Source of Re	lease Tank	Battery				1	our of Occurrenc	e		Hour of Discovery	
Was Immedia	ate Notice (	iven?				6/7/2017 @ If YES, To			6/7/2017	2:45pm	
,, 40 222			Yes [	] No 🔲 Not Re	quired	Shelly Tuc	ker-BLM	3.73	10.0D		
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If a Watercou	ırse was Im	pacted, Descri	be Fully.	<b>k</b>		1					
	enance was	em and Remed being perform			he facili	ty. The facili	ty was evacuated	and the f	fire departi	ment was contacted to	
The tank batt truck was uti remove the re	ery was des lized to reco emaining de norizontal d	over the standi bris from the	fire. Appi ng fluid. ank batte	oximately 360bbl Approximately 60 ry and scrape up t	bbls of p he satura	oroduced wat ated soil. Tal	er and 60bbls of on the contraction of the contract	oil were 1 1 personr	recovered. nel to the s	n the tank battery. A vace A backhoe was utilized ite to conduct a site asses NMOCD & BLM guidel	to ssment
regulations a public health should their or the enviro	Il operators or the envioperations had not in the contraction of the c	are required to ronment. The tave failed to a	report an acceptand dequately CD accep	nd/or file certain r ce of a C-141 repo investigate and r	elease no ort by the emediate	otifications a NMOCD m contaminati	nd perform correct arked as "Final R on that pose a thr	ctive action eport" do eat to gro	ons for releases not releases not releases	suant to NMOCD rules at eases which may endang ieve the operator of liabil r, surface water, human hompliance with any othe	er lity nealth
				-			OIL CON	SERV	ATION	DIVISION	,
Signature:	Mike	Shoema	rker								
Printed Nam						Approved by	Environmental S	pecialist	:Brac	lford Billing	is
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· Attach Addi	ttional She	ets If Necess	ary				nA	B1718	029845		

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### APPENDIX IV LABORATORY RESULTS



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 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.

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. Keens

Celey D. Keene

Lab Director/Quality Manager

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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: Project Number: COTTON DRAW UNIT #114

Project Location:

700794.230.01 B-34-24-31

94.6 %

34.7-157

Sampling Date:

07/24/2017

Sampling Type:

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

Tamara Oldaker

Soil

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

BTEX 8021B	mg/	kg	Analyze	d 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 (PIL	104 9	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 28.3-16	4						

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Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Celeg & Kreene

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: Project Number: **COTTON DRAW UNIT #114** 

700794.230.01

Project Location:

B-34-24-31

Sampling Date:

Sampling Type:

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

Tamara Oldaker

07/24/2017

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

BTEX 8021B	mg/	'kg	Analyze	d 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	

07/26/2017

ND

Surrogate: 4-Bromofluorobenzene (PIL

108 %

<0.300

72-148

0,300

Chloride, SM4500Cl-B	mg	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	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

Total BTEX

104%

34.7-157

Cardinal Laboratories

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\*=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 whatspever 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.

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: Project Number: **COTTON DRAW UNIT #114** 

Project Location:

700794.230.01 B-34-24-31 Sampling Date:

07/24/2017

Sampling Type:

Soil

Sampling Condition:

\*\* (See Notes)

Sample Received By:

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyze	d 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 (PIL	107 %	6 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	86.49	% 28.3-16	··4						
Surrogate: 1-Chlorooctadecane	89.4 9	% 34.7-15	7						

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\*=Accredited Analyte

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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: Project Number: COTTON DRAW UNIT #114

Project Location:

700794.230.01 B-34-24-31

Sampling Date:

07/24/2017

Sampling Type:

Soil

Sampling Condition:

\*\* (See Notes)

Sample Received By:

Tamara Oldaker

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

BTEX 8021B	mg/kg		Analyze	d 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 (PIL	109	% 72-148	}						
Chloride, SM4500CI-B	mg/	/kg	Analyze	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		Analyze	d 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	

ND

207

103

200

2.16

Surrogate: 1-Chlorooctane

DRO >C10-C28

95.0 %

<10.0

28.3-164 34.7-157 07/26/2017

10.0

92.5 % Surrogate: 1-Chlorooctadecane

Cardinal Laboratories

Received by OCD: 4/8/2020 12:05:37 PM

\*=Accredited Analyte

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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: Project Number: COTTON DRAW UNIT #114

Project Location:

700794.230.01 B-34-24-31

Sampling Date:

07/24/2017

Sampling Type:

Soil

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

Tamara Oldaker

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

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					

rogata: A Promofluovohovzova (PIF

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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Received:

07/25/2017

Reported:

07/26/2017

Project Name: Project Number: **COTTON DRAW UNIT #114** 

Project Location:

700794.230.01 B-34-24-31

Sampling Date:

07/24/2017

Sampling Type:

Soil

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

Tamara Oldaker

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

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 (1	$^{o}ID$
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1070/

72 149

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	015M 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

Received by OCD: 4/8/2020 12:05:37 PM

Surrogate: 1-Chlorooctadecane

88.7%

34.7-157

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Received:

07/25/2017

Reported:

07/26/2017

Project Name: Project Number: COTTON DRAW UNIT #114

Project Location:

700794.230.01 B-34-24-31

Sampling Date:

07/24/2017

Sampling Type:

Sampling Condition:

Soil \*\* (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-Rromofluorohenzene (PIL

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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### Received by OCD: 4/8/2020 12:05:37 PM

### **CARDINAL** Laboratories

### 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: Project Number: COTTON DRAW UNIT #114

Project Location:

700794.230.01 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		/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	

Cardinal Laboratories

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

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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: Project Number: COTTON DRAW UNIT #114

Project Location:

700794.230.01 B-34-24-31 Sampling Date:

07/24/2017

Sampling Type:

Soil

Sampling Condition:

\*\* (See Notes)

Sample Received By:

Tamara Oldaker

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

BTEX 8021B	mg/	'kg	Analyze	d By: MS		OFFICE ACTION AND ADMINISTRATION ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION ADMINISTRATION AND ADM			
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 (PIL	111 9	% 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	Analyze	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 & Kena

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: Project Number: COTTON DRAW UNIT #114

Project Location:

700794.230.01 B-34-24-31

96.1 %

34.7-157

Sampling Date:

07/24/2017

Sampling Type:

Soil

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

Tamara Oldaker

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

BTEX 8021B	mg/	mg/kg		d By: MS		produka kada kada kulono a Arebana kada kalana a abasa ma			
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 (PIL	113 9	% 72-148	ı						
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	Analyze	d 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	% 28.3-16	4						

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Surrogate: 1-Chlorooctadecane

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Celey & Keine

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: Sample Received By: \*\* (See Notes)

Tamara Oldaker

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

mg/kg		Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	07/26/2017	ND	2.15	107	2.00	0.414	
<0.050	0.050	07/26/2017	ND	2.01	101	2.00	1.38	
<0.050	0.050	07/26/2017	ND	2.07	103	2.00	0.170	
<0,150	0.150	07/26/2017	ND	6.23	104	6.00	0.372	
<0.300	0.300	07/26/2017	ND					
	Result <0.050 <0.050 <0.050 <0.150	Result Reporting Limit <0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150	Result         Reporting Limit         Analyzed           <0.050	Result         Reporting Limit         Analyzed         Method Blank           <0.050	<0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <0.050

Surrogate: 4-Bromofluorobenzene (PIL

112%

72-148

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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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### **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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Clay & Kena



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 14 of 15

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

Talon/LPE   P.O. #   Company: Talon/LPE   P.O. #   Company: Talon/LPE   P.O. #   Company: Talon/LPE   Company: Talon/LPE   P.O. #   City:	(010) (010		Contraction of the contraction o	ANALYSIS REQUEST
State: NM Zip: 88210 Attn:  Fax #: 575-746-8905 Address:  Project Owner: Devon City:  Project Owner: Devon City:  Phone #:  Phone #:  PRESERV SAMPLING  GIVE OTHER:  GIVE OTHE	Company Name: Talon/LPE			
State: NM zip: 88210 Attn:  Fax #: 575-746-8905 Address:  Project Owner: Devon City:  Project Owner: Devon State: Zip:  Phone #:  Fax #:  GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:  GROUNDWATER GROUNDWATER:  GROUNDWATER WASTEWATER SOIL OTHER:  GROUNDWATER TIME	Project Manager: Sheldon Hitcho	cock		
State: NM   Zip: 88210   Atm:	Address: 408 W. Texas A	ve.	company: Talon/LPE	
-746-8768 Fax #: 575-746-8905 Address:  24.230.01 Project Owner: Devon  State: Zip:  Phone #:  Fax #:  Sheldon Hitchcock  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Gily:  Fax #:  F	сity: Artesia	State: NM	Attn:	
Project Owner: Devon  City:    Injt #114     State:   Zip:	Phone #: 575-746-8768	Fax #: 575-746-8905	Address:	
State: Zip:    The property of	Project #:700794.230.01	Project Owner: Devon	City:	
Phone #:  Phone	Project Name: Cotton Draw Unit	#114		
Fax #:    D.   G  (G)RAB OR (C)OMP.	Project Location:		Phone #:	
MATRIX  MATRIX	Sampler Name: Sheldon Hitchco			
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PLEASE NOTE: Liability and Damages. Cardinat's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be intied to the amount pad by the client for the pullcable analyses. All claims including those for negligence and any other cause whatsoever thall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever thall be deemed waived unless made in writing and received by Cardinal within a for the cause whatsoever thall be deemed waived unless made in writing and received by Cardinal which a for corresponding the state of the cause whether the cause was the cause of the cause which was the cause of the cause of the cause of the cause of which is the cause of the cause of

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JCD: 4/0/2020 12:03:3% F/M		-	Rask	T. C. L. Marian Co.	Phone Result:

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Mariand, Hobbs, NM 88240

(fi	(575) 393-2326 FAX (5/5) 393-24/6	0			A Company of the Comp				ANA VO		LS311038			
Company Name:	Talon/LPE			6/2				-	ANALIOIO		_ ;	1	_	
Project Manager:	Project Manager: Sheldon Hitchcock			P.O. #:										
Address: 408 V	Address: 408 W. Texas Ave.		Andreas de la companya del la companya de la compan	company: Talon/LPE	alon/LPE						<b></b>			
city: Artesia		Zip: 8	8210	Attn:	And desired the second						<b></b>			
Phone #: 575-746-8768	746-8768 Fax #: 575-746-8905	746-8	905	Address:										
070iec+#-700704 930 01		: Devo	j	City:										
Project Name: Co	nw I Init #114			State: Z	Zip:									
Project Location:			And the second s	Phone #:				· · · · · · · · · · · · · · · · · · ·						
Sampler Name: S	Sampler Name: Sheldon Hitchcock			Fax #:				<u>5</u>						
Controlled Only			MATRIX	PRESERV.	SAMPLING			e						
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200	<u>1-100</u>	9			1/2//	1		-						
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please NOTE: Labilly an unalyses. All claims including	PLEASE NOTE: Lubbilly and Usmages. Januaria analysis whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of mapularian 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 or analysis. All claims including those for negligence and any other causes whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion or analysis. All claims including those for negligence and any other causes whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion or analysis.	e deemed w	aived unless made in witing mitation, business interruption	and received by Cardinal was, loss of use, or loss of pr	whin 30 days after com ofits incurred by client,	betton of the app ts subsidiaries.	BC 308							
Relinquished By:	affiliators or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is bused upon any performance of services hereunder by Cardinal, regardless of whether such claim is bused upon any performance of services hereunder by Cardinal, regardless of whether such claim is bused upon any performance of services hereunder by Cardinal, regardless of whether such claim is bused upon any performance of services hereunder by Cardinal, regardless of whether such claim is bused upon any performance of services hereunder by Cardinal, regardless of whether such claim is bused upon any performance of services hereunder by Cardinal, regardless of whether such claim is bused upon any performance of services hereunder by Cardinal, regardless of whether such claim is bused upon any performance of services hereunder by Cardinal, regardless of whether such claim is bused upon any performance of services hereunder by Cardinal, regardless of whether such claim is bused upon any performance of services hereunder by Cardinal, regardless of whether such claims are performance of services hereunder by Cardinal, regardless of whether such claims are performance of services hereunder by Cardinal, regardless of whether such claims are performance of services here	Reci	Received By:	In the present of the state of the	Ph	Phone Result: Fax Result:	: □ Yes	No No	Add'l Phone #: Add'l Fax #:	one #:				

Relinquished By: Relinquished By: Delivered By: (Circle One) Received By: Cool Intact
Yes Yes Sample Condition CHECKED BY: Phone Result: Fax Result: REMARKS: Rush ☐ Yes ☐ No

Page 15 of 15



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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited 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.

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,

Celeg D. Keine

Celey D. Keene

Lab Director/Quality Manager

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

Fax To:

(575) 745-8905

Received:

08/03/2017

Reported:

08/11/2017

Project Name: Project Number: COTTON DRAW #114 700794,230,01

Project Location:

Analyte

**EDDY CTY** 

Sampling Date:

08/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Reporting Limit

Analyzed

Method Blank

BS

% Recovery

True Value QC

RPD

Qualifier

Chloride

Result 416

16.0

08/07/2017

ND

432

108

400

3.64

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

Analyte

Analyte

Analyte

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

% Recovery

True Value QC

**RPD** 

Qualifier

Chloride

96.0

Result

Reporting Limit 16.0

Reporting Limit

08/07/2017

Analyzed

Method Blank ND

BS 432

108

400

3,64

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

Chloride, SM4500Cl-B

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyzed

Method Blank

BS

Chloride

08/07/2017

% Recovery

True Value QC

**RPD** 

Qualifier

Result 128

16.0

ND

432

108

400

3,64

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

mg/kg

Analyzed By: AC

Method Blank

ND

BS

% Recovery

108

True Value QC

400

RPD

Qualifier

Chloride

Received by OCD: 4/8/2020 12:05:37 PM

Result 32.0

16.0

Reporting Limit

08/07/2017

Analyzed

432

3,64

Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Keens

Celey D. Keene, Lab Director/Quality Manager

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: Project Number: COTTON DRAW #114

Project Location:

700794,230,01 **EDDY CTY** 

Sampling Date:

08/03/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

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

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

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	08/07/2017	ND	432	108	400	3.64	

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	ed 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	
Cardinal Laboratories	<del></del>				<u></u>			*=Accredit	ed Analyt
PLEASE NOTE: Uability and Damages. Cardin any other cause whatsoever shall be deemed including, without limitation, business interruption claim is based upon any of the above stated reasons or	walved unless made in one, loss of use, or loss	writing and received by C of profits incurred by dien	Cardinal within thirty (30) int, its subsidiaries, affiliate	) days after completion of tes or successors arising or	of the applicable out of or relate	ole service. In no even ated to the performance	nt shall Cardinal be liable	for incidental or	consequential dam
alegan	Tura								
Celey D. Keene, Lab Directo	tou/Ouglib: Max								
,,	or/Quality Mar.	nager							

### Cardinal Laboratories

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: Project Number: COTTON DRAW #114 700794.230.01

Project Location:

**EDDY CTY** 

Sampling Date:

08/03/2017

Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyte

Result 32.0

Reporting Limit 16.0

Analyzed 08/07/2017 Method Blank ND

BS 448

112

% Recovery

True Value QC 400

RPD 0.00 Qualifier

Chloride

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

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte

Result Reporting Limit

Analyzed

Method Blank

112

% Recovery

True Value QC 400

RPD

Qualifier

Chloride

32.0

08/07/2017 16.0

ND

BS 448

0.00

Cardinal Laboratories

Received by OCD: 4/8/2020 12:05:37 PM

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

### **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

Received by OCD: 4/8/2020 12:05:37 PM

\*=Accredited Analyte

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Celeg & Keine



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE	
	. 1
/e.	Company:   aloi
	Attn:
Phone #: 575-746-8768 Fax #: 575-746-8905	Address:
Project #: 750 794, 230,01 Project Owner: 1) CVON	City:
me: / Ofton Draw	State: Zip:
	Phone #:
3: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	PRESERV. SAMPLING
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	DDGE HER: ID/BASE: E/COOL HER:
GR WA	01 AC
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25-111	36.49
3 5-12 2	9:37
4 5-12 3	00.00
1	50.0
1	11:45
71-5	12:25
5-15	(,00.)
95-160	1 1/15
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Delivered By: (Circle One) S.O°C Sample	n CHECKED (Initials
15.250	Tyes Tyes To the D

Received by OCD: 4/8/2020 12:05:37 PM

Delivered By: (Circle One)

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 7 of 7

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

which coc received 8 mon 1	- Re	Time:
Samples revised from Gorkoval 13 17211	(hun	1 1
11. Jan lasers +4 H702041	REMARK	Tiege;
ssult: ☐ Yes ☐ No Add'l Phone #:	Phone Result:	antiliates or subgressors arising out of or related to the performance of services horeunder by Cardinal, regardless of whether such dam a based upon any or are accessed an arising out of or related to the performance of services horeunder by Cardinal, regardless of whether such dam a based upon any or are accessed and Phone Rest.    Reclinquished By:   Phone Rest.   Phone
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or the applicable	ntract or tort, shall be limited to the amount paid by the client is no and received by Cardinal within 30 days after completion of	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remoty for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client to the appearance of the angular paid by the client to the angular paid by the clien
		5-18-0
		(I) #
Chlor	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE	G)RAB OR (C)O CONTAINERS GROUNDWATER WASTEWATER SOIL OIL
nid	PRESERV. SAMPLING	MP.
	1	Kimbery Wilson
	Phone #:	U
	State: Zip:	Project Name: Cotton Drav 14
	City:	Project #: 700744,230,0 Project Owner: DeVon
	Address:	Phone #: 575-746-8768 Fax #: 575-746-8905
	Attn:	
	Company: Talon/LPE	
	P.O. #:	Project Manager: Kilmhenly Wilson
		Company Name: Talon/LPE
ANALYSIS REQUEST	The experimental and the exper	(5/5) 350-2520 1000 (6/6)

5.250 Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY: (Initials)

Received by OCD: 4/8/2020 12:05:37 PM





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 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.

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

Celey D. Keene

Lab Director/Quality Manager

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

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: Project Number: COTTON DRAW #114

Project Location:

700794.230.01 **EDDY CTY** 

Sampling Date:

Sampling Type:

08/14/2017

Soil \*\* (See Notes)

Sampling Condition: Sample Received By:

Tamara Oldaker

### Sample ID: S -3 (H702149-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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		Analyze	d 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	

Cardinal Laboratories

Received by OCD: 4/8/2020 12:05:37 PM

\*=Accredited Analyte

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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

Cardinal Laboratories

Received by OCD: 4/8/2020 12:05:37 PM

\*=Accredited Analyte

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Celeg theena

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Warland, Hobbs, NW 88240 (575) 393-2326 FAX (575) 393-2476

Relinquished By:  Daty:  Relinquished By:  Daty:  Relinquished By:  Daty:  Relinquished By:  Relinquished By:  Daty:  Relinquished By:	PLEAGE NOTE: Lability and Danisgres, cardinal's finally, and clients exclusive remony for any column singly whether based in capital or fart, shall be finited to the amount paid by the client for the cardinal for the final training whether he was a state of the final training whether he was			,0	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	MATRIX	FOR LABITIES CONTRACT NOTES W	Project Location: Eddy County	Project Name: (ofton DRAW 1144	Project #: 100144 20.01 Project Owner: Letin Fund	Phone #: 5/5-746-8768 Fax#: 575-746-8905	State: NM Zip: 88210	W. Texas Ave.	inject manager. Sheldon Hitch Cock	Froiact Manager //
Installing without inflation, business interruptions, lice of profits interruptions, lice of	Teach or leaft, should be directed for the emount paid by the client for the		1 CASE ENPIS 23	8/14/17 3:00 -	SLUDGE OTHER: ACID/BASE: ICE/COOL OTHER: DATH	PRESERV, SAMPLING		类	: Zip;		2SS:		Company: Taion/LPE		ANALYSIS REQUEST

Received by OCD: 4/8/2020 12:05:37 PM

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

21.60

Times

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

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

### CONDITIONS

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