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**Remediation Work Plan
Devon Energy: Remuda Basin SWD #001
|30-015-29549|2RP-3743|**

August 15, 2016

Prepared By:

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

Prepared For:

Devon Energy

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

Subject: **Soil Assessment and Work Plan**
Devon Energy Production Company, LP
Remuda Basin SWD #001
|30-015-29549|2RP-3743|

Dear Mr. Bratcher,

Devon Energy Production Company, LP (Devon) has contracted Talon/LPE (Talon) to perform initial spill response, soil sampling and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

Site Information

The Remuda Basin SWD #1 is located approximately twenty-seven (27) miles southeast of Carlsbad, New Mexico. The legal location for this facility is Unit Letter D, Section 20, Township 23 South and Range 30 East in Eddy County, New Mexico. More specifically the latitude and longitude are 32.2968178 North and -103.9101791 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 (NRCS), the soil in this area is made up of Simona-Bippus complex with 0 to 5 percent slopes. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

According to the New Mexico Office of the State Engineer the ground water in this area is approximately 105-feet below ground surface (BGS). 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 1,000 mg/kg for total chlorides.

Incident Description and Initial Remedial Actions

On June 12, 2016 the injection pump at this site failed resulting in a tank overflow and the release of approximately 500bbls of produced water. The produced water flowed across the location, breached the berm on the west side of the location, and flowed down gradient into the pasture for approximately 408-feet as shown on the attached site plan.

In February 2014, a previous release (2RP-2195) covered nearly an identical footprint on the well pad as the current June 2016 incident. Due to the presence of shallow rock on the location, the New Mexico Oil Conservation Divisions (NMOCD) District 2 and the Bureau of Land Management (BLM) Carlsbad Field Office gave permission for a 0.5-foot excavation on the well pad and issued a deferral of further remedial actions on the well pad and battery area until closure of the facility

Laboratory Results

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

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	--	60800	--	--
S-1	1	--	16800	--	--
S-1	2	--	16800	--	--
S-1 REFUSAL	3	--	9800	--	--
S-2	0	ND	56800	ND	ND
S-2	1	--	6930	--	--
S-2	2	--	7600	--	--
S-2 REFUSAL	3	--	4800	--	--
S-3	0	--	44800	--	--
S-3	1	--	12800	--	--
S-3	2	--	20800	--	--
S-3 REFUSAL	3	--	15200	--	--
S-4	0	--	13200	--	--
S-4	1	--	9200	--	--
S-4	2	--	15000	--	--
S-4 REFUSAL	3	--	11000	--	--
S-5	0	--	4800	--	--
S-5	1	--	8800	--	--
S-5 REFUSAL	2	--	6800	--	--
S-6	0	--	12400	--	--
S-6	1	--	3320	--	--
S-6	2	--	1550	--	--
S-6	3	--	2560	--	--
S-6	4	--	2480	--	--
S-6 REFUSAL	5	--	2760	--	--

(--) Analyte Not Tested

(ND) Analyte Not Detected

Proposed Remedial Actions

- The impacted area on the well pad in the vicinity of sample locations S-1 through S-3 will be excavated to a depth 0.5-bgs. The excavation will be backfilled with caliche. The remaining chloride impacts will be remediated at the closure of the facility, with NMOCD and BLM permission.
- The impacted area in the pasture in the vicinity of sample locations S-4 through S-6 will be excavated to the top of rock. 0.5-feet of caliche will be placed in the bottom of the excavation, packed, and the remaining vertical depth of the excavation will be backfilled with sand to mitigate the potential movement of salt to the surface due to capillary action.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,

TALON/LPE

Sheldon L. Hitchcock
Project Manager

David J. Adkins
District Manager

Attachments

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

APPENDIX I

SITE PLAN

Legend

-  Impacted area
-  Sample Location

Devon-Remuda Basin SWD #1 



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 02486	C		ED	3	2	3	19	23S	30E	601304	3572832*	1603	350		
C 03478 POD1	C		ED	3	2	1	21	23S	30E	604638	3573670	2022	230	105	125

Average Depth to Water: 105 feet

Minimum Depth: 105 feet

Maximum Depth: 105 feet

Record Count: 2

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 602617

Northing (Y): 3573752

Radius: 5000

*UTM location was derived from PLSS - see Help

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

APPENDIX III

INITIAL C-141

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

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

NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 14 2016

Form C-141
Revised August 8, 2011

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

RECEIVED

Release Notification and Corrective Action

DAB16116740309 OPERATOR ☒ Initial Report ☐ Final Report

Name of Company Devon Energy Production Company <u>1137</u>	Contact Matt Nettles, Production Foreman	
Address 6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No. 575.513.5767	
Facility Name Remuda Basin SWD I	Facility Type Salt Water Disposal	
Surface Owner Federal	Mineral Owner Federal	API No 30-015-29549

LOCATION OF RELEASE

Unit Letter D	Section 20	Township 23S	Range 30E	Feet from the 330	North/South Line FNL	Feet from the 660	East/West Line FWL	County Eddy
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Latitude: 32.2966716

Longitude: -103.90964

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 500BBLS	Volume Recovered 480BBLS
Source of Release Injection Pump	Date and Hour of Occurrence 6/12/2016 @ 2:30PM	Date and Hour of Discovery 6/12/2016 @ 2:30PM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? BLM-Shelly Tucker OCD-Mike Bratcher	
By Whom? Jeremy Porras, Assistant Production Foreman	Date and Hour BLM-6/12/2016 @ 2:33PM OCD-6/12/2016 @ 2:35PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse N/A	

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

Describe Cause of Problem and Remedial Action Taken.*

As a result of mechanical failure injection pump failed to kick on and alarms were not activated resulting in 500BBLS of PW overflowing from the tanks. Produced water was also diverted another water disposal to prevent further release. Communication problem has been resolved.

Describe Area Affected and Cleanup Action Taken.*

500BBLS of pw was released as a result of the tanks overflowing. The release flowed in a southwestern direction and did reach the pasture. 480BBLS pw was recovered via vacuum truck. The approximate size of the total affected area was a 500ft by 500ft. An environmental company will be contacted for 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: <u>Dana DeLaRosa</u>	OIL CONSERVATION DIVISION	
Printed Name: Dana DeLaRosa	Signed By: <u>[Signature]</u> Approved by Environmental Specialist	
Title: Field Admin Support	Approval Date: <u>6/14/16</u>	Expiration Date: <u>N/A</u>
E-mail Address: <u>dana.delarosa@dvn.com</u>	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines Attached ☐	
Date: 6/13/2016 Phone: 575.746.5594	SUBMIT REMEDIATION PROPOSAL NO LATER THAN: <u>7/15/16</u> <u>2RP-3743</u>	

* Attach Additional Sheets If Necessary

APPENDIX IV

LABORATORY RESULTS



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

July 29, 2016

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: REMUDA SWD

Enclosed are the results of analyses for samples received by the laboratory on 07/28/16 16:15.

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 07/28/2016
 Reported: 07/29/2016
 Project Name: REMUDA SWD
 Project Number: 700794.198.01
 Project Location: DEVON

 Sampling Date: 07/28/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 0' (H601693-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	60800	16.0	07/29/2016	ND	416	104	400	0.00	

Sample ID: S-1 1' (H601693-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16800	16.0	07/29/2016	ND	416	104	400	0.00	

Sample ID: S-1 2' (H601693-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16800	16.0	07/29/2016	ND	416	104	400	0.00	

Sample ID: S-1 3' REFUSAL (H601693-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9800	16.0	07/29/2016	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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

Received: 07/28/2016
Reported: 07/29/2016
Project Name: REMUDA SWD
Project Number: 700794.198.01
Project Location: DEVON

Sampling Date: 07/28/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 0' (H601693-05)

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	07/29/2016	ND	2.32	116	2.00	0.836	
Toluene*	<0.050	0.050	07/29/2016	ND	2.36	118	2.00	0.985	
Ethylbenzene*	<0.050	0.050	07/29/2016	ND	2.27	113	2.00	1.15	
Total Xylenes*	<0.150	0.150	07/29/2016	ND	6.81	114	6.00	1.08	
Total BTEx	<0.300	0.300	07/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	56800	16.0	07/29/2016	ND	416	104	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	07/28/2016	ND	196	98.0	200	1.79	
DRO >C10-C28	<10.0	10.0	07/28/2016	ND	214	107	200	2.98	

Surrogate: 1-Chlorooctane 76.8 % 35-147

Surrogate: 1-Chlorooctadecane 84.6 % 28-171

Sample ID: S-2 1' (H601693-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6930	16.0	07/29/2016	ND	416	104	400	0.00	

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*=Accredited Analyte

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 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 07/28/2016
 Reported: 07/29/2016
 Project Name: REMUDA SWD
 Project Number: 700794.198.01
 Project Location: DEVON

 Sampling Date: 07/28/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-2 2' (H601693-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	07/29/2016	ND	416	104	400	0.00	

Sample ID: S-2 3' REFUSAL (H601693-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	07/29/2016	ND	416	104	400	0.00	

Sample ID: S-3 0' (H601693-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	44800	16.0	07/29/2016	ND	416	104	400	0.00	

Sample ID: S-3 1' (H601693-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12800	16.0	07/29/2016	ND	416	104	400	0.00	

Sample ID: S-3 2' (H601693-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20800	16.0	07/29/2016	ND	416	104	400	0.00	

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* = Accredited Analyte

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 Received: 07/28/2016
 Reported: 07/29/2016
 Project Name: REMUDA SWD
 Project Number: 700794.198.01
 Project Location: DEVON

 Sampling Date: 07/28/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-3 3' REFUSAL (H601693-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15200	16.0	07/29/2016	ND	416	104	400	0.00	

Sample ID: S-4 0' (H601693-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13200	16.0	07/29/2016	ND	416	104	400	0.00	

Sample ID: S-4 1' (H601693-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	07/29/2016	ND	416	104	400	0.00	

Sample ID: S-4 2' (H601693-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15000	16.0	07/29/2016	ND	416	104	400	0.00	

Sample ID: S-4 3' REFUSAL (H601693-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11000	16.0	07/29/2016	ND	416	104	400	0.00	

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Received: 07/28/2016
Reported: 07/29/2016
Project Name: REMUDA SWD
Project Number: 700794.198.01
Project Location: DEVON

Sampling Date: 07/28/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-5 0' (H601693-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	07/29/2016	ND	416	104	400	0.00	

Sample ID: S-5 1' (H601693-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	07/29/2016	ND	416	104	400	0.00	

Sample ID: S-5 2' REFUSAL (H601693-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	07/29/2016	ND	416	104	400	0.00	

Sample ID: S-6 0' (H601693-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12400	16.0	07/29/2016	ND	416	104	400	0.00	

Sample ID: S-6 1' (H601693-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	07/29/2016	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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 Received: 07/28/2016
 Reported: 07/29/2016
 Project Name: REMUDA SWD
 Project Number: 700794.198.01
 Project Location: DEVON

 Sampling Date: 07/28/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-6 2' (H601693-22)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	1550	16.0	07/29/2016	ND	416	104	400	0.00			

Sample ID: S-6 3' (H601693-23)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	2560	16.0	07/29/2016	ND	416	104	400	0.00			

Sample ID: S-6 4' (H601693-24)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	2480	16.0	07/29/2016	ND	416	104	400	0.00			

Sample ID: S-6 5' REFUSAL (H601693-25)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	2760	16.0	07/29/2016	ND	416	104	400	0.00			

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For 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

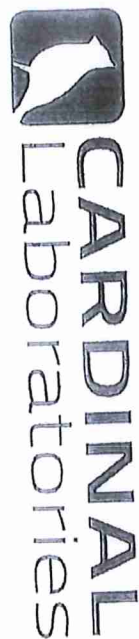
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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ANALYSIS REQUEST

Company Name: Talon/LPE

Project Manager: DAVID ADKINS

Address: 408 W. Texas Ave.

City: Artesia

Phone #: 575-746-8768

Project #: 700794.198.01

Project Name: Remuda Sub

Project Location:

Sampler Name: Carlos Tarrillo

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H001693

S-1 0'

S-1 1'

S-1 2'

S-1 3'

S-1 4'

S-1 5'

S-1 6'

S-1 7'

S-1 8'

S-1 9'

S-1 10'

S-1 11'

S-1 12'

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S-1 279'

S-1 280'

S-1 281'

S-1 282'

S-1 283'

S-1 284'

S-1 285'

S-1 286'

S-1 287'



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ANALYSIS REQUEST

FILE #

P.O. #: 70079419801

Company: Talon/LPE

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

Company Name: Talon/LPE
Project Manager: DAVID ADKINS
Address: 408 W. Texas Ave.
City: Artesia
Phone #: 575-746-8768
Fax #: 575-746-8905
Project #: 700794198.01
Project Owner: DEVEN
Project Name: Remuda SWB

Project Location:

Sample Name: Carlos Tarnillo

FOR LAB USE ONLY

MATRIX PRESERV. SAMPLING

Lab I.D. Sample I.D.

46011693

(G) RAB OR (C) OMP.
CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER:
ACID/BASE:
ICE / COOL
OTHER:

DATE TIME

7/28/16

TOTAL CHLORIDES

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Relinquished By:

Date: 7/28/16
Time: 4:15
Received By: David Adkins

Relinquished By:

Date: 7/28/16
Time: 4:15
Received By: David Adkins

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

4.70

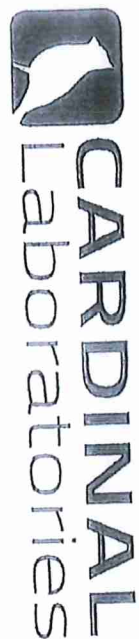
Sample Condition
Cool ☒ Intact ☒
Yes ☒ No ☒

CHECKED BY: (Initials)

REMARKS:
Phone Result: ☐ Yes ☐ No
Fax Result: ☐ Yes ☐ No
Add'l Phone #:
Add'l Fax #:
P. 2 of 3
Rush

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#775



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ANALYSIS REQUEST

DATE
7/20/16

P.O. #: 700794.198.01

Company: Talon/LPE

Company Name: Talon/LPE
Project Manager: David Adams
Address: 408 W. Texas Ave.
City: Artesia
State: NM Zip: 88210
Phone #: 575-746-8768 Fax #: 575-746-8905
Project #: 700794.198.01 Project Owner: Devco

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

Project Location:

Sample Name:

FOR LAB USE ONLY

Carlos Tarrillo

Lab I.D.

Sample I.D.

H001693

S-6 0'

21 S-6 1'

22 S-6 2'

23 S-6 3'

24 S-6 4'

25 S-6 5' Refusal

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

7/20/16

TOTAL CHLORIDES

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Relinquished By:

Signature

Received By:

Signature

Relinquished By:

Signature

Received By:

Signature

Delivered By: (Circle One)

Sample Condition

CHECKED BY: (Initials)

Sampler - UPS - Bus - Other:

4.70

Yes ☒ No ☐

Signature

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