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Remediation and Closure Report:

Algerita 32 State Com #1
API # 30-015-35339 – **2RP-3345**
Talon Project No. 700794.227.01

Prepared For:

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

Prepared By:

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

September 18, 2017

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

Subject: **Remediation and Closure Report**
 Algerita 32 State Com #1
 API # 30-015-35339 – 2RP-3345

Dear Mr. Bratcher,

Devon Energy Corporation 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 Algerita 32 State Com #1 is located approximately forty-two (42) miles southwest of Artesia, New Mexico. The legal location for this release is Unit Letter M, Section 32, Township 22 South and Range 26 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.34283 North and -104.32000 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 Reagan loam with 0 to 3 percent slopes. The local surface and shallow geology, Quaternary Age sedimentary deposits, is comprised of alluvium and eolian sands which includes silty soils underlain by gypsum and hard. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

The New Mexico State Engineer web site indicates the nearest ground water is 367' 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 600 mg/kg for total chlorides is the recommended guidelines.

Incident Description and Initial Remedial Actions

On October 15, 2015 the 3-phase separator malfunctioned causing 8 barrels of produced water and 2 barrels of oil to be released on location. The well was shut-in until repairs could be made. All fluids remained on location and 6 barrels of produced water and 1 barrel of oil were recovered. A site plan is presented in [Appendix I](#) which illustrates the impacted area.

Remedial Actions Taken

The remediation activities were completed pursuant to the work plan approved by the NMOCD. See attached NMOCD stipulations/conditions in [Appendix II](#). The horizontal delineation for chlorides at sample S-1 and S-3 are under the recommended guidelines of 600 mg/kg and are presented below.

The impacted area in the vicinity of S-1 was excavated to a depth of 4.0-feet deep. A liner was installed in the bottom of the excavation and confirmation samples were obtained on the sidewalls. The impacted area along S-2 and S-3 were excavated to a depth of 4-feet deep and confirmation samples were collected from the bottom and sidewalls pursuant to the work plan. The results of our soil sampling activities are summarized in the table below. See [Appendix III](#) for complete report of laboratory results.

September 11, 2017

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1					
North sidewall		--	480	--	--
South sidewall		--	160	--	--
East sidewall		--	512	--	--
West sidewall		--	224		

--Analyte Not Tested

September 13, 2017

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-2 Bottom	4'	--	96	--	--
N. sidewall		--	464	--	--
S. sidewall		--	80	--	--
S-3 Bottom	4'	--	48	--	--
N. sidewall		--	320	--	--
S. sidewall		--	32	--	--
E. sidewall		--	32	--	--

--Analyte Not Tested

All contaminated soil was transported to Lea Land, LLC, a NMOCD approved disposal facility. The excavated areas were backfilled with new caliche and the work area was contoured to match the surrounding location.

Closure

On behalf of Devon Energy we respectfully request that no further actions be required and that closure with respect to this release be granted. A Final C-141 is also attached. See [Appendix IV](#).

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

Respectfully submitted,

TALON/LPE



Kimberly M. Wilson
Project Manager



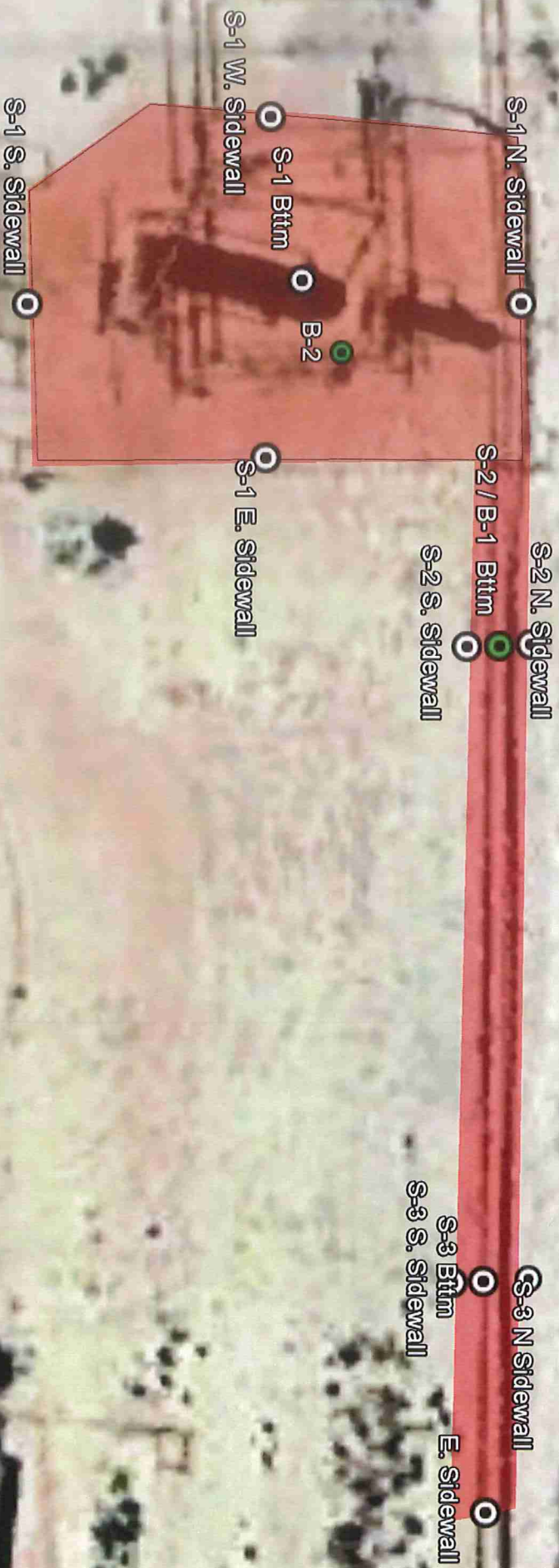
David J. Adkins
District Manager

Attachments:

- Appendix I Site Map
- Appendix II Regulatory Stipulations and Groundwater Data
- Appendix III Laboratory Results
- Appendix IV Final C-141

APPENDIX I
SITE MAP

Algerita 32 State Com #1



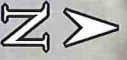
- Legend**
- B-2
 - Impacted Area
 - S-2 / B-1 Bttm
 - Sidewall
 - Lined Area

Google earth

© 2017 Google

© 2017 Europa Technologies

50 ft



APPENDIX II
REGULATOR'S STIPULATIONS
GROUNDWATER DATA

Kimberly M. Wilson

From: Bratcher, Mike, EMNRD [mike.bratcher@state.nm.us]
Sent: Friday, September 01, 2017 4:55 PM
To: Kimberly M. Wilson
Cc: Shoemaker, Mike; David Adkins; Weaver, Crystal, EMNRD
Subject: RE: Algerita 32 State Com #1 - 30-015-35339 – 2RP-3345

RE: Devon Energy * Algerita 32 St. 1 * **2RP-3345** * DOR: 10/3/2015

Kimberly,

Your proposal for remediation of the above referenced release is approved with the following:

Target remediation goal for chloride levels in sidewalls is 600 mg/kg.

OCD believes groundwater could possibly be encountered at shallower depths than indicated in the proposal, however, based on the vertical delineation performed, and current OCD spill guidance, the proposal is approved.

Mike Bratcher
NMOCD District 2
811 South First Street
Artesia, NM 88210
575-748-1283 Ext 108

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Kimberly M. Wilson [<mailto:kwilson@talonlpe.com>]
Sent: Friday, September 1, 2017 11:42 AM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Cc: Shoemaker, Mike <Mike.Shoemaker@dvn.com>; David Adkins <dadkins@talonlpe.com>; Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>
Subject: Algerita 32 State Com #1 - 30-015-35339 – 2RP-3345

Mike,

Please find attached the work plan for the above referenced location. We would like to move on this early next week.

Thank you.

Kimberly

Kimberly M. Wilson
Project Manager
Office: 575.746.8768
Direct: 575.616.4023
Cell: 575.602.3826
Fax: 575.746.8905
Emergency: 866.742.0742
Web: www.talonlpe.com



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	Code	POD Sub-basin	County	Q 6	Q 4	Q 1	Q 3	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C 01445		C	ED	4	1	3	31	22S	26E		562356	3578903*	1432	389	367	22
C 02855		CUB	ED	1	1	2	32	22S	26E		564529	3579996*	1661	127		

Average Depth to Water: **367 feet**

Minimum Depth: **367 feet**

Maximum Depth: **367 feet**

Record Count:2

UTMNAD83 Radius Search (in meters):

Easting (X): 563740

Northing (Y): 3578534

Radius: 2000

*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.

9/19/17 6:42 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

APPENDIX III

LABORATORY RESULTS



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

September 11, 2017

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: ALGERITA 32 STATE COM #1

Enclosed are the results of analyses for samples received by the laboratory on 09/08/17 15:49.

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

Analytical Results For:

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

Received:	09/08/2017	Sampling Date:	09/07/2017
Reported:	09/11/2017	Sampling Type:	Soil
Project Name:	ALGERITA 32 STATE COM #1	Sampling Condition:	** (See Notes)
Project Number:	7000794.227.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: NORTH SIDEWALL (H702394-01)

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	09/11/2017	ND	448	112	400	0.00	

Sample ID: SOUTH SIDEWALL (H702394-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/11/2017	ND	416	104	400	0.00	

Sample ID: EAST SIDEWALL (H702394-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	09/11/2017	ND	416	104	400	0.00	

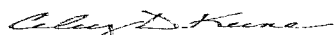
Sample ID: WEST SIDEWALL (H702394-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/11/2017	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

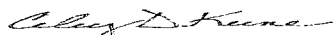
Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

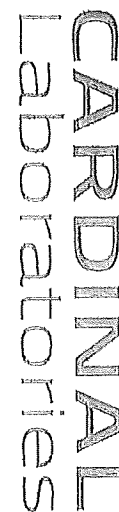
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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

stage 1 of

Company Name: TalonLPE		P.O. #:	
Project Manager: David Williams		Company: TalonLPE	
Address: 408 W. Texas Ave.		Attn:	
City: Artesia	State: NM	Zip: 88210	
Phone #: 575-746-8768	Fax #: 575-746-8905	Address:	
Project #: 700794.007.01	Project Owner: Helton	City:	
Project Name: Alameda 32 State Com #1	State:	Zip:	
Project Location: Eddy Co	Phone #:		
Sample Name: Kim Wilson	Fax #:		

FOR LAB USE ONLY		MATRIX		PRESERV.		SAMPLING	
Lab I.D.	Sample I.D.	(C)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL
HT0394	North sidevalle	G1	1	1	1	1	1
1	South sidevalle	G1	1	1	1	1	1
2	East sidevalle	G1	1	1	1	1	1
3	East sidevalle	G1	1	1	1	1	1
4	West sidevalle	G1	1	1	1	1	1

DATE	TIME	REMARKS
9/7/17	3:45	Chlorides
	3:50	
	3:55	
	4:00	

Reinquinished By: David Williams	Date: 9/8/17	Received By: David Williams	Date: 9/8/17
Reinquinished By: Helton	Date: 9/8/17	Received By: Helton	Date: 9/8/17

Delivered By: (Circle One)	27.9°C	34.9°C	40.0°C
Sampler - UPS - Bus - Other:	8.15°C	18.15°C	4.0°C

Sample Condition	CHECKED BY:
Good - Intact	(Initials)
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	HC

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

Rush 1.10

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

corrected + 25°C

September 13, 2017

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: ALGERITA 32 STATE COM #1

Enclosed are the results of analyses for samples received by the laboratory on 09/12/17 15:40.

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

Analytical Results For:

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

 Received: 09/12/2017
 Reported: 09/13/2017
 Project Name: ALGERITA 32 STATE COM #1
 Project Number: 700794.227.01
 Project Location: DEVON - EDDY COUNTY, NM

 Sampling Date: 09/12/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: S -2 N SIDEWALL (H702455-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	09/13/2017	ND	416	104	400	3.77		

Sample ID: S -2 S SIDEWALL (H702455-02)

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	09/13/2017	ND	416	104	400	3.77		

Sample ID: S -2 4' (H702455-03)

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	09/13/2017	ND	416	104	400	3.77		

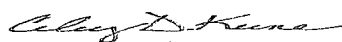
Sample ID: S -3 N SIDEWALL (H702455-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	09/13/2017	ND	416	104	400	3.77		

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/12/2017	Sampling Date:	09/12/2017
Reported:	09/13/2017	Sampling Type:	Soil
Project Name:	ALGERITA 32 STATE COM #1	Sampling Condition:	** (See Notes)
Project Number:	700794.227.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: S -3 S SIDEWALL (H702455-05)

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	09/13/2017	ND	416	104	400	3.77	

Sample ID: S -3 E SIDEWALL (H702455-06)

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	09/13/2017	ND	432	108	400	0.00	

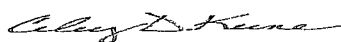
Sample ID: S -3 4' (H702455-07)

Chloride, SM4500CI-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	09/13/2017	ND	432	108	400	0.00	

Cardinal Laboratories

* = Accredited Analyte

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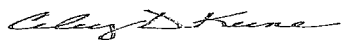
Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

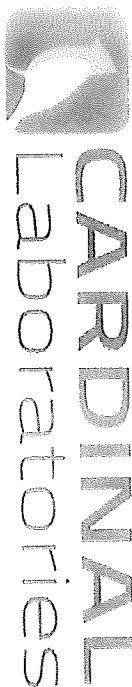
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

Cardinal Laboratories***=Accredited Analyte**

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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

Company Name: Talon/LPE

Project Manager:

Address: 408 W. Texas Ave.

City: Artesia

Phone #: 575-746-8768

Project #:

Project Name:

Project Location:

Sample Name:

FOR LAB USE ONLY

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Talon/LPE

Attn:

Address:

City:

State:

Phone #:

Fax #:

MATRIX

PRESERV

SAMPLING

Lab I.D.

Sample I.D.

4708455

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

PLEASE NOTE: Liability and Damages. Cardinal's liability and damage exclusion hereby for any claim arising hereunder based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other claims whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidents or consequences damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Reinquished By:

Date:

Reinquished By:

Date:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

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

Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

Rush

APPENDIX IV

FINAL C-141