

Soil Assessment and Remediation Work Plan

Emerald PWH 20 No. 62H * 30-015-43372 * 3377 Talon Project No. 700794.191.01

Prepared For:

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

Prepared By:

Kimberly M. Wilson Talon/LPE 408 West Texas Artesia, New Mexico 88210

August 16, 2016

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

Subject:

Soil Assessment and Remediation Work Plan

Devon Energy

Emerald PWH 20 #62H * 30-015-43372

Dear Mr. Bratcher,

Devon Energy has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

Incident Date

October 31, 2015

Site Information

The Emerald PWH 20 #62H is located approximately seventeen (17) miles southeast of Artesia, New Mexico. The legal location for the site is Section 20, Township 19 South and Range 29 East in Eddy County, New Mexico. More specifically the latitude and longitude for the location are 32.6424438 North and 104.1049327 West. See site plan 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 Tonuco loamy fine sand with 0 to 3 percent slopes. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

According to the Chevron Texaco ground water trend map, the ground water in this area is 50-100 feet below ground surface (BGS). See Appendix II. Therefore the ranking for this site is a 10 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 10, 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.

Table 1

Incident Description

On the night of October 31, 2015 the H2S alarms went off while drilling. The drilling crew evacuated the rig floor immediately leaving the pumps engaged causing the mud pits to overflow. This resulted in a release of 15 barrels of brine water on location. The location was scraped and the contaminated soil was placed in the cutting bin. A site plan is presented in Appendix I which illustrates the impacted area.

On, June 9 2016, Talon mobilized personnel to begin the preliminary site assessment and to collect initial soil samples from the impacted area with a hand auger to a depth of 0.25feet deep, where refusal was encountered. Laboratory results are presented below in Table 1.

On June 20, 2016, Talon returned to the site with a backhoe for further vertical delineation of the impacted area. Laboratory results are presented below in Table 2.

Laboratory Results

See Appendix III for complete report of laboratory results.

June 13, 2016				Table	1
Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'		33200		
	0.25'		12300		
S-2	0,		29200		
	0.25'		13300		

-- Analyte Not Tested

Table 2 June 24 2016

Sample ID	Depth	BTEX	Chlorides	TPH (mg/kg)	TPH (mg/kg)
Sumpre 12	(feet)	(mg/kg)	(mg/kg)	GRO	DRO
S-1	1'		96		
	2'		16		
	3'		<16		
	4'		16		
	5'		<16		
S-2	1'		5040		
	2'		1800		
	3'		32		
	4'		112		
	5'		48		

-- Analyte Not Tested

Proposed Remedial Actions

- The impacted area at sample location S-2 (measuring approximately 30-feet wide by 45-feet long) will be excavated to a depth of 2-feet deep. The remaining contaminated soil will be excavated to a depth of 0.5-feet deep.
- All contaminated soil will be transported to Lea Land, LLC, an NMOCD approved disposal facility.
- The excavation will be backfilled with caliche and contoured to match the surrounding location.
- A final closure report documenting all remedial actions will be provided to the NMOCD Artesia Office along with a Final C-141 Form.

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

Respectfully submitted,

TALON/LPE

Kimberly M. Wilson

Project Manager

David J. Adkins

David J. Adkins
District Manager

Attachments:

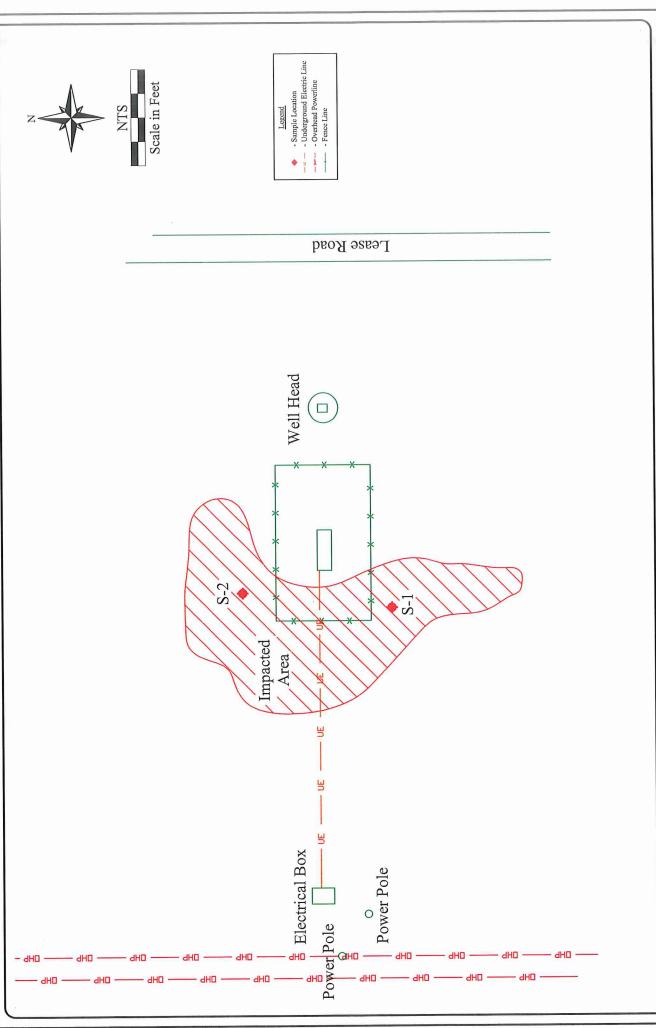
Appendix I Site Plan

Appendix II Groundwater Data & Initial C-141

Appendix III Laboratory Results

Emberly M. Wilson

APPENDIX I SITE MAP



Emerald PWU 20-62H Devon Energy Corporation Eddy County, New Mexico Figure 1 - Site Plan

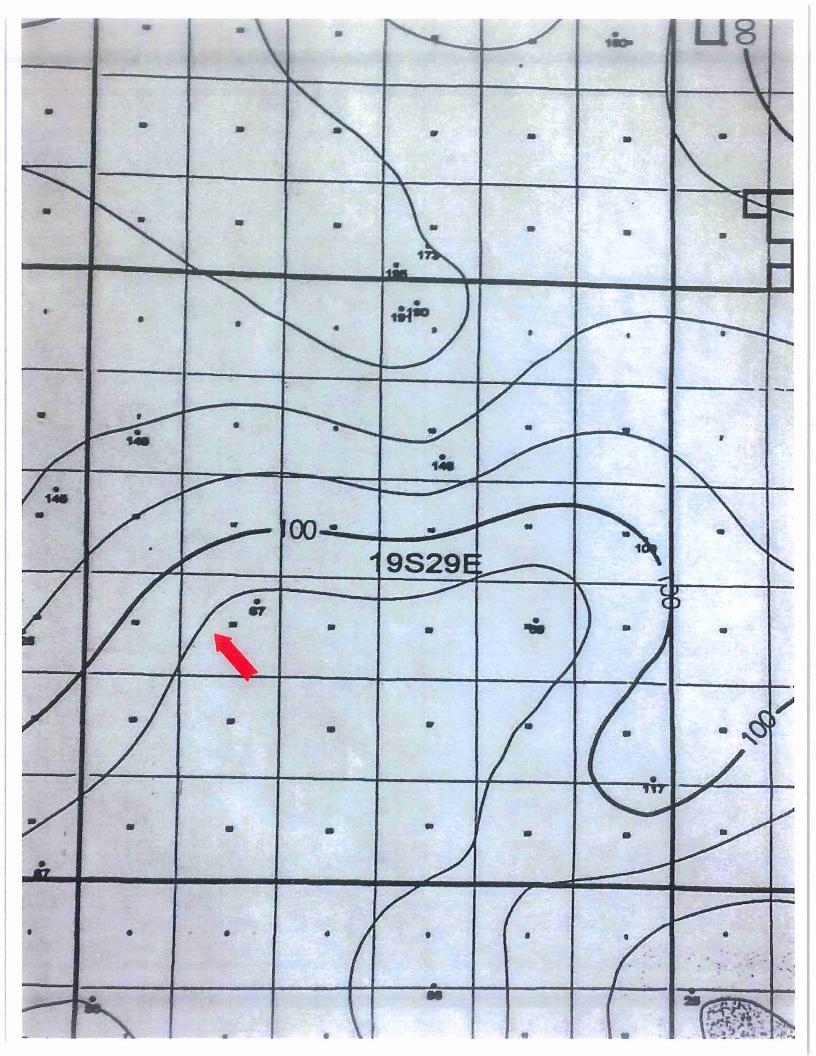


Date: 07/19/2016

Scale: NTS

Drawn By: TJS

APPENDIX II GROUNDWATER DATA INITIAL C-141



<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II District III
1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505 700794.191.01

State of New Mexico Energy Minerals and Natural Resources

Expiration Date:

Attached

Form C-141 Revised August 8, 2011

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

Oil Conservation Division 1220 South St. Francis Dr.

1220 5. 5. 1141	010 151., 154110			Sa	nta Fe	, NM 8/5	05				-	
•			Rele	ease Notific	ation	and Co	rrective A	ction				
						OPERA	TOR			al Report		Final Report
Name of Co	ompany D	evon Energy	Product	ion	(Contact B	rett Fulks					
Address 64	88 Seven l	Rivers Hwy	Artesia, 1	VM 88220	7	Felephone I	No. 432-301-32	23				
Facility Na	me Emera	ld PWU 20 (52H]	Facility Typ	e New Well					
Surface Ov	vner State			Mineral (Owner	State			API No	. 30-015-4	13372	
				LOCA	TION	OF REI	LEASE					
Unit Letter M	Section 20	Township 19S	Range 29E	Feet from the 1238	North/	South Line FSL	Feet from the 248		Vest Line WL	County EDDY		
			La	atitude: 32.6424	1438	Longitu	de: 104.1049	<u>327</u>				
				NAT	URE	OF REL	EASE					3
Type of Rele	ease Spill	Brine water				Volume of 15 BBL	Release		14 BBL	Recovered		
Source of Re	elease Drill	ing pit				Date and 1 10/31/15 at	Hour of Occurre t 7:00 am	nce		l Hour of Di at 7:00 am	scover	у
Was Immed	iate Notice		Yes [No Not Re	equired	If YES, To N/A	Whom?					
By Whom?	N/A					Date and 1 11/02/15 1						
Was a Wate	rcourse Re		Yes 🗵] No			olume Impacting	the Wa	itercourse	(
If a Waterco	ourse was I	mpacted, Des	scribe Ful	ly.* N/ A						-		
Describe Ca H2s alarms	use of Prol went off so	olem and Rer the drilling (nedial Ac crew evac	tion Taken.* uated the rig floo	or, leavin	ng the pump	s engaged. This	resulted	in the mu	ıd pits runn	ing ov	er.
Describe Ar Scraped con	ea Affected ntaminated	l and Cleanu 20 x 20 area	p Action and place	Гакеп.* d in cuttings bin	. Will co	onduct samp	ling to confirm c	chloride	levels.			
regulations a public health should their or the enviro	all operators or the envious loperations lonment. In	are required for are required for are required for are required to	to report a acceptan adequately OCD accep	e is true and comp nd/or file certain i ce of a C-141 repo y investigate and i ptance of a C-141	release nort by the remediate	otifications a e NMOCD m e contaminat	nd perform correct parked as "Final R ion that pose a thr	ctive act Report" d reat to gr	ions for rel loes not rel ound wate	leases which lieve the ope er, surface w	may e crator o ater, hu	ndanger f liability aman health
		Barron					OIL CON	SERV	ATION	DIVISIO	<u>NC</u>	
Printed Nam	ie: Jeanette	Barron		·		Approved by	Environmental S	Specialis	t:			

Approval Date:

Conditions of Approval:

E-mail Address: Jeanette.barron@dvn.com

Phone: 575.748.1813

Printed Name: Jeanette Barron

Title: Field Admin Support

^{11/06/15} * Attach Additional Sheets If Necessary

APPENDIX III LABORATORY RESULTS



June 13, 2016

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: EMERALD PWU 20 #62H

Enclosed are the results of analyses for samples received by the laboratory on 06/10/16 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To:

(575) 745-8905

Received:

06/10/2016

Reported:

06/13/2016

Project Name:

EMERALD PWU 20 #62H

Project Number:

700794.191.01

Project Location:

EDDY COUNTY, NM

Sampling Date:

06/09/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-1 0' (H601277-01)

Chlavida	CMAROOC	I D
Chioride.	SM4500C	I-D

mg/kg

Analyzed By: AP

Analyte

Reporting Limit Result

16.0

Analyzed 06/10/2016 Method Blank ND

BS % Recovery 432

108

% Recovery

True Value QC 400

RPD

0.00

Qualifier

Sample ID: S-1 0.25' REFUSAL (H601277-02)

Chloride, SM4500CI-B

Analyte

Analyte

mg/kg

Analyzed By: AP

Method Blank

Qualifier

Chloride

Chloride

Chloride

Chloride

Result 12300

29200

13300

33200

16.0

Reporting Limit

16.0

16.0

Analyzed 06/10/2016

ND

108 432

True Value QC 400

RPD

0.00

Sample ID: S-2 0' (H601277-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Result Reporting Limit

Analyzed 06/10/2016

Method Blank ND

BS 432

BS

% Recovery

RPD True Value QC

Qualifier

Sample ID: S-2 0.25' REFUSAL (H601277-04)

Chloride, SM4500Cl-B

Analyzed By: AP

Analyte Result Reporting Limit Analyzed

06/10/2016

Method Blank ND

BS 432 % Recovery 108

108

True Value QC 400

400

RPD 3.77

0.00

Qualifier QM-07

Cardinal Laboratories

*=Accredited Analyte

All claims, including those for negligence and 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. any other cause whatsoever 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.

Celeg & Keene

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE		ANALYSIS REQUEST
Project Manager: Himberly Wilson	P.O. #:	
Address: 408 W. Texas Ave.	Company: Talon/LPE	
city: Artesia state: NM zip: 88210	Attn:	
Phone #: 575-746-8768 Fax #: 575-746-8905	Address:	
Project #: 700 794, 191.01 Project Owner: 1)AMA	City:	
Project Name: EMENALO PWU 20 #62H	State: Zip:	
Project Location: Eddy Cty	Phone #:	
Sampler Name: Xim (Vil Som)	Fax#:	
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5 5.2 0'		
4 5-2 0,25 Refusal 6	~	
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Date: 6/6/6 Received By:	Phone Result: Fax Result: REMARKS:	ssult: □ Yes □ No Add'l Phone#; lt: □ Yes □ No Add'l Fax#; S:
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June 24, 2016

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: EMERALD PW 20 62H

Enclosed are the results of analyses for samples received by the laboratory on 06/22/16 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To:

(575) 745-8905

Received:

06/22/2016

Reported:

06/24/2016

Project Name:

EMERALD PW 20 62H

Project Number: Project Location: 700794.191.01 EDDY COUNTY, NM Sampling Date: Sampling Type: 06/20/2016

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-1 1' (H601366-01)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Analyte

Result

Reporting Limit

Analyzed

Method Blank

% Recovery

True Value QC

RPD 0.00 Qualifier

Chloride

96.0

06/24/2016 16.0

416

BS

104

400

Sample ID: S-1 2' (H601366-02)

Analyte

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Method Blank BS % Recovery

True Value QC

Qualifier

Chloride

Chloride

Chloride

Result 16.0

<16.0

Reporting Limit 16.0

16.0

16.0

Analyzed 06/24/2016

ND

ND

416 104 400

RPD 0.00

Sample ID: S-1 3' (H601366-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Analyte

Reporting Limit Result

Analyzed 06/24/2016 Method Blank ND

BS

416

% Recovery

104

True Value QC

400

RPD

0.00

Qualifier

Sample ID: S-1 4' (H601366-04)

Analyte

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Reporting Limit Result

16.0

Analyzed

06/24/2016

Method Blank

ND

BS 416 % Recovery

104

True Value QC 400

RPD

0.00

Qualifier

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Celey Theene

Celey D. Keene, Lab Director/Quality Manager



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

Fax To:

(575) 745-8905

Received:

06/22/2016

Reported:

06/24/2016

Project Name:

EMERALD PW 20 62H

Project Number:

700794.191.01

Project Location:

EDDY COUNTY, NM

Sampling Date:

06/20/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-1 5' (H601366-05)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte

Result

<16.0

Reporting Limit

16.0

Analyzed 06/24/2016 Method Blank ND

BS

416

% Recovery 104

True Value QC 400

RPD

0.00

Qualifier

Sample ID: S-2 1' (H601366-06)

Analyte

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

% Recovery

104

True Value QC

Qualifier

Chloride

Chloride

5040

Result

1800

Result

Reporting Limit 16.0

Reporting Limit

16.0

Analyzed 06/24/2016 Method Blank ND

BS 416

BS

416

400

RPD 0.00

Chloride

Sample ID: S-2 2' (H601366-07)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Analyzed

06/24/2016

Method Blank

% Recovery

104

True Value QC

400

400

RPD

Sample ID: S-2 3' (H601366-08)

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Method Blank

ND

True Value QC % Recovery

RPD 0.00

0.00

Qualifier

Qualifier

Qualifier

Chloride

Result 32.0

16.0

Reporting Limit

Analyzed 06/24/2016

ND

ND

BS 416

416

104

Chloride

Sample ID: S-2 4' (H601366-09)

Chloride, SM4500Cl-B Analyte

mg/kg

Analyzed By: HM

Reporting Limit Result 06/24/2016 112 16.0

Analyzed

Method Blank BS

% Recovery 104

True Value QC 400

RPD 0.00

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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:

06/22/2016

Reported:

06/24/2016

Project Name:

EMERALD PW 20 62H

Project Number: Project Location: 700794.191.01 EDDY COUNTY, NM Sampling Date: Sampling Type:

06/20/2016

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-2 5' (H601366-10)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte

Reporting Limit Result

Analyzed

Method Blank

BS

True Value QC % Recovery

RPD

Qualifier

Chloride

ND

416

104 400 0.00 06/24/2016 16.0 48.0

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*=Accredited Analyte

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Celleg D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 6



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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keens



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

LIES LIND MULTINAM	REMARKS:	3	manh		7
Yes No	Phone Result:)	Received By:	sy: TDang: \cap / / \range R	Relinquished By:
, , , , , , , , , , , , , , , , , , ,	rred by client, its subcidiaries, tated reasons or otherwise.	tions, loss of use, or loss of profits incu	ut Ilphation, business interrup il regardless of whether such	aliayate, Au claims including those for inspigence with any const cause windersown state a measure waves unseember of measure and reserved to see the control of the substitution of the control of the control of the substitution of the control of the control of the substitution of the control of the control of the substitution of the control of the control of the substitution of the control of	analyses, Au claims inclusions and service, in no event shall
the contract of the contract o	ount paid by the client for the	intract or tort, shall be limited to the am	im arising whether based in or	PLEASE NOTE: Lability and Damages. Cominate liability and client's exclusive remedy for any claim aciding whether based in contract of the State by limited in the amount pied by the client's state of the contract of the state of the state of the contract of the state of the	PLEASE NOTE: LIABILY
				5-2 5'	-/0
				5-2 4' 6	7
				5-2 3'	100
				8-2 2'	5
				5-2 /	-6
				5-1 5	7
				5-1 4'	h-
	1			5-1 2	d
				5-1 2' 6	ىلە
	1/01/00	1 6/2		5-11'	1
	DATE, TIME	SLUDG OTHER ACID/B ICE / C OTHER	GROU	(G)RAB	160%
	Mori	ASE: OOL	AINERS NDWATER WATER	Sample I.D.	Lab I.D.
	SAMPLING	PRESERV.	MATRIX		FOR LAB USE ONLY
	le	Fax#:		* Kim Wilson	Sampler Name:
	1	Phone #:		on: Eddy Cty	Project Location:
		State: Zip:		Engrald fur 20 62 H	Project Name:
		City:	leibre	794, 191.01 Project Owner: 1	Project #: 7007
		Address:	-8905	Phone #: 575-746-8768 Fax #: 575-746-8905	Phone #: 575
		Attn:	zip: 88210	State: NM	city: Artesia
	Talon/LPE	Company: Talor		Texas Ave.	Address: 408 W.
		P.O. #:			Project Manager:
ANALYSIS KEQUEST				e: Talon/LPE	Company Name:
	and the second s				

Sample Condition
Cool Infact
Yes Yes
No No

CHECKED BY:

Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relinquished By:

Time:

Received By