Devon Energy Production Co LP

Goodnight 1 Fee No. 1H 2RP-564 Closure

Unit Letter G, Section 1, T12S, R28E Chaves County, New Mexico

30-005-64132

October 27, 2016



Prepared for:

Devon Energy Production Co., LP PO Box 250 Artesia, New Mexico 88211

By:

Safety & Environmental Solutions, Inc. 703 East Clinton Street Hobbs, New Mexico 88240 (575) 397-0510

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I. Company Contacts

Representative	Company	Telephone	E-mail		
Brett Fulks	Devon Energy Prod.	575-748-1844	Brett.Fulks@dvn.com		
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com		

II. Background

This closure report will address open 2RP-564 for drilling fluids and produced water released on January 5, 2011 and 2RP-812 for the acid and water on June 9, 2011.

The drilling fluids and produced water spill occurred on January 5, 2011 and is located approximately 34 miles east of Roswell, New Mexico. The legal location for the site is Section 1, T12S, R28E, Chaves County, New Mexico. The Latitude/Longitude for the release is 32.30707 and -104.08448. A Form C-141 was approved on January 11,2011.

A total of 2,300 barrels of drilling fluids and produced water resulted from the spill. Sixty-five barrels were immediately recovered and the impacted areas were scraped. These areas are located south and west of the location and down a two track ranch road approximately 0.25 mile where it pooled. Devon excavated 0.25 miles of the two track road from the location to the pooling area to a depth of three feet. Devon then refilled the road with new caliche. The pooling area south of location is estimated to be 345' long x 155' wide. The flow path to the west of location is estimated to be 96' long x 207' wide, where it then narrowed to 27' wide by 670' long. The pooling area off the two track road is estimated to be one 165' long x 87' wide. A site plan illustrating the impacted areas is attached.

The acid/water spill occurred on June 8, 2011 and is much smaller in volume and extent of the first spill and was primarily contained within the well pad and on top of the original drilling fluids/produced water spill. A total of 220 barrels of the 300 barrel acid/water mix was immediately recovered. The affected areas were 145' x 81' on the pad and 135' by 20' just off the pad behind the tanks. A Form C-141 was approved on August 9, 2011.

See final C-141s attached to this report.

III. Work Performed

A work plan was submitted by Devon on October 10, 2011 to the NMOCD in a letter from Mr. Darren Smith and approved via email from Mr. Jim Griswold on October 15, 2012. In May 2016, Safety& Environmental Solutions, Inc. (SESI) determined horizontal extent of contamination at the release site using field chloride sampling. After the horizontal delineation, RDL hauled off 7,280 cubic yards of contaminated soil to an approved NM facility, and then brought back 7,272 cubic yards of fill dirt. RDL executed the approved work plan which was completed June 2016.

IV. Request for Closure

Devon respectfully requests the closure of 2RP-564 for drilling fluids and produced water released on January 5, 2011 and 2RP-812 for the acid and water on June 9, 2011.

V. Figures & Appendices

Appendix A – C-141s

Appendix B – Groundwater

Appendix C – Analytical Results

Appendix A Final C-141

<u>District I</u> 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

State of New Mexico Energy Minerals and Natural Resources

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

Oil Conservation Division 1220 South St. Francis Dr.

Attached

Form C-141

Revised August 8, 2011

1220 S. St. Fran	icis Dr., Sant	a re, NM 8/50	5	S	anta F	e, NM 875	505					
			Rele	ease Notifi	catio	n and Co	orrective A	ction				
						OPERA'	ΓOR		Initial Report		Final Repor	
Name of Co						Contact:		· -				
		ction Compa					oya, Drilling Su		t			
Facility Na		Rivers Hwy					No. 575-748-993	35				
racinty iva	ine. Good	ingin i ree				Facility Type:						
Surface Ow	mer:			Mineral (Owner:			Lea	ase No 1H			
				LOCA	ATIO	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/West L	ine County			
G	1	12 S	28E	2585	North	1	1980	East	Chaves			
	•	Latitude	33 deg 1	8'25.961'		Longitud	le 104 deg 05'	03.364				
Type of Rele				NAI	UKE	Volume of		Volu	me Recovered			
Drilling fluid		2				Estimated :		65 b		•		
	Source of Release:						lour of Occurrence		and Hour of D	iscovery	y	
	Unexpected water flow Was Immediate Notice Given?						01/05/11-4:00AM 01/05/11-4:00AM If YES, To Whom?					
was inimicula	ate Notice (Yes [No Not R	equired		whom:					
By Whom? Ralph Monto						Date and H						
Was a Water		ched?	-	-		01/07/10-1 If YES, Vo	lume Impacting t	he Watercours	se.			
			Yes 🗵	No		11 1 2 5, You make Amparating the Water course.						
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.*	k								
n/a												
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1,323' when 1	kick occurr	ed. Due to the	pressure	of the old injection	n zone	and the limitat	ions of well contr	ol, a 2300 bbl	spill occurred.	Proper	diversion	
				e spill by filling u				.,	op ovenien	oper	41,4101011	
Calle were m	ade to get v	ocuum truoks	hook hoe	s, bulldozers, and	l dumn i	branden to small	sito ASAD					
Describe Are					uump (ilucks to well s	SILE ASAF.				-	
To date we ha	ave hauled	off 48 yards o	f contamir		ly-Marl	ey salt disposa	l and land fill. Ta	lon LPE, is go	oing out to test	soil and	recommend	
remediation v				is true and somm	loto to t	ha hast of my	knowledge and u	n dougton d that	mumou omt to ND	MOCD =	l d	
regulations al	l operators	are required to	o report an	d/or file certain r	elease n	ne best of my notifications ar	id perform correct	nderstand that tive actions fo	r releases which	th may e	ules and indanger	
public health	or the envir	conment. The	acceptance	e of a C-141 repo	ort by th	e NMOCD ma	arked as "Final Ro	eport" does no	t relieve the op	erator of	f liability	
should their o	perations h	ave failed to a	dequately	investigate and r	emediat	te contamination	on that pose a three	eat to ground	water, surface v	vater, hu	ıman health	
federal, state,				tance of a C-141	report o	ioes not renev	e the operator of r	esponsibility	for compliance	with any	y otner	
				 			OIL CONS	SERVATION	ON DIVISI	ON		
Signature:	1/	to A										
Signature.	11/100	<i>y</i> . <i>V</i>				Annroyed by	Environmental Sp	necialist:				
Printed Name	: Brett Fulk	S				Approved by	Phytronniental of	ocialist.				
Title: EHS Re	enresentativ	e				Approval Date	e·	Expirat	tion Date:			

Conditions of Approval:

Phone: 575-748-1844

Date: 0/27/16

E-mail Address: Brett.Fulks@dvn.com

^{*} Attach Additional Sheets If Necessary

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

Form C-141 Revised August 8, 2011

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 Notifica	atio	n and Co	orrective A	ction			
	_					OPERA'	ΓOR		Initial Report		
Name of Co		4: C	T D			Contact:	C 1	Г			
Devon Ener		tion Compai Rivers Hwy-		250			re, Completions No. 575-748-01				
Facility Nar						Facility Typ					
Surface Ow	mer:			Mineral Ov	wner.		_	Les	ase No.		
Barrace Ow	1101.				. 11			Let	350 140.		
Unit Letter	Section	Township	Range			N OF RE	Feet from the	East/West L	ine County		
	Section				1401 (11	/South Effic			County		
G	1	12 S	28E	2585	North		1980	FEL	Chaves		
			1	atitude		_ Longitud	e				
				NATU	JRE	OF REL	EASE				
Type of Rele						Volume of	Release:		me Recovered:		
Acid/Water n						300 barrels	lour of Occurrenc		parrels and Hour of Discovery		
Was Immediate Notice Given?						06-09-11	- 5:17 a.m.		9-11 - 5:17 a.m.		
Was Immedia	ate Notice C		Yes 🗵	No Not Req	mired	If YES, To	Whom?				
			103	THE METRO	uncu						
By Whom?			-			Date and H	lour:				
Was a Watero	course Reac		Yes 🗵] No		If YES, Volume Impacting the Watercourse.					
If a Watercou	irse was Imp	pacted, Descri	be Fully.*	k							
Describe Cau				n Taken.* cid to leak out beca	use it	did not have a	tight seal				
Describe Area	a Affected a	ind Cleanup A	ction Tak	en.*							
				nks. Initial cleanup				ndorstand that	pursuant to NMOCD rules and		
regulations al	l operators :	are required to	report an	d/or file certain rel	ease n	otifications ar	nd perform correc	tive actions fo	r releases which may endanger		
									t relieve the operator of liability water, surface water, human health		
or the environ	ment. In a	ddition, NMO	CD accep						for compliance with any other		
federal, state,	or local lav	s and/or regu	lations.				OH COM	TED I LA COL	0) I DW (1010) I		
	Brett	-Er -					OIL CONS	SERVATIO	ON DIVISION		
Signature:	Just	JI			_						
Printed Name	: Brett Fulk	s				Approved by	Environmental Sp	pecialist:			
Title: EHS Re	epresentativ	e				Approval Dat	e:	Expirat	tion Date:		
E-mail Addre		***				Conditions of		•	_		
				DI <i>EGE GA</i> O 10					Attached		
Date: 0/27/1	O			Phone: 575-748-18	44				1		

^{*} Attach Additional Sheets If Necessary

Appendix B Groundwater



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,

erves a 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		_	_	^						Donath	Dandh	Watan
POD Number	Sub- Code basin	County	_	Q 16	_	Sec	Tws	Rng	х	Y	•	•	Water Column
RA 10635		СН	3	3	4	02	12S	28E	583539	3684960* 🌍	200	140	60
RA 11198 POD1		СН	3	4	2	18	12S	28E	577551	3682494* 🌍	180	150	30

Average Depth to Water: 145 feet

Minimum Depth: 140 feet

Maximum Depth: 150 feet

Record Count: 2

PLSS Search:

Township: 12S Range: 28E

Appendix C Analytical Results



August 07, 2012

MIKE STUBBLEFIELD
TALON LPE
408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: GOODNIGHT 1 FEE # 1 H

Enclosed are the results of analyses for samples received by the laboratory on 08/06/12 14:06.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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. Keeno

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
MIKE STUBBLEFIELD
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

 Received:
 08/06/2012
 Sampling Date:
 06/20/2012

 Reported:
 08/07/2012
 Sampling Type:
 Soil

Reported: 08/07/2012 Sampling Type: Soil
Project Name: GOODNIGHT 1 FEE # 1 H Sampling Condition: ** (

Project Name: GOODNIGHT 1 FEE # 1 H Sampling Condition: ** (See Notes)
Project Number: 700794.005 Sample Received By: Jodi Henson

Project Location: 1-12-28

Sample ID: B - 1 20' (H201824-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	08/07/2012	ND	416	104	400	3.92	
Sample ID: B - 1 40' (H2	201824-02)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/07/2012	ND	416	104	400	3.92	
Sample ID: B - 1 60' (H2	201824-03)								
Chloride, SM4500CI-B	mg	/kg	Analyzed By: HM						
Analyte									
/	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	Result 160	Reporting Limit	Analyzed 08/07/2012	Method Blank ND	BS 416	% Recovery	True Value QC 400	RPD 3.92	Qualifier
Chloride	160		•			•	·		Qualifier
Chloride Sample ID: B - 1 80' (HZ	160	16.0	08/07/2012			•	·		Qualifier
•	160 201824-04)	16.0	08/07/2012	ND		•	·		Qualifier Qualifier

Cardinal Laboratories *=Accredited Analyte

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

Received: 08/06/2012 Sampling Date: 06/20/2012

Reported: 08/07/2012 Sampling Type: Soil

Project Name: GOODNIGHT 1 FEE # 1 H Sampling Condition: ** (See Notes)
Project Number: 700794.005 Sample Received By: Jodi Henson

Project Location: 1-12-28

Sample ID: B - 1 100' (H201824-05)

Chloride, SM4500Cl-B	mg	mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/07/2012	ND	416	104	400	3.92	
Sample ID: R - 1 120' (H	1201824-06)								

Sample ID: B - 1 120' (H201824-06)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/07/2012	ND	416	104	400	3.92		

Sample ID: B - 1 140' (H201824-07)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14400	16.0	08/07/2012	ND	416	104	400	3.92	

Sample ID: B - 1 160' (H201824-08)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit Analyzed		Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4700	16.0	08/07/2012	ND	416	104	400	3.92	

Sample ID: B - 1 180' (H201824-09)

Chloride, SM4500Cl-B	mg/	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	212000	16.0	08/07/2012	ND	416	104	400	3.92	

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

Received: 08/06/2012 Sampling Date: 06/20/2012

Reported: 08/07/2012 Sampling Type: Soil

Project Name: GOODNIGHT 1 FEE # 1 H Sampling Condition: ** (See Notes)
Project Number: 700794.005 Sample Received By: Jodi Henson

Project Location: 1-12-28

Sample ID: B - 1 200' (H201824-10)

Chloride, SM4500CI-B mg/kg Analyzed By: HM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 464000 08/07/2012 ND 400 4.08 16.0 100 400

Sample ID: B - 1 220' (H201824-11)

Chloride, SM4500Cl-B Analyzed By: HM Analyzed BS True Value QC RPD Analyte Result Reporting Limit Method Blank % Recovery Qualifier Chloride 480000 16.0 08/07/2012 400 400 4.08 ND 100

Sample ID: B - 1 240' (H201824-12)

Chloride, SM4500Cl-B mg/kg Analyzed By: HM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 496000 08/07/2012 400 400 4.08 16.0 ND 100

Sample ID: B - 1 260' (H201824-13)

Chloride, SM4500Cl-B mg/kg Analyzed By: HM Reporting Limit True Value QC RPD Analyte Result Analyzed Method Blank BS % Recovery Qualifier Chloride 512000 16.0 08/07/2012 ND 400 100 400 4.08

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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101 East Marland, Hobbs, NM 88240

	(575) 393-2326 FAX (575) 393-2	176							
Company Name				BILL 7	0		ANALYSIS	S REQUEST	
Project Manager	" Savid Hokins			P.O. #:					
Address: 40	r: April Hakins 18 W. Jefas Sia State: 111			Company: Lal	an/IPE				171444
city: Arto	State: WI	7 Zip: /	88210	Attn:	- 1				777
Phone #: 579	State: M1. 5-746-8768 Fax #: 575	5-746	5-8905	Address:		13			13.27
	00794,005 Project Own			City:		1.2			
Project Name:		+ 14		State: Zip:		777			
Project Location	a . ~ . ~	- /		Phone #:		0			5
Sampler Name:	Mike Stubbleties	1		Fax #:		20			
FOR LAB USE ONLY	and the head of the same and the same the same that the same that the same		MATRIX	PRESERV. SAI	VIPLING				
mile Elderman weeklige		(C)OMP.	H K						
Lab I.D.	Sample I.D.	(G)RAB OR (C)C # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	R: 3ASE: COOL R:		ata			
H201824		(G)RAB OR # CONTAIN	GROUND WASTEW SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	TE TIME				
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2	B-1 40'	6		1 6/24	12	<u>ح</u> ال ا			
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ч	13-1 80'	Ġ_		16/20	112	<u> </u>			100
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	B-1 120'	6		6/20	112	X			
7	B-1 1405	9		1 6/20	112		<u> </u>		
8	8-1 100'	9		6/31	112	$X \longrightarrow$			
9	13-1 180'	6		6/2	2/12	X			
10	B-1 2001	6		/ 6/20	11.1				
analyses. All claims including	nd Damages. Cardinal's fiability and client's exclusive remedy fing those for negligence and any other cause whatsoever shall	e deemed waive	ed unless made in writing and	received by Cardinal within 30 da	ys after completion of th	ne applicable			
affiliates or successors arisin	ardinal be liable for incidental or consequental damages, inclu- ng out of or related to the performance of services hereunder b	y Cardinal, regar			ted reasons or otherwise	se,			
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CHECKED BY:

Sample Condition

Cool Intact
Ves Ves

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:



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

Company Name:	Talen /	LPE	ii.								BI	LL TO						AN	ALY	SIS	REQ	UES	τ			
Project Manager	David	Holkins							.0.						T											
Address: 40	8 11). 17	CNASLA						C	om	pany	<i>ا: با</i>	Talon)			21										1
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Phone #: 575	7-746-8	768 Fax #: 575	-17	4/1		390	ر المعادي المعادي	А	ddı	ess:																
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PLEASE NOTE: Liability and analyses. All claims including	d Damages. Cardinal's liabil g those for negligence and a	lity and client's exclusive remedy for a any other cause whatsoever shall be	ny clair deemed	m arisi d waive	ng wheth	ner based s made in	d in con	tract or t	ort, sh	all be li	mited dinal v	to the amount pai vithin 30 days afte	id by the client er completion o	for the the applica	ble							ar markey				
service. In no event shall Ca affliates or successors arising	rdinal be liable for incidenta g out of or related to the per	al or consequental damages, including rformance of services hereunder by C	withou	ıt limita	ation, bus	siness int	terruptio	ons, loss	of use	e, or los	s of pr	rolits incurred by	client, its subsid	llaries,												
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Sampler - UPS	- Bus - Other	,	3	16		Yes 4 No	3 4	Yes No		4	1	N					**************************************									



June 06, 2016

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: DEV-16-009

Enclosed are the results of analyses for samples received by the laboratory on 05/31/16 8:00.

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/ga/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



Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 05/31/2016

06/06/2016

Sampling Date: Sampling Type: 05/27/2016

Soil

Reported: Project Name: DEV-16-009

Sampling Condition: Sample Received By:

** (See Notes) Jodi Henson

Project Number:

Analyte

Analyte

Analyte

Analyte

NONE GIVEN

Project Location: NOT GIVEN

Sample ID: SP - 1 (H601179-01)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

BS

416

% Recovery

104

True Value OC

Oualifier

Chloride

Result 224

16.0

Reporting Limit

Reporting Limit

Reporting Limit

16.0

Reporting Limit

16.0

06/02/2016

Analyzed

Analyzed

Analyzed

06/02/2016

Analyzed

06/02/2016

RPD 7.41

Sample ID: SP - 2 (H601179-02)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Method Blank

ND

400

Chloride

Chloride

Result <16.0

Result

<16.0

Result

208

16.0 06/02/2016 Method Blank ND

BS 416 % Recovery 104

True Value QC 400

RPD Qualifier 7.41

Sample ID: SP - 3 (H601179-03)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

BS

416

% Recovery

104

True Value QC

RPD

Qualifier

Sample ID: SP - 4 (H601179-04)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Method Blank

ND

Method Blank

ND

BS

416

% Recovery

104

400

True Value QC

400

7.41

RPD

7.41

Qualifier

Chloride

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Kreene



Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 05/31/2016

06/06/2016

Sampling Date:

05/27/2016

Reported: Project Name: DEV-16-009

Sampling Type:

Soil ** (See Notes)

Project Number:

NONE GIVEN

Sampling Condition: Sample Received By:

Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: SP - 5 (H601179-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/03/2016	ND	416	104	400	0.00	

Sample ID: SP - 8 (H601179-06)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/03/2016	ND	416	104	400	0.00	

Sample ID: SP - 11 (H601179-07)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/03/2016	ND	416	104	400	0.00	

Sample ID: SP - 12 (H601179-08)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/03/2016	ND	416	104	400	0.00	

Sample ID: SP - 13 (H601179-09)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/03/2016	ND	416	104	400	0.00	

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Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 05/31/2016

Reported: 06/06/2016

Project Name: DEV-16-009
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/27/2016

Sampling Type:

Sampling Condition: ** (See Notes)

Sample Received By: Jodi Henson

Soil

Sample ID: SP - 14 (H601179-10)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/03/2016	ND	416	104	400	0.00	

Sample ID: SP - 15 (H601179-11)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/03/2016	ND	416	104	400	0.00		

Sample ID: SP - 16 (H601179-12)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/03/2016	ND	416	104	400	0.00	

Sample ID: SP - 17 (H601179-13)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/03/2016	ND	416	104	400	0.00	

Sample ID: SP - 18 (H601179-14)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/03/2016	ND	416	104	400	0.00	

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Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 05/31/2016

Reported:

Project Name:

Project Number:

05/31/2016 Sampling Date: 06/06/2016 Sampling Type: DEV-16-009 Sampling Condition

Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

05/27/2016

Soil

Project Location: NOT GIVEN

NONE GIVEN

Sample ID: STOCK PILE #1 C-1 (H601179-15)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	06/03/2016	ND	416	104	400	0.00	

Sample ID: STOCK PILE #2 C-2 (H601179-16)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/03/2016	ND	416	104	400	0.00	

Sample ID: STOCK PILE #3 C-3 (H601179-17)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/03/2016	ND	416	104	400	0.00	

Sample ID: STOCK PILE #4 C-4 (H601179-18)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/03/2016	ND	416	104	400	0.00	

Sample ID: STOCK PILE #5 C-5 (H601179-19)

Chloride, SM4500CI-B	` mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	06/03/2016	ND	416	104	400	0.00	

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Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 05/31/2016 Sampling Date:

05/27/2016

Reported: Project Name: 06/06/2016

Sampling Type:

Soil

Project Number:

DEV-16-009 NONE GIVEN

Sampling Condition: Sample Received By: ** (See Notes) Jodi Henson

Project Location:

Analyte

NOT GIVEN

Sample ID: STOCK PILE #6 C-6 (H601179-20)

Chloride, SM4500Cl-B

Reporting Limit

16.0

Analyzed By: AP

True Value QC

400

Qualifier

Chloride

Result 6320

16.0 06/03/2016 Method Blank ND

BS 416

RPD

Sample ID: STOCK PILE #7 C-7 (H601179-21)

Chloride, SM4500Cl-B

Analyzed By: AP

Analyte Chloride

Result

368

Reporting Limit Analyzed 06/03/2016

Analyzed

Method Blank ND

BS 416 % Recovery 104

% Recovery

104

True Value QC 400

RPD 0.00

0.00

Qualifier

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Celeg D. Keene



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

Company Name:	Safety and	Environmental Solutions	07	8/1	BILL TO		ANA	ANALYSIS REQUEST	
Project Manager:	r: Bob Allen			P.O. #:					
Address: 7(703 East Clinton, PO Box 1613	613		Company: S	Same		*************		*****************************
City: Ho	Hobbs State: NM	Zip:	88240	Attn:					
Phone #: 575	575 397-0510 Fax #:	575 393-4388	8	Address:		Frie Barole, Frie			
Project #: DEV-16-009		Project Owner:		city:		and the same			
Project Name:				State:	Zip:				
Project Location:				Phone #:					
Sampler Name:				Fax #:		ej			
FOR LAB USE ONLY			MATRIX	PRESERV	SAMPLING	d			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE	Chlor			
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Sampler - UPS - Bus - Other Police	Delivered By: (Circle One)		Relinquished By:	Law man	1	Relinquished By: Date: Received By:
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23.60 Cool Intact	Sample Condition		Received By:	and July	708.	Received By:
Mais)	CHECKED BY:			LICHARY -		
				REMARKS:	Fax Result:	Phone Result:
					□ Yes	□ Yes
					□ No	□ No
					Add'l Fax #:	Add'l Phone #:
Printer and a second assessment	THE REAL PROPERTY.			٠		

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

	5/5) 393-2326	(5/5) 383-24/1					- 1
Company Name:	Safety and	Environmental Solutions	olutions	BILL 10			ANALYSIS REQUEST
Project Manager:	Bob Allen			P.O. #:			
Address: 7(703 East Clinton, PO	Box 1613		Company: Same			
city: Ho	Hobbs	State: NM	Zip: 88240	Attn:			
Phone #: 575	575 397-0510	Fax #: 575 3	393-4388	Address:	NO VIEW ALC FIRM		
Project #: De	Dev-16-609	Project Owner:		City:	N. W. Print		
Project Name:				State: Zip:			
Project Location:				Phone #:			
Sampler Name:				Fax #:	40		
FOR LAB USE ONLY			MATRIX	PRESERV. SAMPLING			
Lab I.D.	Sample I.D.	D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	Chloric		
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12	51-16		0,1	05/17	(320		
13	SP-17		8	ostu	1345		
14	81-45		15	05/27	1900		
70=	Starte Rice of	5	5-6	05/27	(500)		
17	Stack Plants	C-3	6-	05/67	(525)	3	
18	track puls or	Cet	6	05/17	1840		
10	Stark Pilory	5-5	6	05/27	(600)		
PLEASE NOTE: Liability and	TOCK POUS 66 Damages, Cardinal's liability and dier	nt's exclusive remedy for an	20 STOCK PCLIS TO COME CONTROL OF	r tort, shall be limited to the amount pai	1620 X		
analyses. All claims including analyses. All claims including service. In no event shall Caraffikates or successors arising	TLEASE WHE: Jubinity and Jernages, Jeaunia's atomic and any other or malyses. All claims including those for negligence and any other or revice. In no event shall Cardinate be label for incidental or conseq infliates of sevents arising out of or related to the performance.	ause whatsoever shall be de use whatsoever shall be de uental damages, including virial factories hereunder by Ca	T.L.A.S.E. W. I.E. Jability and Jehnages. Jedinials satisfy and refers exclusive transply for any demination where the activation analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 3d alogs after competed on 4 the applications. In no event shall Cardinal be liable for incidental or consequential damages, including without intration, business interpretations, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or subsections 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.	received by Cardinal within 30 days after so of use, or loss of profits incurred by based upon any of the above stated rev	pplica	ble	
Relinquished By	my	Date 03/31/16	Received By:	Jenson	Phone Result: Fax Result: REMARKS:	☐ Yes ☐ No	Add'l Phone #: Add'l Fax #:
Relinquished By:	-	Date:	Received By:	×			

nortestal ---



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

	Coulon mine control of the control				
Project Manager:			P.O. #:		
Address:	703 East Clinton, PO Box 1613	613	Company: Same		
City:	Hobbs State: NM	NM Zip: 88240	Attn:		
Phone #: 5	575 397-0510 Fax #:	575 393-4388	Address:	3204.40	
Project #DH	Project #1) EU-16-009 Project	Project Owner:	City:		
Project Name:			State: Zip:		
Project Location:	on:		Phone #:	P	
Sampler Name:			Fax #:	le	
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	~	
Lab I.D. H681)79	Sample I.D.	(G)RAB OR (C)OME # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	Chlor	
2		5	7.73	*	
2	Show wile - (C-)		67/27 (043	X	

Relinquished By:

Sampler - UPS - Bus - Other:

CONTRACTOR

23.60

Sample Condition
Cool Intact
Yes Pres
Two No

Delivered By: (Circle One)

Relingarished By

Date: 05/31/16 Time: 0 1000

Received By

Phone Result: Fax Result: REMARKS:

☐ Yes

□ No

Add'l Phone #: Add'l Fax #:

Date: Time:

Received By:

service. In no event shall Cardinal be liable