



December 1, 2015

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

AMARILLO
921 North Bivins
Amarillo, Texas 79107
Phone 806.467.0607
Fax 806.467.0622

ARTESIA
408 West Texas Ave.
Artesia, New Mexico 88210
Phone 575.746.8768
Fax 575.748.8905

HOBBS
318 East Taylor Street
Hobbs, New Mexico 88241
Phone 505.393.4261
Fax 505.393.4658

MIDLAND
2901 State Highway 349
Midland, Texas 79706
Phone 432.522.2133
Fax 432.522.2180

OKLAHOMA CITY
430 West Wilshire, Suite 10
Oklahoma City, Oklahoma 73116
Phone 405.486.7030
Fax 806.467.0622

SAN ANTONIO
13111 Lookout Way
San Antonio, Texas 78233
Phone 210.265.8025
Fax 210.568.2191

Subject: **Soil Assessment and Remediation Work Plan**
Pyote Water Solutions, LLC
Rohmer #1 SWD
30-015-25722 (2RP-1916)

Dear Mr. Bratcher

Pyote Water Solutions, LLC (Pyote) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the Rohmer #1 SWD. The results of our soil assessment and proposed remediation activities consist of the following.

Background Information

The Rohmer #1 SWD is located approximately 6 miles southeast of Carlsbad, New Mexico. The legal Location for this site is Unit letter F, Section 23, Township 22 South, and Range 27 East. More specifically the latitude and longitude for this site are 32.379989 North and -104.162618 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 the Upton gravelly loam with 0 to 9 percent slopes. Drainage courses in this area are normally dry. Ground water in the project vicinity is approximately 45-feet below ground surface (bgs) according the New Mexico Office of the State Engineer. [Appendix II](#).

The ranking for this site is **20** based on the following:

Depth to ground water	<50'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Toll Free: 866.742.0742
www.talonlpe.com

Incident Description

A high pressure discharge line spit due to a switch failure resulting in a release of approximately 60bbls of produced water. The fluid flowed from the release point to the north-northwest behind the storage tanks for approximately 152-feet. The fluid penetrated the earthen containment berm on the west side of the battery and entered the pasture on private land. This area of the release was remediated previously as described below.

Remedial Activities

Talon was initially contracted to assist in the remediation of the impacted soil on the private pasture land. The impacted area on the private pasture land measured approximately 47-feet by 70-feet. The area was excavated to a depths between 1-foot and 4.5-feet bgs. All of the laboratory results from the soil sampling in this area were presented to NMOCD and this portion of the remediation was subsequently closed.

On October 28, 2015 Talon mobilized personnel to collect soil samples within the impacted area inside of the battery to complete vertical and horizontal delineation activities per NMOCD guidelines. Due to the rockiness of this area refusal was encountered at a depths varying between 8-feet and 9-feet bgs. Laboratory results from this soil sampling event are summarized in the table below.

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-7	0	--	12800	--	--
S-7	1	--	6480	--	--
S-7	2	--	5920	--	--
S-7	3	--	5760	--	--
S-7	4	--	3920	--	--
S-7	5	--	976	--	--
S-7	6	--	528	--	--
S-7	7	--	528	--	--
S-7 Refusal	8	--	1340	--	--
S-8	0	--	19600	--	--
S-8	1	--	3640	--	--
S-8	2	--	3680	--	--
S-8	3	--	3880	--	--
S-8	4	--	3120	--	--
S-8	5	--	2800	--	--
S-8	6	--	1320	--	--
S-8	7	--	920	--	--
S-8	8	--	960	--	--
S-8 Refusal	9	--	1660	--	--
S-9	0	--	5040	--	--

(--) Analyte Not Tested

(ND) Analyte Not Detected

Based upon the site ranking of **20**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 100 mg/kg for TPH, and 1,000 mg/kg for Chloride.

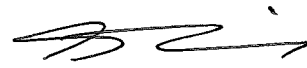
Proposed Remedial Actions

- The impacted area inside of the battery in the vicinity of sample locations S-7 and S-8 will be excavated to a depth of 4-feet bgs.
- The excavation will be extended horizontally in the direction of sample location S-9 utilizing field chloride titrations as a guide. Once field results indicate that all of the soil above the RRAL for chloride has been removed a confirmation soil sample will be taken to demonstrate that the horizontal extent of the release has been successfully remediated.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- A 20-mil reinforced liner padded with felt will be installed in the bottom of the excavation to encapsulate the remaining chloride impacts.
- The excavation will be backfilled with caliche and contoured to match the surrounding location.

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

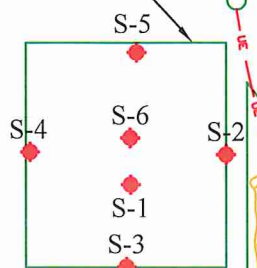
Respectfully submitted,


Sheldon Hitchcock
Project Manager

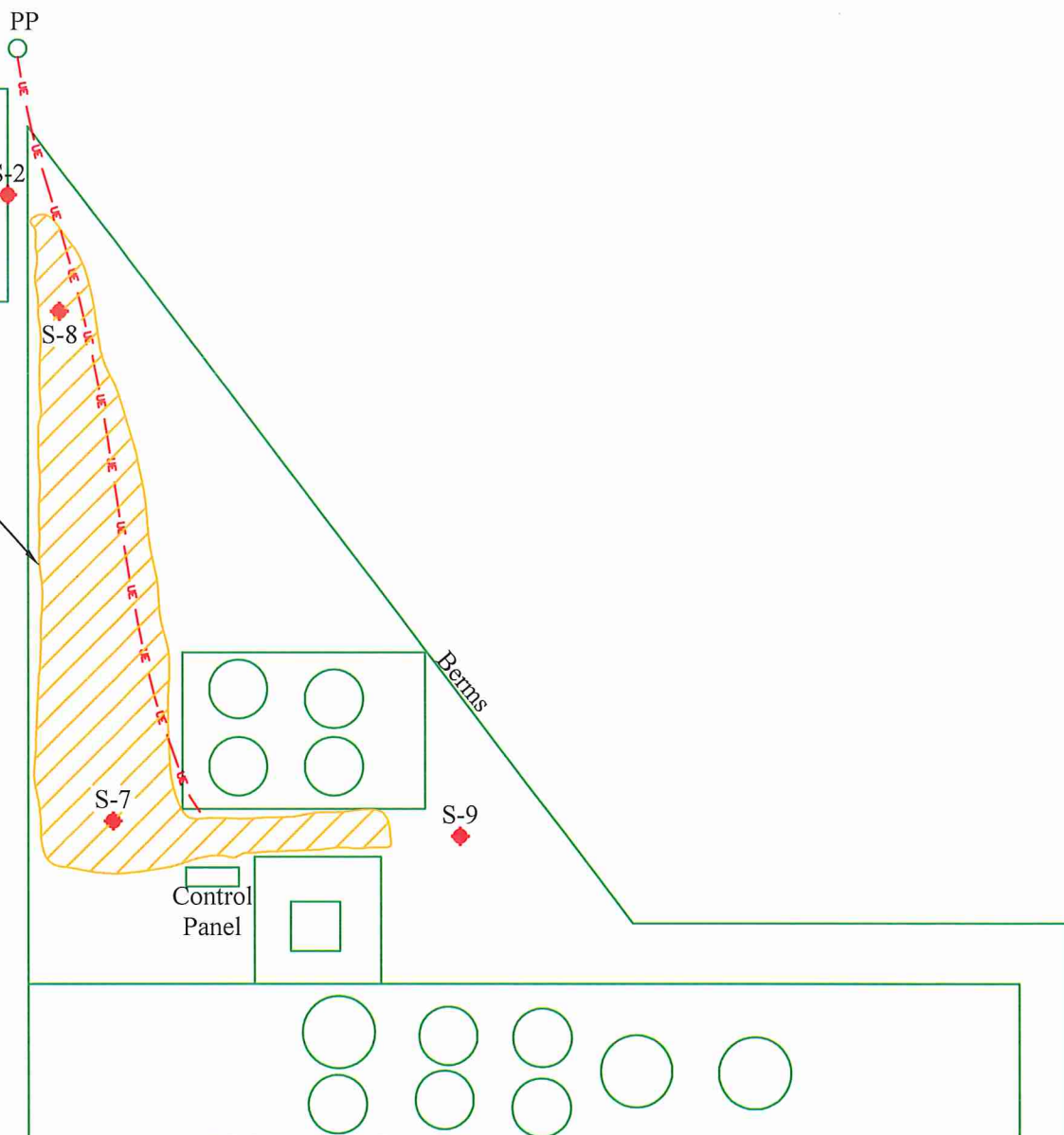

David J. Adkins
District Manager

SITE PLAN

Previously
Remediated
Area



Impacted
Area



NTS



Scale in Feet

Legend

- ◆ - Sample Location
- - - - - Underground Electric Line



Date: 11/09/2015

Scale: NTS

Drawn By: TJS

Rhomer #1
Pyote Water Solutions, LLC
Eddy County, New Mexico
Figure 1 - Site Plan

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 00231 A			ED	1	4	1	23	22S	27E	578666	3582951*	141	178	45	133
C 03063			ED	1	4	1	23	22S	27E	578666	3582951*	141	163	40	123
C 01776	C		ED		3	1	23	22S	27E	578361	3582846*	406	157	40	117
C 01805	C		ED			3	23	22S	27E	578566	3582235*	648	125	98	27
C 01713	C		ED	3	1	3	23	22S	27E	578262	3582339*	719	101	46	55
C 00043	C		ED	3	3	3	14	22S	27E	578256	3583557*	870	120		
C 01242			ED	1	3	3	23	22S	27E	578264	3582133*	877	155	40	115

Average Depth to Water: 51 feet

Minimum Depth: 40 feet

Maximum Depth: 98 feet

Record Count: 7

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 578767

Northing (Y): 3582852

Radius: 1000

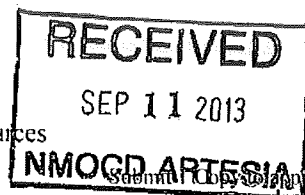
*UTM location was derived from PLSS - see Help

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.

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



Form C-141
Revised August 8, 2011

Submit Copy to Appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

JTBW 1326329033

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Pyote Well Service LLC <i>294873</i>	Contact	Jerry Burton
Address	400 W Illinois Ave STE 950	Telephone No.	432-448-4917
Facility Name	Rhomer #1 SWD BATTERY	Facility Type	Disposal

Surface Owner	FEE	Mineral Owner	FEE	API No.	30-015-25722
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	23	22S	27e	1980 N	N	1980 W	W	EDDY

Latitude 32.3799890160329 Longitude 104.162618544465

NATURE OF RELEASE

Type of Release	PRODUCE WATER	Volume of Release	60 BBLS	Volume Recovered	60 BBLS
Source of Release	high pressure line	Date and Hour of Occurrence	8-28-13	Date and Hour of Discovery	8-28-13
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher		
By Whom?	Jerry Burton	Date and Hour	2:25 pm 8-28-13		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
discharge high pressure line split.
Replaced high pressure line

Describe Area Affected and Cleanup Action Taken.*
on location east corner of private land.
Cleaned up got permissions from land owners to dig out contaminated soil. Will have soil sampled, after cleared will be replaced with fresh top soil.

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:		OIL CONSERVATION DIVISION	
Printed Name: Jerry Burton		Approved by Environmental Specialist: Signed By: <i>M. H. Bratcher</i>	
Title: New Mexico Regional Dist Manager		Approval Date: SEP 20 2013	Expiration Date:
E-mail Address: jerry.burton1961@gmail.com		Conditions of Approval: Remediation per OCD Rule & Guidelines. SUBMIT REMEDIATION PROPOSAL NO LATER THAN:	
Date: 8-29-13	Phone: 432-448-4917	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

OCTOBER 20, 2013

2RP-1916

LABORATORY RESULTS



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

November 04, 2015

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: RHOMER #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 10/29/15 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 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,

Caley D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/29/2015
 Reported: 11/04/2015
 Project Name: RHOMER #1 SWD
 Project Number: 701712.001.01
 Project Location: NOT GIVEN

 Sampling Date: 10/28/2015
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: S-7 0' (H502842-01)

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	11/03/2015	ND	400	100	400	0.00	

Sample ID: S-7 1' (H502842-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6480	16.0	11/03/2015	ND	400	100	400	0.00	

Sample ID: S-7 2' (H502842-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5920	16.0	11/03/2015	ND	400	100	400	0.00	

Sample ID: S-7 3' (H502842-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	11/03/2015	ND	400	100	400	0.00	

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*—Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 10/29/2015
Reported: 11/04/2015
Project Name: RHOMER #1 SWD
Project Number: 701712.001.01
Project Location: NOT GIVEN

Sampling Date: 10/28/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: S-7 4' (H502842-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	11/03/2015	ND	400	100	400	0.00	

Sample ID: S-7 5' (H502842-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	11/03/2015	ND	400	100	400	0.00	

Sample ID: S-7 6' (H502842-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	11/03/2015	ND	400	100	400	0.00	

Sample ID: S-7 7' (H502842-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	11/03/2015	ND	400	100	400	0.00	

Sample ID: S-7 8' REFUSAL (H502842-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	11/03/2015	ND	400	100	400	0.00	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 10/29/2015
Reported: 11/04/2015
Project Name: RHOMER #1 SWD
Project Number: 701712.001.01
Project Location: NOT GIVEN

Sampling Date: 10/28/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: S-8 0' (H502842-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19600	16.0	11/03/2015	ND	400	100	400	0.00	

Sample ID: S-8 1' (H502842-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3640	16.0	11/03/2015	ND	400	100	400	0.00	

Sample ID: S-8 2' (H502842-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	11/03/2015	ND	400	100	400	0.00	

Sample ID: S-8 3' (H502842-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3880	16.0	11/03/2015	ND	400	100	400	0.00	

Sample ID: S-8 4' (H502842-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	11/03/2015	ND	400	100	400	0.00	

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Received: 10/29/2015
Reported: 11/04/2015
Project Name: RHOMER #1 SWD
Project Number: 701712.001.01
Project Location: NOT GIVEN

Sampling Date: 10/28/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: S-8 5' (H502842-15)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	2800	16.0	11/03/2015	ND	400	100	400	0.00			

Sample ID: S-8 6' (H502842-16)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	1320	16.0	11/03/2015	ND	400	100	400	0.00			

Sample ID: S-8 7' (H502842-17)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	920	16.0	11/03/2015	ND	400	100	400	0.00			

Sample ID: S-8 8' (H502842-18)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	960	16.0	11/03/2015	ND	400	100	400	0.00			

Sample ID: S-8 9' REFUSAL (H502842-19)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	1660	16.0	11/03/2015	ND	416	104	400	3.92			

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

Received: 10/29/2015
Reported: 11/04/2015
Project Name: RHOMER #1 SWD
Project Number: 701712.001.01
Project Location: NOT GIVEN

Sampling Date: 10/28/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

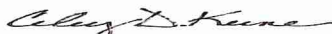
Sample ID: S-9 0' (H502842-20)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	11/03/2015	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

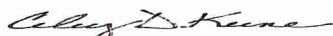
Notes and Definitions

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

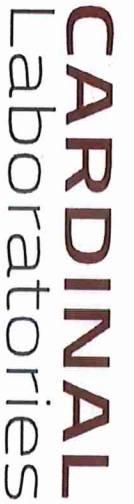
Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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



CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

P&Z OFZ

Company Name: Talon/LPE				BILL TO				ANALYSIS REQUEST																		
Project Manager:				P.O. #:																						
Address: 408 W. Texas Ave.				Company: Talon/LPE																						
City: Artesia				Attn:																						
Phone #: 575-746-8768				Address:																						
Fax #: 575-746-8905				City:																						
Project #:				State:																						
Project Location:				Zip:																						
Sampler Name:				Fax #:																						
FOR LAB USE ONLY																										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV	SAMPLING																	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME												
H502842	5-81	1	1										10/28/15	2:04												
	5-82	1	1											2:06												
	5-83	1	1											2:08												
	5-84	1	1											2:10												
	5-85	1	1											2:12												
	5-86	1	1											2:14												
	5-87	1	1											2:16												
	5-88	1	1											2:18												
	5-89	1	1											2:20												
	5-90	1	1											2:22												
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Relinquished By: <u>Debra S. Received By: <u>Debra S.</u></u>																										
Relinquished By: <u>Debra S.</u> Date: <u>10/28/15</u> Time: <u>2:05</u> Received By: <u>Debra S.</u>																										
Delivered By: (Circle One) <u>21:00</u> Sample Condition <u>Intact</u> CHECKED BY: <u>Debra S.</u>																										
Sampler - UPS - Bus - Other: <u>21:00</u> Cool <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																										
REMARKS:																										

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