



February 4, 2016

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 Avenue
Artesia, New Mexico 88210
Phone 575.746.8768

FORT COLLINS
1811 East Mulberry Street
Fort Collins, Colorado
Phone 970.818.5330

MIDLAND
2301 State Hwy 349
Midland, Texas 79706
Phone 432.522.2133
Fax 432.522.2180

OKLAHOMA CITY
7700 North Hudson Avenue
Suite 10
Oklahoma City, Oklahoma 73116
Phone 405.486.7030

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

WOODWARD
1211 34th Street
Suite 13
Woodward, Oklahoma 73801
Phone 580.377.1194

Subject: Remedial Activities and Closure Report
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. Incident description, soil sampling results, remediation activities and closure request are submitted herein

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.

Initial 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 project 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.

Upon receipt of the laboratory data from the sampling event on October 28, 2015 and correspondence with NMOCD it was determined that further vertical delineation of chloride impacts at this site would be required. An air rotary drilling rig was utilized to delineate the site to a total depth of 20-feet bgs where field chloride titrations indicated that chloride levels were below NMOCD delineation guidelines of 250 mg/kg. Subsequent laboratory analysis confirmed the results of the field chloride titrations. Laboratory results from the soil sampling event are summarized in the table below.

Laboratory Results

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

Assessment Sampling

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	--	--
BH-1	0	ND	34000	ND	250
BH-1	10	--	544	ND	12.9
BH-1	15	--	320	--	--
BH-1	20	--	240	--	--

Confirmation Sampling

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-10	0	--	ND	--	--

(--) 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 Chlorides.

Remedial Actions Taken

- Field chloride titrations were used to define the eastern extent of the impacted area. Once field data indicated that the eastern extent to the release was fully defined a soil sample was taken (S-10) and analyzed at Cardinal Laboratories to confirm the field results.
- The impacted area was excavated to a depth of 4-feet bgs.
- All of the excavated material was hauled to an NMOCD approved solid waste disposal facility.
- A 20-mil reinforced and padded liner was installed in the bottom of the excavation in order to encapsulate the remaining chloride impacts.
- The excavation was backfilled and contoured to match the surrounding location.


Closure

On behalf of Pyote Water Solutions, LLC we respectfully request that no further actions be required and that closure with regard to this release be granted.

If we can provide additional information or be of further assistance, please contact our office at (575)-746-8768.

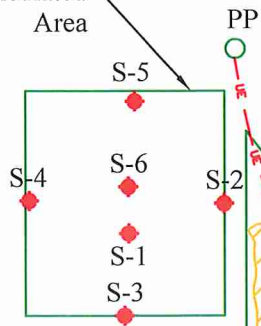
Respectfully submitted,
TALON/LPE


Sheldon Hitchcock
Project Manager

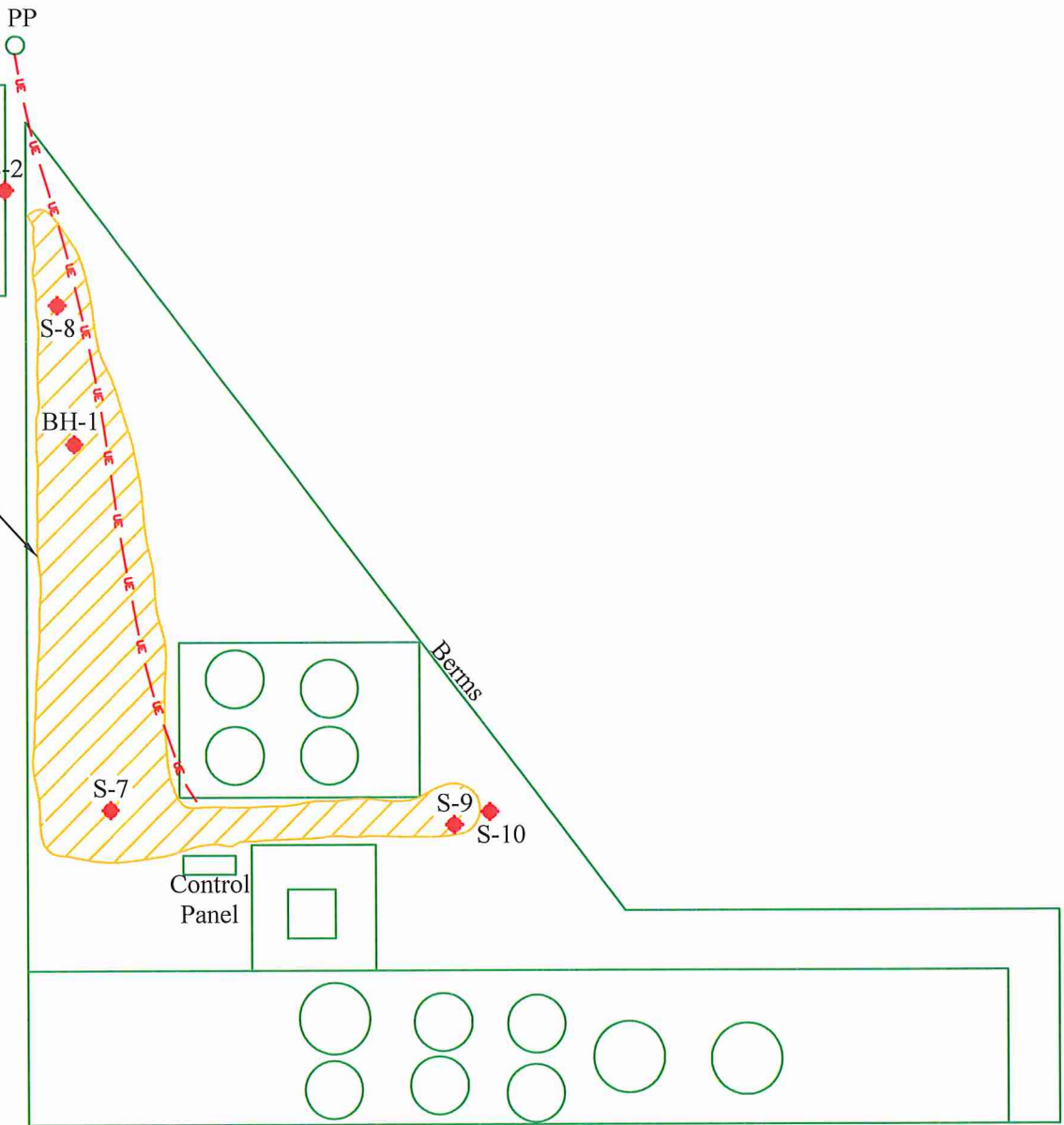

David J. Adkins
District Manager

SITE PLAN

Previously
Remediated
Area



Impacted
Area



NTS



Scale in Feet

Legend

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



Date: 01/22/2016

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.

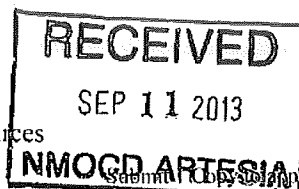
INITIAL C-141

&

Final 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

Release Notification and Corrective Action

nJMW 1326329033 OPERATOR ☒ Initial Report ☐ Final Report

Name of Company	Pyote Well Service LLC 224873	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

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 NMOC 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 NMOC 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, NMOC 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>Mike 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: October 20, 2013	Attached <input type="checkbox"/>
Date: 8-29-13 Phone: 432-448-4917			

* Attach Additional Sheets If Necessary

2RP-1916

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

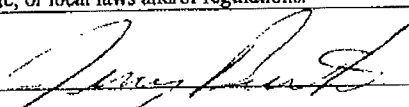
Name of Company: Pyote Well Service, LLC	Contact: Jerry Burton
Address: 400 W Illinois Ave Ste 950 Midland TX 79701-4641	Telephone No. 432-448-4917
Facility Name: Rohmer #1 SWD	Facility Type: SWD Battery
Surface Owner: Fee	Mineral Owner: Fee
API No. 30-015-25722	

LOCATION OF RELEASE

Unit Letter F	Section 23	Township 22S	Range 27E	Feet from the 1980	North/South Line N	Feet from the 1980	East/West Line W	County Eddy
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Latitude 32.3799896 Longitude -104.1626511

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 60bbls	Volume Recovered: 60bbls
Source of Release: Discharge Line	Date and Hour of Occurrence: 8-28-2013	Date and Hour of Discovery: 8-28-2013
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher-NMOCD	
By Whom? Jerry Burton	Date and Hour: 2:25pm 8-28-2013	
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.* A switch failed causing a high pressure discharge line to split resulting in a release of approximately 60bbls of produced water. The line was replaced and put back into service. Talon/LPE was called to aid in the remediation of the release.		
Describe Area Affected and Cleanup Action Taken.* The release flowed from the ruptured discharge line through the battery along the west berm and breached the berm in the northwest corner entering private pasture land. Initially, the impacted soil on the private pasture land was excavated replaced with clean top soil and that portion of the release was closed out by NMOCD. Further assessment and chloride delineation was conducted on the battery in 2015. An air rotary drill rig was used to vertically delineate the chloride concentrations within the battery. Upon receipt of analytical results from the chloride delineation and remediation work plan was drafted and subsequently approved by NMOCD. Per the approved work plan the impacted area was excavated to a depth of 4-feet below ground surface, a liner was installed at the bottom of the excavation to encapsulate the remaining chloride impacts, and the excavation was backfilled.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understanding and 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:
Title: New Mexico Regional District Manager	Approval Date:	Expiration Date:
E-mail Address: jerry@pyotewatersystems.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 2/4/2016	Phone: 432-448-4917	

* Attach Additional Sheets If Necessary

LABORATORY RESULTS



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

October 02, 2013

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 09/26/13 15:45.

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

Received: 09/26/2013
Reported: 10/02/2013
Project Name: RHOMER #1 SWD
Project Number: 701712.001.01
Project Location: NOT GIVEN

Sampling Date: 09/25/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 1' (H302351-01)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2013	ND	1.93	96.7	2.00	7.21	
Toluene*	<0.050	0.050	10/01/2013	ND	1.91	95.5	2.00	7.26	
Ethylbenzene*	<0.050	0.050	10/01/2013	ND	1.97	98.5	2.00	8.07	
Total Xylenes*	<0.150	0.150	10/01/2013	ND	5.83	97.1	6.00	7.93	
Total BTEX	<0.300	0.300	10/01/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	09/30/2013	ND	400	100	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/28/2013	ND	195	97.5	200	11.3	
DRO >C10-C28	17.1	10.0	09/28/2013	ND	185	92.3	200	5.20	

Surrogate: 1-Chlorooctane 85.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.3 % 63.6-154

Cardinal Laboratories

*=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: 09/26/2013
Reported: 10/02/2013
Project Name: RHOMER #1 SWD
Project Number: 701712.001.01
Project Location: NOT GIVEN

Sampling Date: 09/25/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 1' (H302351-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2013	ND	1.93	96.7	2.00	7.21	
Toluene*	<0.050	0.050	10/01/2013	ND	1.91	95.5	2.00	7.26	
Ethylbenzene*	<0.050	0.050	10/01/2013	ND	1.97	98.5	2.00	8.07	
Total Xylenes*	<0.150	0.150	10/01/2013	ND	5.83	97.1	6.00	7.93	
Total BTX	<0.300	0.300	10/01/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3960	16.0	09/30/2013	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/28/2013	ND	195	97.5	200	11.3	
DRO >C10-C28	<10.0	10.0	09/28/2013	ND	185	92.3	200	5.20	

Surrogate: 1-Chlorooctane 74.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 79.3 % 63.6-154

Cardinal Laboratories

*=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: 09/26/2013
Reported: 10/02/2013
Project Name: RHOMER #1 SWD
Project Number: 701712.001.01
Project Location: NOT GIVEN

Sampling Date: 09/25/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 1' (H302351-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2013	ND	1.93	96.7	2.00	7.21	
Toluene*	<0.050	0.050	10/01/2013	ND	1.91	95.5	2.00	7.26	
Ethylbenzene*	<0.050	0.050	10/01/2013	ND	1.97	98.5	2.00	8.07	
Total Xylenes*	<0.150	0.150	10/01/2013	ND	5.83	97.1	6.00	7.93	
Total BTX	<0.300	0.300	10/01/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	09/30/2013	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/30/2013	ND	195	97.5	200	11.3	
DRO >C10-C28	<10.0	10.0	09/30/2013	ND	185	92.3	200	5.20	

Surrogate: 1-Chlorooctane 80.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.9 % 63.6-154

Cardinal Laboratories

*=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: 09/26/2013
Reported: 10/02/2013
Project Name: RHOMER #1 SWD
Project Number: 701712.001.01
Project Location: NOT GIVEN

Sampling Date: 09/25/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 1' (H302351-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2013	ND	1.93	96.7	2.00	7.21	
Toluene*	<0.050	0.050	10/01/2013	ND	1.91	95.5	2.00	7.26	
Ethylbenzene*	<0.050	0.050	10/01/2013	ND	1.97	98.5	2.00	8.07	
Total Xylenes*	<0.150	0.150	10/01/2013	ND	5.83	97.1	6.00	7.93	
Total BTX	<0.300	0.300	10/01/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/30/2013	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/28/2013	ND	195	97.5	200	11.3	
DRO >C10-C28	<10.0	10.0	09/28/2013	ND	185	92.3	200	5.20	

Surrogate: 1-Chlorooctane 83.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.8 % 63.6-154

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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: 09/26/2013
Reported: 10/02/2013
Project Name: RHOMER #1 SWD
Project Number: 701712.001.01
Project Location: NOT GIVEN

Sampling Date: 09/25/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-5 1' (H302351-05)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2013	ND	1.93	96.7	2.00	7.21	
Toluene*	<0.050	0.050	10/01/2013	ND	1.91	95.5	2.00	7.26	
Ethylbenzene*	<0.050	0.050	10/01/2013	ND	1.97	98.5	2.00	8.07	
Total Xylenes*	<0.150	0.150	10/01/2013	ND	5.83	97.1	6.00	7.93	
Total BTX	<0.300	0.300	10/01/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	09/30/2013	ND	400	100	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/28/2013	ND	195	97.5	200	11.3	
DRO >C10-C28	<10.0	10.0	09/28/2013	ND	185	92.3	200	5.20	

Surrogate: 1-Chlorooctane 82.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.4 % 63.6-154

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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: 09/26/2013
Reported: 10/02/2013
Project Name: RHOMER #1 SWD
Project Number: 701712.001.01
Project Location: NOT GIVEN

Sampling Date: 09/25/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-6 4.5' (H302351-06)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2013	ND	1.93	96.7	2.00	7.21	
Toluene*	<0.050	0.050	10/01/2013	ND	1.91	95.5	2.00	7.26	
Ethylbenzene*	<0.050	0.050	10/01/2013	ND	1.97	98.5	2.00	8.07	
Total Xylenes*	<0.150	0.150	10/01/2013	ND	5.83	97.1	6.00	7.93	
Total BTX	<0.300	0.300	10/01/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 89.4-126

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/30/2013	ND	400	100	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/28/2013	ND	195	97.5	200	11.3	
DRO >C10-C28	<10.0	10.0	09/28/2013	ND	185	92.3	200	5.20	

Surrogate: 1-Chlorooctane 80.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.6 % 63.6-154

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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

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Galena LPE

Project Manager: Sheldon Hitchcock

Address: 408 W. 2nd St

City: Albuquerque State: NM Zip: 87102

Phone #: 575-746-8968 Fax #: 575-746-8905

Project #: 101712-001.01 Project Owner: Road

Project Name: Phonon #1500

Project Location:

Sample Name: Sheldon Hitchcock

FOR LAB USE ONLY

Lab I.D. H302351

Sample I.D.

1 3-1 1' 6 (G)RAB OR (C)OMP. # CONTAINERS

2 3-2 1' 6 GROUNDWATER

3 3-3 1' 6 WASTEWATER

4 3-4 1' 6 SOIL

5 3-5 1' 6 OIL

6 3-6 4.5' 6 SLUDGE

DATE TIME

9:05 9:00

9:25 9:02

9:25 9:05

9:25 9:07

9:25 9:09

9:25 9:12

Chlorides

TPH

BTEX

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Relinquished By: Sheldon Hitchcock Received By: Sheldon Hitchcock

Date: 9/16/13 Time: 3:45

Relinquished By: Sheldon Hitchcock Received By: Sheldon Hitchcock

Date: 9/16/13 Time: 3:45

Delivered By: (Circle One) 5.4p

Sampler - UPS - Bus - Other: 5.4p

Sample Condition: Intact ☒ Yes ☐ No

CHECKED BY: Sheldon Hitchcock

REMARKS: 54

Phone Result: ☐ Yes ☐ No Add'l Phone #: 54

Fax Result: ☐ Yes ☐ No Add'l Fax #: 54

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/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
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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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, SM4500Cl-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, SM4500Cl-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, SM4500Cl-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, SM4500Cl-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, SM4500Cl-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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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-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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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-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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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-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

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

Company Name: Talon/LPE

Project Manager: S. Hittcock

Address: 408 W. Texas Ave.

City: Artesia

State: NM Zip: 88210

Phone #: 575-746-8768

Fax #: 575-746-8905

Project #: 201712, 201.01 Project Owner: Pate

Project Name: Rehman #1 SWD

Project Location:

Sampler Name: S. Hittcock

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H502842

1

5-70'

5-72'

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5



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE		BILL TO		ANALYSIS REQUEST																																	
Project Manager:		P.O. #:																																			
Address: 408 W. Texas Ave.		Company: Talon/LPE																																			
City: Artesia		Attn:																																			
State: NM Zip: 88210		Address:																																			
Phone #: 575-746-8768		City:																																			
Fax #: 575-746-8905		State:																																			
Project #:		Zip:																																			
Project Location:		Phone #:																																			
Fax #:																																					
Sample Name:		PRESERV		SAMPLING																																	
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													
H502847		5-81		1		1		1		1		1		1		1		1		1		10/28/15		2:04													
12		5-82		1		1		1		1		1		1		1		1		1		2:04		2:04													
13		5-83		1		1		1		1		1		1		1		1		1		2:04		2:10													
14		5-84		1		1		1		1		1		1		1		1		1		2:12		2:14													
15		5-85		1		1		1		1		1		1		1		1		1		2:14		2:16													
16		5-86		1		1		1		1		1		1		1		1		1		2:16		2:18													
17		5-87		1		1		1		1		1		1		1		1		1		2:18		2:20													
18		5-88		1		1		1		1		1		1		1		1		1		2:20		2:24													
19		5-89		1		1		1		1		1		1		1		1		1		2:24		2:26													
20		5-90		1		1		1		1		1		1		1		1		1		2:26		2:28													
21		5-91		1		1		1		1		1		1		1		1		1		2:28		2:30													
22		5-92		1		1		1		1		1		1		1		1		1		2:30		2:32													
23		5-93		1		1		1		1		1		1		1		1		1		2:32		2:34													
24		5-94		1		1		1		1		1		1		1		1		1		2:34		2:36													
25		5-95		1		1		1		1		1		1		1		1		1		2:36		2:38													
26		5-96		1		1		1		1		1		1		1		1		1		2:38		2:40													
27		5-97		1		1		1		1		1		1		1		1		1		2:40		2:42													
28		5-98		1		1		1		1		1		1		1		1		1		2:42		2:44													
29		5-99		1		1		1		1		1		1		1		1		1		2:44		2:46													
30		5-100		1		1		1		1		1		1		1		1		1		2:46		2:48													
31		5-101		1		1		1		1		1		1		1		1		1		2:48		2:50													
32		5-102		1		1		1		1		1		1		1		1		1		2:50		2:52													
33		5-103		1		1		1		1		1		1		1		1		1		2:52		2:54													
34		5-104		1		1		1		1		1		1		1		1		1		2:54		2:56													
35		5-105		1		1		1		1		1		1		1		1		1		2:56		2:58													
36		5-106		1		1		1		1		1		1		1		1		1		2:58		3:00													
37		5-107		1		1		1		1		1		1		1		1		1		3:00		3:02													
38		5-108		1		1		1		1		1		1		1		1		1		3:02		3:04													
39		5-109		1		1		1		1		1		1		1		1		1		3:04		3:06													
40		5-110		1		1		1		1		1		1		1		1		1		3:06		3:08													
41		5-111		1		1		1		1		1		1		1		1		1		3:08		3:10													
42		5-112		1		1		1		1		1		1		1		1		1		3:10		3:12													
43		5-113		1		1		1		1		1		1		1		1		1		3:12		3:14													
44		5-114		1		1		1		1		1		1		1		1		1		3:14		3:16													
45		5-115		1		1		1		1		1		1		1		1		1		3:16		3:18													
46		5-116		1		1		1		1		1		1		1		1		1		3:18		3:20													
47		5-117		1		1		1		1		1		1		1		1		1		3:20		3:22													
48		5-118		1		1		1		1		1		1		1		1		1		3:22		3:24													
49		5-119		1		1		1		1		1		1		1		1		1		3:24		3:26													
50		5-120		1		1		1		1		1		1		1		1		1		3:26		3:28													
51		5-121		1		1		1		1		1		1		1		1		1		3:28		3:30													
52		5-122		1		1		1		1		1		1		1		1		1		3:30		3:32													
53		5-123		1		1		1		1		1		1		1		1		1		3:32		3:34													
54		5-124		1		1		1		1		1		1		1		1		1		3:34		3:36													
55		5-125		1		1		1		1		1		1		1		1		1		3:36		3:38													
56		5-126		1		1		1		1		1		1		1		1		1		3:38		3:40													
57		5-127		1		1		1		1		1		1		1		1		1		3:40		3:42													
58		5-128		1		1		1		1		1		1		1		1		1		3:42		3:44													
59		5-129		1		1		1		1		1		1		1		1		1		3:44		3:46													
60		5-130		1		1		1		1		1		1		1		1		1		3:46		3:48													
61		5-131		1		1		1		1		1		1		1		1		1		3:48		3:50													
62		5-132		1		1		1		1		1		1		1		1		1		3:50		3:52													
63		5-133		1		1		1		1		1		1		1		1		1		3:52		3:54													
64		5-134		1		1		1		1		1		1		1		1		1		3:54		3:56													
65		5-135		1		1		1		1		1		1		1		1		1		3:56		3:58													
66		5-136		1		1		1		1		1		1		1		1		1		3:58		4:00													
67		5-137		1		1		1		1		1		1		1		1		1		4:00		4:02													
68		5-138		1		1		1		1		1		1		1		1		1		4:02		4:04													
69		5-139		1		1		1		1		1		1		1		1		1		4:04		4:06													
70		5-140		1		1		1		1		1		1		1		1		1		4:06		4:08													
71		5-141		1		1		1		1		1		1		1		1		1		4:08		4:10													
72		5-142		1		1		1		1		1		1		1		1		1		4:10		4:12													
73		5-143		1		1		1		1		1		1		1		1		1		4:12		4:14													
74		5-144		1		1		1		1		1		1		1		1		1		4:14		4:16													
75		5-145		1		1		1		1		1		1		1		1		1		4:16		4:18													
76		5-146		1		1		1		1		1		1		1		1		1		4:18		4:20													
77		5-147		1		1		1		1		1		1		1		1		1		4:20		4:22													
78		5-148		1		1		1		1		1		1		1		1		1		4:22		4:24													
79		5-149		1		1		1		1		1		1		1		1		1		4:24		4:26													
80		5-150		1		1		1		1		1		1		1		1		1		4:26		4:28													
81		5-151		1		1		1		1		1		1		1		1		1		4:28		4:30													
82		5-152		1		1		1		1		1		1		1		1		1		4:30		4:32													
83		5-153		1		1		1		1		1		1		1		1		1		4:32		4:34													
84		5-154		1		1		1		1		1		1		1		1		1		4:34		4:36													
85		5-155		1		1		1		1		1		1		1		1		1		4:36		4:38													
86		5-156		1		1		1		1		1		1		1		1		1		4:38		4:40													
87		5-157		1		1		1		1		1		1		1		1		1		4:40		4:42													
88		5-158		1		1		1		1		1		1		1		1		1		4:42		4:44													
89		5-159		1		1		1		1		1		1		1		1		1		4:44		4:46													
90		5-160		1		1		1		1		1		1		1		1		1		4:46		4:48													
91		5-161		1		1		1		1		1		1		1		1		1		4:48		4:50													
92		5-162		1		1		1		1		1		1		1		1		1		4:50		4:52													
93		5-163		1		1																															



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

December 23, 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 12/18/15 11:35.

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

Received: 12/18/2015
Reported: 12/23/2015
Project Name: RHOMER #1 SWD
Project Number: 701712.001.01
Project Location: NOT GIVEN

Sampling Date: 12/17/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BH-1 0' (H503290-01)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2015	ND	2.20	110	2.00	1.51	
Toluene*	<0.050	0.050	12/21/2015	ND	2.25	113	2.00	1.29	
Ethylbenzene*	<0.050	0.050	12/21/2015	ND	2.06	103	2.00	2.62	
Total Xylenes*	<0.150	0.150	12/21/2015	ND	6.56	109	6.00	1.77	
Total BTEx	<0.300	0.300	12/21/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	34000	16.0	12/21/2015	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/19/2015	ND	173	86.5	200	7.80	
DRO >C10-C28	250	10.0	12/19/2015	ND	180	90.0	200	9.08	

Surrogate: 1-Chlorooctane 85.7 % 35-147

Surrogate: 1-Chlorooctadecane 88.3 % 28-171

Cardinal Laboratories

*=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: 12/18/2015
 Reported: 12/23/2015
 Project Name: RHOMER #1 SWD
 Project Number: 701712.001.01
 Project Location: NOT GIVEN

 Sampling Date: 12/17/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: BH-1 10' (H503290-02)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	12/21/2015	ND	400	100	400	0.00	
TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/22/2015	ND	188	93.9	200	0.715	
DRO >C10-C28	12.9	10.0	12/22/2015	ND	176	88.2	200	5.36	

Surrogate: 1-Chlorooctane 107 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

Sample ID: BH-1 15' (H503290-03)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	12/21/2015	ND	400	100	400	0.00	

Sample ID: BH-1 20' (H503290-04)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/21/2015	ND	400	100	400	0.00	

Cardinal Laboratories

* = Accredited Analyte

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. All claims, including those for negligence and 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. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

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. All claims, including those for negligence and 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.



Celey D. Keene, Lab Director/Quality Manager

January 20, 2016

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 01/20/16 12:35.

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,



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: 01/20/2016
Reported: 01/20/2016
Project Name: RHOMER #1 SWD
Project Number: 701712.001.01
Project Location: NOT GIVEN

Sampling Date: 01/20/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: S-10 0' (H600126-01)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/20/2016	ND	400	100	400	3.92	

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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

BILL TO

ANALYSIS REQUEST

Company Name: Talou/CP

Project Manager: S. Hitchcock

Address: 408 W. Texas

City: Artesia

State: NM Zip: 88210

Phone #: _____ Fax #: _____

Project #: _____

Project Name: Pohlar SWD#1

Project Location: _____

Sampler Name: S. Hitchcock

P.O. #:

Company: Talou/CP

Attn:

Address:

City:

State:

Phone #:

Fax #:

Zip:

Matrix

Preserv

Sampling

DATE

TIME

Chlorides

Lab I.D.

Sample I.D.

15-0 0'

6-1

1

11/20/15

11:05

✓

Relinquished By:

Date:

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Received By:

Date:

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Relinquished By:

Date:

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Received By:

Date:

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Relinquished By:

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Time:

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Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Delivered By: (Circle One)

Sample - UPS - Bus - Other:

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