

March 4, 2012

Subject:

Mr. Mike Bratcher NMOCD District 2 1301 West Grand Avenue Artesia, NM 88210 RECEIVED

APR 0 8 2013

NMOCD ARTESIA

AMARILLO 92I North Bivins Amarillo. Texas 79107 Phone 806.467.0607 Fax 806.467.0622

ARTESIA 408 West Texas Ave. Artesia, New Mexico 882I0 Phone 575.746.8768 Fax 575.746.8905

> AUSTIN 9II West Anderson Lane Suite 202 Austin, Texas 78757 Phone 512.989.3428 Fax 512.989.3487

HOBBS 318 East Taylor Street Hobbs, New Mexico 88240 Phone 575.393.4261 Fax 575.393.4658

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

SAN ANTONIO II Commercial Place Schertz, Texas 78154 Phone 210.265.8025 Fax 210.568 2191

TULSA 525 South Main Street Suite 535 Tulsa, Oklahoma 74103 Phone 918.742.0871 Fax 918.382.0232

ENVIRONMENTAL CONSULTING

ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Soil Assessment and Remediation Work Plan

Lime Rock Resources II-A, L.P.

Logan State No. 2

30-015-30406 2RP-11514 /5/4

Dear Mr. Bratcher,

Lime Rock Resources II-A, L.P. (Lime Rock) contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the referenced Logan State No. 2. The completed remediation activities and closure request are submitted herein.

Incident Date

January 9, 2013

Background Information

The Logan State No. 2 is located approximately twelve (12) miles southeast of Artesia, New Mexico. The legal location for the site is Section 2, Township 18 South and Range 27 East in Eddy County, New Mexico. More Specifically, the latitude and longitude for the release are 32.78018 North and -104.25143 West.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Gypsum land Cottonwood complex with 0 to 3 percent slopes. The local surface and shallow geology, Paleozoic Age sedimentary deposits, is comprised of the Guadeloupian Artesia Group, Tansil and Yates formations which include silty soils under lain by gypsum and hard caliches. Drainage courses in this area are normally dry. The New Mexico State Engineer web site indicates the nearest ground water data to be in S10-T18S-R27E. The ground water in the area is reported to be 50' below ground surface (bgs). The referenced groundwater data is presented in Appendix I.

The ranking for this site is 10 based on the as following:

Depth to ground water 50' - 100'
Wellhead Protection Area >1000'
Distance to surface water body >1000'

Toll Free: 866.742.0742 www.talonlpe.com

Incident Description

On January 9, 2013 a transfer pump malfunctioned causing the water tank to overflow. Approximately 102 barrels of produced water were released breaching the earthen berms. A vacuum truck was brought to the location and 20 barrels of produced water were recovered.

Actions Taken

On January 21, 2013 Talon/LPE mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected utilizing a hand auger to a depth of 1-foot below ground surface. The soil sample locations are illustrated on the attached site plan.

On February 13, 2013 Talon returned to the site to collect additional soil samples utilizing an air rotary rig for vertical delineation of the impacted area. Grab soil samples were collected from surface to a depth of 10-feet deep.

Soil samples were collected by Talon personnel wearing clean nitrile gloves. The samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico. The samples were tested for TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, volatile organics (BTEX) using EPA Method 8021B and analysis of Chlorides using Method SM4500CL-B. The complete laboratory report is attached as Appendix II.

Analytical Results

Analytical results received from Cardinal Laboratories are summarized below:

January 28, 2013

Sampl	e, Depth	Chlorides	<u>BTEX</u>	TPH (mg/kg)
S-1	0'	80000	69.7	32930
	1'	32000	14.9	35.1
S-2	0'	28400	<0.300	243
	0.5'	12200	<0.300	<10
S-3	0;	19800	<0.300	462
	1'	16800	<0.300	<10

February 19, 2013

e, Depth	<u>Chlorides</u>	<u>BTEX</u>	TPH (mg/kg)
0,	14200	< 0.300	<10
2'	12000	< 0.300	<10
4'	5120		
6'	5360		
8'	208		
10'	112		- m
0,	6000	< 0.300	<10
2'	2000	< 0.300	56.2
4'	912		
6'	672		
8,	160		
10'	96		
	0' 2' 4' 6' 8' 10' 0' 2' 4' 6' 8'	0' 14200 2' 12000 4' 5120 6' 5360 8' 208 10' 112 0' 6000 2' 2000 4' 912 6' 672 8' 160	0' 14200 <0.300

For this site's ranking, New Mexico Oil Conservation District action level criterion for BTEX is 50 mg/kg, Benzene is 10 mg/kg and TPH is 1,000 mg/kg. The chloride remediation standard is considered to be 1,000 mg/kg.

Proposed Remedial Actions

- The impacted areas located inside of the berm and outside of the berm will be excavated to a depth of 2-feet deep or to bedrock (refusal) and transported to a NMOCD approved solid waste disposal facility.
- Confirmation soil samples will be collected from the sidewalls of the impacted areas. The soil samples will be submitted to the laboratory for TPH analysis using Method 8015M, BTEX analysis using Method 8021B.
- Upon approval of the confirmation samples, the excavated areas will be backfilled
 to grade using new material transported from a local borrow pit. The areas will be
 contoured to match the existing location.
- A final report documenting all field activities and lab reports will be provided to the NMOCD Artesia Office including Form C-141.

If we can provide additional information or be of further assistance please contact our office at 575.746.8768.

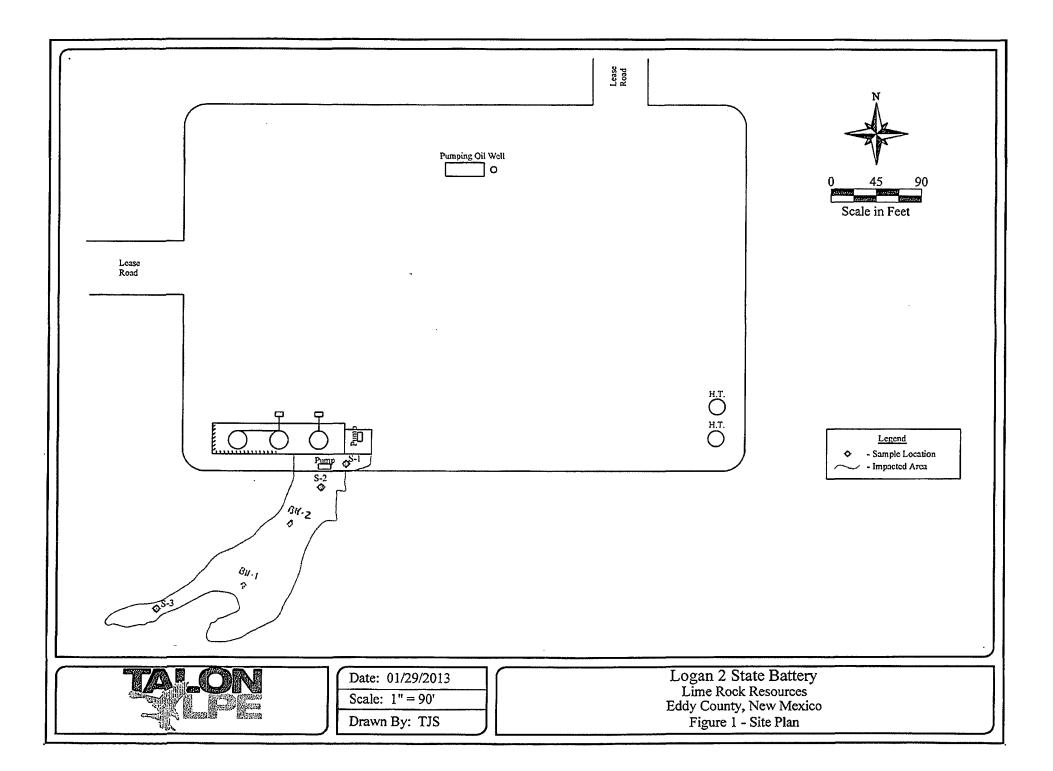
Respectfully submitted,

TALON/LPE

midelstreakfill

Mike Stubblefield Project Manager David J. Adkins District Manager

SITE MAP



APPENDIX I GROUNDWATER DATA INITIAL C-141

District |
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.

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MMU	1302	24882	21	27	75	58	OPERAT	ГOR		Initia	al Report		Final Report
Name of Co	mpany	Lime Roc	Resourc	es II-A, L				Michael Barrett					
Address			e 4600 H	ouston, TX	770			No. 575-623-8	424				
Facility Nar	ne Logan	2 State #2					Facility Typ	e Battery					
Surface Ow	ner Bogle			Mine	ral C	wner	State			API No	. 30-015-	30406	
				L	OCA	MOITA	OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from	the	North/	South Line	Feet from the	East/	West Line	County		. \
С	2 .	185	27E	990		North_	•	1750	West	••	Eddy	. <i>:</i> .	
			Latitude	32.78018			Longitude	104.25143					
						URE	OF RELI		· · · · · · · · · · · · · · · · · · ·				
Type of Rele		iced Water		!				Release 102 bb			Recovered ?		
Source of Re	lease Tank	overflow					Date and H 01/09/13 at	lour of Occurren	ce		Hour of Dis 8:00 am	scovery	
Was Immedia	ate Notice C	iven?					If YES, To			1 01/07/13	0.00 am		· · · · · · · · · · · · · · · · · · ·
		×	Yes [No 🗆 i	lot Re	equired	Mike Brate	her with OCD					
By Whom? N			lon LPE					lour 01/09/13 ·					
Was a Water	course Read		Yes 🗵	l No			N/A	olume Impacting	the Wal	ercourse.			
If a Watercou	irse was Im	pacted, Descr	ibe Fully.	· .									
N/A	•			:				~					
									RE	CEIV	ED		
Describe Cau	ise of Probl	em and Reme	dial Actio	n Taken *					IA	N 1 6 20	142		
Transfer pun	np failed, tai	nks filled and	overflowe	d water tan					JA	N 10 ZU	113		
Release was Standing flui		n earth berms	until berm	s were brea	ched.			1	IMOC	D ART	ESIA		
Stationing ites	a was recov	Cica.		;									
Decaribe Are	a Affected	and Cleanup	Action Tol	ren 🕈				-r					
The affected	area was lo	cated inside t	he bermed	area of the				outside the batte	ery meas	sured appro	x 270' long	x 80'w	ide.
		ude silty soil						in tank battery.					
								n for submittal to	OCD.				
					_							_	
								knowledge and and perform corre					
public health	or the envi	ronment. Th	e acceptan	ce of a C-14	l rep	ort by the	e NMOCD n	narked as "Final	Report"	does not re	lieve the op	erator o	f liability
								ion that pose a the ve the operator o					
		ws and/or, reg		plance of a c	-141	report a	oes not renev	ve the operator o	respon	Sidility for (compliance	with an	y other
		1/1-						OIL CON	ISER'	VATION	DIVISI	<u>ON</u>	
Signature:	With		(<	,							1.1	· :/	
	/						Approved by	Environmental	Specials	Signed By	11/4	DKA	muse_
Printed Nam	e: Michael	Barrett						JAN 22 20	117				
Title: Produ	ction Super	visor					Approval Da			Expiration	Date:		
E-mail Addr	ess: mharre	tt@limerocki	esources c	om			Conditions of	of Approval:					
					-		Remedia	ition per OCE			Attache	ø ∐	
Date: 01/9	/2013	P	none: 575-	623-8424	<u> </u>			SUBMIT REM			1000	7 .	٠ ١١١
					\ \			AL NO LATER			211	トー人	514°
					1		Feb.	22,20	11	•			•



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

(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)

3625660*

(In feet)

water right file.)

QQQ POD

Depth Depth Water

POD Number

Code Subbasin County 6416 4 Sec Tws Rng X Y Distance Well Water Column

50

RA 03917

4 1 2 10 18S 27E

569019

1922 130 Average Depth to Water:

50 feet

80

Minimum Depth:

50 feet

Maximum Depth:

50 feet

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 569800

Northing (Y): 3627417

Radius: 2000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data

APPENDIX II LABORATORY RESULTS



January 28, 2013

MIKE STUBBLEFIELD
TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: LOGAN 2 STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/22/13 12:45.

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 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 & Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Received:

01/22/2013

Sampling Date:

01/21/2013

Reported:

01/28/2013

Sampling Type:

Soil

Project Name:

LOGAN 2 STATE BATTERY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

SEC. 2 - T18S - R27E

Sample ID: S-1 0' (H300170-01)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.02	0.500	01/25/2013	ND	1.81	90.3	2.00	13.2	
Toluene*	19.8	0.500	01/25/2013	ND	1.92	96.0	2.00	13.2	
Ethylbenzene*	15.9	0.500	01/25/2013	ND	1.99	99.7	2.00	13.4	
Total Xylenes*	29.9	1.50	01/25/2013	ND	6.04	101	6.00	13.5	
Total BTEX	69.7	3.00	01/25/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1199	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80000	16.0	01/25/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	B\$	% Recovery	True Value QC	RPD	Qualifler
GRO C6-C10	1030	50.0	01/24/2013	ND	188	94.2	200	1.42	
DRO >C10-C28	31900	50.0	01/24/2013	ND	196	98.0	200	0.134	
Surrogate: 1-Chlorooctane	148 9	6 65.2-14	0						
Surrogate: 1-Chloroociadecane	861 %	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Unbitly and Dumiyes. Confinells history and district confinels confinel confinels confinel confinel confinels and district confinels history and district confinels history and district confinels and received by Confinel within thirty (30) days often configuration of the applicable service. In no event shall Confinel the bettle for indicated or consequential distription, bettleft in the confinels in the confinels and con

Celey D. Keene



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

Received:

01/22/2013

Sampling Date:

01/21/2013

Reported:

01/28/2013

Sampling Type:

Soil

Project Name:

LOGAN 2 STATE BATTERY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

SEC. 2 - T18S - R27E

Sample ID: S-1 1' (H300170-02)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.40	0.100	01/26/2013	ND	1.81	90.3	2.00	13.2	
Toluene*	5.38	0.100	01/26/2013	ND	1.92	96.0	2.00	13.2	
Ethylbenzene*	2.97	0.100	01/26/2013	ND	1.99	99.7	2.00	13.4	
Total Xylenes*	5.16	0.300	01/26/2013	ND	6.04	101	6.00	13.5	
Total BTEX	14.9	0.600	01/26/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIC	112 9	% 89.4-12	6		·				
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32000	16.0	01/25/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Umit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	13.3	10.0	01/24/2013	ND	188	94.2	200	1.42	
DRO >C10-C28	21.8	10.0	01/24/2013	NĐ	196	98.0	200	0.134	
Surrogate: 1-Chlorooctane	59.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	69.5	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Libbility and Domages. Curcinits Eablity and don'ts contrain remote for any claim whether based in contract or both, shall be limited to the amount paid by don't for strategies. All claims, including those for regisperse and any other cause without observed which claims made in writing and recorded by Cordinal whith thing (35) clays other completion of the appreciable service. In no word what Cordinal be table for indicated or consequential damages, without including, without including, without including, without including, without including, without including the performance of the services because of whether such claims behave excessions of contract or co

Celeg D. Keine



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

Received:

01/22/2013

Reported: Project Name: 01/28/2013

LOGAN 2 STATE BATTERY

Project Number:

NONE GIVEN

Project Location: SEC. 2 - T18S - R27E

Sampling Date:

01/21/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By:

Cool & Intact

Jodi Henson

Sample ID: S-2 0' (H300170-03)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2013	ND	1.81	90.3	2.00	13,2	
Toluene*	<0.050	0.050	01/26/2013	ND	1.92	96.0	2.00	13.2	
Ethylbenzene*	<0.050	0.050	01/26/2013	ND	1.99	99.7	2.00	13.4	
Total Xylenes*	<0.150	0.150	01/26/2013	ND	6.04	101	6.00	13.5	
Total BTEX	<0.300	0.300	01/26/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 9	6 89.4-12	6		· · · · · · · · · · · · · · · · · · ·				
Chloride, SM4500Ci-B	mg/	kg	Analyze	d By: AP					-
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	28400	16.0	01/25/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	B\$	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/24/2013	ND	188	94.2	200	1.42	
DRO >C10-C28	243	10.0	01/24/2013	ND	196	98.0	200	0.134	
Surrogate: 1-Chlorooctanc	77.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	85.1	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

REAGE NOTE: Liability and Demages. Continuits bibility and cloth's conductor conductor conductor conductor beautiful actions, including those for registeric and any other consumptions. All clothers and in whiting and received by cloth which thirty (30) days other competion of the applicable service. In no event shall Control the label for indicated or received companies, which which thirty (30) days other competions of the applicable service. In no event shall Control the label for indicated or received companies, which is mission, besties influentation, loss of use, or loss of profits named by cloth, its auditions, articles or accessors artising out of or related to the particular profits of which and clother better profits of the particular profits of control between a control to the particular profits of control between any of the above stated receives or otherwise. Readed refer only in the simples kinetical above. This report value of the profits of the particular profits of control between a control to the particular profits of control between a control to the particular profits of control between a control to the particular profits of control between a control to the particular profits of control between a control to the particular profits of control to the particular profits of control between a control to the particular profits of control between a control to the particular profits of control between a control to the particular profits of control to the particular profits of control to the particular profits of the par

Celey D. Keene



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

Received:

01/22/2013

Sampling Date:

01/21/2013

Reported:

01/28/2013

Sampling Type:

Soil

Project Name:

LOGAN 2 STATE BATTERY

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Project Number: Project Location: NONE GIVEN

SEC. 2 - T185 - R27E

Sample ID: S-2 0.5' (H300170-04)

BTEX 8021B	mg/	kg	Analyze	d By: AP					.
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2013	ND	1.81	90.3	2.00	13.2	
Toluene*	<0.050	0.050	01/26/2013	ND	1.92	96.0	2.00	13.2	
Ethylbenzene*	<0.050	0.050	01/26/2013	ND	1.99	99.7	2.00	13.4	
Total Xylenes*	<0.150	0.150	01/26/2013	ND	6.04	101	6.00	13.5	
Total BTEX	<0.300	0.300	01/26/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIE	103 9	6 89.4-12	6				Mn,,,,,,,		
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12200	16.0	01/25/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/26/2013	ND	205	103	200	19.4	
DRO >C10-C28	<10.0	10.0	01/26/2013	ND	198	99.0	200	15.1	
Surrogate: 1-Chlorooctane	98.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	115 9	6 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

REMSE NOTE: Unbity and Durasjas. Continu's kindly and dients endusive namedy for any data arising, whether based in nontrict or tont, shall be instead to the amount paid by deer for analysis. All datas, including chose for nephygenic and any data cases whiteleness shall be deemed whitel unless made in whiting and needed by Control within thirty (30) days after competion of the applicable service. In no need shall Cardinal be labble for indicating without influences and the classification of the applicable service. In no need shall Cardinal be labble for indicating without influences, within the control of the reformance of the services hereards by Cardinal, regardless of whether such datas is based upon any of the class extended reasons or offended above. This regardless alone, this report and consist in all written approved of Cardinal Laboratories.

Celeg D. Keine



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

Received:

01/22/2013

Sampling Date:

01/21/2013

Reported:

01/28/2013

Sampling Type:

Soil

Project Name:

LOGAN 2 STATE BATTERY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

SEC. 2 - T18S - R27E

Sample Received By:

Jodi Henson

Sample ID: S-3 0' (H300170-05)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2013	ND	1.81	90.3	2.00	13.2	
Toluene*	<0.050	0.050	01/26/2013	ND	1.92	96.0	2.00	13.2	
Ethylbenzene*	<0.050	0.050	01/26/2013	ND	1.99	99.7	2.00	13.4	
Total Xylenes*	<0.150	0.150	01/26/2013	ND	6.04	101	6.00	13.5	
Total BTEX	<0.300	0.300	01/26/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIC	104 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Umit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19800	16.0	01/25/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
GRO C6-C10	<10.0	10.0	01/24/2013	ND	205	103	200	19.4	
DRO >C10-C28	462	10.0	01/24/2013	ND	198	99.0	200	15.1	
Surrogate: 1-Chlorooctane	66.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	80.7	% 63.6-15	4						

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*=Accredited Analyte

PRESENTING: Library and Dumpes. Curcius's biships and dients, enduring remarks for any claim artists, whether based in comment or bot, shall be formed to be amount paid by door for analyses. All claims, beducing those for neglegate any other costs whitever shall be deemed white under mode to the control within this (iv) days after competion of the applicable senter. In no exect shall Cardnel be table for independent distinguish, beducing, without installing, beducing without installing, beducing without formed by deem, the substitutes, effects or successors origing out of or related to the performance of the senters because by Cardnel, regardess of whether such dismits besed upon any of the atoms stated resource or otherwise. Results related only to the sumples threefold above. This report shall not be reproduced except in full with notion approval of Cardnel Lateral Lateral Cardnel Lateral Latera

Celeg Theene.



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

Received: Reported: 01/22/2013

01/28/2013

LOGAN 2 STATE BATTERY

Project Name: Project Number:

NONE GIVEN

Project Location:

SEC. 2 - T18S - R27E

Sampling Date:

01/21/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-3 1' (H300170-06)

BTEX 8021B	mg,	'kg	Analyze	d By: AP				***	·····
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2013	ND	1.81	90.3	2.00	13.2	
Toluene*	<0.050	0.050	01/26/2013	ND	1.92	96.0	2.00	13.2	
Ethylbenzene*	<0.050	0.050	01/26/2013	ND	1.99	99.7	2.00	13.4	
Total Xylenes*	<0.150	0.150	01/26/2013	ND	6.04	101	6.00	13.5	
Total BTEX	<0.300	0.300	01/26/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIC	104	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Chloride	16800	16.0	01/25/2013	ND	416	104	400	0.00	
TPH 8015M	mg	kg	Analyze	d By: MS	·····				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/24/2013	ND	205	103	200	19.4	
DRO >C10-C28	<10.0	10.0	01/24/2013	ND	198	99.0	200	15.1	
Surrogate: 1-Chlorooctane	66.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	78.1	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Lithing and Demagns. Carthulfs lithing and dearth orders orders and the string, whether based in contract or but, shall be finited to the amount paid by deat for pushpess. All datins, beduing these for neglepones and any other causes whiteseer shall be deemed whited unless made in writing and received within 10thy (30) days after completed on the applicable souths. In on exact shall Cartical be liable to indicated or consequential demayes, whole limitation, beduings frameworks from the professor or the control of the souther beduing, whole limitation, beduings frameworks from the second or the control of the souther beduing which the performance of the souther beduing the performance of the performance

Celeg D. Keena



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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 (web) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE MOTE: Liability and Demagns. Condinate lability and distrib conductor remote far any dains arising, whether beard in contract or text, shall be limited to the amount paid by dard for everywhere and any other cause whatever shall be deemed whether whether make in whithing the fact of which which thirt (30) days after comprision of the approach service. In no evert shall Condrol be labile for indicated or consequential demagns, which introduction, business Primerations, loss of use, or loss of use, or loss of prime house by direct, is substituted, and the introduction, business Primerations or the formation or otherwise. Residence only to the surpless identified above. This report shall not be provided or personal of Central Laborations.

Celey D. Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talen/LPE				Ĵ.	BI	LL TO		·				ANAI	YSIS	RE	QUE	ST			
Project Manager: معرف المنابع					O. #:														
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ity: Actesia State: p.m	Zip:	88	710	Att	in:											l			
hone #: 525-441-2254 , Fax #:				Αd	dress:										Ī	1			
Project #: Project Owne	r. Lia	e Ro	ek hr.	Cit	y:										1	١	1		1
Project Name: Logan Z STAZE battery				St	ate:	Zip:											1		
Project Location: sec. 2 - T135-R276				Ph Fa:	one #: x #:														
FOR LAB USE ONLY	1.1	T	MATRIX		PRESERV.	SAMPL	ING	1 _	1		l	ŀ			Į	[ĺ	1
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	WASTEWATER SOIL OIL SLUDGE	HER:	ACID/BASE: ICE / COOL OTHER:			Boism TPH	8021 B 018%.	150									
HESCHO		<u>=</u> 5	<u> </u>	15	원일5	DATE	TIME	13	00		 	<u> </u>				<u> </u>	-		
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LEASE NOTE: Liobity and Damagra. Cardena's leability and clients exclusive respect for notyses. Al claims, inclusing these for negligence and any other cause whatsoever shall be entire. In no ovent shall Cordinal be ilable for incidental or consequental damagra, includin	acemed v	mived u	zdece mode in willing or	nd recei	ived by Cardinal w	Allhin 30 days all	er completion of t	he applica	ole .										
Entre or succession, which out of or related to the performance of narrices between the Relinquished By: Dato: Dato: Dato: Dato:	Cyclinat. n	consider						:e.	☐ Ye:	. ()	No	Add'I	hone	tt-			<u>.</u>		
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Delivered By: (Circle One) Sampler - UPS - Bus - Other)	<u>'</u>	0	Sample Condi Cool Intact Pres Me		CHECK (Init	ED BY:													
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† Cardinal cannot accept verbal changes. Pleas	-					_													



February 19, 2013

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: LOGAN 2 STATE NO. 2

Enclosed are the results of analyses for samples received by the laboratory on 02/13/13 14:45.

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 accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes are denoted to the field of the fi

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. Keene

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

Received:

02/13/2013

Sampling Date:

02/13/2013

Reported:

02/19/2013

Sampling Type:

Soil

Project Name:

LOGAN 2 STATE NO. 2

Sampling Condition:

Cool & Intact

Project Number:

701307.045.01

Project Location:

SEC. 2 - T185 - R27E

Sample Received By:

Jodi Henson

Sample ID: BH - 1 0' (H300412-01)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2013	ND	2.38	119	2.00	0.589	
Toluene*	<0.050	0.050	02/19/2013	ND	2.33	117	2.00	0.465	
Ethylbenzene*	<0.050	0.050	02/19/2013	ND	2.27	113	2.00	0.379	
Total Xylenes*	<0.150	0.150	02/19/2013	ND	6.91	115	6.00	0.715	
Total BTEX	<0.300	0.300	02/19/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE Chloride, SM4500Cl-B	109 s mg/			d By: DW		,			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14200	16.0	02/18/2013	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/19/2013	ND	208	104	200	3.34	
DRO >C10-C28	<10.0	10.0	02/19/2013	ND	207	104	200	15.6	

Surrogate: 1-Chlorooctane Surrogute: 1-Chlorooctadecane 78.4 %

65.2-140

93.5 %

63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Library and Distrigue. Curcival's Library and district conductive months for any other actions, included beside in conduction and, which is bested to the amount poid by dient for exchange. All dains, beducing those for regisjence and any other cause authorises that the control without in which and consequential districts, and the applicable service. In no event and Curcival to the beducing or consequential districts, and consequential districts, and consequential districts, and consequential districts, and consequential dains the control of t

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 10



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

Received:

02/13/2013

Sampling Date:

02/13/2013

Reported:

Sampling Type:

02/19/2013

Soil

Project Name:

LOGAN 2 STATE NO. 2

Sampling Condition:

Cool & Intact

Project Number:

701307.045.01

Sample Received By:

Jodi Henson

Project Location:

SEC. 2 - T18S - R27E

Sample ID: BH - 1 2' (H300412-02)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2013	ND	2.38	119	2.00	0.589	
Toluene*	<0.050	0.050	02/19/2013	ND	2.33	117	2.00	0.465	
Ethylbenzene*	<0.050	0.050	02/19/2013	ND	2.27	113	2.00	0.379	
Total Xylenes*	<0.150	0.150	02/19/2013	ND	6.91	115	6.00	0.715	
Total BTEX	<0.300	0.300	02/19/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIC	110 9	6 89.4-12	б						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Umit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12000	16.0	02/18/2013	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Anatyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/19/2013	ND	208	104	200	3.34	
DRO >C10-C28	<10.0	10.0	02/19/2013	ND	207	104	200	15.6	
Surrogate: 1-Chlorooctane	67.4 5	65.2-14	0						
Surrogate: 1-Chlorooctadecane	-		4						

Sample ID: BH - 1 4' (H300412-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	88	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	02/18/2013	ND	448	112	400	0.00	

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REASE MOTE: Liabity and Outropies. Confusit Liabity and direct controls not only for any data making, whether based in coursed or tot, shell be limited to the amount paid by close for analysis. All chirms, including those for nephysics and any other cases whatever, what is desired whited utiliss made in writing and received by Cardial whith Litty (33) days they compared in the applicable soulce. In no next shall Cardial be labely for redestant of making, without influent controls, without influent controls, the control of the sources for redestant controls and of use, or loss of profits found they did not be performance of the sources formed by Cardial, regarded show. This type that has been control to cardial leading to cardial leading of cardial leading to card

Celeg D. Keene



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

Received: Reported: 02/13/2013

02/19/2013

Project Name: Project Number: LOGAN 2 STATE NO. 2 701307.045.01

Project Location:

SEC. 2 - T18S - R27E

Sampling Date:

02/13/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: BH - 2 0' (H300412-07)

BTEX 8021B	mg/	kg	Analyze	d By: AP			 		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	B\$	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2013	ND	2.38	119	2.00	0.589	
Toluene*	<0.050	0.050	02/19/2013	ND	2.33	117	2.00	0.465	
Ethylbenzene*	<0.050	0.050	02/19/2013	ND	2.27	113	2.00	0.379	
Total Xylenes*	<0.150	0.150	02/19/2013	ND	6.91	115	6.00	0.715	
Total BTEX	<0.300	0.300	02/19/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 5	% 89.4-12	6						
Chloride, 5M4500Cl-8	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chlorida	6000	16.0	02/18/2013	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS			~		
Analyte	Result	Reporting Umit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/19/2013	ND	208	104	200	3.34	
DRO >C10-C28	<10.0	10.0	02/19/2013	ND	207	104	200	15.6	
Surrogate: 1-Chlorooctane	75.7	% 65.2-14	0		· · · · · · · · · · · ·				
Surrogate: 1-Chlorooctadecane	95.2	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

REACE NOTE: Unbitly and Demojes. Contracts labeling and diently end diently end diently end diently end diently indicated prince and by diently and probably and diently indicated prince and any other contract or both, shall be limited to the amount prid by dient for studying. All claims, including those for negligence and any other contract or being and recorded by Contract within fieldly (Di) days after completed or of the applicable service. In no event shall Contract the indicate or consequential demojes, which inhaltion, butters transported to service to the services to encounter or the service transported by Contract, regardless of whether such claims is based upon any of the above stated records or character only to the applicable or contracted above. This report with only to the problement of any of the above stated records or character or character only to the applicable of the contract above. This report with only to the problement of any of the above stated records or character or character only to the applicable or contracted above. This report with only to the problement of any of the above stated records or character or the problement of the state of the state of the state of the services that the services the services are character or character or the services that the serv

Celey D. Keine



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

Received: Reported: 02/13/2013

02/19/2013

Project Name: Project Number: Project Location: LOGAN 2 STATE NO. 2 701307.045.01

SEC. 2 - T18S - R27E

Sampling Date:

02/13/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: BH - 2 2' (H300412-08)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2013	ND	2.38	119	2.00	0.589	
Toluene*	<0.050	0.050	02/19/2013	ND	2.33	117	2.00	0.465	
Ethylbenzene*	<0.050	0.050	02/19/2013	ND	2.27	113	2.00	0.379	
Total Xylenes*	<0.150	0.150	02/19/2013	ND	6.91	115	6.00	0.715	
Total BTEX	<0.300	0.300	02/19/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 89.4-12¢	5						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW				·	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	02/18/2013	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS			<u></u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10 ~	<10.0	10.0	02/19/2013	NO	208	104	200	3.34	
DRO >C10-C28	56.2	10.0	02/19/2013	ND	207	104	200	15.6	
Surrogate: 1-Chlorooctane	68.3	36 65.2-140)						
Surrogate: I-Chlorooctadecane	86.6	% 63.6-154	1						

Sample ID: BH - 2 4' (H300412-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW	_		,		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	02/18/2013	ND	448	112	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keina



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

Received:

02/13/2013

Sampling Date:

02/13/2013

Reported:

02/19/2013

Sampling Type:

Soil

Project Name:

LOGAN 2 STATE NO. 2

Sampling Condition:

Cool & Intact

Project Number:

701307.045.01

mg/kg

Result

Sample Received By:

Jodi Henson

Project Location:

Analyte

Analyte

SEC. 2 - T18S - R27E

Sample ID: BH - 2 6' (H300412-10)

Chloride,	SM45	500Cl	٠Đ
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Analyzed By: DW

True Value QC

Chloride

672 16.0

02/18/2013

Analyzed

Method Blank ND

ND

ND

448

BS

% Recovery 400

RPD 0.00

0.00

Qualifier

Sample ID: BH - 2 8' (H300412-11)

Chloride, SM4500CI-B

mg/kg

16.0

Reporting Limit

Analyzed By: DW

Chloride

mg/kg

Result

160

Reporting Limit Analyzed

02/18/2013

Method Blank BS 448 % Recovery 112

112

True Value QC 400

RPD Qualifier

Sample ID: BH - 2 10' (H300412-12)

Chloride, SM4500CI-B

Analyzed By: DW

	Analyte	Result	Reporting Limit	Analyzed
Chloride		96.0	16.0	02/18/2013

ed Method Blank

BS 448 % Recovery 112

True Value QC 400

RPD Qualifier 0.00

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keina

Celey D. Keene, Lab Director/Quality Manager

Page 7 of 10



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 SM4500CI-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

REASE NOTE: Unbity and Demajos. Carine's kinkly and client contains remain for any clien arising, whether based in contant or lost, shell be limited to the errorst paid by client for strategies. All clients, including those for real-place and any other came whatevers shall be deemed whether client made in whiting paid needed by Carinin within thiny (30) clays often completed on it is applicable source. In mo more shall Cardial be table for indicated and contained in the contained on the performance of the services temporate to the contained by Cardinal, reported and clients and clients are all cardial be table for indicated and clients are all cardial be table for indicated and contained and contained the contained and contained and contained and contained the contained and c

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, Hobbs, NM 885 (575) 393-2326 FAX (575) 393-2326										ì	. 2
Company Name	TELONIEPE			BI	LL TO			ANALYS	S REC	QUEST		
	" Mas Stud Heldel		•	P.O. #:					T			
Address:	40% West Teass 11x			Company:	Talon/10=				1	Ì		
City:	Mitocia State: N.M.	Zip:	98210	Attn:						- }		
Phone #:	C2C-441-2254 Fax#:			Address:		1	1 1		1 1	Į		
	307, 045.61 Project Owne	r: <u>& i'm</u>	e Rock Resilic	City:					1		1 1	
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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, Hobbs, NM 882 (575) 393-2326 FAX (575) 393-247																	2.7	<u>.</u>
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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

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