

June 4, 2015

Subject:

Ms. Heather Patterson

NMOCD District 2

AMARILLO 921 North Bivins

811 S. 1st Street Amarillo, Texas 79107 Artesia, NM 88210

Phone 806.467.0607 Fax 806.467.0622

Soil Assessment and Remediation Work Plan

LRE Operating, LLC.

Marathon 25 State #8 CTB

30-015-29967

ARTESIA 408 West Texas Ave. Artesia, New Mexico 88210 Phone 575.746.8768 Fax 575.746.8905 Dear Ms. Patterson,

HORRS

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

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

Background Information

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

The Marathon 25 State #8 Centeral Tank Battery is located approximately sixteen miles east of Artesia, New Mexico. The legal location for this release is Unit Letter C, Section 25, Township 17 South and Range 28 East. More specifically the latitude and longitude for this release are 32.81221399 North and -104.13305353 West. A site plan is presented in Appendix I.

OKLAHOMA CITY 7700 North Hudson Avenue Oklahoma City, Oklahoma 73116 Phone 405.486.7030 Fax 806.467.0622

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 Simona gravelly fine sandy loam with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is comprised of Holocene to middle Pleistocene eolian and piedmont deposits. Drainage courses in this area are normally dry. Ground water in the project vicinity is approximately 150-feet below ground surface (bgs) According to the 2006 Chevron Texaco Groundwater Trend Map.

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

The ranking for this site is 0 Based on the following:

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

ENVIRONMENTAL CONSULTING ENGINEERING DRILLING CONSTRUCTION SPILL MANAGEMENT

Toll Free: 866.742.0742 www.talonlpe.com

GENERAL CONTRACTING

Incident Description

A valve malfunctioned inside of the facility causing a release of 103bbls of oil. A vacuum truck was immediately dispatched to recover the standing fluids which remained within the berms of the battery. Approximately 97bbls of oil were recovered. A hydro-excavator was also used to remove the heavily impacted soil at the surface within the battery. Talon mobilized personnel to conduct a site assessment and perform soil sampling within the impacted area. Refusal was encountered with a hand auger at a depth of 0.75-feet bgs.

A backhoe was subsequently mobilized to further vertically delineate the site. Due to the proximity of infrastructure within the battery, sample location S-1 could not be further explored with the backhoe. Thus other sample locations were chosen in order to fully investigate the impacts in this portion of the battery. Laboratory results from the soil sampling activities are summarized in the table below.

Laboratory Results

See Appendix III for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0.5	0.353	4320	ND	697
S-1	0.75	452	1800	1450	2130
S-2	1	ND	384	ND	ND
S-3	1	ND	ND	ND	ND
S-3	2	ND	64	ND	ND
S-3	3	ND	80	ND	ND
S-3	4	ND	ND	ND	ND
S-3	5	ND	48	ND	ND
S-3	6	ND	224	ND	ND

(--) Analyte Not Tested

(ND) Analyte Not Detected

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, and 5,000 mg/kg for TPH.

Proposed Remedial Actions

- The impacted area in the vicinity of sample locations S-1, S-2 and S-3 will be excavated to a depth of 1-foot bgs.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- The excavation will be backfilled with caliche and contoured to match the battery.

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

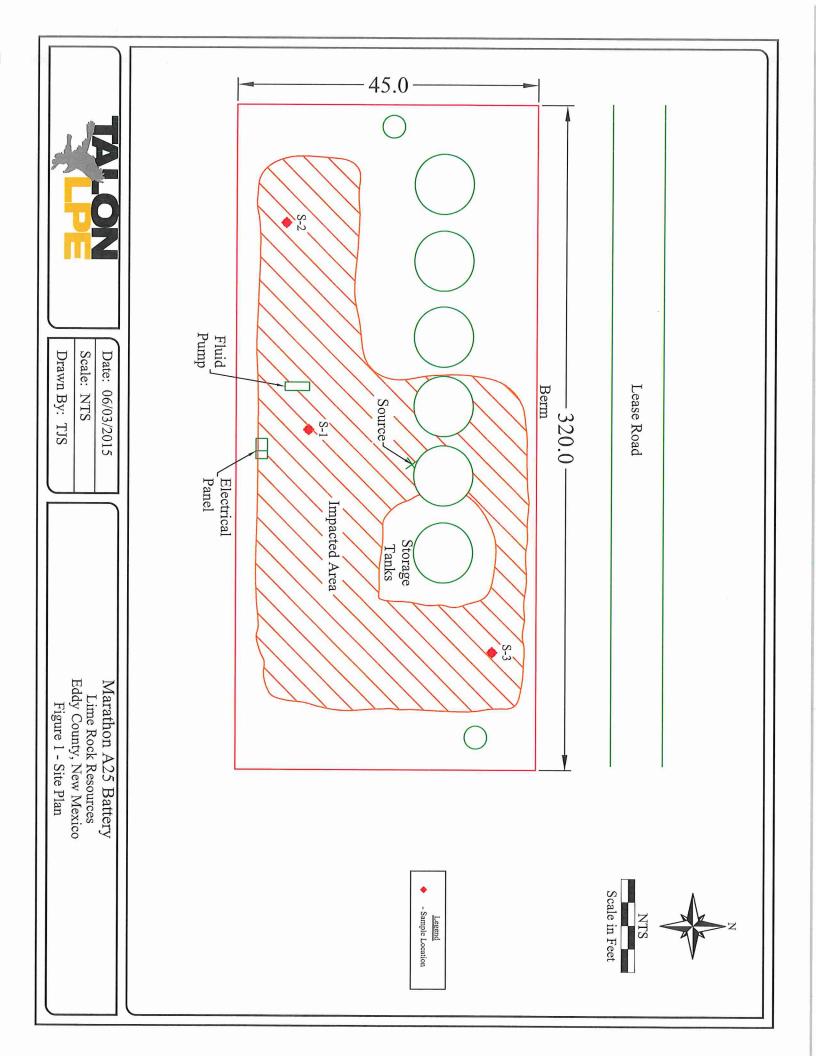
Respectfully submitted,

TALON/LPE

David J. Adkins District Manager

Sheldon L. Hitchcock Project Manager

SITE PLAN



INITIAL C-141

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III

1000 Rio Brazos Road, Aztec, NM 87410

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

* Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back side of form

Form C-141

Revised October 10, 2003

Release Notification and Corrective Action

						OPERA'	ГOR		Initial	al Report	ort
Name of Co	ompany: L	RE Operati	ng, LLC	•		Contact: N	Iike Barrett			1 1	
Address: 1	111 Bagby	Street Suite 4	600, Hou	ston ,TX 77002		Telephone l	No. : 575-623-84	424			٦
Facility Na	me: Mar a	athon 25 Sta	te #8			Facility Typ	e: Battery				\exists
Surface Ow	mar · State	•		Mineral (7****			1	A DT 42	0.015.2007	$\vec{-}$
Surface Ow	nei . Stati	t		Willieral C	Jwner:				AP1 #3	0-015-29967	
				LOC		N OF RE	LEASE				
Unit Letter	Section	Township	Range	Feet from the	1	/South Line	Feet from the	East/We	est Line	County Eddy	
C	25	17S	28E	990'	FNL		1650'	FWL			\Box
		La	titude <u>3</u>	32,8122139954	N	Longitu	de <u>-104.13305</u>	3542 W			
				NAT	TURE	OF REL					
Type of Rele							Release: 103 bb	ol Oil	Volume I	Recovered: 87 bbls Oil	\neg
Source of Re	lease : Val	ve Malfunctio	n			Date and H	Iour of Occurrence			Hour of Discovery: 4/14/15	┪
337 T 1'	. 37	<u>a.</u>				5/14/15 4:			4:00 pm	74	
Was Immedi	ate Notice (Yes	No □ Not R	amirad	If YES, To			O 1	0.45	ĺ
			165	I NO LI NOUK	equireu	MMOCD	^k Heather Patter	son via p	none @ 1	10:45 am	
		Wilson with T	alon/LPE	,		Date and I	lour :5/15/15 @ 1	0:45 am			\dashv
Was a Water	course Read					If YES, Vo	olume Impacting t	he Water	course.		
			Yes 🛚	No							
If a Watercou	ırse was Im	pacted, Descri	ibe Fully.*								\dashv
D 11 G	CD 11										
Describe Cat	ise of Probl	lem and Reme	dial Action	1 Taken.* A valv	e malfu 7 bannsk	nctioned insi	de the facility ca	using the	release o	of 103 barrels of oil. A vac placed and the facility was	
brought bac	k into serv	ice. The relea	iocation a ise staved	with the berm of	of the fa	s of on. All v cility. No flu	ds breached the	, the valv	e was re the facil	placed and the facility was	
Describe Are	a Affected	and Cleanup	Action Ta	ken.* The curr	ent acti	ons taken w	ere the vac truck	s on site	till 9:00	pm picking up as much oil as	5
possible. Ta	lon/LPE w	vas on site on	May 15, 1	1025 for the init	ial site a	assessment ac	tivities, to obtain	n soil san	ıpling, aı	nd deliver to Cardinal Lab the	3
		be use to gene			•	1 1					_
regulations a	ITY that the :	information gi	ven above	is true and comp	olete to t	he best of my	knowledge and u	nderstand	that purs	uant to NMOCD rules and eases which may endanger	
public health	or the envi	ronment. The	acceptanc	e of a C-141 rep	ort by th	e NMOCD m	arked as "Final R	enort" dos	ns for reli es not reli	eve the operator of liability	
should their	operations h	nave failed to a	dequately	investigate and a	remediat	e contaminati	on that pose a thre	eat to gro	und water	, surface water, human health	
or the enviro	nment. In a	addition, NMC	CD accep	tance of a C-141	report d	loes not reliev	e the operator of 1	responsibi	ility for c	ompliance with any other	
federal, state	, or local la	ws and/or regu	lations.								4
							OIL CONS	<u>SERVA</u>	ATION	DIVISION	
Signature:											
						Approved by	District Supervise	or:			
Printed Name	e: Michael	Barrett	****								
Title: Produ	uction Sup	ervisor				Approval Dat	e:	Ex	piration	Date:	
E-mail Addre	ess: mbarr	ett@limerock	resources	s.com		Conditions of	Approval:			Attached	
Date: 5/15/	2015	Pho	ne: 575-62	3-8424							

LABORATORY RESULTS



June 04, 2015

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MARATHON A 25 STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/18/15 11:30.

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.qov/field/ga/lab accredited certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keens

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 (575) 745-8905 Fax To:

Received:

05/18/2015

06/04/2015

Sampling Date:

05/15/2015

Reported:

Sampling Type:

Soil

Project Name:

MARATHON A 25 STATE BATTERY

Sampling Condition:

Cool & Intact

Project Number:

701307075.01

Sample Received By:

Jodi Henson

Project Location:

EDDY

Sample ID: S-1 0.5' (H501258-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	0.222	0.050	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	0.131	0.050	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	<0.150	0.150	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTEX	0.353	0.300	05/19/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 %	% 61-154	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	05/18/2015	ND	400	100	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	<50.0	50.0	05/18/2015	ND	173	86.6	200	1.90	
DRO >C10-C28	697	50.0	05/18/2015	ND	198	99.0	200	1.16	
Surrogate: 1-Chlorooctane	85.8 9	% 47.2-15	7				10)		
Surrogate: 1-Chlorooctadecane	140 9	% 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's fability 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 & Kreens



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

Received:

05/18/2015

Reported:

06/04/2015

701307075.01

EDDY

Project Name: Project Number: MARATHON A 25 STATE BATTERY

Project Location:

Sampling Type:

Sampling Date:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

05/15/2015

Sample ID: S-1 0.75' (REFUSAL) (H501258-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	43.5	1.00	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	170	1.00	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	136	1.00	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	103	3.00	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTEX	452	6.00	05/19/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112	% 61-154					30,10		
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	05/18/2015	ND	400	100	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	1450	50.0	05/18/2015	ND	173	86.6	200	1.90	
DRO >C10-C28	2130	50.0	05/18/2015	ND	198	99.0	200	1.16	
Surrogate: 1-Chlorooctane	141	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	122	% 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

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Celeg Ditiene



ND

Notes and Definitions

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

Analyte NOT DETECTED at or above the reporting limit

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*=Accredited Analyte

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Celeg D. Keens



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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COMPANY: THOUSE STATE THE THE TOTAL COMPANY: THE	not accept verbal che	us - Other:		1.	to lighte for incidental or careocutest of er related to the performance of the	Set Je					(re/	1	0.0	0.4	Sample I.D.		1		avathou AZS	7 075.01Pm	-		3	かとこう	14100/	393-2326 FAX (57)
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-3356476 $\#54^\circ$

Page 5 of 5



May 28, 2015

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MARATHON A 25 STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/27/15 15:10.

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 accredited certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Received:

05/27/2015

Sampling Date:

05/27/2015

Reported:

05/28/2015

Sampling Type:

Soil

Project Name:

MARATHON A 25 STATE BATTERY

Sampling Condition:

Cool & Intact

Project Number:

701307075.01

Sample Received By:

Jodi Henson

Project Location:

EDDY

Sample ID: S-2 1 REFUSAL (H501326-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2015	ND	1.83	91.4	2.00	0.634	
Toluene*	<0.050	0.050	05/28/2015	ND	1.87	93.3	2.00	1.71	
Ethylbenzene*	<0.050	0.050	05/28/2015	ND	1.75	87.5	2.00	3.91	
Total Xylenes*	<0.150	0.150	05/28/2015	ND	5.04	84.0	6.00	3.69	
Total BTEX	<0.300	0.300	05/28/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 %	6 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	05/28/2015	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	05/28/2015	ND	182	90.8	200	1.83	
DRO >C10-C28	<10.0	10.0	05/28/2015	ND	200	100	200	3.30	
Surrogate: 1-Chlorooctane	108 9	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	123 9	6 52.1-17	6						

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.

Celeg D. Keene



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

05/27/2015

Sampling Date:

05/27/2015

Reported:

05/28/2015

Sampling Type:

Soil

Project Name:

MARATHON A 25 STATE BATTERY

Sampling Condition:

Cool & Intact

Project Number:

701307075.01

Project Location:

EDDY

Sample Received By:

Jodi Henson

Sample ID: S-3 1' (H501326-02)

BTEX 8021B	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2015	ND	1.83	91.4	2.00	0.634	
Toluene*	<0.050	0.050	05/28/2015	ND	1.87	93.3	2.00	1.71	
Ethylbenzene*	<0.050	0.050	05/28/2015	ND	1.75	87.5	2.00	3.91	
Total Xylenes*	<0.150	0.150	05/28/2015	ND	5.04	84.0	6.00	3.69	
Total BTEX	<0.300	0.300	05/28/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 %	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/28/2015	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	05/28/2015	ND	182	90.8	200	1.83	
DRO >C10-C28	<10.0	10.0	05/28/2015	ND	200	100	200	3.30	
Surrogate: 1-Chlorooctane	107 %	6 47.2-157	7						
Surrogate: 1-Chlorooctadecane	132 %	6 52.1-170							

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Celeg D. Keene



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

Received:

05/27/2015

Sampling Date:

05/27/2015

Reported:

05/28/2015

Sampling Type:

Soil

Project Name:

MARATHON A 25 STATE BATTERY

Sampling Condition:

Cool & Intact

Project Number:

701307075.01

Sample Received By:

Jodi Henson

Project Location:

EDDY

Sample ID: S-3 2' (H501326-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2015	ND	1.83	91.4	2.00	0.634	
Toluene*	<0.050	0.050	05/28/2015	ND	1.87	93.3	2.00	1.71	
Ethylbenzene*	<0.050	0.050	05/28/2015	ND	1.75	87.5	2.00	3.91	
Total Xylenes*	<0.150	0.150	05/28/2015	ND	5.04	84.0	6.00	3.69	
Total BTEX	<0.300	0.300	05/28/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 9	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/28/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS	11				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/28/2015	ND	182	90.8	200	1.83	
DRO >C10-C28	<10.0	10.0	05/28/2015	ND	200	100	200	3.30	
Surrogate: 1-Chlorooctane	105 9	6 47.2-15	7				-		
Surrogate: 1-Chlorooctadecane	129 9	6 52.1-17	5						

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TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

05/27/2015

Sampling Date:

05/27/2015

Reported:

05/28/2015

Sampling Type:

Soil

Project Name:

MARATHON A 25 STATE BATTERY

Sampling Condition:

Cool & Intact

Project Number:

701307075.01

Sample Received By:

Jodi Henson

Duale at La sations

FDDV

Project Location: EDDY

Sample ID: S-3	4' (H501326-04)
----------------	-----------------

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2015	ND	1.83	91.4	2.00	0.634	
Toluene*	<0.050	0.050	05/28/2015	ND	1.87	93.3	2.00	1.71	
Ethylbenzene*	<0.050	0.050	05/28/2015	ND	1.75	87.5	2.00	3.91	
Total Xylenes*	<0.150	0.150	05/28/2015	ND	5.04	84.0	6.00	3.69	
Total BTEX	<0.300	0.300	05/28/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 %	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/28/2015	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	05/28/2015	ND	182	90.8	200	1.83	Si .
DRO >C10-C28	<10.0	10.0	05/28/2015	ND	200	100	200	3.30	
Surrogate: 1-Chlorooctane	95.9 9	6 47.2-157	7						
Surrogate: 1-Chlorooctadecane	119 %	6 52.1-170	6						

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Received:

05/27/2015

Sampling Date:

05/27/2015

Reported:

05/28/2015

Sampling Type:

Soil

Project Name:

MARATHON A 25 STATE BATTERY

Sampling Condition:

Cool & Intact

Project Number:

701307075.01

Sample Received By:

Jodi Henson

Project Location:

EDDY

Sample ID: S-3 5' (H501326-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2015	ND	1.83	91.4	2.00	0.634	
Toluene*	<0.050	0.050	05/28/2015	ND	1.87	93.3	2.00	1.71	
Ethylbenzene*	<0.050	0.050	05/28/2015	ND	1.75	87.5	2.00	3.91	
Total Xylenes*	<0.150	0.150	05/28/2015	ND	5.04	84.0	6.00	3.69	
Total BTEX	<0.300	0.300	05/28/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 9	61-154	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/28/2015	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	05/28/2015	ND	182	90.8	200	1.83	
DRO >C10-C28	<10.0	10.0	05/28/2015	ND	200	100	200	3.30	
Surrogate: 1-Chlorooctane	100 9	6 47.2-15	7	_					
Surrogate: 1-Chlorooctadecane	124 9	6 52.1-170	6						

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Celley D. Keene



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Received:

05/27/2015

Reported:

05/28/2015

701307075.01

Project Name:

MARATHON A 25 STATE BATTERY

Project Number:

Project Location:

Sampling Date:

05/27/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

EDDY

Sample ID: S-3 6' (H501326-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2015	ND	1.83	91.4	2.00	0.634	
Toluene*	<0.050	0.050	05/28/2015	ND	1.87	93.3	2.00	1.71	
Ethylbenzene*	<0.050	0.050	05/28/2015	ND	1.75	87.5	2.00	3.91	
Total Xylenes*	<0.150	0.150	05/28/2015	ND	5.04	84.0	6.00	3.69	
Total BTEX	<0.300	0.300	05/28/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	114 %	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/28/2015	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	05/28/2015	ND	182	90.8	200	1.83	
DRO >C10-C28	<10.0	10.0	05/28/2015	ND	200	100	200	3.30	
Supposato I Chlorocatana									
Surrogate: 1-Chlorooctane	110 %	6 47.2-157	7						

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TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

05/27/2015

Sampling Date:

05/27/2015

Reported:

05/28/2015

Sampling Type:

Soil

Project Name:

MARATHON A 25 STATE BATTERY

Sampling Condition:

Cool & Intact

Project Number:

701307075.01

Sample Received By:

Jodi Henson

Project Location:

EDDY

Sample ID: S-3 3' (H501326-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2015	ND	1.83	91.4	2.00	0.634	
Toluene*	<0.050	0.050	05/28/2015	ND	1.87	93.3	2.00	1.71	
Ethylbenzene*	<0.050	0.050	05/28/2015	ND	1.75	87.5	2.00	3.91	
Total Xylenes*	<0.150	0.150	05/28/2015	ND	5.04	84.0	6.00	3.69	
Total BTEX	<0.300	0.300	05/28/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	113 %	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/28/2015	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	05/28/2015	ND	182	90.8	200	1.83	
DRO >C10-C28	<10.0	10.0	05/28/2015	ND	200	100	200	3.30	
Surrogate: 1-Chlorooctane	100 %	6 47.2-157	7						
Surrogate: 1-Chlorooctadecane	125 %	6 52.1-170	5						

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ND

Notes and Definitions

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

Analyte NOT DETECTED at or above the reporting limit

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Celey D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: /c/cm/		0,318 B 1,58	5		ANALYSIS REQUEST
Project Manager:		P.O. #:			
Address: 468 W. TEKES		Company: /a/a	n/loc		
City: ACTES State: N	State: 7 1 Zip: 882/9	Attn:			
Phone #: Fax #:		Address:			•
Project #: 96/3676756/ Project Owner:	1. Sectock	City:			/zs
Project Name: Mara Hen A 25 St	Beterry	State: Zip:			
Project Location:	•	Phone #:			
Sampler Name: (5. 1/4, 72 4	,	Fax #:			4.
	MATRIX	PRESERV. SA	SAMPLING	_	
Lab I.D. Sample I.D.	OR (C)OMP. CAINERS IDWATER WATER E	ASE: DOL		OH TEX	Eul
4501376	# CO	OTHE ACID ICE / OTHE	DATE TIME		7
18-21 Refusal	K K	X 2-2	2-27-18-35	*	~
いた。	ه ×	×	> 8:55	×	×
3.32	×	χ	7:00	x	*
7,	×	×	102	×	×
55.35.	<u>۸</u>	×	> 9:05	7K	*
S-36	c. ×	X (9:08	×	*
75-33	G ×	*	7:26	> ×	7
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Delivered By: (Circle One) Bate: 2 CHECKED BY: Phone Result:
Fax Result:
REMARKS: ☐ Yes ☐ No Add'I Phone #:

Sampler - UPS - Bus - Other:

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Page 10 of 10