

**From:** [Kimberly M. Wilson](#)  
**To:** [Bratcher, Mike, EMNRD](#); [Patterson, Heather, EMNRD](#)  
**Cc:** [Michael Barrett](#); [David Adkins](#)  
**Subject:** Marathon Water Transfer Line  
**Date:** Friday, August 22, 2014 11:05:02 AM  
**Attachments:** [image001.png](#)  
[Marathon Water Transfer line final C-141.pdf](#)

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Mike,

Attached please find the initial C-141 for the above referenced release along with the groundwater data, site maps and lab data. We did an emergency spill response and excavated the impact area to an depth of 2.5-feet deep down to rock, some places a little deeper. May we have permission to backfill and close this project?

Thank you.

Respectfully,

***Kimberly M. Wilson***

Project Manager

Talon/LPE

408 West Texas Avenue

Artesia, New Mexico 88210

Office: 575.746.8768

Fax: 575.746.8905

Cell: 575.602.3826

Emergency: 866.742.0742

Email: [kwilson@talonlpe.com](mailto:kwilson@talonlpe.com)

Web: [www.talonlpe.com](http://www.talonlpe.com)



Better Business Bureau Torch Award for Marketplace Ethics: 2010 Winner, 2009 Finalist

Staples Foundation for Learning Hall of Fame Recipient:2010

ICIC and Business Week- Top 100: 2010, 2009, 2008, 2007, 2006

Inc. 500/5000: 2012, 2011, 2010, 2009, 2008, 2007

District I  
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

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 October 10, 2003

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

### Release Notification and Corrective Action

#### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company : <b>LIME ROCK RESOURCES A, LP</b>	Contact : <b>Mike Barrett</b>
Address : <b>1111 Bagby Street Suite 4600, Houston, TX 77002</b>	Telephone No. : <b>575-748-9724</b>
Facility Name : <b>Marathon Water Transfer Line</b>	Facility Type: <b>Produced Water Line</b>

Surface Owner : <b>Private</b>	Mineral Owner: <b>State</b>	Lease No. :
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#### LOCATION OF RELEASE

Unit Letter <b>SW 1/4</b>	Section <b>26</b>	Township <b>17S</b>	Range <b>28E</b>	Feet from the	North/South Line	Feet from the	East/West Line	County <b>Eddy</b>
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Latitude **32.8002 N** Longitude **-104.14918 W**

#### NATURE OF RELEASE


Type of Release : <b>Produced Water</b>	Volume of Release : <b>150 bbls PW</b>	Volume Recovered: <b>7 bbls PW</b>
Source of Release : <b>Hole in water transfer line</b>	Date and Hour of Occurrence: <b>7/10/14 am</b>	Date and Hour of Discovery: <b>7/10/14</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>7/10/14 Laura Tulk w/NMOCD, @ 1:58 pm</b>	
By Whom? <b>Kimberly M. Wilson with Talon/LPE</b>	Date and Hour : <b>7/10/14</b>	
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 from hole in 2" steel water line. The line was isolated, clamped and repaired. A vac truck was immediately called to the location and recovered 5 barrels of produced water. Talon/LPE was contacted for initial site assessment and to generate a work plan.

Describe Area Affected and Cleanup Action Taken.\*  
The release flowed approximately 650-feet to the east in the drainage swale along Highway 82. Initial assessment samples were collected.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Michael Barrett</b>	Approved by District Supervisor:	
Title: <b>Assistant Production Supervisor</b>	Approval Date:	Expiration Date:
E-mail Address: <b>mbarrett@limerockresources.com</b>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <b>10/26/11</b> Phone: <b>575-748-9724</b>		

\* Attach Additional Sheets If Necessary



# 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
<a href="#">RA 11857 POD1</a>			ED	1	1	2	05	18S	26E	577784	3625988	3734	235	95	140

Average Depth to Water: 95 feet  
Minimum Depth: 95 feet  
Maximum Depth: 95 feet

Record Count: 1

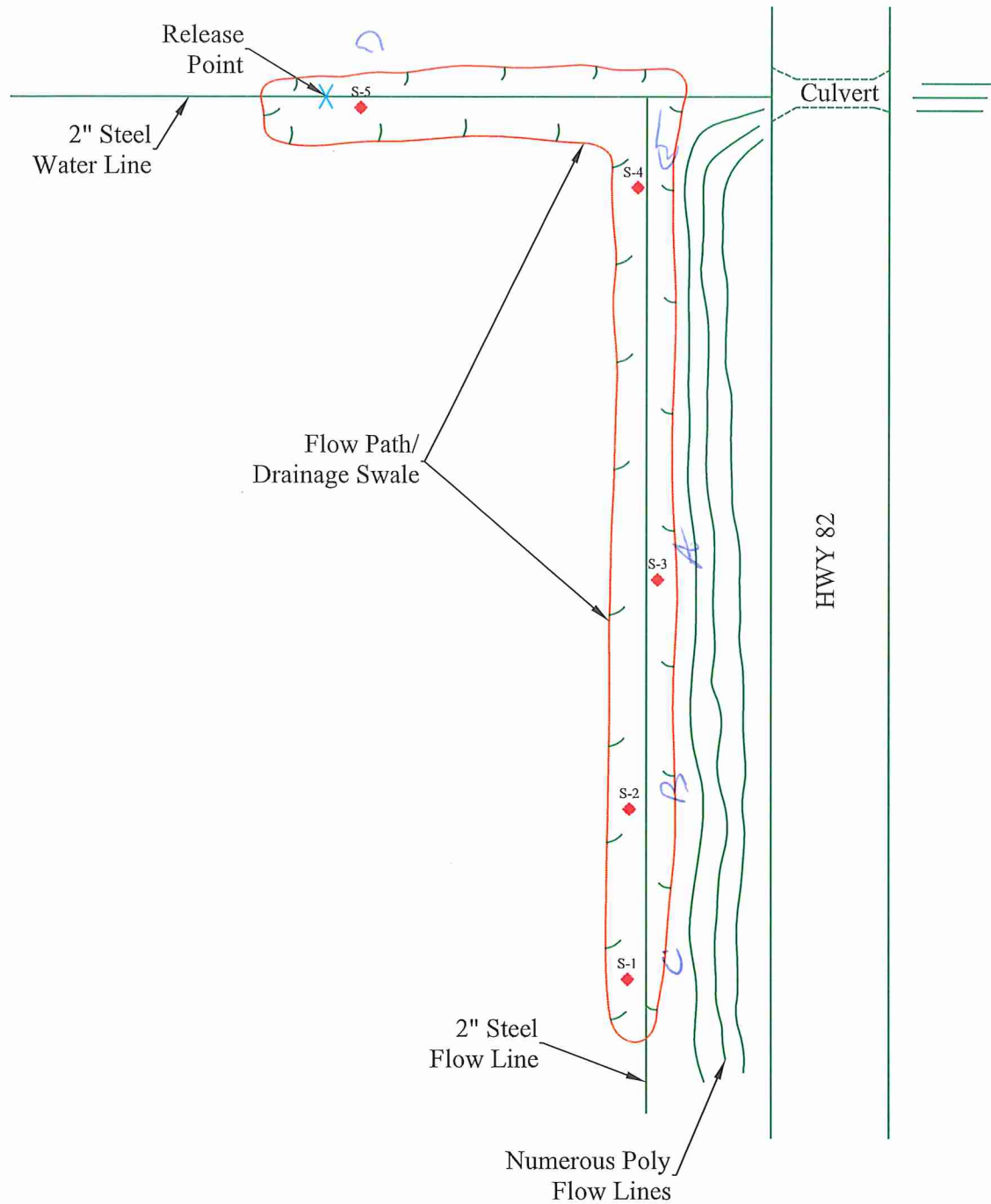
UTMNAD83 Radius Search (in meters):

Easting (X): 579365

Northing (Y): 3629372

Radius: 5000

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.



Legend  
♦ - Sample Location



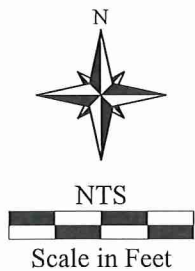
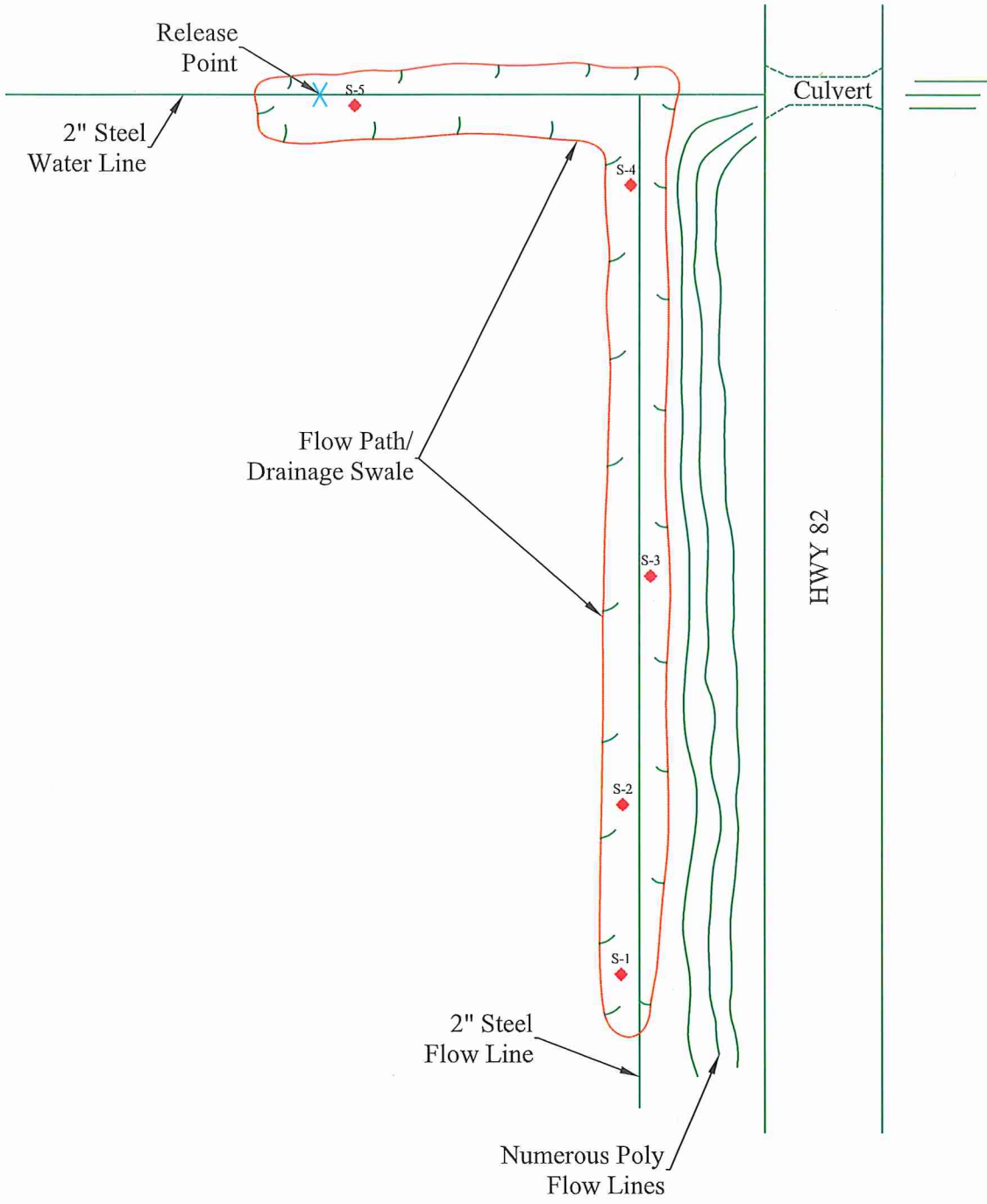
Date: 08/19/2014

Scale: NTS

Drawn By: TJS

Marathon Transfer Line  
Lime Rock Resources  
Eddy County, New Mexico  
Figure 1 - Site Plan





Legend  
◆ - Sample Location



Date: 08/19/2014  
Scale: NTS  
Drawn By: TJS

Marathon Transfer Line  
Lime Rock Resources  
Eddy County, New Mexico  
Figure 1 - Site Plan



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

July 18, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MARATHON TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 07/11/14 16:15.

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](http://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



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

**Analytical Results For:**

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

Received: 07/11/2014  
Reported: 07/18/2014  
Project Name: MARATHON TRANSFER LINE  
Project Number: 701307062.01  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/10/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-1 0-0.25' (H402120-01)**

BTEX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.216	0.050	07/17/2014	ND	2.26	113	2.00	3.51	
Toluene*	0.276	0.050	07/17/2014	ND	2.08	104	2.00	3.14	
Ethylbenzene*	0.127	0.050	07/17/2014	ND	2.18	109	2.00	3.52	
Total Xylenes*	0.183	0.150	07/17/2014	ND	6.55	109	6.00	3.43	
Total BTEX	0.802	0.300	07/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	20800	16.0	07/17/2014	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	07/15/2014	ND	192	95.9	200	0.641	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	203	102	200	3.60	

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 121 % 63.6-154

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 07/11/2014  
Reported: 07/18/2014  
Project Name: MARATHON TRANSFER LINE  
Project Number: 701307062.01  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/10/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-2 0-0.25' (H402120-02)**

BTEX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.070	0.050	07/17/2014	ND	2.26	113	2.00	3.51	
Toluene*	0.215	0.050	07/17/2014	ND	2.08	104	2.00	3.14	
Ethylbenzene*	0.104	0.050	07/17/2014	ND	2.18	109	2.00	3.52	
Total Xylenes*	<0.150	0.150	07/17/2014	ND	6.55	109	6.00	3.43	
Total BTEX	0.389	0.300	07/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 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	20400	16.0	07/17/2014	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	07/15/2014	ND	192	95.9	200	0.641	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	203	102	200	3.60	

Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 07/11/2014  
Reported: 07/18/2014  
Project Name: MARATHON TRANSFER LINE  
Project Number: 701307062.01  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/10/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-2 0.5' (H402120-03)**

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	07/17/2014	ND	2.26	113	2.00	3.51	
Toluene*	<b>0.093</b>	0.050	07/17/2014	ND	2.08	104	2.00	3.14	
Ethylbenzene*	<b>0.054</b>	0.050	07/17/2014	ND	2.18	109	2.00	3.52	
Total Xylenes*	<0.150	0.150	07/17/2014	ND	6.55	109	6.00	3.43	
Total BTEX	<0.300	0.300	07/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 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	<b>18400</b>	16.0	07/17/2014	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	07/15/2014	ND	192	95.9	200	0.641	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	203	102	200	3.60	

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 07/11/2014  
Reported: 07/18/2014  
Project Name: MARATHON TRANSFER LINE  
Project Number: 701307062.01  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/10/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-3 0' (H402120-04)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.113	0.050	07/17/2014	ND	2.26	113	2.00	3.51	
Toluene*	0.971	0.050	07/17/2014	ND	2.08	104	2.00	3.14	
Ethylbenzene*	1.19	0.050	07/17/2014	ND	2.18	109	2.00	3.52	
Total Xylenes*	1.86	0.150	07/17/2014	ND	6.55	109	6.00	3.43	
Total BTEX	4.13	0.300	07/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	26400	16.0	07/17/2014	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	27.1	10.0	07/14/2014	ND	180	90.2	200	0.0898	
DRO >C10-C28	235	10.0	07/14/2014	ND	178	89.1	200	2.45	

Surrogate: 1-Chlorooctane 115 % 65.2-140

Surrogate: 1-Chlorooctadecane 121 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 07/11/2014  
Reported: 07/18/2014  
Project Name: MARATHON TRANSFER LINE  
Project Number: 701307062.01  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/10/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-3 0.5' (H402120-05)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.065	0.050	07/17/2014	ND	2.26	113	2.00	3.51	
Toluene*	0.334	0.050	07/17/2014	ND	2.08	104	2.00	3.14	
Ethylbenzene*	0.167	0.050	07/17/2014	ND	2.18	109	2.00	3.52	
Total Xylenes*	0.218	0.150	07/17/2014	ND	6.55	109	6.00	3.43	
Total BTEX	0.783	0.300	07/17/2014	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	14600	16.0	07/17/2014	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	07/14/2014	ND	180	90.2	200	0.0898	
DRO >C10-C28	<10.0	10.0	07/14/2014	ND	178	89.1	200	2.45	

Surrogate: 1-Chlorooctane 117 % 65.2-140

Surrogate: 1-Chlorooctadecane 122 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 07/11/2014  
Reported: 07/18/2014  
Project Name: MARATHON TRANSFER LINE  
Project Number: 701307062.01  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/10/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-3 1.0' (H402120-06)**

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	07/17/2014	ND	2.26	113	2.00	3.51	
Toluene*	<0.050	0.050	07/17/2014	ND	2.08	104	2.00	3.14	
Ethylbenzene*	<0.050	0.050	07/17/2014	ND	2.18	109	2.00	3.52	
Total Xylenes*	<0.150	0.150	07/17/2014	ND	6.55	109	6.00	3.43	
Total BTEX	<0.300	0.300	07/17/2014	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	17600	16.0	07/17/2014	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	07/14/2014	ND	180	90.2	200	0.0898	
DRO >C10-C28	<10.0	10.0	07/14/2014	ND	178	89.1	200	2.45	

Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 118 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	07/11/2014	Sampling Date:	07/10/2014
Reported:	07/18/2014	Sampling Type:	Soil
Project Name:	MARATHON TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	701307062.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: S-4 0' (H402120-07)**

BTEX 8021B			mg/kg						
			Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/17/2014	ND	2.26	113	2.00	3.51	
Toluene*	<b>0.817</b>	0.100	07/17/2014	ND	2.08	104	2.00	3.14	
Ethylbenzene*	<b>1.62</b>	0.100	07/17/2014	ND	2.18	109	2.00	3.52	
Total Xylenes*	<b>2.08</b>	0.300	07/17/2014	ND	6.55	109	6.00	3.43	
Total BTEX	<b>4.52</b>	0.600	07/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	<b>18200</b>	16.0	07/17/2014	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	<b>94.1</b>	10.0	07/14/2014	ND	180	90.2	200	0.0898	
DRO >C10-C28	<b>626</b>	10.0	07/14/2014	ND	178	89.1	200	2.45	

Surrogate: 1-Chlorooctane 127 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	07/11/2014	Sampling Date:	07/10/2014
Reported:	07/18/2014	Sampling Type:	Soil
Project Name:	MARATHON TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	701307062.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: S-4 0.5' (H402120-08)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.118	0.050	07/17/2014	ND	2.26	113	2.00	3.51	
Toluene*	0.837	0.050	07/17/2014	ND	2.08	104	2.00	3.14	
Ethylbenzene*	1.19	0.050	07/17/2014	ND	2.18	109	2.00	3.52	
Total Xylenes*	1.60	0.150	07/17/2014	ND	6.55	109	6.00	3.43	
Total BTEX	3.74	0.300	07/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	18200	16.0	07/17/2014	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	07/14/2014	ND	180	90.2	200	0.0898	
DRO >C10-C28	<10.0	10.0	07/14/2014	ND	178	89.1	200	2.45	

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	07/11/2014	Sampling Date:	07/10/2014
Reported:	07/18/2014	Sampling Type:	Soil
Project Name:	MARATHON TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	701307062.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: S-5 0.5' (H402120-09)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.68	0.050	07/17/2014	ND	2.26	113	2.00	3.51	
Toluene*	0.637	0.050	07/17/2014	ND	2.08	104	2.00	3.14	
Ethylbenzene*	0.096	0.050	07/17/2014	ND	2.18	109	2.00	3.52	
Total Xylenes*	<0.150	0.150	07/17/2014	ND	6.55	109	6.00	3.43	
Total BTX	2.41	0.300	07/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	16400	16.0	07/17/2014	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	07/14/2014	ND	180	90.2	200	0.0898	
DRO >C10-C28	<10.0	10.0	07/14/2014	ND	178	89.1	200	2.45	

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 125 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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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

[illegible]



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

July 30, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MARATHON TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 07/23/14 10:50.

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](http://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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 07/23/2014  
Reported: 07/30/2014  
Project Name: MARATHON TRANSFER LINE  
Project Number: 701307062.01  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Nick Fullerton

**Sample ID: S-A (H402246-01)**

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	07/27/2014	ND	1.71	85.3	2.00	0.346	
Toluene*	<0.050	0.050	07/27/2014	ND	1.72	86.0	2.00	1.98	
Ethylbenzene*	<0.050	0.050	07/27/2014	ND	1.70	85.0	2.00	0.0438	
Total Xylenes*	<0.150	0.150	07/27/2014	ND	5.34	88.9	6.00	2.81	
Total BTEX	<0.300	0.300	07/27/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	10800	16.0	07/25/2014	ND	416	104	400	3.92	

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	07/26/2014	ND	184	92.0	200	3.18	
DRO >C10-C28	<10.0	10.0	07/26/2014	ND	206	103	200	5.65	

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 129 % 63.6-154

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 07/23/2014  
Reported: 07/30/2014  
Project Name: MARATHON TRANSFER LINE  
Project Number: 701307062.01  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Nick Fullerton

**Sample ID: S-B (H402246-02)**

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	07/27/2014	ND	1.71	85.3	2.00	0.346	
Toluene*	<0.050	0.050	07/27/2014	ND	1.72	86.0	2.00	1.98	
Ethylbenzene*	<0.050	0.050	07/27/2014	ND	1.70	85.0	2.00	0.0438	
Total Xylenes*	<0.150	0.150	07/27/2014	ND	5.34	88.9	6.00	2.81	
Total BTX	<0.300	0.300	07/27/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 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	10500	16.0	07/25/2014	ND	416	104	400	3.92	

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	07/26/2014	ND	184	92.0	200	3.18	
DRO >C10-C28	<10.0	10.0	07/26/2014	ND	206	103	200	5.65	

Surrogate: 1-Chlorooctane 117 % 65.2-140

Surrogate: 1-Chlorooctadecane 127 % 63.6-154

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 07/23/2014  
 Reported: 07/30/2014  
 Project Name: MARATHON TRANSFER LINE  
 Project Number: 701307062.01  
 Project Location: EDDY COUNTY, NM

Sampling Date: 07/17/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Nick Fullerton

**Sample ID: S-C (H402246-03)**

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	07/27/2014	ND	1.71	85.3	2.00	0.346	
Toluene*	<0.050	0.050	07/27/2014	ND	1.72	86.0	2.00	1.98	
Ethylbenzene*	<0.050	0.050	07/27/2014	ND	1.70	85.0	2.00	0.0438	
Total Xylenes*	<0.150	0.150	07/27/2014	ND	5.34	88.9	6.00	2.81	
Total BTX	<0.300	0.300	07/27/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 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	14100	16.0	07/25/2014	ND	416	104	400	3.92	

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	07/26/2014	ND	184	92.0	200	3.18	
DRO >C10-C28	<10.0	10.0	07/26/2014	ND	206	103	200	5.65	

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit  
RPD Relative Percent Difference  
\*\* Samples not received at proper temperature of 6°C or below.  
\*\*\* Insufficient time to reach temperature.  
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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(575) 393-2326 FAX (575) 393-2476

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

July 30, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MARATHON TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 07/23/14 10:50.

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](http://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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 07/23/2014  
Reported: 07/30/2014  
Project Name: MARATHON TRANSFER LINE  
Project Number: 701307062.01  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/22/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Nick Fullerton

**Sample ID: D 6" (H402247-01)**

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	07/27/2014	ND	1.71	85.3	2.00	0.346	
Toluene*	<0.050	0.050	07/27/2014	ND	1.72	86.0	2.00	1.98	
Ethylbenzene*	<0.050	0.050	07/27/2014	ND	1.70	85.0	2.00	0.0438	
Total Xylenes*	<0.150	0.150	07/27/2014	ND	5.34	88.9	6.00	2.81	
Total BTEx	<0.300	0.300	07/27/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	8160	16.0	07/25/2014	ND	416	104	400	3.92	

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	07/26/2014	ND	184	92.0	200	3.18	
DRO >C10-C28	217	10.0	07/26/2014	ND	206	103	200	5.65	

Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 132 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 07/23/2014  
Reported: 07/30/2014  
Project Name: MARATHON TRANSFER LINE  
Project Number: 701307062.01  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/22/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Nick Fullerton

**Sample ID: E 1' (H402247-02)**

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	07/27/2014	ND	1.71	85.3	2.00	0.346	
Toluene*	<0.050	0.050	07/27/2014	ND	1.72	86.0	2.00	1.98	
Ethylbenzene*	<0.050	0.050	07/27/2014	ND	1.70	85.0	2.00	0.0438	
Total Xylenes*	<0.150	0.150	07/27/2014	ND	5.34	88.9	6.00	2.81	
Total BTX	<0.300	0.300	07/27/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 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	13700	16.0	07/25/2014	ND	416	104	400	3.92	

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	07/26/2014	ND	184	92.0	200	3.18	
DRO >C10-C28	20.5	10.0	07/26/2014	ND	206	103	200	5.65	

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 130 % 63.6-154

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

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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Mike Snyder For 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

[illegible]





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

August 18, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MARATHON TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 08/14/14 11:28.

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](http://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



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

**Analytical Results For:**

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

Received: 08/14/2014  
 Reported: 08/18/2014  
 Project Name: MARATHON TRANSFER LINE  
 Project Number: 701307067.01  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/13/2014  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: S-1 3' (H402505-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1720	16.0	08/18/2014	ND	400	100	400	3.92		

**Sample ID: S-4 3' (H402505-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2480	16.0	08/18/2014	ND	400	100	400	3.92		

**Sample ID: S-5 3' (H402505-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8000	16.0	08/18/2014	ND	400	100	400	3.92		

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Celey D. Keene, Lab Director/Quality Manager



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

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

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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: Talon/LPE

Project Manager:

D. ADAMS

Address: 408 W. Texas Ave.

City: Artesia

State: NM Zip: 88210

Phone #: 575-746-8768

Fax #: 575-746-8905

Project #: 701307.067.01 Project Owner: Live Rock

Project Name: Marathon Transfer Line

Project Location:

Sampler Name: G. Bates

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

1402505

1

S-1 3'

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

8/13/14

CL-

2

S-4 3'

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

8/13

✓

3

S-5 3'

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

8/13

✓

Relinquished By:

Date: 8/14/14

Received By:

Signature

Relinquished By:

Date: 8/14/14

Received By:

Signature

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

20.40

Sample Condition

Cool

Intact

Yes

No

Yes

No

CHECKED BY:

(Initials)

Signature

REMARKS:

Phone Result:

Yes

No

Yes

No

Add'l Phone #:

Add'l Fax #:

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



**From:** Bratcher, Mike, EMNRD  
**To:** ["Kimberly M. Wilson"; Patterson, Heather, EMNRD](#)  
**Cc:** [Michael Barrett](#); [David Adkins](#)  
**Subject:** RE: Marathon Water Transfer Line  
**Date:** Tuesday, August 26, 2014 4:41:00 PM  
**Attachments:** [image001.png](#)

---

Kimberly,

OCD will require the site to be delineated (vertical and horizontal) prior to approving any remediation plan or closure request. In most instances, removing visibly identifiable contaminated soils as an immediate response action is encouraged, but OCD will require the delineation results before proceeding at this time.

This release occurred on 7/10/14 and will be assigned NMOCD Tracking Number: **2RP-2457**. It is currently not in the system, but should be later tomorrow.

If you have any questions or concerns, please contact me.

**Mike Bratcher**  
**NMOCD District 2**  
**811 S. First Street**  
**Artesia, NM 88210**  
**O: 575-748-1283 X108**  
**C: 575-626-0857**  
**F: 575-748-9720**

---

**From:** Kimberly M. Wilson [mailto:[kwilson@talonlpe.com](mailto:kwilson@talonlpe.com)]  
**Sent:** Friday, August 22, 2014 11:03 AM  
**To:** Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD  
**Cc:** Michael Barrett; David Adkins  
**Subject:** Marathon Water Transfer Line

Mike,

Attached please find the initial C-141 for the above referenced release along with the groundwater data, site maps and lab data. We did an emergency spill response and excavated the impact area to an depth of 2.5-feet deep down to rock, some places a little deeper. May we have permission to backfill and close this project?

Thank you.

Respectfully,

***Kimberly M. Wilson***  
Project Manager  
Talon/LPE  
408 West Texas Avenue

Artesia, New Mexico 88210  
Office: 575.746.8768  
Fax: 575.746.8905  
Cell: 575.602.3826  
Emergency: 866.742.0742  
Email: [kwilson@talonlpe.com](mailto:kwilson@talonlpe.com)  
Web: [www.talonlpe.com](http://www.talonlpe.com)



Better Business Bureau Torch Award for Marketplace Ethics: 2010 Winner, 2009 Finalist  
Staples Foundation for Learning Hall of Fame Recipient:2010  
ICIC and Business Week- Top 100: 2010, 2009, 2008, 2007, 2006  
Inc. 500/5000: 2012, 2011, 2010, 2009, 2008, 2007

**From:** [Sheldon Hitchcock](#)  
**To:** [Patterson, Heather, EMNRD](#); [Bratcher, Mike, EMNRD](#)  
**Cc:** [David Adkins](#); [Kimberly M. Wilson](#)  
**Subject:** Lime Rock-Marathon Water Transfer Line  
**Date:** Friday, October 31, 2014 2:49:10 PM  
**Attachments:** 20141031140759073.pdf

---

Heather,

The work plan for the Marathon Water Transfer Line is attached. Please review it and let me know if you have any questions. Thank you.

Respectfully,

**Sheldon L. Hitchcock**

Project Manager

Talon/LPE

408 West Texas Avenue

Artesia, New Mexico 88210

Phone: (575) 746-8768

Cell: (575) 689-5198

Fax: (575) 746-8905

Email: [slhitchcock@talonlpe.com](mailto:slhitchcock@talonlpe.com)

Web: [www.talonlpe.com](http://www.talonlpe.com)



Better Business Bureau Torch Award for Marketplace Ethics: 2010 Winner, 2009 Finalist

Staples Foundation for Learning Hall of Fame Recipient: 2010

ICIC and Business Week- Top 100: 2010, 2009, 2008, 2007, 2006

Inc. 500/5000: 2012, 2011, 2010, 2009, 2008, 2007

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October 27, 2014

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

Mr. Mike Bratcher  
**NMOCD District 2**  
811 S. 1<sup>st</sup> Street  
Artesia, NM 88210

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

Subject: **Soil Assessment and Remediation Work Plan**  
Lime Rock Resources  
Marathon Water Transfer Line

Dear Mr. Bratcher,

HOBBS  
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.

#### **Incident Date**

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

The release was discovered on July 10, 2014

#### **Background Information**

OKLAHOMA CITY  
7700 North Hudson Avenue  
Suite 10  
Oklahoma City, Oklahoma 73116  
Phone 405.486.7030  
Fax 806.467.0622

The Marathon Water Transfer Line is located approximately fifteen (15) miles east of Artesia, New Mexico. The legal location for this site is SW ¼ of Section 26, Township 17 South, and Range 28 East. More specifically the latitude and longitude for the release are 32.8002 North and -104.14918 West. A site plan is presented in [Appendix I](#).

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

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 Kimbrough-Stegall loams 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 upper Pleistocene alluvium. Drainage courses in this area are normally dry. Ground water in the project vicinity is approximately 95-feet below ground surface (bgs), according to the New Mexico Office of the State Engineer. See [Appendix II](#) for the referenced groundwater data.

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

ENVIRONMENTAL CONSULTING  
ENGINEERING  
DRILLING  
CONSTRUCTION  
SPILL MANAGEMENT  
GENERAL CONTRACTING

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

Toll Free: 866.742.0742  
www.talonlpe.com



## Incident Description

A leak developed in a 2-inch steel water transfer line, causing the release of 150bbls of produced water. A vacuum truck was immediately dispatched to recover the standing fluids. A total of 7bbls of produced water were recovered. The release flowed approximately 650-feet to the east in the drainage swale along US-82. Talon was contacted to perform an initial site assessment and soil sampling at the site. The sampling that was performed during the initial site assessment activities were unsuccessful in vertically delineating the site. An air rotary drilling rig was used to complete the vertical delineation sampling requested by NMOCD. Results from the referenced 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	0.25	0.802	20800	ND	ND
S-2	0.25	0.389	20400	ND	ND
S-2	0.5	ND	18400	ND	ND
S-3	0	4.13	26400	27.1	235
S-3	0.5	0.783	14600	ND	ND
S-3	1	ND	17600	ND	ND
S-4	0	4.52	18200	94.1	626
S-4	0.5	3.74	18200	ND	ND
S-5	0.5	2.41	16400	ND	ND
S-1Refusal	1.25	--	2720	--	--
S-2	1.5	--	96	--	--
S-2	2	--	240	--	--
S-3Refusal	1.5	--	560	--	--
S-4	1.5	--	1220	--	--
S-4	2	--	1780	--	--
S-5	2	--	10600	--	--
BG-1	0.25	--	400	--	--
BG-2	0.5	--	336	--	--
S-1	3	--	1720	--	--
S-4	3	--	2480	--	--
S-5	3	--	8000	--	--
B-1	6	--	6880	--	--
B-1	8	--	5360	--	--
B-1	10	--	5280	--	--
B-1	15	--	6800	--	--
B-1	20	--	2400	--	--
B-1	25	--	2280	--	--

B-1	30	--	2920	--	--
B-1	30	--	2920	--	--
B-1	35	--	656	--	--
B-1	40	--	192	--	--
B-1	45	--	352	--	--
B-1	50	--	128	--	--
B-1	55	--	144	--	--
B-2	2	--	144	--	--
B-2	4	--	336	--	--
B-2	6	--	272	--	--
B-2	8	--	32	--	--
B-2	10	--	96	--	--
B-2	15	--	112	--	--
B-2	20	--	96	--	--
B-3	2	--	64	--	--
B-3	4	--	1730	--	--
B-3	6	--	3840	--	--
B-3	8	--	800	--	--
B-3	10	--	96	--	--
B-4	2	--	16	--	--
B-4	4	--	64	--	--
B-4	6	--	176	--	--
B-4	8	--	128	--	--
B-5	4	--	1660	--	--
B-5	6	--	64	--	--
B-5	8	--	800	--	--
B-5	10	--	960	--	--
B-5	15	--	1960	--	--
B-5	20	--	192	--	--
B-5	25	--	224	--	--
B-5	30	--	144	--	--

(-- ) Analyte Not Tested

(ND) Analyte Not Detected

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


### Proposed Remedial Actions

- The impacted area in the vicinity of sample locations S-2 and S-3 will be excavated to a depth of 2-feet and 1.5-feet bgs respectively.
- The impacted area in the vicinity of sample locations S-1, S-4, and S-5 will be excavated to a depth of 4-feet bgs. A liner will be installed in the bottom of the excavation to encapsulate the remaining chloride impacts.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- The excavated areas will be backfilled with topsoil and contoured to match the surrounding terrain.

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

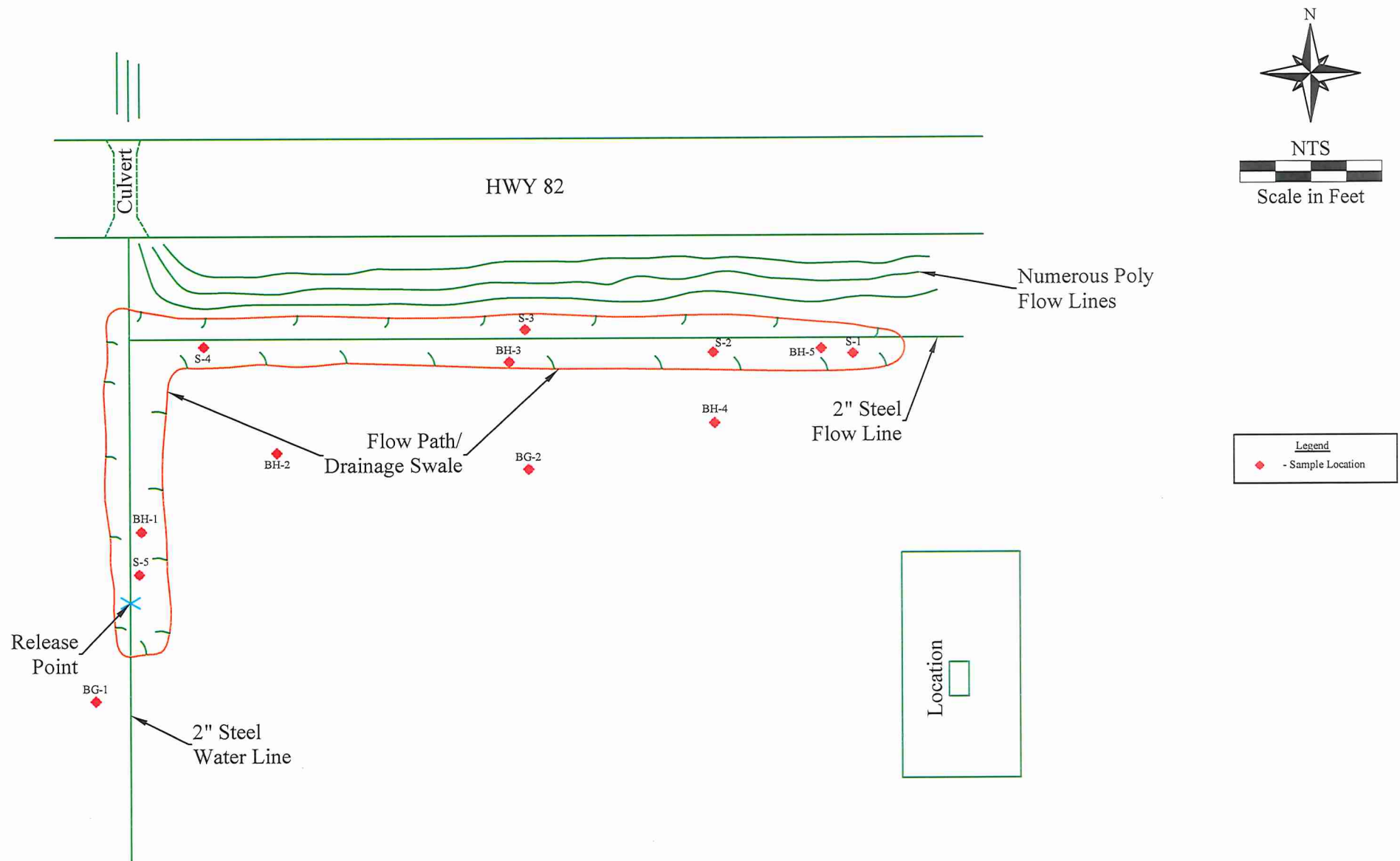
Respectfully submitted,

  
Sheldon Hitchcock  
Project Manager

  
David J. Adkins  
District Manager

# SITE PLAN





Date: 10/31/2014

Scale: NTS

Drawn By: TJS

Marathon Transfer Line  
 Lime Rock Resources  
 Eddy County, New Mexico  
 Figure 1 - Site Plan

# GROUNDWATER DATA

## INITIAL C-141



# 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	Q	Q	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">RA 11857 POD1</a>			ED	1	1	2	05	18S	26E	577784	3625988	3734	235	95	140

Average Depth to Water: 95 feet

Minimum Depth: 95 feet

Maximum Depth: 95 feet

Record Count: 1

### UTMNAD83 Radius Search (in meters):

Easting (X): 579365

Northing (Y): 3629372

Radius: 5000

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.

8/19/14 2:40 PM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

District I  
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

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 October 10, 2003

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

### Release Notification and Corrective Action

#### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company : <b>LIME ROCK RESOURCES A, LP</b>	Contact : <b>Mike Barrett</b>
Address : <b>1111 Bagby Street Suite 4600, Houston ,TX 77002</b>	Telephone No. : <b>575-748-9724</b>
Facility Name : <b>Marathon Water Transfer Line</b>	Facility Type: <b>Produced Water Line</b>

Surface Owner : <b>Private</b>	Mineral Owner: <b>State</b>	Lease No. :
--------------------------------	-----------------------------	-------------

#### LOCATION OF RELEASE

Unit Letter <b>SW 1/4</b>	Section <b>26</b>	Township <b>17S</b>	Range <b>28E</b>	Feet from the	North/South Line	Feet from the	East/West Line	County <b>Eddy</b>
------------------------------	----------------------	------------------------	---------------------	---------------	------------------	---------------	----------------	--------------------

Latitude **32.8002 N** Longitude **-104.14918 W**

#### NATURE OF RELEASE


Type of Release : <b>Produced Water</b>	Volume of Release : <b>150 bbls PW</b>	Volume Recovered: <b>7 bbls PW</b>
Source of Release : <b>Hole in water transfer line</b>	Date and Hour of Occurrence: <b>7/10/14 am</b>	Date and Hour of Discovery: <b>7/10/14</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>7/10/14 Laura Tulk w/NMOCD, @ 1:58 pm</b>	
By Whom? <b>Kimberly M. Wilson with Talon/LPE</b>	Date and Hour : <b>7/10/14</b>	
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 from hole in 2" steel water line. The line was isolated, clamped and repaired. A vac truck was immediately called to the location and recovered 5 barrels of produced water. Talon/LPE was contacted for initial site assessment and to generate a work plan.

Describe Area Affected and Cleanup Action Taken.\*  
The release flowed approximately 650-feet to the east in the drainage swale along Highway 82. Initial assessment samples were collected.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Michael Barrett</b>	Approved by District Supervisor:	
Title: <b>Assistant Production Supervisor</b>	Approval Date:	Expiration Date:
E-mail Address: <b>mbarrett@limerockresources.com</b>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <b>10/26/11</b> Phone: <b>575-748-9724</b>		

\* Attach Additional Sheets If Necessary

# LABORATORY RESULTS





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

July 18, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MARATHON TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 07/11/14 16:15.

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](http://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



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**Analytical Results For:**

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

Received: 07/11/2014  
Reported: 07/18/2014  
Project Name: MARATHON TRANSFER LINE  
Project Number: 701307062.01  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/10/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-1 0-0.25' (H402120-01)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.216	0.050	07/17/2014	ND	2.26	113	2.00	3.51	
Toluene*	0.276	0.050	07/17/2014	ND	2.08	104	2.00	3.14	
Ethylbenzene*	0.127	0.050	07/17/2014	ND	2.18	109	2.00	3.52	
Total Xylenes*	0.183	0.150	07/17/2014	ND	6.55	109	6.00	3.43	
Total BTX	0.802	0.300	07/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 109 % 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	20800	16.0	07/17/2014	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	07/15/2014	ND	192	95.9	200	0.641	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	203	102	200	3.60	

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 121 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 07/11/2014  
 Reported: 07/18/2014  
 Project Name: MARATHON TRANSFER LINE  
 Project Number: 701307062.01  
 Project Location: EDDY COUNTY, NM

Sampling Date: 07/10/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-2 0-0.25' (H402120-02)**

BTEX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.070	0.050	07/17/2014	ND	2.26	113	2.00	3.51	
Toluene*	0.215	0.050	07/17/2014	ND	2.08	104	2.00	3.14	
Ethylbenzene*	0.104	0.050	07/17/2014	ND	2.18	109	2.00	3.52	
Total Xylenes*	<0.150	0.150	07/17/2014	ND	6.55	109	6.00	3.43	
Total BTEX	0.389	0.300	07/17/2014	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	20400	16.0	07/17/2014	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	07/15/2014	ND	192	95.9	200	0.641	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	203	102	200	3.60	

Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 07/11/2014  
Reported: 07/18/2014  
Project Name: MARATHON TRANSFER LINE  
Project Number: 701307062.01  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/10/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-2 0.5' (H402120-03)**

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	07/17/2014	ND	2.26	113	2.00	3.51	
Toluene*	<b>0.093</b>	0.050	07/17/2014	ND	2.08	104	2.00	3.14	
Ethylbenzene*	<b>0.054</b>	0.050	07/17/2014	ND	2.18	109	2.00	3.52	
Total Xylenes*	<0.150	0.150	07/17/2014	ND	6.55	109	6.00	3.43	
Total BTEX	<0.300	0.300	07/17/2014	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	<b>18400</b>	16.0	07/17/2014	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	07/15/2014	ND	192	95.9	200	0.641	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	203	102	200	3.60	

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 07/11/2014  
Reported: 07/18/2014  
Project Name: MARATHON TRANSFER LINE  
Project Number: 701307062.01  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/10/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-3 0' (H402120-04)**

BTEX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.113	0.050	07/17/2014	ND	2.26	113	2.00	3.51	
Toluene*	0.971	0.050	07/17/2014	ND	2.08	104	2.00	3.14	
Ethylbenzene*	1.19	0.050	07/17/2014	ND	2.18	109	2.00	3.52	
Total Xylenes*	1.86	0.150	07/17/2014	ND	6.55	109	6.00	3.43	
Total BTEX	4.13	0.300	07/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	26400	16.0	07/17/2014	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	27.1	10.0	07/14/2014	ND	180	90.2	200	0.0898	
DRO >C10-C28	235	10.0	07/14/2014	ND	178	89.1	200	2.45	

Surrogate: 1-Chlorooctane 115 % 65.2-140

Surrogate: 1-Chlorooctadecane 121 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 07/11/2014  
Reported: 07/18/2014  
Project Name: MARATHON TRANSFER LINE  
Project Number: 701307062.01  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/10/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-3 0.5' (H402120-05)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.065	0.050	07/17/2014	ND	2.26	113	2.00	3.51	
Toluene*	0.334	0.050	07/17/2014	ND	2.08	104	2.00	3.14	
Ethylbenzene*	0.167	0.050	07/17/2014	ND	2.18	109	2.00	3.52	
Total Xylenes*	0.218	0.150	07/17/2014	ND	6.55	109	6.00	3.43	
Total BTEX	0.783	0.300	07/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 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	14600	16.0	07/17/2014	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	07/14/2014	ND	180	90.2	200	0.0898	
DRO >C10-C28	<10.0	10.0	07/14/2014	ND	178	89.1	200	2.45	

Surrogate: 1-Chlorooctane 117 % 65.2-140

Surrogate: 1-Chlorooctadecane 122 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 07/11/2014  
Reported: 07/18/2014  
Project Name: MARATHON TRANSFER LINE  
Project Number: 701307062.01  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/10/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-3 1.0' (H402120-06)**

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	07/17/2014	ND	2.26	113	2.00	3.51	
Toluene*	<0.050	0.050	07/17/2014	ND	2.08	104	2.00	3.14	
Ethylbenzene*	<0.050	0.050	07/17/2014	ND	2.18	109	2.00	3.52	
Total Xylenes*	<0.150	0.150	07/17/2014	ND	6.55	109	6.00	3.43	
Total BTEX	<0.300	0.300	07/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PII) 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	17600	16.0	07/17/2014	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	07/14/2014	ND	180	90.2	200	0.0898	
DRO >C10-C28	<10.0	10.0	07/14/2014	ND	178	89.1	200	2.45	

Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 118 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 07/11/2014  
Reported: 07/18/2014  
Project Name: MARATHON TRANSFER LINE  
Project Number: 701307062.01  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/10/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-4 0' (H402120-07)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/17/2014	ND	2.26	113	2.00	3.51	
Toluene*	0.817	0.100	07/17/2014	ND	2.08	104	2.00	3.14	
Ethylbenzene*	1.62	0.100	07/17/2014	ND	2.18	109	2.00	3.52	
Total Xylenes*	2.08	0.300	07/17/2014	ND	6.55	109	6.00	3.43	
Total BTX	4.52	0.600	07/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 117 % 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	18200	16.0	07/17/2014	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	94.1	10.0	07/14/2014	ND	180	90.2	200	0.0898	
DRO >C10-C28	626	10.0	07/14/2014	ND	178	89.1	200	2.45	

Surrogate: 1-Chlorooctane 127 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 07/11/2014  
Reported: 07/18/2014  
Project Name: MARATHON TRANSFER LINE  
Project Number: 701307062.01  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/10/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-4 0.5' (H402120-08)**

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.118	0.050	07/17/2014	ND	2.26	113	2.00	3.51	
Toluene*	0.837	0.050	07/17/2014	ND	2.08	104	2.00	3.14	
Ethylbenzene*	1.19	0.050	07/17/2014	ND	2.18	109	2.00	3.52	
Total Xylenes*	1.60	0.150	07/17/2014	ND	6.55	109	6.00	3.43	
Total BTEX	3.74	0.300	07/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 117 % 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	18200	16.0	07/17/2014	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	07/14/2014	ND	180	90.2	200	0.0898	
DRO >C10-C28	<10.0	10.0	07/14/2014	ND	178	89.1	200	2.45	

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

### Analytical Results For:

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

Received:	07/11/2014	Sampling Date:	07/10/2014
Reported:	07/18/2014	Sampling Type:	Soil
Project Name:	MARATHON TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	701307062.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

### Sample ID: S-5 0.5' (H402120-09)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.68	0.050	07/17/2014	ND	2.26	113	2.00	3.51	
Toluene*	0.637	0.050	07/17/2014	ND	2.08	104	2.00	3.14	
Ethylbenzene*	0.096	0.050	07/17/2014	ND	2.18	109	2.00	3.52	
Total Xylenes*	<0.150	0.150	07/17/2014	ND	6.55	109	6.00	3.43	
Total BTX	2.41	0.300	07/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PII) 114 % 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	16400	16.0	07/17/2014	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	07/14/2014	ND	180	90.2	200	0.0898	
DRO >C10-C28	<10.0	10.0	07/14/2014	ND	178	89.1	200	2.45	

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 125 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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*Celestine D. Keene*

Celestine D. Keene, Lab Director/Quality Manager





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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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*Celey D. Keene*

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		P.O. #:		ANALYSIS REQUEST	
Project Manager: D. ADKINS		Company: Talon/LPE			
Address: 408 W. Texas Ave.		Attn:			
City: Artesia		Address:			
State: NM zip: 88210		City:			
Phone #: 575-746-8768		State: Zip:			
Fax #: 575-746-8905		Phone #:			
Project #: 201302063.1		Project Owner: LimeRock			
Project Name: Murekud Transfer Line		Fax #:			
Project Location: Eddy		PRESERV			
Sample Name: D. ADKINS		SAMPLING			
FOR LAB USE ONLY					
Lab I.D.		Sample I.D.			
H402170		S-1, 0-0.25'			
1		S-2, 0-0.25'			
2		S-3, 0.5'			
3		S-4, 1.0'			
4		S-5, 0.5'			
5		S-6, 0.5'			
6		S-7, 0.5'			
7		S-8, 0.5'			
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		S-99, 0.5'			
		S-100, 0.5'			
		S-101, 0.5'			
		S-102, 0.5'			



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

August 08, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MARATHON TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 08/05/14 16:06.

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](http://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



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

**Analytical Results For:**

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

Received:	08/05/2014	Sampling Date:	08/01/2014
Reported:	08/08/2014	Sampling Type:	Soil
Project Name:	MARATHON TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	701307062.01	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

**Sample ID: S-1 1.25' REFUSAL (H402401-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	08/08/2014	ND	400	100	400	0.00	

**Sample ID: S-2 1.5' (H402401-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/08/2014	ND	400	100	400	0.00	

**Sample ID: S-2 2.0' (H402401-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/08/2014	ND	400	100	400	0.00	

**Sample ID: S-3 1.5' REFUSAL (H402401-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	08/08/2014	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 08/05/2014  
Reported: 08/08/2014  
Project Name: MARATHON TRANSFER LINE  
Project Number: 701307062.01  
Project Location: EDDY COUNTY, NM

Sampling Date: 08/01/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Kathy Perez

**Sample ID: S-4 1.5' (H402401-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	08/08/2014	ND	400	100	400	0.00	

**Sample ID: S-4 2.0' (H402401-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1780	16.0	08/08/2014	ND	400	100	400	0.00	

**Sample ID: S-5 2.0' (H402401-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10600	16.0	08/08/2014	ND	400	100	400	0.00	

**Sample ID: BG-1 0.25' (H402401-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/08/2014	ND	400	100	400	0.00	

**Sample ID: BG-2 0.5' (H402401-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	08/08/2014	ND	400	100	400	0.00	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 08/05/2014  
 Reported: 08/08/2014  
 Project Name: MARATHON TRANSFER LINE  
 Project Number: 701307062.01  
 Project Location: EDDY COUNTY, NM

Sampling Date: 08/01/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kathy Perez

**Sample ID: BG-3 0.5' (H402401-10)**

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/08/2014	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by 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

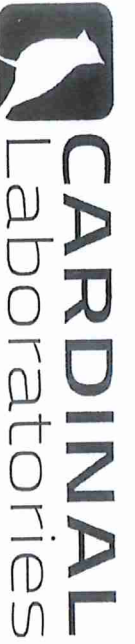
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*Celey D. Keene*

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:

THOU/LOE

Project Manager:

D. ADKINS

Address:

408 W. Texas

City:

Actia

State: NM Zip: 88211

Phone #:

575 444 4835

Fax #:

Project #:

701307.067.01

Project Owner: LiveRock

Project Name:

Marathon Transfer Line

Project Location:

D. ADKINS

Sample Name:

D. ADKINS

FOR LAB USE ONLY

D. ADKINS

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

8/1/14

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

August 18, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MARATHON TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 08/14/14 11:28.

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](http://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





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

**Analytical Results For:**

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

Received:	08/14/2014	Sampling Date:	08/13/2014
Reported:	08/18/2014	Sampling Type:	Soil
Project Name:	MARATHON TRANSFER LINE	Sampling Condition:	** (See Notes)
Project Number:	701307067.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: S-1 3' (H402505-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1720	16.0	08/18/2014	ND	400	100	400	3.92	

**Sample ID: S-4 3' (H402505-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	08/18/2014	ND	400	100	400	3.92	

**Sample ID: S-5 3' (H402505-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	08/18/2014	ND	400	100	400	3.92	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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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:** D. ADAMS

**Address:** 408 W. Texas Ave.

**City:** Artesia **State:** NM **Zip:** 88210

**Phone #:** 575-746-8768 **Fax #:** 575-746-8905

**Project #:** 701307.067.01 **Project Owner:** Live Rock

**Project Name:** Marathon Transfer Line

**Project Location:**

**Sample Name:** G-Ba-2a

FOR LAB USE ONLY

**P.O. #:**

**Company:** Talon/LPE

**Attn:**

**Address:**

**City:**

**State:** **Zip:**

**Phone #:**

**Fax #:**

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	SAMPLING
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
1	S-1 3'	G-1	1							8/13/14		✓
2	S-4 3'	G-1	1							8/13		✓
3	S-5 3'	G-1	1							8/13		✓

**Relinquished By:** [Signature]

**Date:** 8/14/14 **Time:** 0800

**Received By:** [Signature]

**Date:** 8/14/14 **Time:** 1228

**Relinquished By:** [Signature]

**Received By:** [Signature]

**Delivered By:** (Circle One) **UPS** **Bus** **Other**

**Sample Condition:** ☐ Cool ☐ Intact ☐ Yes ☐ No

**CHECKED BY:** (Initials) [Signature]

**REMARKS:**

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

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

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

October 09, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MARATHON WATER TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 10/03/14 14:30.

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.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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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



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

**Analytical Results For:**

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

Received:	10/03/2014	Sampling Date:	10/02/2014
Reported:	10/09/2014	Sampling Type:	Soil
Project Name:	MARATHON WATER TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	701307.067.01	Sample Received By:	Kathy Perez
Project Location:	NONE GIVEN		

**Sample ID: B-1 6' (H403038-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6880	16.0	10/07/2014	ND	416	104	400	0.00	

**Sample ID: B-1 8' (H403038-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	10/07/2014	ND	416	104	400	0.00	

**Sample ID: B-1 10' (H403038-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	10/07/2014	ND	416	104	400	0.00	

**Sample ID: B-1 15' (H403038-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	10/07/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	10/03/2014	Sampling Date:	10/02/2014
Reported:	10/09/2014	Sampling Type:	Soil
Project Name:	MARATHON WATER TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	701307.067.01	Sample Received By:	Kathy Perez
Project Location:	NONE GIVEN		

**Sample ID: B-1 20' (H403038-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	10/07/2014	ND	416	104	400	0.00	

**Sample ID: B-1 25' (H403038-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	10/07/2014	ND	416	104	400	0.00	

**Sample ID: B-1 30' (H403038-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	10/07/2014	ND	416	104	400	0.00	

**Sample ID: B-1 35' (H403038-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	10/07/2014	ND	416	104	400	0.00	

**Sample ID: B-1 40' (H403038-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/08/2014	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	10/03/2014	Sampling Date:	10/02/2014
Reported:	10/09/2014	Sampling Type:	Soil
Project Name:	MARATHON WATER TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	701307.067.01	Sample Received By:	Kathy Perez
Project Location:	NONE GIVEN		

**Sample ID: B-1 45' (H403038-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/08/2014	ND	400	100	400	3.92	

**Sample ID: B-1 50' (H403038-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/08/2014	ND	400	100	400	3.92	

**Sample ID: B-1 55' (H403038-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/08/2014	ND	400	100	400	3.92	

**Sample ID: B-2 2' (H403038-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/08/2014	ND	400	100	400	3.92	

**Sample ID: B-2 4' (H403038-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	10/08/2014	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/03/2014	Sampling Date:	10/02/2014
Reported:	10/09/2014	Sampling Type:	Soil
Project Name:	MARATHON WATER TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	701307.067.01	Sample Received By:	Kathy Perez
Project Location:	NONE GIVEN		

**Sample ID: B-2 6' (H403038-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	10/08/2014	ND	400	100	400	3.92	

**Sample ID: B-2 8' (H403038-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/08/2014	ND	400	100	400	3.92	

**Sample ID: B-2 10' (H403038-17)**

Chloride, SM4500Cl-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	10/08/2014	ND	400	100	400	3.92	

**Sample ID: B-2 15' (H403038-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/08/2014	ND	400	100	400	3.92	

**Sample ID: B-2 20' (H403038-19)**

Chloride, SM4500Cl-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	10/08/2014	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/03/2014  
Reported: 10/09/2014  
Project Name: MARATHON WATER TRANSFER LINE  
Project Number: 701307.067.01  
Project Location: NONE GIVEN

Sampling Date: 10/02/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Kathy Perez

**Sample ID: B-3 2' (H403038-20)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/08/2014	ND	400	100	400	3.92	

**Sample ID: B-3 4' (H403038-21)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1730	16.0	10/08/2014	ND	400	100	400	3.92	

**Sample ID: B-3 6' (H403038-22)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	10/08/2014	ND	400	100	400	3.92	

**Sample ID: B-3 8' (H403038-23)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	10/08/2014	ND	400	100	400	3.92	

**Sample ID: B-3 10' (H403038-24)**

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	10/08/2014	ND	400	100	400	3.92	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/03/2014	Sampling Date:	10/02/2014
Reported:	10/09/2014	Sampling Type:	Soil
Project Name:	MARATHON WATER TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	701307.067.01	Sample Received By:	Kathy Perez
Project Location:	NONE GIVEN		

**Sample ID: B-4 2' (H403038-25)**

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	10/08/2014	ND	400	100	400	3.92	

**Sample ID: B-4 4' (H403038-26)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/08/2014	ND	400	100	400	3.92	

**Sample ID: B-4 6' (H403038-27)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/08/2014	ND	400	100	400	3.92	

**Sample ID: B-4 8' (H403038-28)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/08/2014	ND	400	100	400	3.92	

**Sample ID: B-5 4' (H403038-29)**

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	10/08/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	10/03/2014	Sampling Date:	10/02/2014
Reported:	10/09/2014	Sampling Type:	Soil
Project Name:	MARATHON WATER TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	701307.067.01	Sample Received By:	Kathy Perez
Project Location:	NONE GIVEN		

**Sample ID: B-5 6' (H403038-30)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/08/2014	ND	416	104	400	0.00	

**Sample ID: B-5 8' (H403038-31)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	10/08/2014	ND	416	104	400	0.00	

**Sample ID: B-5 10' (H403038-32)**

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	10/08/2014	ND	416	104	400	0.00	

**Sample ID: B-5 15' (H403038-33)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	10/08/2014	ND	416	104	400	0.00	

**Sample ID: B-5 20' (H403038-34)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/08/2014	ND	416	104	400	0.00	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	10/03/2014	Sampling Date:	10/02/2014
Reported:	10/09/2014	Sampling Type:	Soil
Project Name:	MARATHON WATER TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	701307.067.01	Sample Received By:	Kathy Perez
Project Location:	NONE GIVEN		

**Sample ID: B-5 25' (H403038-35)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/08/2014	ND	416	104	400	0.00	

**Sample ID: B-5 30' (H403038-36)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/08/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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*Celey D. Keene*

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		P.O. #:		ANALYSIS REQUEST									
Project Manager: DAVID ADKINS		Company: Talon/LPE											
Address: 408 W. Texas Ave.		Attn:											
City: Artesia		Address:											
Phone #: 575-746-8768		City:											
Fax #: 575-746-8905		State:											
Project #: 701307.067.01		Zip:											
Project Owner: Line Rock													
Project Name: Mura Huu Water Transfer													
Project Location: Line													
Sampler Name: D. Adkins / G. Baerza													
FOR LAB USE ONLY		Fax #:											
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								
4403038	B-1 6'	G-1	1	10/21/14	0838								
	B-1 8'				0837								
	B-1 10'				0850								
	B-1 15'				0853								
	B-1 20'				0902								
	B-1 25'				0906								
	B-1 30'				0914								
	B-1 35'				0919								
	B-1 40'				0922								
	B-1 45'				0931								
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Relinquished By: [Signature]		Received By: [Signature]											
Date: 10-3-14		Date: 10-3-14											
Time: 11:30		Time: 11:30											
Relinquished By: [Signature]		Received By: [Signature]											
Date: 10-3-14		Date: 10-3-14											
Time: 8:30		Time: 8:30											
Delivered By: (Circle One)		Sample Condition		Cool Intact		CHECKED BY: [Signature]							
Sampler - UPS - Bus - Other:		Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>		(Initials)							
5:40		Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>		10							
P.1064													

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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: DAVID ADKINS

Address: 408 W. Texas Ave.

City: Artesia State: NM Zip: 88210

Phone #: 575-746-8768 Fax #: 575-746-8905

Project #: 701307.067.01 Project Owner: Line Rock

Project Name: Marathon Water Transfer

Project Location: Line

Sampler Name: D. ADKINS/G. Baeza

FOR LAB USE ONLY

Lab I.D. Sample I.D.

4403038

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(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

10/2/14 09:39

10/2/14 10:00

10/2/14 10:55

10/2/14 10:57

10/2/14 11:00

10/2/14 11:01

10/2/14 11:04

10/2/14 11:10

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE		P.O. #:		ANALYSIS REQUEST																			
Project Manager: DAVID ADKINS		Company: Talon/LPE																					
Address: 408 W. Texas Ave.		Attn:																					
City: Artesia		State: NM Zip: 88210																					
Phone #: 575-746-8768		Fax #: 575-746-8905																					
Project #: 761307.067.01		Project Owner: Lure Rock																					
Project Name: Marathon Water Transfer		City:																					
Project Location:		State: Zip:																					
Sampler Name: D-ADKINS/G-Baeza		Phone #:																					
FOR LAB USE ONLY		Fax #:																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV		SAMPLING											
H403038								GROUNDWATER															
								WASTEWATER															
								SOIL															
								OIL															
								SLUDGE															
								OTHER :															
								ACID/BASE:															
								ICE / COOL															
								OTHER :															
								DATE		TIME													
21		B-3 4'		G-1		10/2/14		11:39				TOTAL CHLORIDES											
22		B-3 6'				10/2		11:40															
23		B-3 8'						11:43															
24		B-3 10'						11:50															
25		B-4 2'						12:37															
26		B-4 4'						12:38															
27		B-4 6'						12:41															
28		B-4 8'						12:43															
29		B-5 4'						13:40															
30		B-5 6'						13:41															
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Relinquished By:		Date: 10-3-14		Received By:		Date: 10-3-14		Time: 11:30		Time: 10:30		Time: 8:30											
Relinquished By:		Date: 10-3-14		Received By:		Date: 10-3-14		Time: 11:30		Time: 10:30		Time: 8:30											
Delivered By: (Circle One)		Date: 10-3-14		Received By:		Date: 10-3-14		Time: 11:30		Time: 10:30		Time: 8:30											
Sampler - UPS - Bus - Other:		Date: 10-3-14		Received By:		Date: 10-3-14		Time: 11:30		Time: 10:30		Time: 8:30											
Sample Condition		Cool		Intact		Checked By:		Checked By:		Checked By:		Checked By:											
Yes		Yes		Yes		Yes		Yes		Yes		Yes											
No		No		No		No		No		No		No											
REMARKS:		P. 3 of 4																					

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

<b>Company Name:</b> Talon/LPE		<b>P.O. #:</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>									
<b>Project Manager:</b> David Adams															
<b>Address:</b> 408 W. Texas Ave.				<b>Company:</b> Talon/LPE											
<b>City:</b> Artesia	<b>State:</b> NM	<b>zip:</b> 88210	<b>Attn:</b>												
<b>Phone #:</b> 575-746-8768	<b>Fax #:</b> 575-746-8905	<b>Address:</b>													
<b>Project #:</b> 761307.067.01	<b>Project Owner:</b>	<b>City:</b>													
<b>Project Name:</b> Marathon water Transfer.	<b>State:</b>	<b>Zip:</b>													
<b>Project Location:</b>	<b>Line</b>														
<b>Sampler Name:</b> D Adams / G. Baerz	<b>Fax #:</b>														
<small>FOR LAB USE ONLY</small>		<b>MATRIX</b>		<b>PRESERV.</b>	<b>SAMPLING</b>										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TOTAL CHLORIDES
H 40303X	B-5' 8'	G	1	-									10/2/14	1342	
	B-5' 10'													1343	
	B-5' 15'													1345	
	B-5' 20'													1348	
	B-5' 25'													1351	
	B-5' 30'													1355	

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<b>Relinquished By:</b>	<b>Date:</b> 10-3-14	<b>Received By:</b>	<b>Date:</b> 10-3-14	<b>Time:</b> 11:30	<b>Sample Condition:</b>	<b>CHECKED BY:</b>
<b>Relinquished By:</b>	<b>Date:</b>	<b>Received By:</b>	<b>Date:</b>	<b>Time:</b>	<b>Sample Condition:</b>	<b>CHECKED BY:</b>
<b>Delivered By:</b> (Circle One)	<b>Date:</b> 10-3-14	<b>Time:</b> 8:30				
<b>Sampler:</b> GPS - Bus - Other:						

**REMARKS:** P. 4 of 4

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

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

**From:** Patterson, Heather, EMNRD  
**To:** ["Sheldon Hitchcock"](#)  
**Cc:** [David Adkins](#); [Kimberly M. Wilson](#); [Bratcher, Mike, EMNRD](#)  
**Subject:** RE: Lime Rock-Marathon Water Transfer Line  
**Date:** Wednesday, November 05, 2014 8:57:00 AM

---

RE: Lime Rock \* Marathon Water Transfer Line \* 2RP-2457

Sheldon,

Your work plan is approved with the following exception:

- Please extend the liner to include the area of S3.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Heather Patterson  
Environmental Specialist  
NMOCD District II  
(575)748-1283 ext.101

---

**From:** Sheldon Hitchcock [mailto:[slhitchcock@talonlpe.com](mailto:slhitchcock@talonlpe.com)]  
**Sent:** Friday, October 31, 2014 2:47 PM  
**To:** Patterson, Heather, EMNRD; Bratcher, Mike, EMNRD  
**Cc:** David Adkins; Kimberly M. Wilson  
**Subject:** Lime Rock-Marathon Water Transfer Line

Heather,

The work plan for the Marathon Water Transfer Line is attached. Please review it and let me know if you have any questions. Thank you.

Respectfully,

**Sheldon L. Hitchcock**  
Project Manager  
Talon/LPE  
408 West Texas Avenue  
Artesia, New Mexico 88210  
Phone: (575) 746-8768  
Cell: (575) 689-5198  
Fax: (575) 746-8905  
Email: [slhitchcock@talonlpe.com](mailto:slhitchcock@talonlpe.com)

Web: [www.talonlpe.com](http://www.talonlpe.com)



Better Business Bureau Torch Award for Marketplace Ethics: 2010 Winner, 2009 Finalist

Staples Foundation for Learning Hall of Fame Recipient: 2010

ICIC and Business Week- Top 100: 2010, 2009, 2008, 2007, 2006

Inc. 500/5000: 2012, 2011, 2010, 2009, 2008, 2007

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**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS  
  
Action 381026

CONDITIONS

Operator: LIME ROCK RESOURCES II-A, L.P. 1111 Bagby Street Houston, TX 77002	OGRID: 277558
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CONDITIONS

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