

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

Web: 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. 1st 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.

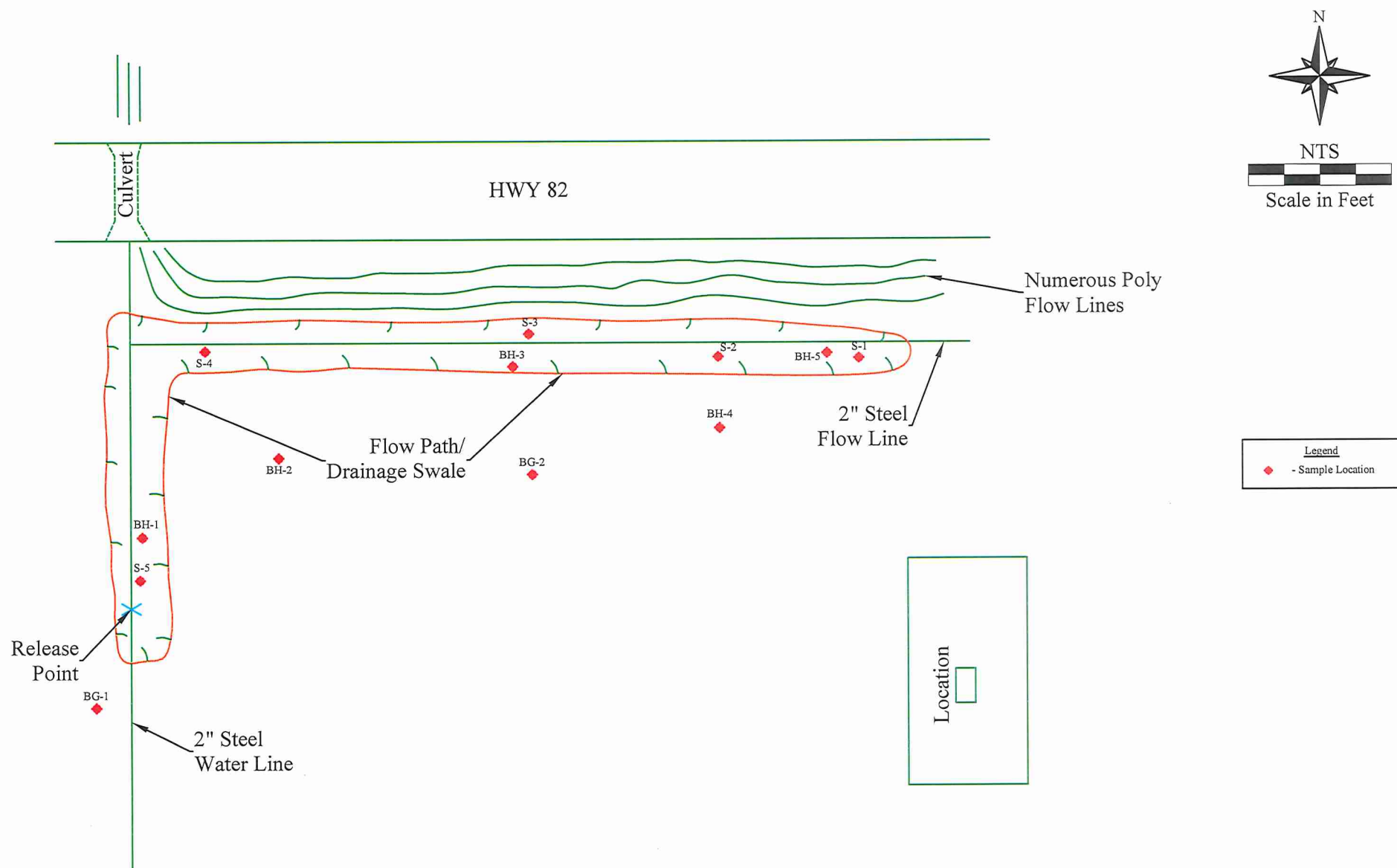
Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768.

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 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
RA 11857 POD1			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.

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


Surface Owner : Private	Mineral Owner: State	Lease No. :
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LOCATION OF RELEASE

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

NATURE OF RELEASE

Type of Release : Produced Water	Volume of Release : 150 bbls PW	Volume Recovered: 7 bbls PW
Source of Release : Hole in water transfer line	Date and Hour of Occurrence: 7/10/14 am	Date and Hour of Discovery: 7/10/14
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? 7/10/14 Laura Tulk w/NMOCD, @ 1:58 pm	
By Whom? Kimberly M. Wilson with Talon/LPE	Date and Hour : 7/10/14	
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: 	OIL CONSERVATION DIVISION	
Printed Name: Michael Barrett	Approved by District Supervisor:	
Title: Assistant Production Supervisor	Approval Date:	Expiration Date:
E-mail Address: mbarrett@limerockresources.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/26/11 Phone: 575-748-9724		

* 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.

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	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-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 (PIC) 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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Celest D. Keene

Celest 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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*=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 0.5' (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*	0.093	0.050	07/17/2014	ND	2.08	104	2.00	3.14	
Ethylbenzene*	0.054	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	18400	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

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	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-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

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-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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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)

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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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

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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-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 (PIB) 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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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

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. #:		BILL TO																																							
Project Manager: D. ADKINS		Company: Talon/LPE																																									
Address: 408 W. Texas Ave.		Attn:																																									
City: Artesia		Address:																																									
Phone #: 575-746-8768		City:																																									
Fax #: 575-746-8905		State: NM Zip: 88210																																									
Project #: 2013070681		Project Owner: Lime Rock																																									
Project Name: Marland Transfer Line		State:																																									
Project Location: Edley		Phone #:																																									
Sample Name: D. ADKINS		Fax #:																																									
FOR LAB USE ONLY		MATRIX		PRESERV.		SAMPLING																																					
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		ANALYSIS REQUEST													
H402700		S-1 O-0.25'		G-1		1		1		1		1		1		1		1		1		1		1		7/10/14		1		1		pH											
S-2 O-0.25'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10/14		1		1		BTEX											
S-3 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1		TOTAL CHLORIDES											
S-4 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-5 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-6 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-7 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-8 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-9 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-10 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-11 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-12 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-13 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-14 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-15 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-16 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-17 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-18 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-19 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-20 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-21 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-22 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-23 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-24 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-25 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-26 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-27 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-28 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-29 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-30 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-31 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-32 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-33 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-34 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-35 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-36 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-37 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-38 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-39 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-40 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-41 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-42 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-43 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-44 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-45 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-46 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-47 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-48 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-49 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-50 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-51 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-52 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-53 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-54 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-55 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-56 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-57 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-58 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-59 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-60 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-61 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-62 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-63 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-64 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-65 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-66 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-67 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-68 O-0.5'		G-1		1		1		1		1		1		1		1		1		1		1		1		7/10		1		1													
S-69 O-0.5'		G-1		1		1</																																					



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.

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	

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:	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-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

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
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 SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL
Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: THAN LPB		BILL TO		ANALYSIS REQUEST									
Project Manager: D. ADKINS		P.O. #:											
Address: 408 W. TEXAS		Company: THAN											
City: ARLESIA		Attn:											
State: NM		Address:											
Zip: 88211		City:											
Phone #: 575 441 4835		State:											
Fax #: 575 441 4835		Zip:											
Project #: 701307.067.01		Project Owner: LINE RUCK											
Project Name: MARATHON TRANSFER LINE		Phone #:											
Project Location:		Fax #:											
Sample Name: D. ADKINS		PRESERV.											
FOR LAB USE ONLY		SAMPLING											
Lab I.D.		MATRIX											
Sample I.D.		GROUNDWATER											
		WASTEWATER											
		SOIL											
		OIL											
		SLUDGE											
		OTHER :											
		ACID/BASE:											
		ICE / COOL											
		OTHER :											
		DATE											
		TIME											
1		S-1, 1.25' refusal		TOTAL CHLORIDES									
2		S-2, 1.5'											
3		S-2, 2.0'											
4		S-3, 1.5' refusal											
5		S-4, 1.5'											
6		S-4, 2.0'											
7		S-5, 2.0'											
8		B6-1, 0.25'											
9		B6-2, 0.5'											
10		B6-3, 0.5'											
11		B6-4, 0.5'											
12		B6-5, 0.5'											
13		B6-6, 0.5'											
14		B6-7, 0.5'											
15		B6-8, 0.5'											
16		B6-9, 0.5'											
17		B6-10, 0.5'											
18		B6-11, 0.5'											
19		B6-12, 0.5'											
20		B6-13, 0.5'											
21		B6-14, 0.5'											
22		B6-15, 0.5'											
23		B6-16, 0.5'											
24		B6-17, 0.5'											
25		B6-18, 0.5'											
26		B6-19, 0.5'											
27		B6-20, 0.5'											
28		B6-21, 0.5'											
29		B6-22, 0.5'											
30		B6-23, 0.5'											
31		B6-24, 0.5'											
32		B6-25, 0.5'											
33		B6-26, 0.5'											
34		B6-27, 0.5'											
35		B6-28, 0.5'											
36		B6-29, 0.5'											
37		B6-30, 0.5'											
38		B6-31, 0.5'											
39		B6-32, 0.5'											
40		B6-33, 0.5'											
41		B6-34, 0.5'											
42		B6-35, 0.5'											
43		B6-36, 0.5'											
44		B6-37, 0.5'											
45		B6-38, 0.5'											
46		B6-39, 0.5'											
47		B6-40, 0.5'											
48		B6-41, 0.5'											
49		B6-42, 0.5'											
50		B6-43, 0.5'											
51		B6-44, 0.5'											
52		B6-45, 0.5'											
53		B6-46, 0.5'											
54		B6-47, 0.5'											
55		B6-48, 0.5'											
56		B6-49, 0.5'											
57		B6-50, 0.5'											
58		B6-51, 0.5'											
59		B6-52, 0.5'											
60		B6-53, 0.5'											
61		B6-54, 0.5'											
62		B6-55, 0.5'											
63		B6-56, 0.5'											
64		B6-57, 0.5'											
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66		B6-59, 0.5'											
67		B6-60, 0.5'											
68		B6-61, 0.5'											
69		B6-62, 0.5'											
70		B6-63, 0.5'											
71		B6-64, 0.5'											
72		B6-65, 0.5'											
73		B6-66, 0.5'											
74		B6-67, 0.5'											
75		B6-68, 0.5'											
76		B6-69, 0.5'											
77		B6-70, 0.5'											
78		B6-71, 0.5'											
79		B6-72, 0.5'											



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.

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	

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(576) 393-2326 FAX (515) 353-2410

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: Linc Road

Project Name: Marathon Transfer Line

Project Location:

Sample Name: G-Bater-a

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H402505

S-1 3'

S-4 3'

S-5 3'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

8/13/14

8/13

8/13

CL-

✓

✓

✓

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Date: 8/14/14 Received By: [Signature]

Time: 0800

Refringished By: [Signature]

Date: 8/14/14 Received By: [Signature]

Time: 11:28

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

NO. 40

Sample Condition
Cool Intact
☐ Yes ☒ No

CHECKED BY: [Signature]
(Initials)

REMARKS:
Phone Result: ☐ Yes ☒ No Add'l Phone #:
Fax Result: ☐ Yes ☒ No Add'l Fax #:



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.

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:	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, SM4500CI-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, SM4500CI-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, SM4500CI-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, SM4500CI-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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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:

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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, SM4500CI-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, SM4500CI-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, 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	

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

Chloride, SM4500CI-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, 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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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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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



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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-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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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-5 25' (H403038-35)

Chloride, SM4500CI-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, SM4500CI-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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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: Marva Hunsicker 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:		Date: 10-3-14		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #: _____							
Relinquished By:		Time: 11:30		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #: _____		REMARKS:							
Delivered By: (Circle One)		Date: 10-3-14		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #: _____							
Delivered By: (Circle One)		Time: 8:30		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #: _____		REMARKS:							
Sampler - UPS - Bus - Other:		Date: 10-3-14		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #: _____							
Sampler - UPS - Bus - Other:		Time: 5:40		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #: _____							

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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. #:		BILL TO									
Project Manager: DAVID ADKINS		Company: Talon/LPE		ANALYSIS REQUEST									
Address: 408 W. Texas Ave.		Attn:											
City: Artesia		Address:											
State: NM Zip: 88210		City:											
Phone #: 575-746-8768		State:											
Fax #: 575-746-8905		Zip:											
Project #: 701307.067.01		Project Owner: Line Rock											
Project Name: Marathon Water Transfer		Phone #:											
Project Location: Line		Fax #:											
Sampler Name: D. ADKINS/G. Baeza		SAMPLING											
FOR LAB USE ONLY		DATE											
Lab I.D. Sample I.D.		TIME											
H403038		10/2 1000											
11 B-1 50'		10/2 1039											
13 B-1 55'		10/2 1000											
14 B-2 2'		10/2 1055											
15 B-2 4'		10/2 1057											
16 B-2 6'		10/2 1100											
17 B-2 8'		10/2 1101											
18 B-2 10'		10/2 1104											
19 B-2 15'		10/2 1110											
20 B-2 20'		10/2 1120											
21 B-3 2'		10/2 1135											
(G)RAB OR (C)OMP.		DATE											
# CONTAINERS		TIME											
GROUNDWATER		TOTAL CHLORIDES											
WASTEWATER													
SOIL													
OIL													
SLUDGE													
OTHER :													
ACID/BASE:													
ICE / COOL													
OTHER :													
DATE		TIME											
10/2 1039		10/2 1000											
10/2 1055		10/2 1057											
10/2 1100		10/2 1101											
10/2 1104		10/2 1110											
10/2 1120		10/2 1135											
Relinquished By:		Received By:											
Date: 10-3-14		Date: 10-3-14											
Time: 11:30		Time: 11:30											
Relinquished By:		Received By:											
Date: 10-3-14		Date: 10-3-14											
Time: 8:30		Time: 8:30											
Delivered By: (Circle One)		Sample Condition											
Sampler: UPS - Bus - Other:		Cool Intact											
540		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
CHECKED BY (Initials)		P. 2664											
REMARKS:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>											
		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>											
		Add'l Phone #:											
		Add'l Fax #:											

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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.		Matrix		PRESERV		SAMPLING							
Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS									
GROUNDWATER		WASTEWATER		SOIL									
OIL		SLUDGE		OTHER :									
ACID/BASE:		ICE / COOL		OTHER :									
DATE		TIME											
10/2/14		11:39											
10/2		11:40											
11/43		1237											
1150		1238											
1241		1243											
1340		1341											
TOTAL CHLORIDES													

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Relinquished By: [Signature] Date: 10-3-14 Time: 11:30 Received By: [Signature] Date: 10-3-14 Time: 8:30

Relinquished By: [Signature] Date: 10-3-14 Time: 11:30 Received By: [Signature] Date: 10-3-14 Time: 8:30

Delivered By: (Circle One) [Signature] Date: 10-3-14 Time: 8:30

Sampler - UPS - Bus - Other: [Signature] Date: 10-3-14 Time: 8:30

Sample Condition: Cool Intact Yes [X] No []

Checked By: [Signature] (Initials) [Signature]

Phone Result: [] Yes [] No [] Add'l Phone #: []

Fax Result: [] Yes [] No [] Add'l Fax #: []

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

Company Name: Talon/LPE Project Manager: David 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: Project Name: Marathon Water Transfer Project Location: Line Sampler Name: D Adams/G. Baeta FOR LAB USE ONLY										P.O. #: Company: Talon/LPE Attn: Address: City: State: Zip: Phone #: Fax #:																																																																																																																															
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Relinquished By: _____ Date: 10-3-14 Received By: _____ Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Relinquished By: _____ Date: 11-3-14 Received By: _____ Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: _____ Relinquished By: _____ Date: 10-3-14 Received By: _____ REMARKS: _____ Relinquished By: _____ Date: 10-3-14 Received By: _____ REMARKS: _____																																																																																																																																									
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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Lab I.D.</th> <th rowspan="2">Sample I.D.</th> <th rowspan="2">(G)RAB OR (C)OMP.</th> <th rowspan="2"># CONTAINERS</th> <th colspan="6">MATRIX</th> <th rowspan="2">PRESERV.</th> <th rowspan="2">SAMPLING</th> <th rowspan="2">DATE</th> <th rowspan="2">TIME</th> <th rowspan="2">TOTAL CHLORIDES</th> </tr> <tr> <th>GROUNDWATER</th> <th>WASTEWATER</th> <th>SOIL</th> <th>OIL</th> <th>SLUDGE</th> <th>OTHER :</th> </tr> </thead> <tbody> <tr> <td>H 403038</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Q1</td> <td>B-5, 8'</td> <td></td> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10/2/14</td> <td>1342</td> <td></td> </tr> <tr> <td>32</td> <td>B-5, 10'</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1343</td> <td></td> </tr> <tr> <td>33</td> <td>B-5, 15'</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1345</td> <td></td> </tr> <tr> <td>34</td> <td>B-5, 20'</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1348</td> <td></td> </tr> <tr> <td>35</td> <td>B-5, 25'</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1351</td> <td></td> </tr> <tr> <td>36</td> <td>B-5, 30'</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1355</td> <td></td> </tr> </tbody> </table>												Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	TOTAL CHLORIDES	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	H 403038															Q1	B-5, 8'		6									10/2/14	1342		32	B-5, 10'		1										1343		33	B-5, 15'		1										1345		34	B-5, 20'		1										1348		35	B-5, 25'		1										1351		36	B-5, 30'		1										1355	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING					DATE	TIME	TOTAL CHLORIDES																																																																																																																							
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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 398784

CONDITIONS

Operator: LIME ROCK RESOURCES II-A, L.P. 1111 Bagby Street Houston, TX 77002	OGRID: 277558
	Action Number: 398784
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Historical document upload.	11/4/2024