



August 17, 2015

Ms. Heather Patterson

NMOCD District 2

811 S. 1st Street
Artesia, NM 88210

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

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

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

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

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

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

Subject: **Remedial Activities and Closure Report**
Lime Rock Resources II-A, L.P.
Windfohr 4 Federal #012
30-015-42037 (2RP-2968)

Dear Ms. Patterson,

Lime Rock II-A, L.P. (Lime Rock) contracted Talon/LPE (Talon) to perform soil assessment and consulting services at the above referenced location. The incident description, soil sampling results, remediation activities and closure report are submitted herein.

Background Information

The Windfohr 4 Federal #012 water transfer line release is located approximately fourteen (14) miles southeast of Artesia, New Mexico. The legal location for this release is Unit Letter E, Section 3, Township 18 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.77847 North and -104.27121 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Reeves-Gypsum land complex 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 older alluvial deposits of upland plains and piedmont areas. Drainage courses in this area are normally dry. Ground water in the project vicinity is approximately 140-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 0 Based on the following:

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

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Toll Free: 866.742.0742
www.talonlpe.com

Incident Description

A temporary 12-inch water transfer line had a leak at one of the connections which resulted in a release of approximately 18bbls of treated produced water. When the leak was discovered the line was repaired and a vacuum truck was dispatched to recover the standing fluid. Approximately 2bbls of fluid were recovered.

Talon mobilized personnel to conduct a site assessment and perform soil sampling utilizing a hand auger. Refusal was encountered at depths between 0.75-feet and 1.5-feet bgs with the hand auger. Upon receipt of laboratory results from the initial soil sampling event, a backhoe was mobilized to conduct further vertical delineation within the impacted area. Refusal was encountered at a depth of 2.5-feet bgs with the backhoe. Due to the hardness of the ground at this site, test pits were dug at only two sample locations that would represent the entire impacted area in worst case locations (sample locations S-3 & S-4). Laboratory results from the above referenced sampling activities are summarized in the table below.

Laboratory Results (4/14/2015)

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	--	26000	--	--
S-1	0.5	--	5440	--	--
S-1 Refusal	1	--	592	--	--
S-2	0	--	30800	--	--
S-2	0.5	--	18400	--	--
S-2	1	--	19200	--	--
S-2 Refusal	1.5	--	2760	--	--
S-3	0	--	12400	--	--
S-3	0.5	--	9330	--	--
S-3 Refusal	0.75	--	12500	--	--
S-4	0	--	35600	--	--
S-4	0.5	--	19600	--	--
S-4 Refusal	1	--	25200	--	--

(--) Analyte Not Tested

(ND) Analyte Not Detected

Laboratory Results (4/22/2015)

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	ND	--	ND	ND
S-2	0	ND	--	ND	ND
S-3	0	ND	--	ND	ND
S-3	2	--	64	--	--
S-3 Refusal	2.5	--	1060	--	--
S-4	0	ND	--	ND	ND
S-4	2	--	1280	--	--
S-4 Refusal	2.5	--	752	--	--

(--) Analyte Not Tested

(ND) Analyte Not Detected

Based upon the site ranking of 0, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene 5,000 mg/kg for TPH and 1,000 mg/kg for chlorides.

Remedial Actions

- The impacted area was excavated to a depth of 2.5-feet bgs.
- All of the excavated material was hauled to an NMOCD approved solid waste disposal facility.
- The excavation as backfilled with top soil and contoured to match the surrounding terrain.
- The backfilled area was seeded with BLM seed mixture #4.


On behalf of Lime Rock II-A, L.P. we respectfully request that no further actions be required and that closure with regard to this release be granted.

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

Respectfully submitted,

TALON/LPE

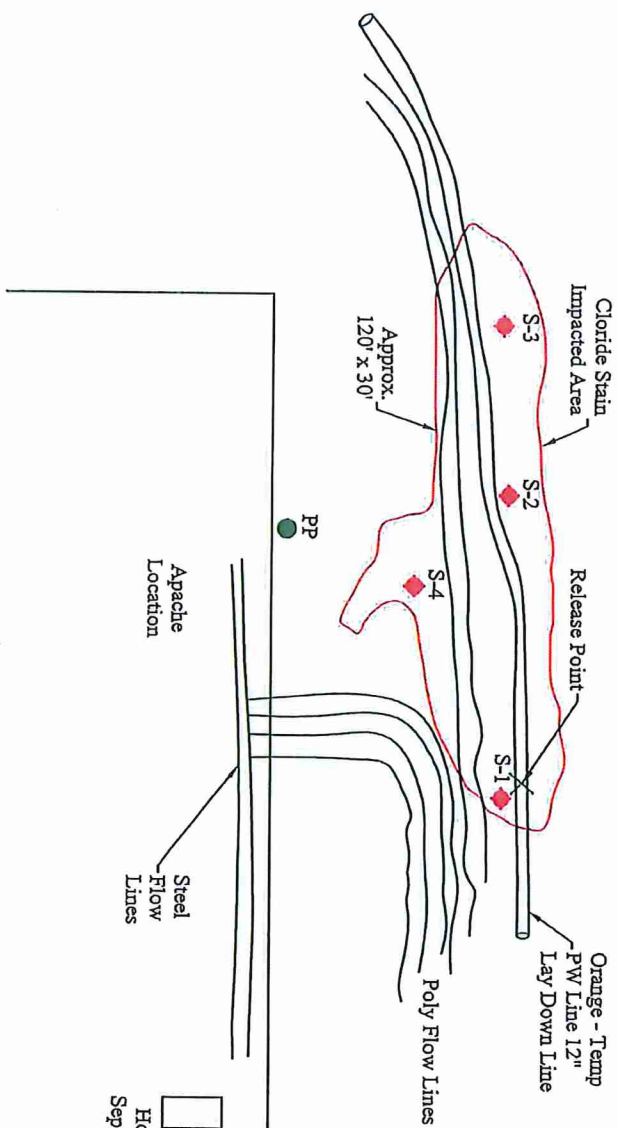

Sheldon L. Hitchcock
Project Manager


David J. Adkins
District Manager

SITE PLAN



NTS
Scale in Feet



Legend
♦ - Sample Location

Horizontal
Separators(2)

Apache
Location

Steel
Flow
Lines

Poly Flow Lines

Orange - Temp
PW Line 12"
Lay Down Line



Date: 04/28/2015

Scale: NTS

Drawn By: TJS

L.P. Windfohr Water Transfer Line

Lime Rock Resources

Eddy County, New Mexico

Figure 1 - Site Plan

GROUNDWATER DATA



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)

(R=POD has
been replaced,
O=orphaned,
C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD															
Sub-															
Q Q Q															
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
RA 03661			ED	3	2	3	32	17S	27E	565186	3628038*	3117	330	140	190

Average Depth to Water: 140 feet

Minimum Depth: 140 feet

Maximum Depth: 140 feet

Record Count: 1

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 568102

Northing (Y): 3626934

Radius: 3200

*UTM location was derived from PLSS - see Help

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

INITIAL C-141

&

Final C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

NM OIL CONSERVATION

ARTESIA DISTRICT

APR 24 2015

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

RECEIVED

Form C-141
Revised August 8, 2011

Release Notification and Corrective Action

NA815 11748740 OPERATOR ☒ Initial Report ☐ Final Report
Name of Company Lime Rock Resources II-A, L.P. 277558 Contact Michael Barrett
Address 1111 Bagby St. Ste. 4600, Houston, TX 77002 Telephone No. 575-623-8424
Facility Name Windfong Federal #012 Facility Type Water Transfer Line
Surface Owner BLM Mineral Owner Federal API No. 30-015-42037

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	3	18S	27E	2005	N	990	W	Eddy

Latitude 32.77847 Longitude -104.27121

NATURE OF RELEASE

Type of Release Produced water	Volume of Release 18bbbls	Volume Recovered 2bbbls
Source of Release Water Transfer Line	Date and Hour of Occurrence 4/8/2015 7:00am	Date and Hour of Discovery 4/8/2015
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A temporary 12" transfer line had a leak at one of the connections which caused a release of approximately 18bbbls of treated produced water. When the leak was discovered the line was repaired and a vacuum truck was dispatched to recover the standing fluid. Approximately 2bbbls of fluid were recovered. Talon/LPE mobilized personnel to conduct an initial site assessment and perform soil sampling activities within the impacted area.

Describe Area Affected and Cleanup Action Taken.*

The impacted area is in the pasture just north of the Apache Red Lake 3 Fed #2 (30-015-29802) location and measures approximately 120' x 50'. Talon/LPE mobilized personnel to conduct an initial site assessment and soil sampling utilizing a hand auger. Refusal with the hand auger was encountered at depths varying from 0.75' to 1' deep. A backhoe was mobilized to continue the vertical delineation of chlorides. Refusal with the backhoe was encountered at a depth of 2' deep.

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

Signature: <u>Michael Barrett</u>	OIL CONSERVATION DIVISION	
Printed Name: Michael Barrett	Approved by Environmental Specialist: <u>[Signature]</u>	
Title: Production Supervisor	Approval Date: <u>4/27/15</u>	Expiration Date:
E-mail Address: mbarrett@limerockresources.com	Conditions of Approval: <input type="checkbox"/> Attached <input type="checkbox"/> Remediation per O.C.D. Rules & Guidelines	
Date: <u>4-23-15</u> Phone: 575-623-8424	SUBMIT REMEDIATION PROPOSAL NO	

* Attach Additional Sheets If Necessary

LATER THAN: 5/27/15

2RP-29468

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report


Name of Company Lime Rock Resources II-A, L.P.	Contact Michael Barrett	
Address 1111 Bagby St. Ste. 4600, Houston, TX 77002	Telephone No. 575-623-8424	
Facility Name Windfohr 4 Federal #012	Facility Type Water Transfer Line	
Surface Owner BLM	Mineral Owner Federal	API No. 30-015-42037

LOCATION OF RELEASE

Unit Letter E	Section 3	Township 18S	Range 27E	Feet from the 2005	North/South Line N	Feet from the 990	East/West Line W	County Eddy
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Latitude 32.77847 Longitude -104.27121

NATURE OF RELEASE

Type of Release Produced water	Volume of Release 18bbbls	Volume Recovered 2bbbls
Source of Release Water Transfer Line	Date and Hour of Occurrence 4/8/2015 7:00am	Date and Hour of Discovery 4/8/2015
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* A temporary 12" transfer line had a leak at one of the connections which caused a release of approximately 18bbbls of treated produced water. When the leak was discovered the line was repaired and a vacuum truck was dispatched to recover the standing fluid. Approximately 2bbbls of fluid were recovered. Talon/LPE mobilized personnel to conduct an initial site assessment and perform soil sampling activities within the impacted area.		
Describe Area Affected and Cleanup Action Taken.* The impacted area is in the pasture just north of the Apache Red Lake 3 Fed #2 (30-015-29802) location and measures approximately 120' x 50'. Talon/LPE mobilized personnel to conduct an initial site assessment and soil sampling utilizing a hand auger. Refusal with the hand auger was encountered at depths varying from 0.75' to 1' deep. A backhoe was mobilized to continue the vertical delineation of chlorides. Refusal with the backhoe was encountered at a depth of 2.5' deep. Upon receipt of analytical results from the soil sampling events a work plan was drafted and subsequently approved by NMOCD and BLM. The remediation was conducted per the approved work plan. The area was backfilled, contoured to match the surrounding terrain and seeded with BLM Seed Mixture #4.		
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 Environmental Specialist:
Title: Production Supervisor	Approval Date:	Expiration Date:
E-mail Address: mbarrett@limerockresources.com	Conditions of Approval:	
Date: <u>8-17-15</u> Phone: 575-623-8424	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

LABORATORY RESULTS



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

April 14, 2015

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WINDFOHR WATER TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/13/15 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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:	04/13/2015	Sampling Date:	04/11/2015
Reported:	04/14/2015	Sampling Type:	Soil
Project Name:	WINDFOHR WATER TRANSFER LINE	Sampling Condition:	** (See Notes)
Project Number:	701307.074.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-1 0' (H500963-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26000	16.0	04/13/2015	ND	416	104	400	0.00	

Sample ID: S-1 0.5' (H500963-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	04/13/2015	ND	416	104	400	0.00	

Sample ID: S-1 1.0' (H500963-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	04/13/2015	ND	416	104	400	0.00	

Sample ID: S-2 0' (H500963-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	30800	16.0	04/13/2015	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

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:	04/13/2015	Sampling Date:	04/11/2015
Reported:	04/14/2015	Sampling Type:	Soil
Project Name:	WINDFOHR WATER TRANSFER LINE	Sampling Condition:	** (See Notes)
Project Number:	701307.074.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-2 0.5' (H500963-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18400	16.0	04/13/2015	ND	416	104	400	0.00	

Sample ID: S-2 1.0' (H500963-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19200	16.0	04/13/2015	ND	416	104	400	0.00	

Sample ID: S-2 1.5' REFUSAL (H500963-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	04/13/2015	ND	416	104	400	0.00	

Sample ID: S-3 0' (H500963-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12400	16.0	04/13/2015	ND	416	104	400	0.00	

Sample ID: S-3 0.5' (H500963-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9330	16.0	04/13/2015	ND	416	104	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:	04/13/2015	Sampling Date:	04/11/2015
Reported:	04/14/2015	Sampling Type:	Soil
Project Name:	WINDFOHR WATER TRANSFER LINE	Sampling Condition:	** (See Notes)
Project Number:	701307.074.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-3 0.75' REFUSAL (H500963-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12500	16.0	04/13/2015	ND	432	108	400	7.69	

Sample ID: S-4 0' (H500963-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	35600	16.0	04/13/2015	ND	432	108	400	7.69	

Sample ID: S-4 0.5' (H500963-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19600	16.0	04/13/2015	ND	432	108	400	7.69	

Sample ID: S-4 1.0' REFUSAL (H500963-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25200	16.0	04/13/2015	ND	432	108	400	7.69	

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*=Accredited Analyte

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager

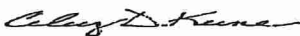
Notes and Definitions

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

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



ANALYSIS REQUEST

Page 6 of 7



ANALYSIS REQUEST

Page 7 of 7



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

April 22, 2015

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WINDFOHR WATER TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/21/15 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/21/2015	Sampling Date:	04/21/2015
Reported:	04/22/2015	Sampling Type:	Soil
Project Name:	WINDFOHR WATER TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	701307.074.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-1 0' (H501037-01)

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	04/22/2015	ND	2.13	106	2.00	0.0278	
Toluene*	<0.050	0.050	04/22/2015	ND	1.90	95.2	2.00	0.400	
Ethylbenzene*	<0.050	0.050	04/22/2015	ND	1.81	90.3	2.00	0.992	
Total Xylenes*	<0.150	0.150	04/22/2015	ND	5.72	95.4	6.00	1.48	
Total BTEX	<0.300	0.300	04/22/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 61-154

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	04/21/2015	ND	210	105	200	0.511	
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	228	114	200	2.63	

Surrogate: 1-Chlorooctane 83.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 80.6 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/21/2015	Sampling Date:	04/21/2015
Reported:	04/22/2015	Sampling Type:	Soil
Project Name:	WINDFOHR WATER TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	701307.074.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-2 0' (H501037-02)

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	04/22/2015	ND	2.13	106	2.00	0.0278	
Toluene*	<0.050	0.050	04/22/2015	ND	1.90	95.2	2.00	0.400	
Ethylbenzene*	<0.050	0.050	04/22/2015	ND	1.81	90.3	2.00	0.992	
Total Xylenes*	<0.150	0.150	04/22/2015	ND	5.72	95.4	6.00	1.48	
Total BTEX	<0.300	0.300	04/22/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 61-154

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	04/21/2015	ND	210	105	200	0.511	
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	228	114	200	2.63	

Surrogate: 1-Chlorooctane 87.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 82.9 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/21/2015	Sampling Date:	04/21/2015
Reported:	04/22/2015	Sampling Type:	Soil
Project Name:	WINDFOHR WATER TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	701307.074.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-3 0' (H501037-03)

BTEX 8021B		mg/kg		Analyzed By: ins					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2015	ND	2.13	106	2.00	0.0278	
Toluene*	<0.050	0.050	04/22/2015	ND	1.90	95.2	2.00	0.400	
Ethylbenzene*	<0.050	0.050	04/22/2015	ND	1.81	90.3	2.00	0.992	
Total Xylenes*	<0.150	0.150	04/22/2015	ND	5.72	95.4	6.00	1.48	
Total BTEX	<0.300	0.300	04/22/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 113 % 61-154

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	04/21/2015	ND	210	105	200	0.511	
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	228	114	200	2.63	

Surrogate: 1-Chlorooctane 83.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 79.1 % 52.1-176

Sample ID: S-3 2' (H501037-04)

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	04/22/2015	ND	416	104	400	0.00	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/21/2015	Sampling Date:	04/21/2015
Reported:	04/22/2015	Sampling Type:	Soil
Project Name:	WINDFOHR WATER TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	701307.074.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-3 2.5' REFUSAL (H501037-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	04/22/2015	ND	416	104	400	0.00	

Sample ID: S-4 0' (H501037-06)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2015	ND	2.13	106	2.00	0.0278	
Toluene*	<0.050	0.050	04/22/2015	ND	1.90	95.2	2.00	0.400	
Ethylbenzene*	<0.050	0.050	04/22/2015	ND	1.81	90.3	2.00	0.992	
Total Xylenes*	<0.150	0.150	04/22/2015	ND	5.72	95.4	6.00	1.48	
Total BTX	<0.300	0.300	04/22/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 112 % 61-154

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	04/21/2015	ND	210	105	200	0.511	
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	228	114	200	2.63	

Surrogate: 1-Chlorooctane 87.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 84.1 % 52.1-176

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/21/2015	Sampling Date:	04/21/2015
Reported:	04/22/2015	Sampling Type:	Soil
Project Name:	WINDFOHR WATER TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	701307.074.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-4 2' (H501037-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	04/22/2015	ND	416	104	400	0.00	

Sample ID: S-4 2.5' REFUSAL' (H501037-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	04/22/2015	ND	416	104	400	0.00	

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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		P.O. #:		BILTO												ANALYSIS REQUEST														
Project Manager: K. Wilson		Company: Talon/LPE																												
Address: 408 W. Texas Ave.		Attn:																												
City: Artesia		State: NM Zip: 88210																												
Phone #: 575-746-8768		Fax #: 575-746-8905																												
Project #: 701307.074.01		Project Owner: Line Rock																												
Project Name: WindPur water transfer line		City:																												
Project Location:		State:																												
Sampler Name: S. Hittner		Phone #:																												
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																
H5D1037	5-10'	G	1										9/23/15	11:08	Chlorides	TPH	BTEX													
2	5-20'	G	1											11:09																
3	5-30'	G	1											11:11																
4	5-32'	G	1											11:30																
5	5-32.5' PCHAL	G	1											11:50																
6	5-40'	G	1											11:12																
7	5-42'	G	1											12:30																
8	5-42.5' PCHAL	G	1											11:15																
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Relinquished By: Sheldon Purzner		Received By: Jodi Henderson																												
Time: 9:35		Date: 9/21/15																												
Relinquished By:		Received By:																												
Time:		Date:																												
Delivered By: (Circle One)		Sample Condition																												
Cool Intact		Cool Intact																												
Yes		Yes																												
No		No																												
Sampler - UPS - Bus - Other:		Checked By: JPH																												
5:42		Checked By:																												
No		Checked By:																												
No		Checked By:																												
REMARKS: Rush																														