



Remediation and Closure Report

Allthorn Transfer Line API # 30-015-43951, 2RP-4865 Talon Project No. 701307.111.01

Prepared For:

Lime Rock Resources II-A, L.P. 1111 Bagby St Suite 4600 Houston, TX 77002

Prepared By:

TALON/LPE 408 W. Texas Avenue Artesia, New Mexico 88210

February 15, 2019

Received by OCD: 5/15/2020 8:46:55 AM

Mr. Mike Bratcher NMOCD District 2 811 S. 1st Street Artesia, NM 88210

Subject:

Remediation and Closure Report

Althorn Transfer Line, 2RP-4865

API # 30-015-43951

Dear Mr. Bratcher,

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

Site Information

The Althorn Transfer Line is located approximately 10 miles E of Artesia, New Mexico. The legal location for this release is Unit Letter J, Section 36, Township 17 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.7897722 North and -104.235581 West. A site plan is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Reeves Gypsum complex with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Guadalupian (Middle Permian) in age and comprised of clay loam and gypsiferous formations. These are made up of loamy soils underlain by hard, weathered gypsum rock and caliche. Drainage courses in this area are well drained.

Ground Water and Site Ranking

The New Mexico State Engineer web site indicates that the depth to groundwater is 92' below ground surface (BGS). See Appendix II for the referenced groundwater data.

Therefore the ranking for this site is a 10 based on the following:

Depth to groundwater 51-100'
Wellhead Protection Area >1000'
Distance to surface water body >1000'

Based upon a site ranking of 10, NMOCD Recommended Remedial Action Levels (RRAL) at the time of this incident were 50 mg/kg for BTEX, 10 mg/kg for Benzene and 1,000 mg/kg for TPH. The recommended guidelines for total chlorides were 600 mg/kg.

Incident Description and Initial Remedial Actions

On June 28, 2018, vandals stole the transfer line connections resulting in a release of approximately 25 bbls of fresh and produced water that was trapped in the line. The 12-inch transfer line from the All Thorn Facility to the Hawk 8K Federal #51 had previously been flushed with fresh water and was idle at the time of the release. The line was subsequently capped to stop the leak. A backhoe and a dump truck with clean fill were dispatched to berm the spill at Evans Road. The backhoe was also utilized to scrape up the impacted soil from accessible areas in the flow path. A vac truck was dispatched and was able to recover 8 bbls of standing water. A site plan is presented in Appendix I which illustrates the impacted area.

On July 3, 2018, Talon mobilized personnel to the location for the initial site assessment and soil sampling. Samples were taken with the assistance of the backhoe on-site and sample points were advanced until hard rock refusal was met. The analytical results are presented in the following data table.

See Appendix VI for a complete report of laboratory results.

July 3, 2018, Soil Sampling Analysis

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH EXT (mg/kg)
S-1	1	< 0.300	27600	<10.0	185	72.7
	2	< 0.300	24000	<10.0	<10.0	<10.0
	3		1720			
	4		784			
	5		304			
	6		336			
S-2	1	< 0.300	5600	<10.0	<10.0	<10.0
	2		144			
S-3	1	< 0.300	8130	<10.0	<10.0	<10.0
	2		4040			·
	3		1720			
	4		2120			
	5		704			
	6		32			

7	 32	 	
8	 96	 	
9	 64	 	
10	 32	 	
11	 144	 	

--Analyte Not Tested

On July 11, 2018, Talon personnel returned to the site to carry out additional soil sampling. Soil samples were collected utilizing a hand auger to depths at which refusal (rock) was encountered. The analytical results are presented in the following data table.

July 11, 2018, Soil Sampling Analysis Using EPA Method 300

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH EXT (mg/kg)
S-4	1		49			
S-5	1		370			
S-6	1		1800			
S-7	1		ND			,
S-8	1		ND			
	2		ND			
S-9	1		ND			

--Analyte Not Tested, ND- No Analyte Detected

July 25, 2018, Soil Sampling Analysis

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH EXT (mg/kg)
S-10	0		16			
	1		64			

--Analyte Not Tested

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Remedial Actions Taken:

- The impacted area in the vicinity of S-1 was excavated to a depth of 4.0 feet deep with field titrations used to guide the excavation. See aerial photographs of the excavation in Appendix III.
- The impacted soil in the vicinity of S-2 was excavated to a depth of 1.5 feet with field titrations used to guide the excavation.
- The impacted area in the vicinity of S-3 and S-6 was excavated to a depth of 4.0 feet deep with a 20 mil liner installed at the bottom of the excavation.
- The flow path along Evans Road was excavated to a depth of 1.5 feet, as close as practicable to Evans Road.
- All of the excavated material was transported to Lea Land, LLC, a NMOCD approved solid waste disposal facility.
- The excavated areas were backfilled with locally obtained topsoil, machine compacted and contoured to match the surrounding terrain.
- The work area was then seeded with BLM #4 seed mix which correlates with the published soil survey information (Appendix II).
- A Final C-141 Form is also attached (Appendix V).

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Closure

On behalf of Lime Rock Resources, we respectfully request that no further actions be required and that closure with regard to this incident be granted.

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

Respectfully submitted,

TALON/LPE

Chris Jones
Project Manager

David J. Adkins District Manager

Attachments:

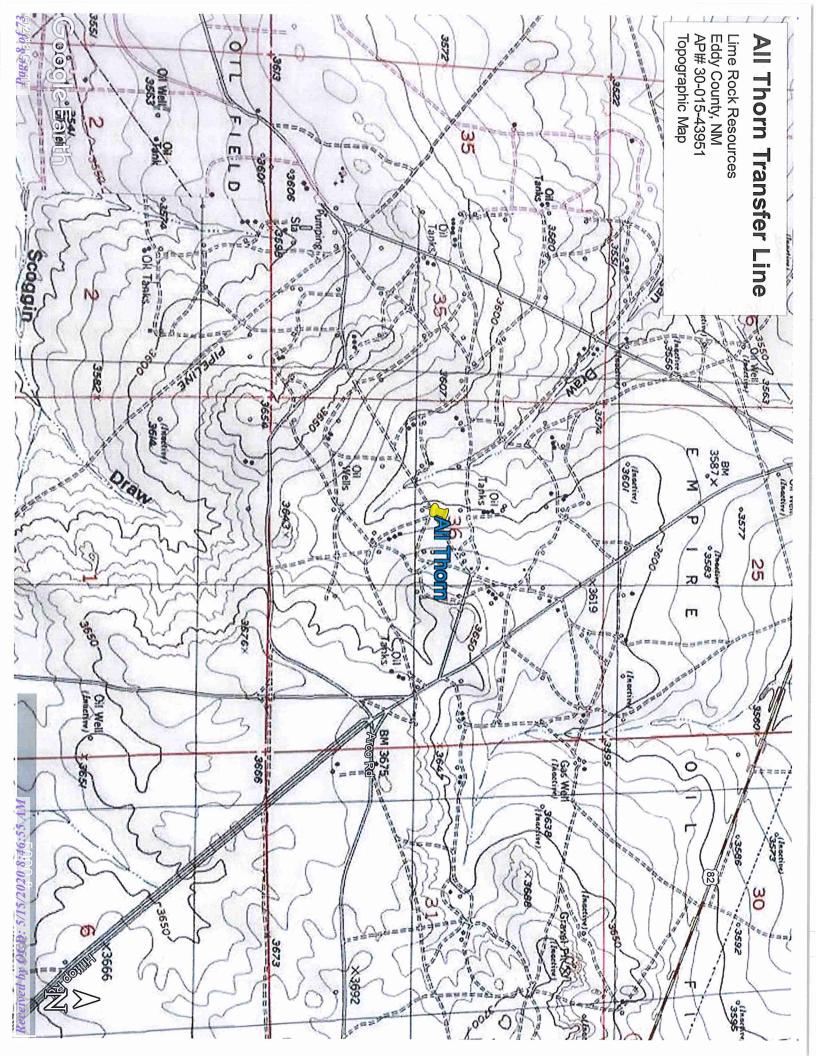
Appendix I Site Plan

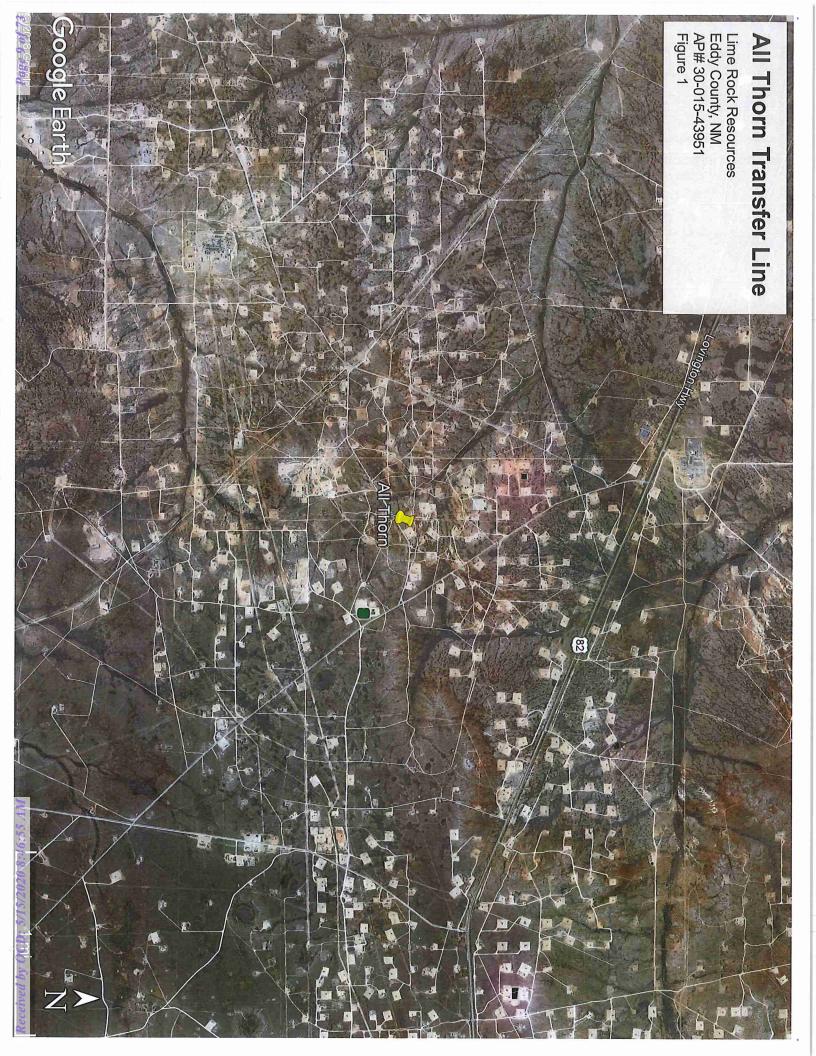
Appendix II Groundwater Data & Soil Survey Appendix III Photographic Documentation

Appendix IV FEMA FloodMap Appendix V Final C-141

Appendix VI Laboratory Reports

APPENDIX I SITE PLAN







APPENDIX II GROUNDWATER DATA SOIL SURVEY



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)

Code

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

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

1 4 4 24 17S 27E

POD

RA

Sub-

X

DistanceDepthWellDepthWater Column

POD Number RA 04561 RA 12456 POD1 basin County 64 16 4 Sec Tws Rng 4 2 26 27E RA 17S

570871 3630142* 572348 3630969

2496 250 2944 220

128

Average Depth to Water:

92 feet

Minimum Depth:

92 feet

Maximum Depth:

92 feet

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 572200

Northing (Y): 3628029

Radius: 3000

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.

7/23/18 8:08 AM

WATER COLUMN/ AVERAGE DEPTH TO

^{*}UTM location was derived from PLSS - see Help

Eddy Area, New Mexico

Map Unit Description: Reeves-Gypsum land complex, 0 to 3 percent slopes---Eddy Area, New

RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5f Elevation: 1,250 to 5,000 feet

Mean annual precipitation: 10 to 25 inches Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 190 to 235 days

Farmland classification: Not prime farmland

Map Unit Composition

Reeves and similar soils: 55 percent

Gypsum land: 30 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Reeves

Setting

Landform: Ridges, hills, plains

Landform position (two-dimensional): Backslope, footslope,

shoulder, toeslope

Landform position (three-dimensional): Side slope, crest, nose

slope, head slope Down-slope shape: Convex Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 8 inches: loam

H2 - 8 to 32 inches: clay loam

H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very

low to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 25 percent

Gypsum, maximum in profile: 80 percent

Salinity, maximum in profile: Very slightly saline to moderately

saline (2.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 4.0

Available water storage in profile: Low (about 4.3 inches)

Map Unit Description: Reeves-Gypsum land complex, 0 to 3 percent slopes---Eddy Area, New Maxico

Interpretive groups

Land capability classification (irrigated): 3s Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: B

Ecological site: Loamy (R042XC007NM)

Hydric soil rating: No

Description of Gypsum Land

Setting

Landform: Ridges, hills, plains

Landform position (two-dimensional): Backslope, footslope,

shoulder, toeslope

Landform position (three-dimensional): Side slope, crest, nose

slope, head slope Down-slope shape: Convex Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

Hydric soil rating: No

Minor Components

Reagan

Percent of map unit:

Ecological site: Loamy (R042XC007NM)

Hydric soil rating: No

Largo

Percent of map unit:

Ecological site: Loamy (R042XC007NM)

Hydric soil rating: No

Cottonwood

Percent of map unit:

Ecological site: Salty Bottomland (R042XC033NM)

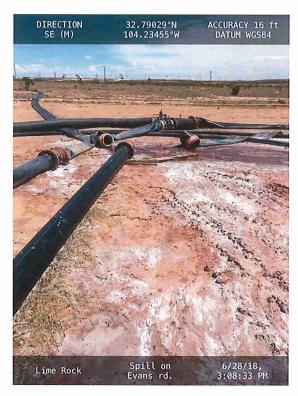
Hydric soil rating: No

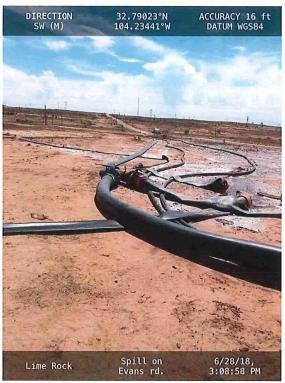
Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 14, Sep 12, 2018

APPENDIX III PHOTOGRAPHIC DOCUMENTATION

Before

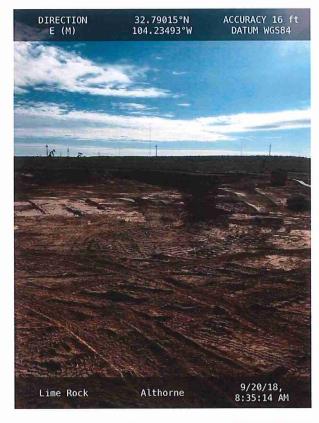




Excavation









Backfill





Completed





Seed Mix

1		1.88 10.00 23.63
	17	1 Test Date 05/18 04/18 mds:
	ids oject	Total Test SR.00% OS/18 SR.00% O4/18 Cotal Bulk Pounds;
althor	Talon / LPE, LTD 1.25 Acre BLM \$4, Drilled Rate 1 - 1.25 Acre Bag @ 23.63 Bulk Pounds Lime Rock- Allthorn Transfer Line Project #701307.111.01	mads and s
101	Talon / LPE, LTD cre BLM S4, Drille re Bag @ 23.63 Bu Allthorn Transfer 3 #701307.111.01	Purity Germ 9.14% 16.00% 72.56% 24.00% Reg Weighs 23.63 En Ihi Bag Weighs 23.63 En Ihi Bag For 1.25 Act
	1.25 Acr -1.25 Acr ne Rock- A	Co 9.14% 16.00% 71. deo 72.86% 24.00% 34. There are i Bags For This Mix This Bag Weighs 23.63 Bulk Pout Use This Bag For 1.25 Acres
Seed	Ē.	ferd Co
Curtis and Curtis Seed 450 North Prince 250 North Prince 250 North 88101 Phone: (\$75) 762-4759 www.curtisseed.com		Crigin D. New Merico of Stated atbushNew Mexico of Stated 1.25% Th 0.08% Th 16.57% Use
Curtis and Cur 4500 North Prince Clovis, NM 88101 Phone: (\$75) 762-47 www.curtisseed.com	Lot# M-15383	Alleal Sacaton New Mexico Variety Not Stated Four-Wing SatchishNew Mexico Variety Not Stated Other Crop. 1.25% Thi Inert Matter. 16.57% Use

APPENDIX IV FEMA FLOOD MAP

National Flood Hazard Layer FIRMette

32°47'38.50"N



SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Legend

SPECIAL FLOOD HAZARD AREAS

Regulatory Floodway

With BFE or Depth Zone AE, AO, AH, VE, AR Without Base Flood Elevation (BFE)
Zone A, V, A99

Future Conditions 1% Annual

areas of less than one square mile zone depth less than one foot or with drainag of 1% annual chance flood with average 0.2% Annual Chance Flood Hazard, Area

Chance Flood Hazard Zone X Area with Reduced Flood Risk due to

OTHER AREAS OF

FLOOD HAZARD

Area with Flood Risk due to Levee Zone D Levee. See Notes. Zone X

NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs

OTHER AREAS

Area of Undetermined Flood Hazard Zoni

STRUCTURES | 1111111 Levee, Dike, or Floodwall Channel, Culvert, or Storm Sewer

GENERAL ---

Water Surface Elevation Coastal Transect Cross Sections with 1% Annual Chance

Limit of Study Base Flood Elevation Line (BFE)

Coastal Transect Baseline Profile Baseline Jurisdiction Boundary

Hydrographic Feature

FEATURES

OTHER





Unmapped No Digital Data Available

MAP PANELS

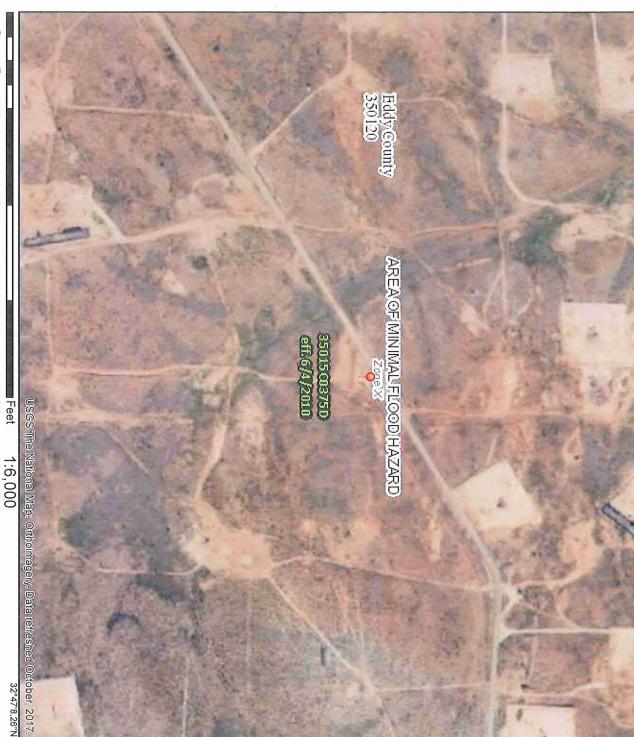


The pin displayed on the map is an approximate point selected by the user and does not represe an authoritative property location.

accuracy standards The basemap shown complies with FEMA's basemap digital flood maps if it is not void as described below. This map complies with FEMA's standards for the use of

authoritative NFHL web services provided by FEMA. This map was exported on 2/18/2019 at 10:48:15 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time. The flood hazard information is derived directly from the

Received by OCD: 5/15/2020 8:44664 AMenga unmapped and unmodernized areas cannot be used for FIRM panel number, and FIRM effective date. Map images for elements do not appear: basemap imagery, flood zone labels, This map image is void if the one or more of the following map



005 Page 23 of 78

1,000

1,500

2,000

APPENDIX V FINAL C-141

Received by OCD: 5/15/2020 8:46:55 AM

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 April 3, 2017 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

						OPERA'	ГOR		☐ Initial Report ☐ Final Report			
Name of Co	mpany: L	ime Rock Re	sources 1	II-A, L.P.		Contact: Mi	ke Barrett					
Address: 11	11 Bagby	St. Ste. 4600), Housto	n, TX 77002		Telephone 1	No. 575-365-972	24				_
Facility Nar	ne: All Tl	horn P/W Tra	ansfer Li	ne		Facility Typ	e:				-	
Surface Ow	ner: Key	Livestock, L	LC	Mineral C	wner: S	State			API No. 30-015-43951			
				LOCA	TIOI	OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/V	t/West Line County			
J	36	17S	27E	1650		S	1650		Е	Eddy		
]	Latitude 32.47	24 Lo	ongitude -1	04.1404 NAD8	33				
				NAT	URE	OF RELI						
		nd Produced 1					Release: 25 bbls			Recovered: 8		
Source of Re	lease: 12" P	W transfer lin	e				lour of Occurrenc	e		Hour of Disc	covery	
Was Immedia	te Notice (Given?				If YES, To	Unknown AM		0-28-18 () 12:15 PM		
Was minical	ito i volico c		Yes	No 🗌 Not Re	quired		her/NMOCD voi	cemail				
By Whom? D	avid Adkin	ıs				Date and H	lour: 6-28-18 @ :	3:15 pm				
Was a Watero	course Reac					If YES, Vo	lume Impacting t	he Wate	crcourse.			
			Yes 🗵			N/A						
If a Watercou	rse was Im	pacted, Descri	be Fully.*					-	W.			
N/A												
The 12" trans the time of the to stop the lea fluids and was	sfer line goi e release id k. Clean d s able to rec	le. Vandals st irt was brough	Il Thorn I ole the con it to berm f standing	Facility to the Havennections resulting the spill to prever water. Talon mole	g in a re it it fron	lease of the v	API above) had provater that was trap to run across Evan the location for the	oped in t	he line. Th A vac truck	ne line subse was also dis	quently	was capped
The spill mea measuring ap	sures appro proximately	ximately 25 fe	eet across by 30 feet	at its greatest wid long. Excavation			ximately 150 feet eted. A formal si					
regulations all public health should their o	operators or the envir perations had ment. In a	are required to onment. The ave failed to a ddition, NMO	report an acceptanc dequately CD accep	d/or file certain re e of a C-141 repo investigate and re	elease no rt by the emediate	tifications ar NMOCD ma contamination	knowledge and und perform correct arked as "Final Roon that pose a threet the operator of 1	tive acti eport" d eat to gr	ons for rele oes not reli ound water	eases which a eve the oper , surface wa	may en ator of ter, hur	danger liability nan health
	1 A	1	>			,	OIL CONS	SERV	ATION	DIVISIO	N	
Signature:	Mul	115	ce									
Printed Name	: Mike Ba	arrett			1	Approved by	Environmental Sp	pecialist	:			
Title: Produc	ction Superi	intendent				Approval Dat	e:	I	Expiration I	Date:		
E-mail Addres	ss: mbarre	tt@limerockre	esources.c	om		Conditions of				Attached		
Date: 10-17- Attach Addit		ets If Necessa		Phone: 575-365-9	724							

APPENDIX VI LABORATORY REPORTS

Received by OCD: 5/15/2020 8:46:55 AM



February 14, 2019

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: ALTHORN TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 07/09/18 11:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

Method EPA 552.2

Total Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B

Total Coliform and E. coli (Colilert MMO-MUG)

Method EPA 524.2

Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2

Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: ALTHORN TRANSFER LINE

Project Number: 701307.111.01 Project Manager: DAVID ADKINS

Fax To: (575) 745-8905

Reported: 14-Feb-19 08:55

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1 1'	H801852-01	Soil	03-Jul-18 10:57	09-Jul-18 11:35
S-1 2'	H801852-02	Soil	03-Jul-18 11:01	09-Jul-18 11:35
S-1 3'	H801852-03	Soil	03-Jul-18 11:05	09-Jul-18 11:35
S-1 4'	H801852-04	Soil	03-Jul-18 11:07	09-Jul-18 11:35
S-1 5'	H801852-05	Soil	03-Jul-18 11:14	09-Jul-18 11:35
S-1 6' REFUSAL	H801852-06	Soil	03-Jul-18 11:25	09-Jul-18 11:35
S-2 1'	H801852-07	Soil	03-Jul-18 11:48	09-Jul-18 11:35
S-2 2'	H801852-08	Soil	03-Jul-18 11:55	09-Jul-18 11:35
S-3 1'	H801852-10	Soil	03-Jul-18 12:13	09-Jul-18 11:35
S-3 2'	H801852-11	Soil	03-Jul-18 12:14	09-Jul-18 11:35
S-3 3'	H801852-12	Soil	03-Jul-18 12:15	09-Jul-18 11:35
S-3 4'	H801852-13	Soil	03-Jul-18 12:16	09-Jul-18 11:35
S-3 5'	H801852-14	Soil	03-Jul-18 12:19	09-Jul-18 11:35
S-3 6'	H801852-15	Soil	03-Jul-18 12:23	09-Jul-18 11:35
S-3 7'	H801852-16	Soil	03-Jul-18 12:25	09-Jul-18 11:35
S-3 8'	H801852-17	Soil	03-Jul-18 12:29	09-Jul-18 11:35
S-3 9'	H801852-18	Soil	03-Jul-18 12:35	09-Jul-18 11:35
S-3 10'	H801852-19	Soil	03-Jul-18 12:38	09-Jul-18 11:35
S-3 11'	H801852-20	Soil	03-Jul-18 12:43	09-Jul-18 11:35
S-3 12'	H801852-21	Soil	03-Jul-18 12:52	09-Jul-18 11:35
S-3 13'	H801852-22	Soil	03-Jul-18 12:58	09-Jul-18 11:35

Client removed sample -09 from report. This is the revised report that will replace the one sent on 07/11/18.

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence aring other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successing upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Kena



Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: ALTHORN TRANSFER LINE

Project Number: 701307.111.01 Project Manager: DAVID ADKINS

Fax To: (575) 745-8905

Reported:

14-Feb-19 08:55

S-1 1' H801852-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	27600		16.0	mg/kg	4	8070912	AC	09-Jul-18	4500-CI-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8070910	MS	10-Jul-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8070910	MS	10-Jul-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8070910	MS	10-Jul-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8070910	MS	10-Jul-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8070910	MS	10-Jul-18	8021B	
Surrogate: 4-Bromofluorobenzene (PII	0)		113 %	69.8	-142	8070910	MS	10-Jul-18	8021B	
Petroleum Hydrocarbons by	GC FID	-10101101								
GRO C6-C10*	<10.0		10.0	mg/kg	1	8070909	MS	10-Jul-18	8015B	
DRO >C10-C28*	185		10.0	mg/kg	1	8070909	MS	10-Jul-18	8015B	
EXT DRO > C28-C36	72.7		10.0	mg/kg	1	8070909	MS	10-Jul-18	8015B	
Surrogate: 1-Chlorooctane			102 %	41-	142	8070909	MS	10-Jul-18	8015B	
Surrogate: 1-Chlorooctadecane			105 %	37.6	-147	8070909	MS	10-Jul-18	8015B	

Cardinal Laboratories

*=Accredited Analyte

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Celey & Kuna



Reported:

14-Feb-19 08:55

Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: ALTHORN TRANSFER LINE

Project Number: 701307.111.01

Project Manager: DAVID ADKINS

Fax To: (575) 745-8905

S-1 2' H801852-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	24000		16.0	mg/kg	4	8070912	AC	09-Jul-18	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8071005	MS	10-Jul-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8071005	MS	10-Jul-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8071005	MS	10-Jul-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8071005	MS	10-Jul-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8071005	MS	10-Jul-18	8021B	
Surrogate: 4-Bromofluorohenzene (PID)			105 %	69.8	-142	8071005	MS	10-Jul-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	i	8071006	MS	10-Jul-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	i	8071006	MS	10-Jul-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8071006	MS	10-Jul-18	8015B	
Surrogate: 1-Chlorooctane			94.8 %	41	142	8071006	MS	10-Jul-18	8015B	
Surrogate: 1-Chlorooctadecane			84.4 %	37.6	-147	8071006	MS	10-Jul-18	8015B	

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14-Feb-19 08:55

Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: ALTHORN TRANSFER LINE

Project Number: 701307.111.01

Project Manager: DAVID ADKINS

Fax To: (575) 745-8905

S-1 3' H801852-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds			···							
Chloride	1720		16.0	mg/kg	4	8070912	AC	09-Jul-18	4500-CI-B	

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Celey & Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: ALTHORN TRANSFER LINE

Reported: 14-Feb-19 08:55

Project Number: 701307.111.01

Project Manager: DAVID ADKINS

Fax To: (575) 745-8905

S-1 4'

H801852-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
Cardinal Laboratories											
Inorganic Compounds											
Chloride	784		16.0	mg/kg	4	8070912	AC	09-Jul-18	4500-Cl-B		

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Celeg & Kenne



Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210

Project: ALTHORN TRANSFER LINE

Project Number: 701307.111.01

Project Manager: DAVID ADKINS Fax To: (575) 745-8905 Reported:

14-Feb-19 08:55

S-1 5'

H801852-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
Cardinal Laboratories											
Inorganic Compounds											
Chloride	304		16.0	mg/kg	4	8070912	AC	09-Jul-18	4500-Cl-B		

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210

Project: ALTHORN TRANSFER LINE

Reported: 14-Feb-19 08:55

Project Number: 701307.111.01

Project Manager: DAVID ADKINS

Fax To: (575) 745-8905

S-1 6' REFUSAL

H801852-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardir	nal Laborat	tories					
Inorganic Compounds										
Chloride	336		16.0	mg/kg	4	8070913	AC	09-Jul-18	4500-CI-B	

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Celeg & Kenne

Celey D. Keene, Lab Director/Quality Manager



Reported:

14-Feb-19 08:55

Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: ALTHORN TRANSFER LINE

Project Number: 701307.111.01

Project Manager: DAVID ADKINS

Fax To: (575) 745-8905

S-2 1' H801852-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	5600		16.0	mg/kg	4	8070913	AC	10-Jul-18	4500-C1-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8070910	MS	10-Jul-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8070910	MS	10-Jul-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8070910	MS	10-Jul-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8070910	MS	10-Jul-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8070910	MS	10-Jul-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		115 %	69.8-142		8070910	MS	10-Jul-18	8021B		
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8070909	MS	10-Jul-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8070909	MS	10-Jul-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8070909	MS	10-Jul-18	8015B	
Surrogate: 1-Chlorooctane			94.8 %	41-	142	8070909	MS	10-Jul-18	8015B	
Surrogate: 1-Chlorooctadecane			90.4 %	37.6	-147	8070909	MS	10-Jul-18	8015B	

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Celeg D. Kuna



Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: ALTHORN TRANSFER LINE

Project Number: 701307.111.01 Project Manager: DAVID ADKINS

Fax To: (575) 745-8905

Reported:

14-Feb-19 08:55

S-2 2'

H801852-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds									1.00 OLD	
Chloride	144		16.0	mg/kg	4	8070913	AC	10-Jul-18	4500-Cl-B	

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Celeg & Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: ALTHORN TRANSFER LINE

Project Number: 701307.111.01

Project Manager: DAVID ADKINS Fax To: (575) 745-8905 Reported: 14-Feb-19 08:55

S-3 1' H801852-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds									· · · · · · · · · · · · · · · · · · ·	
Chloride	8130		16.0	mg/kg	4	8070913	AC	10-Jul-18	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	<0.050	•	0.050	mg/kg	50	8070910	MS	10-Jul-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8070910	MS	10-Jul-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8070910	MS	10-Jul-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8070910	MS	10-Jul-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8070910	MS	10-Jul-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			112 %	69.8	-142	8070910	MS	10-Jul-18	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0	•	10.0	mg/kg	1	8070909	MS	10-Jul-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8070909	MS	10-Jul-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8070909	MS	10-Jul-18	8015B	
Surrogate: 1-Chlorooctane			94.5 %	41-	142	8070909	MS	10-Jul-18	8015B	
Surrogate: 1-Chlorooctadecane			90.3 %	37.6	-147	8070909	MS	10-Jul-18	8015B	

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Celey & Kuna



Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210

Project: ALTHORN TRANSFER LINE

Project Number: 701307.111.01 Project Manager: DAVID ADKINS

Fax To: (575) 745-8905

Reported: 14-Feb-19 08:55

S-3 2'

H801852-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	4040		16.0	mg/kg	4	8070913	AC	10-Jul-18	4500-CI-B	

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Celeg & Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210

Project: ALTHORN TRANSFER LINE

Reported:

Project Number: 701307.111.01

Project Manager: DAVID ADKINS

14-Feb-19 08:55

Fax To: (575) 745-8905

S-3 3'

H801852-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	1720		16.0	mg/kg	4	8070913	AC	10-Jul-18	4500-Cl-B	

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Analytical Results For:

TALON LPE

408 W, TEXAS AVE. ARTESIA NM, 88210

Project: ALTHORN TRANSFER LINE

Project Number: 701307.111.01

Project Manager: DAVID ADKINS Fax To: (575) 745-8905 Reported:

14-Feb-19 08:55

S-3 4'

H801852-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds							2.11.2			
Chloride	2120		16.0	mg/kg	4	8070913	AC	10-Jul-18	4500-Cl-B	

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Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210

Project: ALTHORN TRANSFER LINE

Reported: 14-Feb-19 08:55

Project Number: 701307.111.01

Project Manager: DAVID ADKINS

Fax To: (575) 745-8905

S-3 5'

H801852-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	704		16.0	mg/kg	4	8070913	AC	10-Jul-18	4500-CI-B	

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Reported:

14-Feb-19 08:55

Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210

Project: ALTHORN TRANSFER LINE

Project Number: 701307.111.01 Project Manager: DAVID ADKINS

Fax To: (575) 745-8905

S-3 6'

H801852-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds				ot plant						
Chloride	32.0		16.0	mg/kg	4	8070913	AC	10-Jul-18	4500-Cl-B	

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Celeg D. Kenne

Celey D. Keene, Lab Director/Quality Manager



Reported:

Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210

Project: ALTHORN TRANSFER LINE

Project Number: 701307.111.01

Project Manager: DAVID ADKINS Fax To: (575) 745-8905

14-Feb-19 08:55

S-3 7'

H801852-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds					w					
Chloride	32.0		16.0	mg/kg	4	8070913	AC	10-Jul-18	4500-CI-B	

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Celes Thema



Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210

Project: ALTHORN TRANSFER LINE

Project Number: 701307.111.01

Project Manager: DAVID ADKINS

Fax To: (575) 745-8905

Reported:

14-Feb-19 08:55

S-3 8'

H801852-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds							•			
Chloride	96.0		16.0	mg/kg	4	8070913	AC	10-Jul-18	4500-CI-B	

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Celeg & Kena

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210

Project: ALTHORN TRANSFER LINE

Project Number: 701307.111.01

Project Manager: DAVID ADKINS Fax To: (575) 745-8905 Reported:

14-Feb-19 08:55

S-3 9'

H801852-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	8070913	AC	10-Jul-18	4500-CI-B	

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Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210

Project: ALTHORN TRANSFER LINE

Project Number: 701307.111.01 Project Manager: DAVID ADKINS

Fax To: (575) 745-8905

Reported:

14-Feb-19 08:55

S-3 10'

H801852-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	8070913	AC	10-Jul-18	4500-CI-B	

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210

Project: ALTHORN TRANSFER LINE

Project Number: 701307.111.01

Project Manager: DAVID ADKINS

Fax To: (575) 745-8905

Reported: 14-Feb-19 08:55

S-3 11'

H801852-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds								····		
Chloride	144		16.0	mg/kg	4	8070913	AC	10-Jul-18	4500-Cl-B	

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Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: ALTHORN TRANSFER LINE

Project Number: 701307.111.01 Project Manager: DAVID ADKINS

Fax To: (575) 745-8905

Reported: 14-Feb-19 08:55

S-3 12'

H801852-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Labora	tories					
Inorganic Compounds			******							
Chloride	48.0		16.0	mg/kg	4	8070913	AC	10-Jul-18	4500-Cl-B	

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aleg & Kenne

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: ALTHORN TRANSFER LINE

Project Number: 701307.111.01

Project Manager: DAVID ADKINS Fax To: (575) 745-8905 Reported:

14-Feb-19 08:55

S-3 13'

H801852-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
Cardinal Laboratories											
Inorganic Compounds											
Chloride	32.0		16.0	mg/kg	4	8070913	AC	10-Jul-18	4500-Cl-B		

Cardinal Laboratories

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: ALTHORN TRANSFER LINE

Project Number: 701307.111.01 Project Manager: DAVID ADKINS

Fax To: (575) 745-8905

Reported: 14-Feb-19 08:55

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8070912 - 1:4 DI Water										
Blank (8070912-BLK1)				Prepared &	: Analyzed:	09-Jul-18				
Chloride	ND	16.0	mg/kg							
LCS (8070912-BS1)				Prepared &	: Analyzed:	09-Jul-18				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (8070912-BSD1)				Prepared &	: Analyzed:	09-Jul-18				
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
Batch 8070913 - 1:4 DI Water			,							
Blank (8070913-BLK1)				Prepared &	: Analyzed:	09-Jul-18				
Chloride	ИD	16.0	mg/kg							
LCS (8070913-BS1)				Prepared &	Analyzed:	09-Jul-18				
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (8070913-BSD1)				Prepared &	: Analyzed:	09-Jul-18				
Chloride	416	16.0	mg/kg	400		104	80-120	3.77	20	

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Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: ALTHORN TRANSFER LINE

Project Number: 701307.111.01

Project Manager: DAVID ADKINS

Fax To: (575) 745-8905

Reported: 14-Feb-19 08:55

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 8070910 - Volatiles										
Blank (8070910-BLK1)				Prepared &	Analyzed:	09-Jul-18				
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.111		mg/kg	0.100		111	69.8-142			
LCS (8070910-BS1)				Prepared &	z Analyzed:	09-Jul-18				
Benzene	2.04	0.050	mg/kg	2.00		102	74.5-124			
Toluene	2.02	0.050	mg/kg	2.00		101	78.8-122			
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.4	78.6-122			
Total Xylenes	6.15	0.150	mg/kg	6.00		102	79.7-123			
Surrogate: 4-Bromofluorobenzene (PID)	0.109		mg/kg	0.100		109	69.8-142			
LCS Dup (8070910-BSD1)				Prepared &	k Analyzed:	09-Jul-18				
Benzene	1.99	0.050	mg/kg	2.00		99.6	74.5-124	2.42	15.2	
Toluene	1.97	0.050	mg/kg	2.00		98.4	78.8-122	2.40	15.1	
Ethylbenzene	1.94	0.050	mg/kg	2.00		97.1	78.6-122	2.31	15.4	
Total Xylenes	6.01	0.150	mg/kg	6.00		100	79.7-123	2.33	15.2	
Surrogate: 4-Bromofluorobenzene (PID)	0.108		mg/kg	0.100		108	69.8-142			
Batch 8071005 - Volatiles										
Blank (8071005-BLK1)				Prepared &	k Analyzed:	: 10-Jul-18				
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.106		mg/kg	0.100		106	69.8-142			***

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Celeg & Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: ALTHORN TRANSFER LINE

Project Number: 701307.111.01 Project Manager: DAVID ADKINS

Fax To: (575) 745-8905

Reported:

14-Feb-19 08:55

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8071005 - Volatiles										
LCS (8071005-BS1)				Prepared &	z Analyzed:	10-Jul-18				
Benzene	1.84	0.050	mg/kg	2.00		92.0	74.5-124			
Toluene	1.82	0.050	mg/kg	2.00		90.9	78.8-122			
Ethylbenzene	1.80	0.050	mg/kg	2.00		90.1	78.6-122			
Total Xylenes	5.55	0.150	mg/kg	6.00		92.4	79.7-123			
Surrogate: 4-Bromofluorobenzene (PID)	0.104		mg/kg	0.100		104	69.8-142			
LCS Dup (8071005-BSD1)				Prepared &	ż Analyzed:	10-Jul-18				
Benzene	1.84	0.050	mg/kg	2.00		91.9	74.5-124	0.0378	15.2	
Toluene	1.81	0.050	mg/kg	2.00		90.6	78.8-122	0.254	15,1	
Ethylbenzene	1.78	0.050	mg/kg	2.00		88.9	78.6-122	1.37	15.4	
Total Xylenes	5.47	0.150	mg/kg	6.00		91.1	79.7-123	1.46	15.2	
Surrogate: 4-Bromofluorobenzene (PID)	0.106		mg/kg	0.100		106	69.8-142			

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Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: ALTHORN TRANSFER LINE

Project Number: 701307.111.01 Project Manager: DAVID ADKINS

Fax To: (575) 745-8905

Reported: 14-Feb-19 08:55

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	resure	Linin	Cinta		-	701020				
Batch 8070909 - General Prep - Organics										
Blank (8070909-BLK1)				Prepared: (9-Jul-18 A	nalyzed: 10	-Jul-18			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	54.1		mg/kg	50.0		108	41-142			
Surrogate: 1-Chlorooctadecane	49.5	•	mg/kg	50.0		98.9	37.6-147			
LCS (8070909-BS1)				Prepared &	Analyzed:	09-Jul-18				
GRO C6-C10	222	10.0	mg/kg	200		111	76.5-133			
DRO >C10-C28	226	10.0	mg/kg	200		113	72.9-138			
Total TPH C6-C28	448	10.0	mg/kg	400		112	78-132			
Surrogate: 1-Chlorooctane	<i>58.5</i>		mg/kg	50.0		117	41-142			
Surrogate: 1-Chlorooctadecane	55.4		mg/kg	50.0		111	37.6-147			
LCS Dup (8070909-BSD1)				Prepared &	z Analyzed:	09-Jul-18				
GRO C6-C10	218	10.0	mg/kg	200		109	76.5-133	1.96	20.6	
DRO >C10-C28	221	10.0	mg/kg	200		111	72.9-138	2.03	20.6	
Total TPH C6-C28	439	10.0	mg/kg	400		110	78-132	2.00	18	
Surrogate: 1-Chlorooctane	57.1		mg/kg	50.0		114	41-142			
Surrogate: 1-Chlorooctadecane	55,8		mg/kg	50.0		112	37.6-147			
Batch 8071006 - General Prep - Organics										
Blank (8071006-BLK1)				Prepared &	k Analyzed:	10-Jul-18				
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	54.4		mg/kg	50.0		109	41-142			
Surrogate: 1-Chlorooctadecane	48.3		mg/kg	50.0		96.7	37.6-147			

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Celey & Keene

Celey D. Keene, Lab Director/Quality Manager



Reported:

14-Feb-19 08:55

Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: ALTHORN TRANSFER LINE

Project Number: 701307.111.01

Project Manager: DAVID ADKINS

Fax To: (575) 745-8905

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 8071006 - General Prep - Organics										
LCS (8071006-BS1)				Prepared &	Analyzed:	10-Jul-18				
GRO C6-C10	216	10.0	mg/kg	200		108	76.5-133			
DRO >C10-C28	218	10.0	mg/kg	200		109	72.9-138			
Total TPH C6-C28	434	10.0	mg/kg	400		109	78-132			
Surrogate: 1-Chlorooctane	56.3		mg/kg	50.0		113	41-142			
Surrogate: 1-Chlorooctadecane	51.5		mg/kg	50.0		103	37.6-147			
LCS Dup (8071006-BSD1)				Prepared &	Analyzed:	10-Jul-18				
GRO C6-C10	212	10.0	mg/kg	200		106	76.5-133	1.86	20,6	
DRO >C10-C28	211	10.0	mg/kg	200		106	72.9-138	3.14	20.6	
Total TPH C6-C28	423	10.0	mg/kg	400		106	78-132	2.50	18	
Surrogate: 1-Chlorooctane	55.7		mg/kg	50.0		111	41-142			
Surrogate: 1-Chlorooctadecane	51.4		mg/kg	50.0		103	37.6-147			

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Celey D. Keena





Notes and Definitions

Analyte NOT DETECTED at or above the reporting limit ND

Relative Percent Difference **RPD**

Samples not received at proper temperature of $6\ensuremath{^{\circ}\text{C}}$ or below.

Insufficient time to reach temperature.

Chloride by SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg & Kenne



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

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		PRESERV. SAMPLING	•	FOR LAB USE ONLY
	~(Fax #:	lame: Billy Stites	Sampler Name:
		Phone #:	ocation: Eddy Eswity, ism	Project Location:
	UV	State: Zip:	ime: Althorn Trasfer Live	Project Name:
		City:	Project #: 701307.111.01 Project Owner: Ling 1200 L	Project #: 7
		Address:	575 746.8768 Fax#	Phone #: <
	 م	Attn: DAU'D ANEWS	As tes 10 State: NW Zip: 98210	City:
		Company: Talon LPE	708 3. Thxas 439	Address:
		P.O. #: 701 307. 111.01	Project Manager: David Adkins	Project Mana
ANALYSIS REQUEST		BILL TO	Name: Line Kak - THON LAG	Company Name:

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

Page 56 of 73



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

Tompany Name: 7/80 KOM I LECAL TOO	Z.		ANALYSIS REQUEST
<u>ب</u> ر		P.O.# 79307.111-01	
Address: 408 W T-X/5		Company: Tslon LPE	
City: Artesut State: NA ;	Zip:	Aftn:	2.5
Phone #: Fax #:		Address:	de
Project #: "701307, 111.0 Project Owner:	Project Owner: Line Rock	City:	
Project Name: Althorn gransfry Line		State: Zip:	do
Project Location: Eddy Ce.		Phone #:	
Sampler Name: Rilly Stites		Fax #:	? (
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	2X (a l
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL. OTHER: DATE	BTO TP.t
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19 5-3 10.		12:38	

Relinquished By:

Date: 9-18
Time: 35

Received By:

Phone Result:
Fax Result:
REMARKS:

☐ Yes ☐ No Add'I Phone #:

6-2018 De 3

Time:

PLEASE NOTE: Liability and Damages. Cardinals liability and clients exclusive remedy for any falaim arising whether based in contract or text, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed walved 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 concequental damages, including without limitation, business interruptions, loss of use, or loss of parties incurred by client, its outsidistics,

Page 57 of 73

Delivered By: (Circle One)

ALC

Sample Condition CHECKED BY:
Cool Intact
(Initials)

Sampler - UPS - Bus - Other:

Sampler - UPS - Bus - Other:

Other:

Other ALC

Sample Condition CHECKED BY:
Cool Intact
(Initials)

No I No I No I No I TO. #TO

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



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

Company Name: Life Rock CARDIO / CD H	ľΉ	BILL TO	•	ANALYSIS REQUEST	
, .		P.O.# 70[307.111.01	10.01		
Address: 400 w. Texas		Company: Telon	LRE	 2.464	
City: Ategia State: NW Zip:		Attn:			
Phone #: Fax #:		Address:			
Project #: 701307-111.01 Project Owner: Live Rick	LiveRick	City:		•	
Project Name: Althur Transfir Line		State: Zip:			
8		Phone #:			
Sampler Name: Billy Stites		Fax#:			
FOR LAB USE ONLY	MATRIX	PRESERV. SAN	SAMPLING		
H80/852 (G)RAB OR (C)OME	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DA	TIME		
20 5-3 11'	\	73	7-3-18 12:43		
21 5-3 12'	\		£2:57		
- 5-3	\	1	17:58		

PLEASE NOTE: Liability and Damages. Cardena's liability and client's exclusive remedy for any dalin arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whotsoever shall be detended where units made in writing and received by Cardinal which 30 days after compision of the applicable service. In or event shall Cardinal be liable for incliental or consequential dramages, including which the intervalons, business interruptions, loss of use, or loss of profits incurred by Cardinal, its substitutes, artificien or successor shellow out of related to the performance of services hereunder by Cardinal, restandants of whether such claim is based upon any of the above stated reasons or otherwise.

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CALCULATION AND A COLUMN AND A	Time:	
Delivered By: (Circle One)	Sample Condition CHECKED BY: Cool Intact (Initials)	
Sampler - UPS - Bus - Other:	:83 — :L:	

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

Page 58 of 73



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

July 19, 2018

Chris Jones
Talon Artesia
408 West Texas Ave
Artesia, NM 88210
TEL:
FAX

RE: All Thorne Transfer Line

OrderNo.: 1807707

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 7 sample(s) on 7/13/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1807707

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

All Thorre Transfer Line

Project: Lab ID:

1807707-001

Matrix: SOIL

Client Sample ID: S-4 1'

Collection Date: 7/11/2018 11:50:00 AM Received Date: 7/13/2018 8:50:00 AM

Analyses	Result	PQL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: CJS
Chloride	49	30	mg/Kg	20	7/17/2018

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 0 J

- P Sample pH Not In Range
- RLReporting Detection Limit
 - Sample container temperature is out of limit as specified

Lab Order 1807707

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-5 1' Refusal

Project:

Collection Date: 7/11/2018 12:15:00 PM

Lab ID:

All Thorre Transfer Line

1807707-002 Matrix: SOIL Received Date: 7/13/2018 8:50:00 AM

Analyses	Result	PQL Qual	Units		Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: CJS
Chloride	370	30	mg/Kg	20	7/17/2018

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 0 J
- Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1807707

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

Client Sample ID: S-6 1' Refusal **CLIENT:** Talon Artesia

Project: All Thorre Transfer Line Collection Date: 7/11/2018 12:20:00 PM Received Date: 7/13/2018 8:50:00 AM Lab ID: 1807707-003 Matrix: SOIL

Analyses Result PQL Qual Units DF **Date Analyzed** Analyst: CJS **EPA METHOD 300.0: ANIONS** 75 7/17/2018 Chloride 1800 mg/Kg 50

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range

Analyte detected below quantitation limits Page 3 of 0

- P Sample pH Not In Range
- RLReporting Detection Limit
 - Sample container temperature is out of limit as specified

Lab Order 1807707

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

All Thorre Transfer Line

Lab ID: 1807707-004

Project:

Client Sample ID: S-7 1'

Collection Date: 7/11/2018 12:30:00 PM

Received Date: 7/13/2018 8:50:00 AM

Analyses	Result	PQL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: CJS
Chloride	ND	30	mg/Kg	20	7/17/2018

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 0 J
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1807707

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

All Thorre Transfer Line

Project: Lab ID:

1807707-005

Client Sample ID: S-8 1'

Collection Date: 7/11/2018 12:35:00 PM

Received Date: 7/13/2018 8:50:00 AM

Analyses	Result	PQL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: CJS
Chloride	ND	30	mg/Kg	20	7/17/2018

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 5 of 0 J
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Lab Order 1807707

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

All Thorre Transfer Line

Lab ID:

Project:

1807707-006

Matrix: SOIL

Client Sample ID: S-8 2' Refusal

Collection Date: 7/11/2018 12:40:00 PM

Received Date: 7/13/2018 8:50:00 AM

Analyses	Result	PQL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: CJS
Chloride	ND	30	mg/Kg	20	7/17/2018

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 6 of 0 J

- P Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1807707

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

All Thorre Transfer Line

Project: Lab ID:

1807707-007

Matrix: SOIL

Client Sample ID: S-9 1' Refusal

Collection Date: 7/11/2018 12:45:00 PM Received Date: 7/13/2018 8:50:00 AM

Analyses	Result	PQL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: CJS
Chloride	ND	30	mg/Kg	20	7/17/2018

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 7 of 0 J

- P Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1807707

19-Jul-18

Client:

Talon Artesia

Project:

All Thorne Transfer Line

Sample ID MB-39246

SampType: mblk

TestCode: EPA Method 300.0: Anions

LowLimit

Client ID: **PBS**

Batch ID: 39246

RunNo: 52750

Prep Date:

7/17/2018

SeqNo: 1733779

Analyte

Analysis Date: 7/17/2018 **PQL**

%REC

Units: mg/Kg

HighLimit

Qual

Chloride

ND 1.5

Sample ID LCS-39246

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 39246

RunNo: 52750

Prep Date: 7/17/2018

Analysis Date: 7/17/2018

SegNo: 1733780

Units: mg/Kg

RPDLimit

Analyte

Result

PQL SPK value SPK Ref Val

%REC

Result

15.00

93.5

Qual

Chloride

90

110

Page 3 of 3

1.5

SPK value SPK Ref Val

%RPD

%RPD

RPDLimit

14

LowLimit

HighLimit

Qualifiers:

D Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Sample pH Not In Range

RLReporting Detection Limit

P

Sample container temperature is out of limit as specified

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

PQL Practical Quanitative Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: TALON ARTESIA	Work Order Num	ber: 1807707		. RcptNo:	1
Received By: Isaiah Ortiz	7/13/2018 8:50:00	ΑM	ICA	Mana ·	
Completed By: Anne Thorne	7/13/2018 10:33:20	AM	I On In	_	
Reviewed By: = TO Labeled by! JAB 07/1	7/13/18 3/18				
Chain of Custody	•••				
1. Is Chain of Custody complete?		Yes 🗸	No 🗔	Not Present	
2. How was the sample delivered?		Client			
<u>Log In</u>				•	
Was an attempt made to cool the sample	s?	Yes 🗹	No 🗆	NA 🗌	
4. Were all samples received at a temperature	ure of >0° C to 6.0°C	Yes 🗹	No 🗌	na 🗆	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated tes	t(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) prop	erly preserved?	Yes 🔽	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA \square	
9. VOA vials have zero headspace?		Yes 🗌	No 🗆	No VOA Vials	
10. Were any sample containers received bro	oken?	Yes	No 🗹	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗆	bottles checked for pH:	12 unless hoted)
2. Are matrices correctly identified on Chain	of Custody?	Yes 🔽	No 🗆	Adjusted?	12 unless (hoted)
[3] Is it clear what analyses were requested?		Yes 🗹	No 🗌	() () () () () () () () () ()	C_F
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗆	Checked by:	
Special Handling (if applicable)					
15. Was client notified of all discrepancies with	th this order?	Yes	No 🗆	na 🗹	
Person Notified:	Date				
By Whom:	Via:	eMail P	hone 🔲 Fax	☐ In Person	•
Regarding:					
Client Instructions:					
16. Additional remarks:					
	Seal Intact Seal No	Seal Date	Signed By	•	
1 1.3 Good \	es				

	HALL ENVIRONMENTAL ANALYSIS LABODATODY	www.hallenvironmental.com	NE - Albuqueraue, NM 87109		Analysis		DS' [†]	,OG,	300,8	sls NO: Jes '	PAH's (8310 RCRA 8 Met Anions (F,Cl, 8081 Pesticic 8260B (VOA 8270 (Semi-Y							>					data will be clearly notated on the analytical report.
		VWW.	4901 Hawkins NE	Tel. 505-345-3975		(/ JL	io si	6Đ)	H q T IQ \ O (1.8	9 41 (GE 3E +	BTEX + MTE BTEX + MTE PH 8015B 1 TPH (Methoo										Remarks:		ossibility. Any sub-contracted
Turn-Around Time:	□ Standard Rush	Project Name:	All Theire Transfer Live		701357-111.01	Project Manager:	1	Chois Jorgs	Sampler: Chris Janes	Sample Temberature 2.3 - 16/46/71 S.F.	Container Preservative HEAL No. Type and # Type	1-648 ICE 70	-202	592	132	92	702	V V			Kecewer by: Date Time	Received that Date of Time	cted to other accredited laboratories. This serves as notice of this p
of-Custody Record	Client: 75/0, LPE		Mailing Address: 48 U. Texes	97%	8762		QA/QC Package:	☐ Standard ☐ Level 4 (Full Validation)	Accreditation S.		Matrix Sample Request ID	7-1HB 11:50 5x1 St 11	12:15 Sul 5-5 1' Retsul	12:20 Soil 5-6 1' Refuse!	12:30 Sol 5-7 1'	12:35 Sar 5-8 1'	12:40 Sul 5-8 3' Resel	K 12:45 Soil 5-9 1' Refise!			 They or of the control of the contro	Time: Relinguished by.	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

July 31, 2018

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: ALL THORNE

Enclosed are the results of analyses for samples received by the laboratory on 07/30/18 15:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.qov/field/qa/lab accredited certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received:

07/30/2018

Reported:

07/31/2018 **ALL THORNE**

Project Name: Project Number:

701307.111.01

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

Soil Cool & Intact

Jodi Henson

07/25/2018

Project Location:

EDDY CO

Sample ID: S- 10 0' (H802068-01)

Chloride, SM4500CI-B

Chloride

Chloride

mg/kg

Analyzed By: AC

Analyte

Analyte

Result

16.0

Result

Reporting Limit

16.0

Analyzed 07/31/2018 Method Blank ND

BS 400 % Recovery 100

True Value QC 400

True Value QC

400

RPD

Sample ID: S- 10 1' (H802068-02)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Reporting Limit Analyzed

Method Blank ND

BS 400 % Recovery

100

RPD

Qualifier

Qualifier

64.0

16.0 07/31/2018

7.69

7.69

Cardinal Laboratories

*=Accredited Analyte

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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

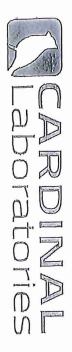
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey & Keine



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

Company Name: Talon/I DE	ANALYSIS REQUEST
·	P.O.#: 701307.111:01
Address: 408 W. Texas Ave.	company: Taion/LPE
	Attn: Chris Jones
-746-8768 F	Address:
Project ※ 70 (307, 111, 0) Project Owner:	City?
Project Name: All Thora	State: Zip:
	Phone 崇
Sampler Name: Christors	<u> </u>
	PRESERV. SAMPLING
R (C)OMP.	
Sample I.D.	OTHER: OCID/BASE CE/COOL OTHER: DATE
5-10 0'	7-25 0800 2
	7-25 0805
PLEASE NOTE: Linking and Jaminagen-Carding's liability and client's exclusive remady for any claim raiding whether besset in contract or tor, shall be limited to the amount paid by the client for the applicable remady for any claim raiding whether besset in contract or tor, shall be limited to the amount paid by the client for the applicable raiding and received by Condinal within 33 days after completion of the applicable.	and or long, shall be limited to the acrount paid by the client for the and received by Cardinal within 33 days after competion of the upplicable
service. In no event spall dearing be liable of incidental or consequental demagne, incident without limitation, business the incidence of the new orders between the confidence of whether such elair aminotes of the confidence of	T WAS
Relinquisped By: Date: Pareside Received By:	Phone Result: U Yes U No Addit Frome # Fax Result: U Yes U No Addit Fax # REMARKS:
Relinquished By: Date: Date: Respectived By: Respectived By: Respective By: Re	enson Rush !!
\dashv	(finitials)
Sampler - UPS - Bes - Other: 5.00 5.79 No No No	No.

Page 73 of 73

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