



February 23, 2011

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

AUSTIN
911 West Anderson Lane
Suite 202
Austin, Texas 78757
Phone 512.989.3428
Fax 512.989.3487

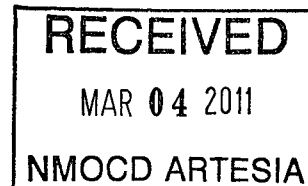
HOBBS
318 East Taylor Street
Hobbs, New Mexico 88240
Phone 575.393.4261
Fax 575.393.4658

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

SAN ANTONIO
17170 Jordan Rd
Suite 102
Selma, Texas 78154
Phone 210.265.8025
Fax 210.568.2191

TULSA
525 South Main Street
Suite 535
Tulsa, Oklahoma 74103
Phone 918.742.0871
Fax 918.382.0232

Mr. Mike Bratcher
NMOCD District 2
1301 West Grand Avenue
Artesia, NM 88210



Subject: Soil Assessment and Remediation Work Plan
Legacy Reserves Operating, LP
South Red Lake Unit No.1 release

Dear Mr. Bratcher,

Legacy Reserves Operating, LP has contracted Talon/LPE (Talon) to perform soil assessment and remediation services for the referenced West Red Lake Unit No. 1 release. Talon's proposed work plan to perform soil assessment and remediation activities consists of the following:

Incident Date

February 8, 2011

Background Information

The South Red Lake Unit No. 1 is located approximately eleven (11) miles southeast of Artesia, New Mexico. The legal location for the site is Section 36, Township 17 South and Range 27 East in Eddy County, New Mexico. More Specifically the latitude and longitude for the release are 32.796005 North and -104.23543 West.

This site lies on undulating plains and low hills consisting of wind worked sandy deposits. Drainage courses in this area are normally dry. The local surface and shallow geology includes silty soils underlain by sand stone and caliche layers, providing an impermeable barrier to the migration of fluids in the area of the release. The New Mexico State Engineer's web site indicates the nearest ground water data to be in S10-T18S-R27E. The ground water in Section 10 is reported to be at an average depth of 50' below ground surface (bgs).

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

Depth to ground water	50'-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

On February 8, 2011 the flow line located west of the South Red Lake Unit No. 1 location ruptured. The flow line was subsequently taken out of service and repaired. Twenty-five (25) barrels of produced water and hydrocarbons were released. Two (2) barrels of mixed fluids were recovered. The impacted area is located on a hillside approximately two hundred seventy feet (270') due north of the South Red Lake Unit No. 1 location. The flow path on the hillside is estimated to be four hundred seventy (470) feet long by six (6) feet wide. The release terminated on the No Bluff 36 State Com. No. 9, a producing well location which is operated by Lime Rock Resources, LLC. The pooling area on the location was estimated to be approximately forty feet (40') by forty long by forty feet (40') wide.

Sampling Activities

On February 9, 2011 Talon personnel mobilized to the site to begin site assessment and soil sampling for the construction of a work plan. Grab soil samples were collected utilizing a hand auger. The soil samples labeled S-1 were collected from a worst-case location within the flow path. The soil samples labeled S-2 were collected from the pooling area on the No Bluff 36 State Com. No. 9 location.

Soils samples were collected by Talon personnel wearing clean nitrile gloves. The samples were placed in laboratory provided glassware, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for volatile organics pursuant to EPA Method 8021B; Total Petroleum Hydrocarbons (TPH) per EPA Method 8015M; and Total Chlorides via Method SM4500Cl-B. The complete laboratory report dated 2/11/11 is attached hereto in Appendix II; and the resulting data is summarized below.

<u>Sample</u>	<u>Depth (ft)</u>	<u>Total BTEX</u>	<u>TPH</u>	<u>Chlorides (mg/kg)</u>
S-1	0-ft	3.038	5,679	10,800 mg/kg
S-1	0.5'	ND*	74.4	4,400
S-2	0'	58.47	36,010	5,360
S-2	0.25'**	0.562	217.2	544

*ND Not Detected within laboratory method detection limits

** Refusal encountered with hand auger

On February 14, 2011 Talon personnel returned to the site with a breaker bar and post hole implement to collect additional soil samples from sample location S-1. Additionally, composite soil sample (S-3) was collected upgradient from the release to determine current background conditions. An abandoned tank battery and a closed production pit were observed directly up gradient of the release, as well as areas of chloride stained soils at land surface. The laboratory report dated 2/18/10 is also attached in Appendix II and summarized below.

<u>Sample</u>	<u>Depth (ft)</u>	<u>Total BTEX</u>	<u>TPH</u>	<u>Chlorides (mg/kg)</u>
S-1	1-ft	ND	284	1,170 mg/kg
S-1	1.25'*	ND	309	896
Upgradient	0'	ND	471	5,600

*Refusal encountered

For this site's ranking, New Mexico Oil Conservation District action level criteria for BTEX are 50 mg/kg, Benzene is 10 mg/kg and TPH is 1,000 mg/kg. The chloride remediation standard is considered to be 1,000 mg/kg.

Summary and Conclusions

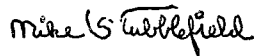
- Ground water in the project vicinity is 50-feet below land surface per the New Mexico State Engineer Database.
- A dense, hard rock barrier was encountered at 1.0' below land surface.
- Based upon the results of the laboratory data obtained for this investigation, the vertical impacts (above remedial action levels) from this release appear to be confined to 1.25-feet below land surface within the flow path and 0.25-feet deep on the adjacent well location.
- Upgradient sampling and testing have indicated that background levels of petroleum hydrocarbons and chlorides are present in the area.
- Based on the depth to groundwater, the shallow confining layer encountered and the contamination levels detected in the soil; it is unlikely that the impacts identified from this release will pose a threat to groundwater.

Proposed Remedial Actions

- The impacted soil will be excavated and transported to an NMOCD approved solid waste disposal facility for disposal. The affected soil within the flow path of the release will be removed to a depth of 1.25-feet deep. The impacted soil on the adjacent well location will be scraped to a depth of 0.25-feet and the location repaired.
- The excavated area will be backfilled back to grade using new material transported from a local borrow pit. The backfill material will be contoured to match the surrounding terrain and the area will be seeded with an approved seed mixture.
- A closure report detailing all site activities, analytical data and a final C-141 Form will be provided to the NMOCD.

Should you have any questions or if further information is required, please do not hesitate to contact us at 575.746.8768.

Respectfully submitted,



Mike Stubblefield
Project Manager



David J. Adkins
District Manager

APPENDIX I
GROUNDWATER DATA
INITIAL C-141 FORM



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Sub basin	Use	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
RA 04561	PRO	ED		4	2	26	17S	27E		570871	3630142*	2424	250		
RA 03917	PRO	LE		4	1	2	10	18S	27E	569019	3625660*	3370	130	50	80
RA 01493	IRR	ED		2	1	27	17S	27E		568468	3630529*	4134	876		
RA 04554	PRO	ED			1	23	17S	27E		569859	3631947*	4470	220	40	180
RA 04048	OBS	LE		1	4	4	14	18S	27E	570841	3623030*	4858	2096		
L 01370 REPAR-1	DOM	LE		2	4	15	18S	27E		569328	3623355*	5017	96	58	38
RA 03714	PRO	CH		4	4	2	08	18S	27E	566212	3625253*	5971	381		
RA 03661	PRO	ED		3	2	3	32	17S	27E	565186	3628038*	6416	330	140	190
RA 03664	DOM	CH		3	2	3	32	17S	27E	565186	3628038*	6416	400	100	300
RA 01716 S	COM	ED		4	4	3	16	17S	27E	566953	3632420*	6531	1200		
RA 04114	DOM	LE		4	4	3	16	17S	27E	566953	3632420*	6531	1042	260	782
RA 04153	DOM	CH		4	4	3	16	17S	27E	566953	3632420*	6531	1220	175	1045
RA 07844 EXPL	EXP	ED		4	3	16	17S	27E		566854	3632521*	6673	1300	180	1120
RA 07844	EXP	ED		3	4	3	16	17S	27E	566753	3632420*	6675	1300	180	1120
RA 06560	DOM	CH		2	1	2	20	17S	27E	565757	3632217*	7306	133	80	53
L 07643	DOM	LE		4	4	2	34	17S	28E	578979	3628574*	7417	120	53	67
RA 03694	DOM	ED			4	17	17S	27E		565854	3632721*	7545	300	90	210
RA 03816	DOM	CH			4	17	17S	27E		565854	3632721*	7545	945	931	14
RA 07774	STK	ED		3	2	1	11	17S	27E	569933	3635251*	7606	100	50	50
RA 06531	DOM	ED		4	1	4	17	17S	27E	565747	3632821*	7691	200		
RA 04320	DOM	ED			3	17	17S	27E		565053	3632719*	8170	120	50	70
RA 08823	DOM	ED		1	1	3	17	17S	27E	564745	3633019*	8597	348	60	288
RA 04211	PRO	CH		3	1	28	18S	27E		566512	3620562*	8870	120	100	20
RA 05989	PRO	ED		3	2	4	01	18S	26E	562774	3626466*	8929	72	8	64
RA 04298	OBS	ED		1	2	19	18S	27E		564082	3622523*	9201	92		
RA 04786	DOM	ED		4	3	2	18	17S	27E	564133	3633277*	9242	138	111	27
RA 06635	DOM	ED		2	2	2	18	17S	27E	564531	3633852*	9286	325	60	265
RA 02966	DOM	ED		4	4	4	05	17S	27E	566117	3635707*	9597	80	30	50
RA 06091	PRO	ED		1	2	3	29	18S	27E	565211	3620222*	9933	90	17	73

*UTM location was derived from PLSS - see Help

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

30-015-00653

Release Notification and Corrective Action

7 KMW 1104632384

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company - Legacy Reserves Operating, LP	Contact - Hugh Rogers; pumper, lease operator
Address - P.O. Box 10848, Midland, TX 79702-7848	Telephone No. 575.605.1563
Facility Name - South Red Lake Unit I	Facility Type Production Well

Surface Owner	Mineral Owner	Lease No. 307863
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LOCATION OF RELEASE

Unit Letter C	Section 36	Township 17S	Range 27E	Feet from the 660'	North/South Line NL	Feet from the 1650'	East/West Line WL	County Eddy
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Latitude 32.796005N Longitude -104.23543W

NATURE OF RELEASE

Type of Release - mixed fluids	Volume of Release 25 bbls	Volume Recovered 2 bbls
Source of Release - ruptured flow line	Date and Hour of Occurrence 2/8/11, am	Date and Hour of Discovery 2/8/11, pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? 24 hr notification to Mike Bratcher, NMOCD	
By Whom? Mike Stubblefield, Talon/LPE	Date and Hour 2/9/11 @ 15:05pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.* no impact to waterway

RECEIVED

FEB 11 2011

Describe Cause of Problem and Remedial Action Taken.*

NMOCD ARTESIA

Frozen poly flow line ruptured. Line repaired accomplished same day.

Describe Area Affected and Cleanup Action Taken.*

Downhill flow path approximately 400' x 6'. 2 bbs recovered same day as release. Talon/LPE on site for initial sampling 2/9/11, notification to NMOCD and C-141 submitted 2/9/11. Remedial action work plan will be generated based on laboratory analytical results.

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.

OIL CONSERVATION DIVISION

Signature:

Printed Name: David J. Adkins

Title: District Manager Talon/LPE, Agent for Legacy Reserves

E-mail Address: dadkins@talonlpe.com

Date: 2/9/11 Phone: 575.746.8768 (office)
575.441.4835 (cell)

Approved by District Supervisor

Approval Date: 2/17/11

Expiration Date:

Conditions of Approval:
Remediation per OCD Rules &
Guidelines. SUBMIT REMEDIATION
PROPOSAL NOT LATER THAN:

Attached ☐

* Attach Additional Sheets If Necessary

3/17/11

2 RP-604

APPENDIX II
LABORATORY RESULTS



February 18, 2011

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: SOUTH RED LAKE UNIT #1

Enclosed are the results of analyses for samples received by the laboratory on 02/16/11 9:05.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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

Analytical Results For:

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

Received: 02/16/2011
Reported: 02/18/2011
Project Name: SOUTH RED LAKE UNIT #1
Project Number: NONE GIVEN
Project Location: EDDY COUNTY SEC. 36-T17S.R27E

Sampling Date: 02/14/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 1' (H100309-01)

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2011	ND	1.99	99.4	2.00	9.57	
Toluene*	<0.050	0.050	02/16/2011	ND	2.06	103	2.00	9.30	
Ethylbenzene*	<0.050	0.050	02/16/2011	ND	2.12	106	2.00	9.86	
Total Xylenes*	<0.150	0.150	02/16/2011	ND	6.30	105	6.00	10.1	

Surrogate: 4-Bromofluorobenzene (PIL) 96.1 % 70-130

Chloride, SM4500CI-B		mg/kg		Analyzed By: LR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	02/16/2011	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	02/16/2011	ND	214	107	200	3.06	
DRO >C10-C28	284	50.0	02/16/2011	ND	224	112	200	3.74	

Surrogate: 1-Chlorooctane 115 % 70-130

Surrogate: 1-Chlorooctadecane 112 % 70-130

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/16/2011
Reported: 02/18/2011
Project Name: SOUTH RED LAKE UNIT #1
Project Number: NONE GIVEN
Project Location: EDDY COUNTY SEC. 36-T17S.R27E

Sampling Date: 02/14/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 1.25' (H100309-02)

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2011	ND	1.99	99.4	2.00	9.57	
Toluene*	<0.050	0.050	02/16/2011	ND	2.06	103	2.00	9.30	
Ethylbenzene*	<0.050	0.050	02/16/2011	ND	2.12	106	2.00	9.86	
Total Xylenes*	<0.150	0.150	02/16/2011	ND	6.30	105	6.00	10.1	

Surrogate: 4-Bromofluorobenzene (PIL) 98.3 % 70-130

Chloride, SM4500CI-B		mg/kg		Analyzed By: LR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	02/16/2011	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	02/16/2011	ND	214	107	200	3.06	
DRO >C10-C28	309	50.0	02/16/2011	ND	224	112	200	3.74	

Surrogate: 1-Chlorooctane 115 % 70-130

Surrogate: 1-Chlorooctadecane 115 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 02/16/2011
Reported: 02/18/2011
Project Name: SOUTH RED LAKE UNIT #1
Project Number: NONE GIVEN
Project Location: EDDY COUNTY SEC. 36-T17S.R27E

Sampling Date: 02/14/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: UP GRADE (H100309-03)

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2011	ND	1.99	99.4	2.00	9.57	
Toluene*	<0.050	0.050	02/16/2011	ND	2.06	103	2.00	9.30	
Ethylbenzene*	<0.050	0.050	02/16/2011	ND	2.12	106	2.00	9.86	
Total Xylenes*	<0.150	0.150	02/16/2011	ND	6.30	105	6.00	10.1	

Surrogate: 4-Bromofluorobenzene (PIL) 94.5 % 70-130

Chloride, SM4500CI-B		mg/kg		Analyzed By: LR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	02/16/2011	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	02/16/2011	ND	214	107	200	3.06	
DRO >C10-C28	471	50.0	02/16/2011	ND	224	112	200	3.74	

Surrogate: 1-Chlorooctane 103 % 70-130

Surrogate: 1-Chlorooctadecane 99.3 % 70-130

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*=Accredited Analyte

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Celey 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



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2-2

Company Name: <u>Talon/LPE</u>		BILL TO		ANALYSIS REQUEST																								
Project Manager: <u>O Adkins</u>		P.O. #:																										
Address: <u>408 W Texas Ave.</u>		Company:																										
City: <u>Artesia</u> State: <u>NM</u> Zip: <u>88210</u>		Attn:																										
Phone #: <u>505-746-8168</u> Fax #: <u>505-746-8905</u>		Address:																										
Project #: _____ Project Owner: <u>Legacy Res.</u>		City:																										
Project Name: <u>South Red Lake Unit #1</u>		State: _____ Zip: _____																										
Project Location: <u>Eddy County sec. 36-T12S-R27E</u>		Phone #: _____																										
Sampler Name: <u>O. Adkins</u>		Fax #: _____																										
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(C)RAB OR (C)OMP. # CONTAINERS	MATRIX			PRESERV		SAMPLING		TPH	BTEX	Chlorides															
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:				ICE / COOL	OTHER:	DATE	TIME											
	<u>H1003091</u>	<u>S-1 1'</u>	<u>5</u>			<input checked="" type="checkbox"/>								<input checked="" type="checkbox"/>		<u>2/14/2011</u>	<u>4:29P</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
	<u>2</u>	<u>S-1 1-25'</u>	<u>5</u>			<input checked="" type="checkbox"/>								<input checked="" type="checkbox"/>		<u>2/14/2011</u>	<u>4:35P</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
	<u>3</u>	<u>Upgrade</u>	<u>5</u>			<input checked="" type="checkbox"/>								<input checked="" type="checkbox"/>		<u>2/14/2011</u>	<u>4:19P</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								

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Relinquished By: <u>me (Stupor)</u>	Date: <u>2/15/2011</u> Time: _____	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By: _____	Date: <u>2/16/11</u> Time: <u>4:25</u>	Received By: <u>Jodi Benson</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: (Initials) <u>[Initials]</u>
REMARKS:			

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

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February 11, 2011

DAVID ATKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: LEGACY S. RED LAKE UNIT #1

Enclosed are the results of analyses for samples received by the laboratory on 02/10/11 10:40.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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

Analytical Results For:

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

Received: 02/10/2011
Reported: 02/11/2011
Project Name: LEGACY S. RED LAKE UNIT #1
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 02/09/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 @ 0.25' (H100267-01)

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.067	0.050	02/10/2011	ND	2.22	111	2.00	21.6	
Toluene*	0.264	0.050	02/10/2011	ND	2.22	111	2.00	22.9	
Ethylbenzene*	0.757	0.050	02/10/2011	ND	2.27	114	2.00	23.4	
Total Xylenes*	1.95	0.150	02/10/2011	ND	6.68	111	6.00	23.0	

Surrogate: 4-Bromofluorobenzene (PIL) 94.4 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10800	16.0	02/10/2011	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	279	100	02/11/2011	ND	201	101	200	1.33	
DRO >C10-C28	5400	100	02/11/2011	ND	199	99.7	200	2.54	

Surrogate: 1-Chlorooctane 97.1 % 70-130

Surrogate: 1-Chlorooctadecane 107 % 70-130

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/10/2011
Reported: 02/11/2011
Project Name: LEGACY S. RED LAKE UNIT #1
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 02/09/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 @ 0.5' (H100267-02)

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2011	ND	2.22	111	2.00	21.6	
Toluene*	<0.050	0.050	02/10/2011	ND	2.22	111	2.00	22.9	
Ethylbenzene*	<0.050	0.050	02/10/2011	ND	2.27	114	2.00	23.4	
Total Xylenes*	<0.150	0.150	02/10/2011	ND	6.68	111	6.00	23.0	

Surrogate: 4-Bromofluorobenzene (PIL) 90.6 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	02/10/2011	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/11/2011	ND	201	101	200	1.33	
DRO >C10-C28	74.4	10.0	02/11/2011	ND	199	99.7	200	2.54	

Surrogate: 1-Chlorooctane 95.5 % 70-130

Surrogate: 1-Chlorooctadecane 88.4 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/10/2011
Reported: 02/11/2011
Project Name: LEGACY S. RED LAKE UNIT #1
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 02/09/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 @ 0' (H100267-03)

BTX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2011	ND	2.22	111	2.00	21.6		
Toluene*	3.47	0.050	02/10/2011	ND	2.22	111	2.00	22.9		
Ethylbenzene*	17.9	0.050	02/10/2011	ND	2.27	114	2.00	23.4		
Total Xylenes*	37.1	0.150	02/10/2011	ND	6.68	111	6.00	23.0		

Surrogate: 4-Bromofluorobenzene (PIL) 118 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	02/10/2011	ND	448	112	400	3.64	
TPH 8015M		mg/kg		Analyzed By: AB					

Surrogate: 1-Chlorooctane 96.3 % 70-130

Surrogate: 1-Chlorooctadecane 90.2 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/10/2011
Reported: 02/11/2011
Project Name: LEGACY S. RED LAKE UNIT #1
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 02/09/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 @ 0.25' (H100267-04)

BTEx 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2011	ND	2.22	111	2.00	21.6	
Toluene*	<0.050	0.050	02/10/2011	ND	2.22	111	2.00	22.9	
Ethylbenzene*	0.153	0.050	02/10/2011	ND	2.27	114	2.00	23.4	
Total Xylenes*	0.409	0.150	02/10/2011	ND	6.68	111	6.00	23.0	

Surrogate: 4-Bromofluorobenzene (PIL) 99.1 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	02/10/2011	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	25.2	10.0	02/11/2011	ND	201	101	200	1.33	
DRO >C10-C28	192	10.0	02/11/2011	ND	199	99.7	200	2.54	

Surrogate: 1-Chlorooctane 89.8 % 70-130

Surrogate: 1-Chlorooctadecane 84.5 % 70-130

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Celey 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

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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