

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 290I State Hwy 349 Midland, Texas 79706 Phone 432.522.2133 Fax 432.522.2180

SAN ANTONIO II Commercial Place Schertz, 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

1301 West Grand Avenue Artesia, NM 88210 Subject:

Soil Assessment and Remediation Work Plan Lime Rock Resources II-A, L.P Condor 8 Federal No. 001H 30-015-35829 -- 2RP-853

Dear Mr. Bratcher,

August 22, 2011

Mr. Mike Bratcher **NMOCD District 2**

Lime Rock Resources II-A, L.P has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the referenced Condor 8 Federal No. 001H. The results of our soil assessment and proposed remediation activities consist of the following:

Incident Date

July 28, 2011

Background Information

Depth to ground water

Wellhead Protection Area

Distance to surface water body

The Condor 8 Federal No. 001H is located approximately sixteen (16) miles east of Artesia, New Mexico. The legal location for the site is Section 8, Township 18 South and Range 27 East in Eddy County, New Mexico. More Specifically the latitude and longitude for the release are 32,76464 North and -104,300765 West.

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 Gypsum. The local surface and shallow geology, Paleozoic Age sedimentary deposits, is comprised of the Guadeloupian Artesia Group, Tansil and Yates formations which includes silty soils under lain by gypsum and hard caliches. Drainage courses in this area are normally dry. The New Mexico State Engineer web site indicates the nearest ground water data to be in S8-T18S-R27E. The ground water in the area is reported to be at an average of 82' below ground surface (bgs). The referenced groundwater data is presented in Appendix I.

50'-100'

>1000'

>1000'

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

ENVIRONMENTAL CONSULTING ENGINEERING DRILLING CONSTRUCTION SPILL MANAGEMENT **GENERAL CONTRACTING**

Toll Free: 866.742.0742 www.talonlpe.com AUG 2 4 2011 NMOCD ARTESIA

Incident Description

On July 28, 2011 the driver for Great Lakes Transport overflowed his transport truck. Approximately fifteen (15) barrels of oil were released. There were no fluids recovered. The affected area is located on the well location south of the battery and measures approximately 72-feet long by 122-feet wide. A small area located south of the well location was also affected by a minor flow path. A site plan illustration the work area is attached.

Actions Taken

On July 28, 2011 Talon/LPE personnel conducted a preliminary site assessment for the construction of the initial C-141 form.

On August 5, 2011 Talon/LPE mobilized personnel to the site to carry out soil sampling activities for the construction of a work plan. Grab soil samples were collected utilizing a hand auger. The soil samples were collected from the impacted area to a depth of 2-feet below land surface on location (S-1) and off location to a depth of 1-foot below land surface. (S-2)

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, and volatile organics (BTEX) using EPA Method 8021B. The complete laboratory report is attached as Appendix II.

Analytical Results

Analytical results received from Cardinal Laboratories dated August 11, 2011 are summarized below:

<u>Samp</u>	le, Depth	<u>BTEX</u>	<u>TPH</u>
S-1	0'	<50 mg/kg	53060 mg/kg
S-1	1'	665.2	8730
S-1	2'	<50	375.2
S-2	0'	<50	24897
S-2	1'	<50	2674.4
S-2	2'	*Refusal	

For this site's ranking, New Mexico Oil Conservation District action level criterion for BTEX is 50 mg/kg, Benzene is 10 mg/kg and TPH is 1,000 mg/kg.

Summary and Conclusion

- Groundwater in the project vicinity is less than 100-feet below land surface per the New Mexico State Engineer Database.
- A number of above ground steel flow lines exist on the location.
- Based upon the results of the laboratory data obtained for this investigation, the vertical impacts of the hydrocarbon release have been documented to extend 1-foot below ground surface in the impacted area.
- Refusal occurred at S-2 when rock was encountered at 1-foot deep.
- Based on the depth to groundwater, it is unlikely that the impacts identified from this release will pose a threat to groundwater after proposed remediation activities are complete.

Proposed Remedial Actions

- Based on the fact that there are a number of above ground steel flow lines located at the site, traditional excavation and disposal methods for the impacted area may not be a feasible option. Because the release consisted solely of crude oil, a spray application of 500 gallons of a bio-remediation agent (Micro Blaze) to treat the impacted area is proposed.
- A follow up 60-day soil sampling event will be done on the area in which Micro Blaze was applied. Should the levels of BTEX and TPH still exceed their respective RRAL's, a second spray application of Micro Blaze and follow up sampling event will be conducted.
- A final report will be provided to the NMOCD Artesia Office utilizing Form C-141.

If we can provide additional information or be of further assistance please contact our office at 575.746.8768.

Respectfully submitted,

TALON/LPE

milestudlefield

Mike Stubblefield Project Manager

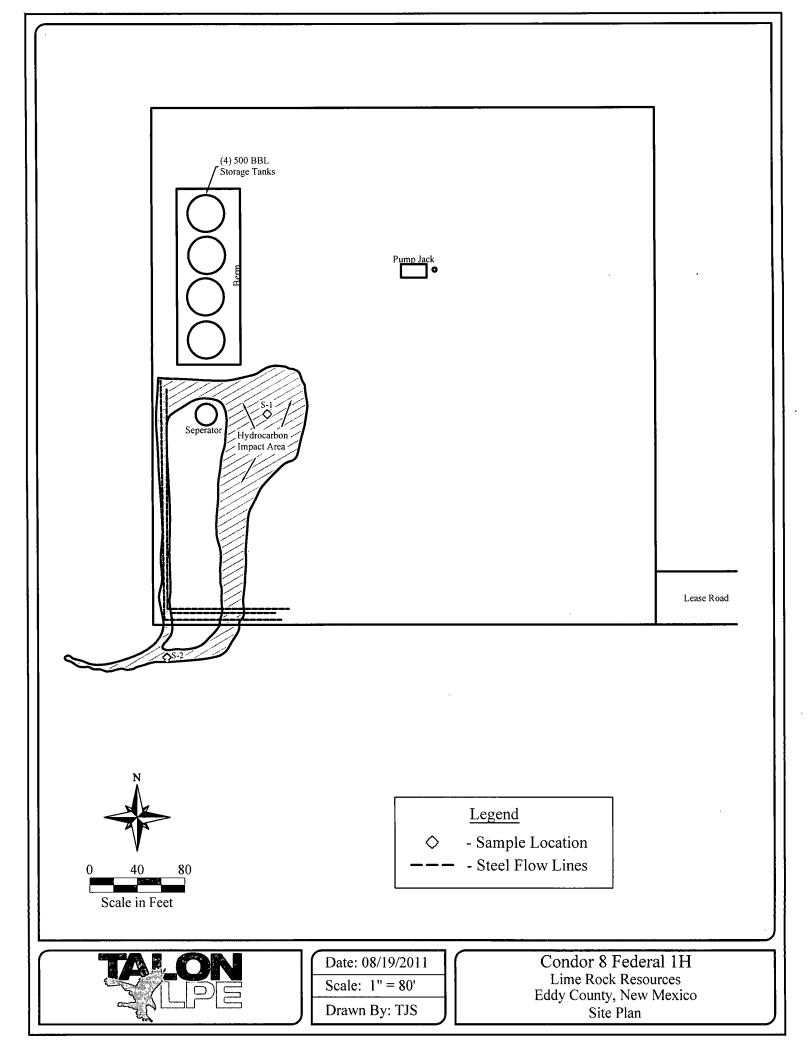
do.

David J. Adkins District Manager

SITE MAP

v

·



APPENDIX I

GROUNDWATER DATA

INITIAL C-141

.

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised October 10, 2003

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

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

Release Notification and Corrective Action

OPERATOR Initial Report Final Report Name of Company : LIME ROCK RESOURCES II-A, L.P Contact : Jerry Smith Address : 1111 Bagby Street Suite 4600, Houston ,TX 77002 Telephone No. : 575-748-9724 Facility Name : Condor 8 Federal #001H Facility Type: Battery Eattery

Surface Owner : Federal

Mineral Owner

Lease No. : API #30-015-35829

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
F	8	18S	27E	1770	FNL	2525	FWL	

Latitude 32.76464 Longitude -104.300765

NATURE OF RELEASE

Type of Release : OIL	Volume of Release : 15 bbls		ecovered: -0-		
Source of Release : Overflow Oil Transport	Date and Hour of Occurrence:		Hour of Discovery: 7/28/11		
	7/28/11 10:07 am	10:07 am			
Was Immediate Notice Given?	If YES, To Whom?				
🗌 Yes 🔲 No 🖾 Not Required					
By Whom? Transport Driver	Date and Hour : 7/28/11 10:07 am	——————————————————————————————————————			
Was a Watercourse Reached?	If YES, Volume Impacting the Wa				
🗌 Yes 🛛 No					
If a Watercourse was Impacted, Describe Fully.*			· · · · · · · · · · · · · · · · · · ·		
		BEC	EIVED		
Describe Cause of Problem and Remedial Action Taken.*					
During loading procedures the driver for Great Lakes Transport overflow	ed his transport truck	AUG	1 2011		
building procedures the driver for Oreat Eakes Transport overnow	ed ins transport truck.	Λυα	I LUII		
Describe Area Affected and Cleanup Action Taken.*		NMOCD	ARTESIA		
The affected area was located on the well location south of the battery. The	nis area was measured to be approxi-	nately 72' Ion	g x 122' wide. A	mall area	
located south of the well location was affected by a minor flow path. Due	to rock and boulders off the edge of	location, this	area was not able	to be	
measured. Great Lakes Transport was contacted; they will provide equipr correction of the release.	nent for the excavation of release. T	alon/LPE was	s also contacted for	r the	
correction of the release.					
I hereby certify that the information given above is true and complete to the	e best of my knowledge and underst	and that pursu	uant to NMOCD n	iles and	
regulations all operators are required to report and/or file certain release ne	otifications and perform corrective ad	ctions for rele	ases which may en	danger	
public health or the environment. The acceptance of a C-141 report by the	e NMOCD marked as "Final Report"	does not relie	eve the operator of	liability	
should their operations have failed to adequately investigate and remediate	e contamination that pose a threat to	ground water,	surface water, hu	man health	
or the environment. In addition, NMOCD acceptance of a C-141 report defederal, state, or local laws and/or regulations.	bes not relieve the operator of respon	sibility for co	mpliance with any	other	
	OIL CONSER	VATION	DIVICION		
	OIL CONSER	VATION	DIVISION		
Signature: X12 Smith					
	Approved by District Supervisor:				
Printed Name: Jerry Smith					
Title: Assistant Production Supervisor	Approval Date:	Expiration D	Date:		
E-mail Address: jsmith@limerockresources.com	Conditions of Approval:				
	Conditions of Approval.		Attached 🔲		
Date: 8/01/11 Phone: 575-748-9724					

'Attach Additional Sheets If Necessary

,



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

		(qua	irter	s ai	re 1	=NW	/ 2=NE	3=SW	4=SE)					
		(qua	rter	s a	re s	malle	est to la	argest)	(NAD8	3 UTM in me	eters)	(Ir	n feet)	
Sūl	Ì		Q	Q	Q	- 4 -						Dèpth D) epth W	/ater
POD Number bas	n Uše C	ounty.	64	16	4	Sec	Tws	Rng	X	Ý	Distance	Wêll V	VaterCo	olumn
RA 03714	PRO	СН	4	4	2	08	18S	27E	566212	3625253*	1268	381		
RA 05989	PRO	ED	3	2	4	01	18S	26E	562774	3626466*	2378	72	8	64
RA 03661	PRO	ED	3	2	3	32	17S	27E	565186	3628038*	2399	330	140	190
RA 03664	DOM	СН	3	2	3	32	17S	27E	565186	3628038*	2399	400	100	300
										Averaç	ge Depth to	Water:	82 fe	et
											Minimum	Depth:	8 fe	et
											Maximum	Depth:	140 fe	et
	المها وموادقها والمراجع	wa na wa 1997 - 199		** *		•••	ه این رو می		n iyo maa aya eyye		مرده موجه مرجع مرجع م	~ w ~~ ~~ ~~	م يوم در من م	1996, 1802 ⁴¹ 1 ¹ 1

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 565006

Northing (Y): 3625645

Radius: 3000

*UTM location was derived from PLSS - see Help

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

APPENDIX II

LABORATORY RESULTS



August 11, 2011 MIKE STUBBLEFIELD TALON LPE 408 W. TEXAS AVE. ARTESIA, NM 88210

RE: CONDOR BATTERY 8 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 08/05/11 17:50.

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 Hydorcarbons

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

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 (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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	08/05/2011	Sampling Date:	08/05/2011
Reported:	08/11/2011	Sampling Type:	Soil
Project Name:	CONDOR BATTERY 8 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	701307.027.01	Sample Received By:	Jodi Henson
Project Location:	SEC.26 - T175 - R28E		

Sample ID: S-1 0' LOCATION (H101648-01)

BTEX 8021B	mg/	kg	Analyze	d By: CMS	·	<u> </u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.50	2.50	08/10/2011	ND	1.93	96.6	2.00	0.499	
Toluene*	5.87	2.50	08/10/2011	ND	1.87	93.4	2.00	0.698	
Ethylbenzene*	11.1	2.50	08/10/2011	ND	1.92	96.0	2.00	0.642	
Total Xylenes*	34.4	7.50	08/10/2011	ND	5.79	96.6	6.00	0.856	
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 70-130)						
TPH 8015M	mg/	/kg	Analyze	d By: ab					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	, RPD	Qualifier
GRO C6-C10	1860	100	08/10/2011	ND	186	92.9	200	2.28	
DRO >C10-C28	51200	100	08/10/2011	ND	172	86.2	200	1.36	
Surrogate: 1-Chlorooctane	159 :	70-130)					.1.	
Surrogate: 1-Chlorooctadecane	86.9	% 70-130)						

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 and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In one event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurved by Cardinal, response that not be reproduced except in full with written approval of Cardinal laboratories.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/05/2011	Sampling Date:	. 08/05/2011
Reported:	08/11/2011	Sampling Type:	Soil
Project Name:	CONDOR BATTERY 8 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	701307.027.01	Sample Received By:	Jodi Henson
Project Location:	SEC.26 - T175 - R28E		

Sample ID: S-1 1' LOCATION (H101648-02)

BTEX 8021B	mg,	′kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	33.2	2.50	08/10/2011	ND	1.93	96.6	2.00	0.499	
Toluene*	204	2.50	08/10/2011	ND	1.87	93.4	2.00	0.698	
Ethylbenzene*	129	2.50	08/10/2011	ND	1.92	96.0	2.00	0.642	
Total Xylenes*	299	7.50	08/10/2011	ND	5.79	96.6	6.00	0.856	
Surrogate: 4-Bromofluorobenzene (PIL	123	% 70-130)						
TPH 8015M	mg,	/kg	Analyze	d By: ab		<u> </u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2790	50.0	08/10/2011	ND	186	92.9	200	2.28	
DRO >C10-C28	5940	50.0	08/10/2011	ND	172	86.2	200	1.36	
Surrogate: 1-Chlorooctane	105)						
Surrogate: 1-Chlorooctadecane	125	% 70-130)						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Uability and Damages. Cardinal's liability and clenc'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 and any 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 damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by Client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

×.

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/05/2011	Sampling Date:	08/05/2011
Reported:	08/11/2011	Sampling Type:	Soil
Project Name:	CONDOR BATTERY 8 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	701307.027.01	Sample Received By:	Jodi Henson
Project Location:	SEC.26 - T175 - R28E		

Sample ID: S-1 2' LOCATION (H101648-03)

BTEX 8021B	mg/	'kg	Analyze	d By: CMS				· ·	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.299	0.050	08/10/2011	ND	1.93	96.6	2.00	0.499	
Toluene*	1.78	0.050	08/10/2011	ND	1.87	93.4	2.00	0.698	
Ethylbenzene*	1.38	0.050	08/10/2011	ND	1.92	96.0	2.00	0.642	
Total Xylenes*	3.70	0.150	08/10/2011	ND	5.79	96.6	6.00	0.856	
Surrogate: 4-Bromofluorobenzene (PIL	102	% 70-130)						
TPH 8015M	mg/	/kg	Analyze	d By: ab			<u> </u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	19.2	10.0	08/10/2011	ND	186	92.9	200	2.28	
DRO >C10-C28	356	10.0	08/10/2011	ND	172	86.2	200	1.36	
Surrogate: 1-Chlorooctane	116	70-130)						
Surrogate: 1-Chlorooctadecane	123	% 70-130)						

Cardinal Laboratories

*=Accredited Analyte

PLEACE NOTE: Liability and Damages. Cardinal's liability and clemt's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by cleart for analyses. All claims, including those for negligence and any 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 damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Result relative to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/05/2011	Sampling Date:	08/05/2011
Reported:	08/11/2011	Sampling Type:	Soil
Project Name:	CONDOR BATTERY 8 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	701307.027.01	Sample Received By:	Jodi Henson
Project Location:	SEC.26 - T175 - R28E		

Sample ID: S-2 0' OFF LOCATION (H101648-04)

BTEX 8021B	mg/	kg	Analyze	d By: CMS	·				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2011	ND	1.93	96.6	2.00	0.499	
Toluene*	0.088	0.050	08/10/2011	ND	1.87	93.4	2.00	0.698	
Ethylbenzene*	0.252	0.050	08/10/2011	ND	1.92	96.0	2.00	0.642	
Total Xylenes*	0.831	0.150	08/10/2011	ND	5.79	96.6	6.00	0.856	
Surrogate: 4-Bromofluorobenzene (PIL	102 9	70-130)						
TPH 8015M	mg/	kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	197	50.0	08/10/2011	ND	186	92.9	200	2.28	
DRO >C10-C28	24700	50.0	08/10/2011	ND	172	86.2	200	1.36	
Surrogate: 1-Chlorooctane	119 9	% 70-130)						
Surrogate: 1-Chlorooctadecane	106 9	% 70-130)						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remety for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including tince for negligence and any other cause whatscrever 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 damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based 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.

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/05/2011	Sampling Date:	08/05/2011
Reported:	08/11/2011	Sampling Type:	Soil
Project Name:	CONDOR BATTERY 8 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	701307.027.01	Sample Received By:	Jodi Henson
Project Location:	SEC.26 - T175 - R28E		

Sample ID: S-2 1' OFF LOCATION (H101648-05)

BTEX 8021B	mg/	kg	Analyze	d By: CMS				<u> </u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2011	ND	1.93	96.6	2.00	0.499	
Toluene*	<0.050	0.050	08/10/2011	ND	1.87	93.4	2.00	0.698	
Ethylbenzene*	<0.050	0.050	08/10/2011	ND	1.92	96.0	2.00	0.642	
Total Xylenes*	0.180	0.150	08/10/2011	ND	5.79	96.6	6.00	0.856	
Surrogate: 4-Bromofluorobenzene (PIL	96.1	% 70-130)						
TPH 8015M	mg,	/kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	64.4	50.0	08/10/2011	ND	186	92.9	200	2.28	
DRO >C10-C28	2610	50.0	08/10/2011	ND	172	86.2	200	1.36	
Surrogate: 1-Chlorooctane	125	% 70-130)	<u> </u>					
Surrogate: 1-Chlorooctadecane	123	% 70-130)						

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 nepligence and any 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 incidential or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based 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.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 8



Notes and Definitions

Z-01	One or more surrogates above historical limits.
S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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

PLEASE NOTE: Liability and Damages. Cordinal's liability and clent'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 and any other cause whatsoever shall be deemed waked unless made in writing and received by Cardinal within thiny (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiants, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples (leatified babve. This report shall not be reproduced except in full with written approval of Cardinal laboretories.

Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	Talon/LPE						l	5		Bl	LL TO	n i se	-					ANA	LYSI	S R	EQU	EST	_		
Project Manager: mixe fives & fill.					· • •	P.O.					Î								1		T				
Address:	408 W. Texas Que.						6	Con	npany	y: 7	alo, 14P	E													
City:		Zip	: 22	210				١ttn																	
Phone #:	575-441-775 W Fax #:						ļ	١dd	ress	:								1			1	{		}	
	01307.027.01 Project Owne	er:					c	City	:																
	Condor battery 8 celease						s	Stat	e:		Zip:		1												
	1: 50(. 26 -TINS. RZ&E						F	ho	- ne #:				1												
Sampler Name:							F	ax	#:				1					}	1			ļ	1	Í	
FOR LAB USE ONLY	y	T.	T		MAT	RIX		P	RESE	RV.	SAMPL	ING	1								1				
Lab I.D. HID1649	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER WASTEWATER	SOIL	OIL	SLUDGE	UTHER :	ACIU/BASE: ICE / COOL	OTHER :	DATE	TIME	BAIEM TOU	~	8020 BJEX	443									
	S. O Location	5			S				12	1	815/2011	2:19 By	V												
<u> </u>	5-1 1' LOCATION 5-1 2' LOCATION	a			1				1	ļ	2/5/01	2:23 PM	V								·				
3	5.1 2' Location	К.			V					\square	\$15/2011	2.32 Pm	V	_ V							.				
	5.2 0' off location 5.2 1' off location	<u>_</u>	-		~				- 1	<u> </u>	R/S/2011	2:46Pm	V.						e						
	5-21 off beation	6			1	l		1	1		R/5/20H	2.4919	r	10											
		·[·_+-				<u></u>				-		••••								
————			╏──┠		┼─┤					$\left - \right $															
			┠─┠		+			-																	
		1				Ť		-	1						- -		• • • • • • • • •								

PLEASE NOTE: Liability and Damages. Continues liability and ellent's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount poid by the client for the analyses. All claims including those for negligence and any other cause whatboever shall be deemed workind cause in writing and received by Controlland within D onys after completion of the applicable service. In or event shall Cardinal be liable for incidential or consequential damages, including without limitation, buildings, near of loss of profils incurred by their list incidential or incidential or consequential damages, including without limitation, buildings, itsue or loss of profils incurred by their list is being without the applicable

affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether ouch claim is based upon any of the above stated reasons or otherwise.

Relinquished By:		leceived By:	Polan	Phone Result:	□ Yes_	🗆 No	Add'l Phone #:		
	8/5/2011	And RI	Contraction of the second	Fax Result:	🗆 Yes	□ No	Add'l Fax #:		
mik (Shellefield	Time: 7:771m. 7	4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 	- At-	REMARKS:					
Relinquished By:		- All All							
Kelindaisuea By: N	Dater 3/5/1/ R	Received By:							
		NOTE M	10.						
222	100:50	Kell de	MIGN						
Delivered By: (Circle One)		() Sample Condition	CHECKED BY:					•	
	16	Cool Intact	(ໄຖົ່າຢູ່ລ່)s)						1
Sampler - UPS - Bus - Other:	5	/ EVes Pres	Stike						
	V								

† Cardinal cannot accept verbal changes. Please fax written changes to 505-398-22

Page 8 of 8