



August 8, 2012

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ARTESIA

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

ENVIRONMENTAL CONSULTING ENGINEERING DRILLING CONSTRUCTION SPILL MANAGEMENT GENERAL CONTRACTING

Toll Free: 866.742.0742 www.talonlpe.com 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 II Unit No. 37 30-015-00715 2RP-1231

Dear Mr. Bratcher,

Legacy Reserves Operation, LP has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the referenced South Red Lake II Unit No. 37 location. Our soil sampling results and proposed remediation activities consist of the following:

Incident Date

June 25, 2012

Background Information

The South Red Lake II Unit No. 37 is located approximately thirteen (13) miles southeast of Artesia, New Mexico. The legal location for the site is Section 1, Township 18 South and Range 27 East in Eddy County, New Mexico. More Specifically the latitude and longitude for the release are 32.78253 North and -104.23978 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 Largo-Stony land complex soils with 0 to 25 percent slopes. The local surface and shallow geology, Quaternary Age sedimentary deposits, is comprised of older alluvial deposits of upland plains and piedmont areas which include calcareous alluvium and silty loamy soils under lain by 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 S10-T18S-R27E. The ground water in Section 10 is reported to be at depth of 50' below ground surface (bgs). The referenced groundwater data is presented in Appendix I.

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'

Incident Description

On June 25, 2012 a leak was found on a 2" steel line that feeds the injection well at the South Red Lake II Unit No. 37. A release of 4 to 5 barrels of produced water is estimated. The well was shut-in, the line repaired and brought back into service. There were no fluids recovered. The release traveled north and east of the well, measuring approximately 30-feet by 50-feet in diameter.

Actions Taken

On July 12, 2012 Talon mobilized personnel to begin the assessment and soil sampling for the construction of a work plan. The soil samples were collected from the impacted area using a backhoe.

The soil sample was collected by Talon personnel wearing clean nitrile gloves. The samples were placed in a laboratory provided sample container and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for total chlorides via Method SM4500Cl-B. The complete laboratory report is attached as Appendix II.

Analytical Results

Analytical results received from Cardinal Laboratories are summarized below:

July 19, 2012

Sample	Depth	Chlorides (mg/kg)
S-1	0' 1' 2' 3' 4'	33,600 6,400 1,280 1,880 3,240
S-2	0' 1' 2' 3' 4' 5' 7' 9' 11' 13'	30,000 13,400 4,560 1,520 432 1,250 6,160 10,000 7,120 2,720
S-3	0' 1' 2' 3'	2,720 3,000 3,720 3,600

Sample	Depth	<u>Chlorides</u> mg/kg
S-3	4' 5' 7' 9' 11'	2,960 2,160 2,480 2,120 1,060
S-4	0' 1' 2' 3' 4' 5' 7'	336 2,280 3,920 3,040 1,920 3,440 2,040
S-5	0' 1' 2' 3' 4' 5' 7' 9' 11'	37,200 800 2,000 2,960 3,360 3,200 2,640 1,920 1,520

Proposed Remedial Actions

- The impacted soil will be excavated to a depth of 4-feet and transported to an NMOCD approved solid waste disposal facility.
- Confirmation samples will be collected from the sidewalls of the excavation and presented to the OCD for permission to complete excavation activities.
- Upon completion of excavation activities, a 20 mil. liner will be placed into the bottom of excavated area. The excavated area will be backfilled back to grade using new material transported from a local borrow pit and will be contoured to match the surrounding location.
- A final report documenting all field activities and lab reports will be provided to the NMOCD Artesia Office including 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

n. Wilson

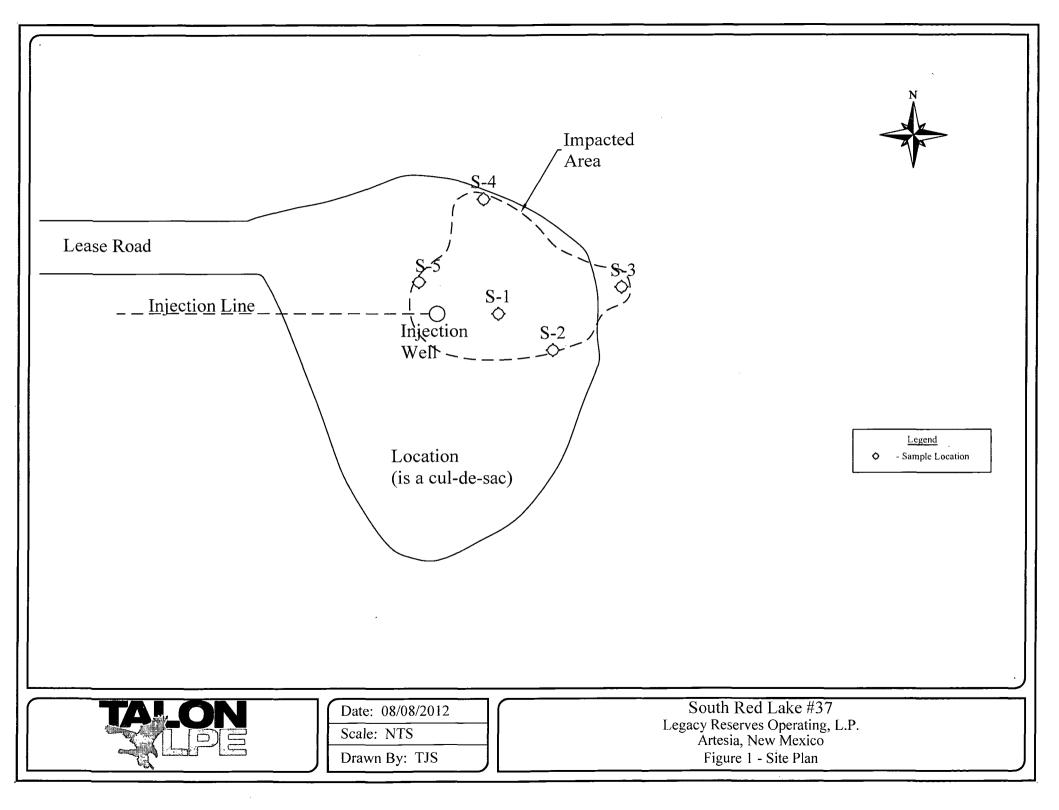
Kimberly M. Wilson Environmental Scientist

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David J. Adkins District Manager

SITE MAP

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APPENDIX I

GROUNDWATER DATA

INITIAL C-141



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

(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)							E 3=SW argest)	,	3 UTM in me	ters)	(1	n feet)	
POD Number	POD Code Subbasin	County	-	Q 16	-	Sec	Tws	Rng	X	Y	Distance	•	•	Water Column
RA 04561		ED		4	2	26	17S	27E	570871	3630142*	2728	250		
RA 03917		LE	4	1	2	10	18S	27E	569019	3625660*	2812		50	80
										Avera	ge Depth to			feet
											Minimum	Depth:	50	feet
											Maximum	Depth:	50	feet
Record Count: 2							<u>-</u>							

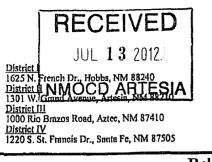
UTMNAD83 Radius Search (in meters):

- Easting (X): 571202
- Northing (Y): 3627434

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.



State of New Mexico Energy Minerals and Natural Resources

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

Form C-141 Revised October 10, 2003

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

Release Notification and Corrective Action												
							OPERATOR Initial Report Final Rep					
Name of Co	mpany –L	egacy Reser	ves Oper	ating, LP		Contact: Berry Johnson						
Address - P	O box 108	48, Midland	i, TX 797	/02-7848			No. : 432-689-52	200				
Facility Nar	ne – South	Red Lake I	I Unit #3	/		Facility Typ						
Surface Ow	ner:			Mineral C	Dwner	Federal			Lease N	No. API#3	0-015-00715	
	LOCATION OF RELEASE											
Unit Letter	Section	Township	Range	Feet from the		h/South Line	Feet from the		Vest Line	County		
D	1	185	27E	330'	Nort	1	330'	West		Eddy		
		I	Laf	itude 32.782:	53 N	Longitude	-104.23978 W	, ,				
			Dat				_					
Type of Rele	Dradu	ogel Water			URI	Volume of	Release 4-5 bbls		Volume F	Recovered -0	• bbls	
Source of Re							lour of Occurrenc		the second se	Hour of Disc		
						6/25/2012 If YES, To	ND		6/25/2012	2		
Was Immedia	ile Notice (Yes 🔲	No 🗌 Not Re	equired	BLM	whom (
By Whom?		·····				Date and H						
Was a Water	Was a Watercourse Reached?					If YES, Volume Impacting the Watercourse.						
If n Watercov	irse was lin	pacted, Descr	ibe Fully.	•								
Describe Cau	se of Probl	ent and Reme	dial Action	n Taken.*								
There was a l	eak at the 2	" steel line th	at feeds in	jection well. No	water v	vas recovered,	the well was shut	in, the	line was rej	paired and br	ought back into	
Describe Are mist that sett	a Affected a ed northeas	and Cleanup A it of the locati	Action Tak on. Talon	en.* The affecte /LPE has been co	ed area intracte	was about 30' d to complete :	X 50' just east an site assessment an	ıd south ıd work	of the well plan activi	l. There was ties.	a small amount of	
							knowledge and u					
							id perform correct					
							arked as "Final R on that pose a thr					
or the enviror	nnent. In a	ddition, NMC	CD accep				e the operator of i					
federal, state,	or local lay	vs and/or regu	ilations.	نىنىتىتىتى يەرىپە مەرىپ			OIL CON	CEDV	ATION	DIVISIO	N	
	Shal	Ja G	na.er	rsock	1			JUIC V	ATION	101 1 1010		
Signature:		BX) AL	MUC.	noce		American his	District Supervise					
Printed Name	: Shar	on Bower	sock	· · · · · · · · · · · · · · · · · · ·		Арргочей бу		or;	·			
Title:	Eng.	/Regulat	ory Te	ech		Approval Dat	c:		Expiration	Date:		
E-mail Addre	ss: sbow	ersock@1	egacy	Lp.com		Conditions of Approval;						
07	/13/20			689-5200		Attached						
Date: 07							·····	·····		1		

Attach Additional Sheets If Necessary

APPENDIX II

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LABORATORY RESULTS



July 19, 2012

DAVID ADKINS TALON LPE 408 W. TEXAS AVE. ARTESIA, NM 88210

RE: SOUTH RED LAKE #37

Enclosed are the results of analyses for samples received by the laboratory on 07/16/12 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	07/16/2012	Sampling Date:	07/12/2012
Reported:	07/19/2012	Sampling Type:	Soil
Project Name:	SOUTH RED LAKE #37	Sampling Condition:	** (See Notes)
Project Number:	701047.053.01	Sample Received By:	Jodi Henson
Project Location:	D-1-18S-27E		

Sample ID: S - 1 0' (H201621-01)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	33600	16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 1 1' (H201621-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 1 2' (H201621-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 1 3' (H201621-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	07/18/2012	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	07/16/2012	Sampling Date:	07/12/2012
Reported:	07/19/2012	Sampling Type:	Soil
Project Name:	SOUTH RED LAKE #37	Sampling Condition:	** (See Notes)
Project Number:	701047.053.01	Sample Received By:	Jodi Henson
Project Location:	D-1-18S-27E		

Sample ID: S - 1 4' (H201621-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3240	16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 2 0' (H201621-06)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	30000	16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 2 1' (H201621-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13400	16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 2 2' (H201621-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 2 3' (H201621-09)

Chloride, SM4500Cl-B	mg/	kg	Analyze	i By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	07/18/2012	ND	416	104	400	0.00	

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	07/16/2012	Sampling Date:	07/12/2012
Reported:	07/19/2012	Sampling Type:	Soil
Project Name:	SOUTH RED LAKE #37	Sampling Condition:	** (See Notes)
Project Number:	701047.053.01	Sample Received By:	Jodi Henson
Project Location:	D-1-18S-27E		

Sample ID: S - 2 4' (H201621-10)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 2 5' (H201621-11)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 2 7' (H201621-12)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6160	16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 2 9' (H201621-13)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 2 11' (H201621-14)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7120	16.0	07/18/2012	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Received:	07/16/2012	Sampling Date:	07/12/2012
Reported:	07/19/2012	Sampling Type:	Soil
Project Name:	SOUTH RED LAKE #37	Sampling Condition:	** (See Notes)
Project Number:	701047.053.01	Sample Received By:	Jodi Henson
Project Location:	D-1-18S-27E		

Sample ID: S - 2 13' (H201621-15)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 3 0' (H201621-16)

Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10300	. 16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 3 1' (H201621-17)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 3 2' (H201621-18)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3720	16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 3 3' (H201621-19)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	07/18/2012	ND	416	104	400	0.00	

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Received:	07/16/2012	Sampling Date:	07/12/2012
Reported:	07/19/2012	Sampling Type:	Soil
Project Name:	SOUTH RED LAKE #37	Sampling Condition:	** (See Notes)
Project Number:	701047.053.01	Sample Received By:	Jodi Henson
Project Location:	D-1-18S-27E		

Sample ID: S - 3 4' (H201621-20)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 3 5' (H201621-21)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP		. <u></u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 3 7' (H201621-22)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 3 9' (H201621-23)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 3 11' (H201621-24)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	07/18/2012	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Received:	07/16/2012	Sampling Date:	07/12/2012
Reported:	07/19/2012	Sampling Type:	Soil
Project Name:	SOUTH RED LAKE #37	Sampling Condition:	** (See Notes)
Project Number:	701047.053.01	Sample Received By:	Jodi Henson
Project Location:	D-1-18S-27E		

Sample ID: S - 4 0' (H201621-25)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 4 1' (H201621-26)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 4 2' (H201621-27)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 4 3' (H201621-28)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 4 4' (H201621-29)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	07/18/2012	ND	416	104	400	0.00	

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/16/2012	Sampling Date:	07/12/2012
Reported:	07/19/2012	Sampling Type:	Soil
Project Name:	SOUTH RED LAKE #37	Sampling Condition:	** (See Notes)
Project Number:	701047.053.01	Sample Received By:	Jodi Henson
Project Location:	D-1-18S-27E		

Sample ID: S - 4 5' (H201621-30)

Chloride, SM4500Cl-B	mg/kg Analyzed By: AP								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 4 7' (H201621-31)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2040	16.0	07/18/2012	ND	416	104	400	0.00		

Sample ID: S - 5 0' (H201621-32)

Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	37200	16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 5 1' (H201621-33)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 5 2' (H201621-34)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	07/18/2012	ND	416	104	400	0.00	

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	07/16/2012	Sampling Date:	07/12/2012
Reported:	07/19/2012	Sampling Type:	Soil
Project Name:	SOUTH RED LAKE #37	Sampling Condition:	** (See Notes)
Project Number:	701047.053.01	Sample Received By:	Jodi Henson
Project Location:	D-1-18S-27E		

Sample ID: S - 5 3' (H201621-35)

Chloride, SM4500Cl-B	de, SM4500Ci-B mg/kg								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 5 4' (H201621-36)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	07/18/2012	ND	416	104	400	0.00	

Sample ID: S - 5 5' (H201621-37)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	07/18/2012	ND	400	100	400	3.92	

Sample ID: S - 5 7' (H201621-38)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	07/18/2012	ND	400	100	400	3.92	

Sample ID: S - 5 9' (H201621-39)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	07/18/2012	ND	400	100	400	3.92	

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Celey D.Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	07/16/2012	Sampling Date:	07/12/2012
Reported:	07/19/2012	Sampling Type:	Soil
Project Name:	SOUTH RED LAKE #37	Sampling Condition:	** (See Notes)
Project Number:	701047.053.01	Sample Received By:	Jodi Henson
Project Location:	D-1-18S-27E		

Sample ID: S - 5 11' (H201621-40)

...

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	07/18/2012	ND	400	100	400	3.92	

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Celey D. Kune

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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(575) 393-2326 FAX (575) 393-247	6		· · · · · · · · · · · · · · · · · · ·						
Company Name	"Inlan/LPE		ANALYSIS REQUEST							
Project Manage	". Squid Adkins		P.O. \$:							
Address: 41.	18 W. Jelas		Company: 1alan/LPE							
City: Arto	sia State: MM	zip: \$8:210	Atin:	\Im						
11		746-8905	Address:	69						
Project #: 70		" headey	City:	N						
Project Name;	S. Red Lake #37		State: Zio:	77						
Project Location	16		Phone #:							
Sampler Name:		reach	Fax #:							
FOR LAB USE ONLY	Jan Jan Jan Barris	MATRIX	PRESERV. SAMPLING							
Lab I.D. H201621	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER : AML	1040						
1	5-1 0'	GI	17.12.12 9:30g							
2 3	<u>S-1 / / </u>		17.12.129.45							
3	5-1 2	6	17.12.12 9:48							
<u> </u>	5-1 3'	6	17.12.129:51							
5_	<u>S-1 4</u>	6	/ 7.1.2.1.29:54		-					
<u> </u>	5-2 0	6	17.12.12.10.00		<u> </u>					
	<u><u> </u></u>	Ģ <u> </u>	17.12.12.10.10							
	<u>5-2</u> 2'	19-1-1-12-1	17.12.12.10:13							
	<u>S-2</u> S-2 4	6 / /	7.12.12.10:15	<hr/>						
	<u>.) – X – 7 – – – – – – – – – – – – – – – –</u>		17.12.12.10:18							

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atiliates or subscessory arising out of or related to the performance of services beryunder by Caudinal, regardless of whigher such claim is based upon any of the above stated rensons of otherwise. Received By: 🗆 Yes Relinquished By: Phone Result: D No Add'l Phone #: U Yes D No Fax Result: Add'I Fax #: REMARKS: Tim Qin Mile Stulle Relinquished By: Jacaivod Bu mile Stal Rehield Delivered By: (Circle One) Sample Condition Cool intact Ves Yes 0 Sampler - UPS - Bus (Other)

† Cardinal cannot accept verbal changes. Please fax written changes to \$95-393-\$476

Page 12 of 15



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, Hobbs, NM 88	240																			
	(575) 393-2326 FAX (575) 393-247	'G																			
Company Name	:, Jalon/KPE					dardo)	SILL	τo	i i i i i i i i i i i i i i i i i i i		ì			ANAL	YSIS	RE	QUES	šТ			
Project Manage	r: Mariel Hakima				- IP	.0. %:													1		j
Address: 4	18 W. Jellas				C	ompany	: Ja	lor	NIPE						•						
city: Arte	Dola State: MM	Zip	: \$	18210	A	ttn:			6	\Box	5										
	5-1746-8768 Fax #575	.7	46	- 8905	A	adress:				1	SI .	1									
Project #: 70	01044.053.01 Project Owne				<u> </u>	ity:					4	ł							Ì		
Project Name:	S. Real Lake # 34		(<u> </u>	s	iate:	Zip	:		1 3		ł									ļ
Project Locatio	n: D-1-185-27E				<u>P</u>	hone #:															
Sampler Name:	Fimber Co. M. W.	<u>il</u>	<u></u>			ax #:	-			1	1		1								
FOR LAB USE ONLY	0			MATRIX	<u> </u>	PRESE	RV. 5	SAMPL	NG		1										
Lab I.D.	Sample I.D.	RAB OR (C)OMP	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER :	ACID/BASE: ICE / COOL	OTHER: . 			tata 0											
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13	5-2 91	6					1. 7.1	12.13	10:35				Í								
i4	5-2 11	6					17.	12.12	10:40	1											1
15	3-2 13'	55					17.	12.13	11:48				l								
16	5-3 0'	E.		1	1		17.	12.1	12:15												
17	S-3 1	Ğ.			i		1 7.	12.13	12:19	/		Ì			[
15	5-3 2	6		/			17.1	212	12:23												
19	S-3 3	6		<i>i</i>			19.1	2.12	12:27												
20	S-3 4'	6		1					12:30							i					

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attRates or successors and any of or related to the performance of services bereander by Cardinal, respectees of whether such claim is based upon any of the above stated respons or otherwise. Received By: Relinguished By Phone Result: 🖸 Yes 🖾 No Add'l Phone #: Daw Fax Result: REMARKS: Yes D No Add'l Fax #: Reinquished By: / Time; mile S Lull 840 Received By: Mile Stall Lill Delivered By: (Vircle One) Sample Condition Coci Intact Ves Ves Sampler - UPS - Bus (Other) 0

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, Hobbs, NM 88240																				
	(575) 393-2326 FAX (575) 393-243	6									-		·								_
Company Name	: Inlan/IPE					tion and the second	BI	LL TO			1			ANA	LYSI	S RE	QUE	ST			
Project Manage	r: April Haking					P.O. #:				T			<u> </u>	[1	1	<u> </u>	
Address: 40	18 W. Teras					Compa	ny:/	Tala	nLIPE	5								1			
City: Arto	sia State://M	Zip:	882	10	1	Attn:			7		3			[
	5-746-8768 Fax # 575				,	Addres	s:				2			l							
Project #: 70	in the second					City:				- ``	2										·
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Project Location						Phone	8:			- 5	ž –										
Sampler Name:	· · · · · · · · · · · · · · · · · · ·	ils	Qu	<u>,</u>		Fax #:				2						1					
FOR LAB USE ONLY		<u> </u>		MATRI	X	PRE	SERV.	SAMPL	ING		1						ļ				
		(C)OMP ERS	D1						1	0							1	· ·			
		C) ERO	ATE							1	3 -										
Lab I.D.	Sample I.D.	3 OR TAIN	NDV		12	ASE															
H201621		(G)RAB OR (C)C # CONTAINERS	GROUNDWATER WASTEWATER	SOIL	I and	OTHER: ACID/BASE:	OTHER :	D 175											l		
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22		6		<u>/</u> ,	<u> -</u>	_	Ļ	7.12.12	12:47												
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26	S-4 1'	6_		1			7	7.12.13	1:35		-										
27	5-4 2'	Ğ_		1			Z	7.12.1:	11:39						ĺ						
28	5-4 3'	6		1			\Box	7.12.12	1:43												
29	<u>S-4</u> 41	6		<i>i</i>				7.12.12	1:47												
30	5-4 5	G		1				7.12.12	- 2:00			<u> </u>								. 1	

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Relinguished By: Received By: Phone Result: 🗆 Yes D No Add'I Phone #: Add'I Fax #: Dati D Yes Fax Result: 🗆 No Time: / REMARKS: milestu **Relinguished By:** Received By: Mile Sulflight Delivered By:/ (Circle One) Sample Condition CHI Cool Intact Ves Vos Sampler - UPS - Bus - Other:

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#26



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

	(575) 393-2326 FAX (575) 393-247	′G										
Company Name	alon/LPE		BILL TO	ANALYSIS REQUEST								
Project Manage	" April Hakins		P.O. 称:									
Address: 40	18 W. Jeras		Company: 12 Con/LPE									
City: Arto	sia State: MINI	zip: 88210	Attn:									
Phone #: 575	5-1746-8768 Fan # 575	746-8905	Address:									
Project #: 70	1047.053,01 Project Owne		City:									
Project Name;	S. Red Lake #317		State: Zip:	(B)								
Project Location	1: D-1-185-27E		Phone #:									
Sampler Name:	Kimberly Mills	alson_	Fax #:									
FOR LAB USE ONLY			X PRESERV SAMPLING									
		(C)OMP. ERS ATER 'ER										
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H201621		(C)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE DTHER: ACIDIBASE: DOTHER: MULT BADD DTHER:									
3	5-4 7'		17.12.12 2:15									
32	S-5 0'		17.12.12.2:30									
33	5-5 11	6 /	1 7.12.12.2:36									
34	5-5 2'	6	17.12.122:40									
35	3-5 3:	6	/ 7.12.12 2:44									
36	5-5 4	0	7.12.122:48									
57	<u>S-5</u> <u>5</u> 	Ģ	17.12.12.2:55									
38	$\frac{2}{2}$	Ģ- <u> -</u> -/,	7.12.12.3:05									
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affiliates or successory arising out of or related to the performance of services freeunder by Certiliast, regardings of whether such claim is based upon any of the above stated reasons or otherwise. Relinguished By: Received By: Phone Result: Da CIYes CINo Add'l Phone #: Fax Result: D Yes [] No Add'l Fax #: REMARKS: mlestill Time: / Relinquished By; ol, Roceived By: Marcs holestell Delivered By: (Circle One) Sample Condition CHECKED BY: 4 Cool intact, (Initialis) -0 Sampler - UPS - Bus/- Other: Ves Ves 25

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#26