

August 17, 2011

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

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

ARTESIA 408 West Texas Ave. Artesia, New Mexico 88210 Phone 575.746.8768 Fax 575 746.8905

> ALISTIN 9II 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 432.522.2I80

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

ENVIRONMENTAL CONSULTING ENGINEERING DRILLING CONSTRUCTION SPILL MANAGEMENT GENERAL CONTRACTING

NAOCD ARTESIA Soil Assessment and Remediation Work Plan Subject:

> Devon Energy Corporation Ore Ida 14 Federal No. 10 API # 30-015-29290 -- 2RP-798

Dear Mr. Bratcher,

Devon Energy Corporation has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the referenced Ore Ida 14 Federal No. 10 release. The results of our soil assessment and proposed remediation activities consist of the following:

Incident Date

May 11, 2011

Background Information

The Ore Ida 14 Federal No. 10 is located approximately thirty (30) miles southeast of Carlsbad, New Mexico. The legal location for the site is Section 14, Township 24 South and Range 29 East in Eddy County, New Mexico. More Specifically the latitude and longitude for the release are 32.21520 North and -103.94946 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 Stony and Rough broken land. The local surface and shallow geology is Holocene to Pleistocene in age and is comprised of eolian sands and piedmont deposits which includes silty soils under lain with hard caliche. The New Mexico State Engineer web site indicates the nearest ground water data to be in S16-T24S-R29E. The ground water in Section 16 is reported to be at an average depth of 11' below ground surface (bgs). The referenced groundwater data is presented in Appendix I.

The ranking for this site is 20 based on the as following:

Depth to ground water <50' Wellhead Protection Area >1000' Distance to surface water body >1000'

Toll Free: 866.742.0742 www.talonipe.com

Incident Description

On May 11, 2011 a flow line was damaged causing a release of one hundred (100) barrels of produced water onto the lease road. There were no fluids recovered. The well was shut-in, the flow line was repaired and well was returned to service. The initial release from the flow line is located near the Ore Ida 14 Federal No. 10 approximately 355-feet south along the lease road. The release flowed south down the lease road in an area approximately 1,202-feet long by 11-15 feet wide.

Actions Taken

On May 20, 2011 Talon/LPE mobilized personnel to begin the site assessment and soil sampling for the construction of a work plan. Grab soil samples were collected utilizing a split spoon auger rig. The soil sample locations S-1 and S-2 were collected from within the impacted areas from 0-12 feet deep. Sample locations S-3 and S-4 were collected from within the impacted areas from 0-8 feet deep. The sample BG S-1 was collected for back ground chlorides from the non-impacted area off the lease road.

On June 24, 2001 Talon mobilized personnel again to the site for additional samples using a backhoe. Grab samples S-5 thru S-12 were collected from the impacted area from 1-6 feet deep.

Soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis of chlorides using method SM4500Cl-B. The complete laboratory report is attached as Appendix II.

Analytical Results

Analytical results received from Cardinal Laboratories are summarized below:

May 26, 2011

	S-1		S-2		S-3		S-4	BG S-1		
Feet	Chlorides	Feet	Chlorides	Feet	Chlorides	Feet	Chlorides	Feet	Chlorides	
0'	41600	0'	64000	0'	43200	0'	23200	0'	16	
2'	1920	2'	592	2'	288	2'	592	21	**	
4'	656	41	1300	4'	3040	4'	688	4'	**	
6'	2040	6'	48	6'	32	6'	336	6'	**	
8'	768	8'	208	8'	32	8'	160	8'	**	
10'	384	10'	16	10'	**	10'	**	10'	**	
12'	352	12'	144	12'	**	12'	**	12'	**	

^{**}Not tested

	S-5		S-6		S-7		S-8	S-9		
Feet	Chlorides									
1'	1410	1'	16	1'	176	1'	80	1'	464	
2'	288	2'	96	2'	288	2'	192	2'	544	
3'	432	3'	208	3'	512	3'	496	3'	448	
4'	528	4'	256	4'	272	4۱	384	4'	96	
5'	432	5'	176	5'	192	5'	320	5'	48	
6'	416	6'	64	6'	64	6'	352	6'	48	
	S-10		S-11		S-12		,			
Feet	Chlorides	Feet	Chlorides	Feet	Chlorides					
1'	496	1'	880	1'	352					
2'	592	2'	4040	2'	160					
3'	576	3'	944	3'	624					
4'	416	4'	368	4'	240					
5'	544	5'	128	5'	160					
6'	336	6'	80	6'	176					

١

Summary and Conclusions

- Ground water in the project vicinity is less than 50-feet below land surface per the New Mexico State Engineer Database.
- Based upon the results of the laboratory data obtained for this investigation, the vertical impacts of the chloride release have been documented to be 48 mg/kg at 6' below ground surface in the impacted area.
- Based on the depth to groundwater and the chloride levels detected in the soil at the sample location, it is unlikely that the chloride impacts identified from this release will pose a threat to groundwater.

Proposed Remedial Actions

- The impacted soil from this release will be excavated to a depth of 1-foot deep. The excavated soil will be transported to a NMOCD approved solid waste disposal facility. Exceptions include the impacted area from S-11 to the end of the pooling area which will be excavated to a depth of 2-feet below land surface.
- Since the impacted area is an active lease road the area the excavated area will be immediately backfilled after excavation using new material transported from a local borrow pit. The backfill material will be contoured to match existing lease road.

- Because the impacted area is an active lease road no confirmation samples will be collected. Horizontal delineation for chlorides on excavated sidewalls will be completed by testing on location using the field titration test method for chlorides.
- A final report documenting all field activities and lab reports will be provided to the NMOCD Artesia Office utilizing Form C-141.

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

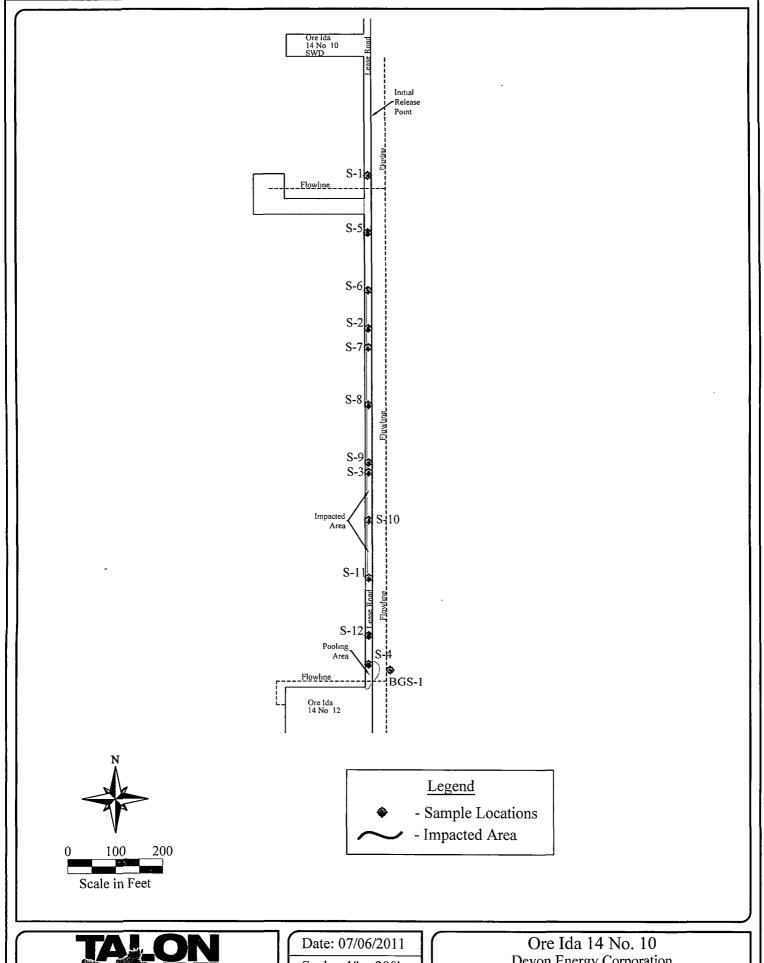
Mike Stubblefield

mule 5 willfield

Project Manager

David J. Adkins District Manager

SITE MAP





Scale: 1'' = 200'

Drawn By: TJS

Ore Ida 14 No. 10
Devon Energy Corporation
Carlsbad, Eddy County, New Mexico
Site Plan

APPENDIX I GROUNDWATER DATA INITIAL C-141



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

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

پست سیده در در در در در در در			(quarte	rs a	re s	ma	llest	to larg	est)	(NAD83 UTI	M in meters)		(In feet)	****
	Sub	1		Q)	Q)	Q,	٠.					Depth C	epth W	ater
POD Number	basin	Use	County	64	16	4	Sec	Tws	Rng	X	· Ý	Well V	Vater Col	ùmn
C 00349	CUB	CLS	ED		1	3	18	248	29E	591401	3564773*	2734		
C 00381	С	CLS	ED	3	2	3	07	24\$	29E	591682	3566297*	2797		
C 00463	С	PRO	ED	4	4	4	17	248	29E	594332	3564282*	260	4	256
C 00856		EXP	ED	1	2	4	30	248	29E	592538	3561644*	380		
C 00857		EXP	ED	3	1	4	30	24S	29E	592135	3561440*	306		
C 00862		EXP	ED	1	2	4	30	24S	29E	592538	3561644*	155		
C 00863		MIN	ED	3	3	1	16	248	29E	594524	3565091*	220		
C 02713		IND	ED	4	4	1	16	24\$	29E	591633	3565944	230	18	212
										Ave	rage Depth to	Water:	11 fee	t
											Minimum	n Depth:	4 fee	t
											Maximum	n Depth:	18 fee	t

Record Count: 8

PLSS Search:

Township: 24S

Range: 29E

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

Revised October 10, 2003

Form C-141

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

Release Notification and Corrective Action

						OPERA	ΓOR	Initia	ıl Report	Final Report			
Name of Co	Name of Company Devon Energy						Contact Roy White, Foreman						
Address 6	488 Sev	en Rivers	Hwy –	P.O. Box 250	0	Telephone No. 575- 748-5234							
Facility Nar	Facility Name Ore Ida 14 Federal #10					Facility Type							
Surface Ow	ner			Mineral O	wner			Lease N	lo.				
				LOCA	TIOI	N OF REI	EASE						
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/West Line	County				
					FSL	860'	FEL		ddy				
Latitude – N32.21516 * Longi NATURE OF RE Type of Release Volume						_	EASE	7 Volume R	geovered				
Produced	Water					100 bbls		0	CCCOVCICG				
Source of Re Above Gre		y Line was	ran ove	er			Iour of Occurrence - 10:00 pm		Hour of Disco 1 – 10:00 p				
Was Immedi	ate Notice (Yes [] No 🗌 Not Re	equired	If YES, To							
By Whom? Roy White, Foremen						Date and Hour 05-12-11 – 9:10 am							
Was a Watercourse Reached? ☐ Yes ☑ No						olume Impacting	the Watercourse.						
Describe Car A truck ha	use of Probl ad driven oad with	0 bbl reco	dial Actio	n Taken.* Dund ploy line Devon lease o	perat	or arrived	on location to	releasing 100 b shut off all tra t from the BLM	ansfer pum	ps going into			
Shut off a	ll transfe		oing int	o that line & is									
regulations a public health should their or the enviro	Il operators or the envi operations l nment. In a	are required to a representation are required to a representation are required to a required to a required to a	o report and acceptant adequately OCD accept	nd/or file certain r ce of a C-141 report investigate and r	elease rort by the emedian	notifications a ne NMOCD m te contaminat	nd perform correct parked as "Final Ricon that pose a the	understand that purse ctive actions for relaceport" does not relace to ground water responsibility for c	eases which m ieve the operat r, surface wate	nay endanger tor of liability or, human health			
		بملل اممان					OIL CON	SERVATION	DIVISION	<u> </u>			
Signature: Printed Nam		jkol Hor ol Horner	ner			Approved by District Supervisor:							
Title:		d Tech 1				Approval Da	te:	Expiration	Date:				
E-mail Addr		ol.horner@	dvn.co	m		Conditions o	f Approval:		Attached				
Date: Phone: 575-748-0160													

^{*} Attach Additional Sheets If Necessary

APPENDIX II LABORATORY RESULTS



May 26, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: ORE IDA 14 FEDERAL NO. 10

Enclosed are the results of analyses for samples received by the laboratory on 05/24/11 10:21.

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.

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



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

Received:

05/24/2011

Reported:

05/26/2011

Project Name:

ORE IDA 14 FEDERAL NO. 10

Project Number:

700794.012.01

Project Location:

ULI-14-T24S-R29E

Sampling Date:

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

05/20/2011

Jodi Henson

Sample ID: S - 1 0' (H101057-01)

Chloride,	SM4500CI-B

mg/kg

Analyzed By: HM

Analyte

Analyte

Result 41600 Reporting Limit 16.0

Reporting Limit

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed 05/26/2011

Analyzed

Method Blank ND

BS 448 % Recovery 112

True Value QC 400

RPD 3.64

3,64

Qualifier

Sample ID: S - 1 2' (H101057-02)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Method Blank

% Recovery

True Value QC

Chloride

Chloride

Chloride

Chloride

Result 1920

656

Result

2040

16.0 05/26/2011 ND

BS 448

BS

448

112

400

RPD Qualifier

Sample ID: S - 1 4' (H101057-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Analyte Result

Analyzed 05/26/2011 Method Blank

% Recovery 112

True Value QC

400

RPD

3.64

Qualifier

Sample ID: S - 1 6' (H101057-04)

Chloride, SM4500Cl-B

Analyte

mg/kg

Analyzed By: HM

Analyzed

05/26/2011

ND

ND

Method Blank

BS 448 % Recovery 112

True Value QC 400

RPD 3.64 Qualifier

Cardinal Laboratories

*=Accredited Analyte

any other cause whatsoever shall be deemed warved 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 se. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratones

Celeg & Keene Celey D. Keene, Lab Director/Quality Manager

Page 2 of 11



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

Fax To:

(575) 745-8905

Received:

05/24/2011

Sampling Date:

05/20/2011

Reported:

05/26/2011

Sampling Type:

Soil

Project Name:

ORE IDA 14 FEDERAL NO. 10

Sampling Condition:

** (See Notes)

Project Number:

700794.012.01

Sample Received By:

Jodi Henson

Project Location:

ULI-14-T24S-R29E

Sample ID: S - 1 8' (H101057-05)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	05/26/2011	ND	448	112	400	3.64	
Sample ID: S - 1 10' (H1010	=								
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte .	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	05/26/2011	ND	448	112	400	3.64	
Sample ID: S - 1 12' (H1010 Chloride, SM4500CI-B) 57-07) mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	05/26/2011	ND	448	112	400	3.64	
Sample ID: S - 2 0' (H1010!	57-08)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64000	16.0	05/26/2011	ND	448	112	400	3.64	
Sample ID: S - 2 2' (H1010!	57-09)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte					00	% Recovery	True Value OC	DDD	0
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



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

Received:

05/24/2011

Sampling Date:

05/20/2011

Reported:

05/26/2011

Sampling Type:

Soil

Project Name:

ORE IDA 14 FEDERAL NO. 10

Sampling Condition:

** (See Notes)

Project Number:

700794.012.01

Sample Received By:

Jodi Henson

Project Location:

ULI-14-T24S-R29E

Sample ID: S - 2 4' (H101057-10)

Result								
	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1300	16.0	05/26/2011	ND	448	112	400	3.64	
'-11)								
mg,	/kg	Analyze	d By: HM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
48.0	16.0	05/26/2011	ND	448	112	400	3.64	
'-12)								
mg,	/kg	Analyze	d By: HM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
208	16.0	05/26/2011	ND	448	112	400	3.64	
5 7-13)								
mg	/kg	Analyze	d By: HM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
16.0	16.0	05/26/2011	ND	448	112	400	3.64	
7-14)							ı	
mg	/kg	Analyze	d By: HM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
144	16.0	05/26/2011	ND	448	112	400	3.64	
	Result 48.0 7-12) mg, Result 208 67-13) mg, Result 16.0 7-14) mg, Result	Result Reporting Limit	r-11) mg/kg Analyze Result Reporting Limit Analyzed 48.0 16.0 05/26/2011 7-12) mg/kg Analyzed Result Reporting Limit Analyzed 208 16.0 05/26/2011 57-13) mg/kg Analyzed Result Reporting Limit Analyzed 16.0 16.0 05/26/2011 7-14) mg/kg Analyzed Result Reporting Limit Analyzed	7-11) mg/kg Analyzed By: HM Result Reporting Limit Analyzed By: HM 7-12) Method Blank Result Reporting Limit Analyzed By: HM Result Reporting Limit Analyzed By: HM 57-13) Analyzed By: HM Result Reporting Limit Analyzed Method Blank 16.0 16.0 05/26/2011 ND 7-14) Analyzed By: HM Result Reporting Limit Analyzed By: HM Result Reporting Limit Analyzed By: HM	7-11) mg/kg Analyzed By: HM Result Reporting Limit Analyzed Method Blank BS 48.0 16.0 05/26/2011 ND 448 7-12) mg/kg Analyzed By: HM BS 208 16.0 05/26/2011 ND 448 57-13) mg/kg Analyzed By: HM Result Reporting Limit Analyzed Method Blank BS 16.0 16.0 05/26/2011 ND 448 7-14) mg/kg Analyzed By: HM Result Reporting Limit Analyzed By: HM Result Reporting Limit Analyzed Method Blank BS	7-11) mg/kg Analyzed By: HM Result Reporting Limit Analyzed Method Blank BS % Recovery 48.0 16.0 05/26/2011 ND 448 112 7-12) mg/kg Analyzed By: HM Result Reporting Limit Analyzed By: HM	## Analyzed By: HM Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 48.0 16.0 05/26/2011 ND 448 112 400 ### Analyzed By: HM Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 208 16.0 05/26/2011 ND 448 112 400 ### Analyzed By: HM Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 400 ### Analyzed By: HM Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 400 ### Analyzed By: HM Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 400 ### Analyzed By: HM Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 400 ### Analyzed By: HM Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 400 #### True Value QC 400 ### True Value QC 400 #### True Value QC 400 ##################################	Result Reporting Limit Analyzed By: HM

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



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

Received:

05/24/2011

Sampling Date:

05/20/2011

Reported:

Sampling Type:

Project Name:

05/26/2011

** (See Notes)

ORE IDA 14 FEDERAL NO. 10

Sampling Condition:

Project Number:

700794.012.01

Sample Received By:

Jodi Henson

Project Location:

ULI-14-T24S-R29E

Sample ID: S - 3 0' (H101057-15)

Chloride	SM4500CI-B

- 611		ĸ

Analyzed By: HM

Analyte

Result

43200

Result

288

Reporting Limit

Analyzed 05/26/2011 Method Blank ND

BS 448 % Recovery 112

True Value QC 400

RPD

3.64

Sample ID: S - 3 2' (H101057-16)

Chlorida	SM4500CI-B
Cilioriue,	シバインひひている

Analyzed By: HM

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

16.0

Analyzed Method Blank BS % Recovery True Value OC

Oualifier

Qualifier

Chloride

Chloride

05/26/2011

ND

448

112

400

Sample ID: S - 3 4' (H101057-17)

Chloride, SM4500Cl-B

	•9	,
_	_	_

Analyzed By: HM

Analyte

Analyte

Analyte

Result

Reporting Limit Analyzed Method Blank

BS

% Recovery

True Value QC

RPD

RPD

3.51

Qualifier

Chloride

Chloride

3040

16.0 05/26/2011 ND

448

112

Sample ID: S - 3 6' (H101057-18)

Analyzed By: HM

400

3.51

mg/kg

Result

32.0

Result

32.0

05/26/2011

Analyzed

05/26/2011

Analyzed

Method Blank ND

BS 448 % Recovery

True Value OC

RPD

Qualifier

Sample ID: S - 3 8' (H101057-19)

Chlorida	CM4EOOCI D
Chioriae,	SM4500CI-B

mg/kg

Analyzed By: HM

Method Blank

ND

BS

448

112

% Recovery

112

400

True Value QC

400

3.51

RPD

3.51

Chloride

Cardinal Laboratories

Analyte

*=Accredited Analyte

Qualifier

All claims, including those for negligence and rs, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such

Celeg D. Keena



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

Fax To:

(575) 745-8905

Analyzed By: HM

Received:

05/24/2011

Sampling Date:

05/20/2011

Reported:

Chloride, SM4500CI-B

05/26/2011

Sampling Type:

Soil

Project Name:

ORE IDA 14 FEDERAL NO. 10

Sampling Condition:

** (See Notes)

Project Number:

700794.012.01

Project Location:

ULI-14-T24S-R29E

mg/kg

Sample Received By:

Jodi Henson

Sample ID: S - 4 0' (H101057-20)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	23200	16.0	05/26/2011	ND	448	112	400	3.51	
Sample ID: S - 4 2' (H10	1057-21)								
Chloride, SM4500Cl-B	mg	mg/kg		d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	05/26/2011	ND	448	112	400	3.51	
Sample ID: S - 4 4' (H10	1057-22)								
Chloride, SM4500CI-B	mg	/kg	Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	05/26/2011	ND	448	112	400	3.51	
Sample ID: S - 4 6' (H10	1057-23)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM				•	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	05/26/2011	ND	448	112	400	3.51	
Sample ID: S - 4 8' (H10)1057-24)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/26/2011	ND ,	448	112	400	3.51	

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Celeg & 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:

05/24/2011

Sampling Date:

05/20/2011

Reported:

05/26/2011

Sampling Type:

Soil

Project Name:

ORE IDA 14 FEDERAL NO. 10

Sampling Condition:

** (See Notes)

Project Number:

700794.012.01

Sample Received By:

Jodi Henson

Project Location:

ULI-14-T24S-R29E

Sample ID: BG S - 1 0' (H101057-25)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/26/2011	ND	448	112	400	3.51	

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Keine



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 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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	Ealon/LPE	4 8	BILL TO			ANALYSIS R	EQUEST	
Project Manage	mike Stubble	chield	P.O. #:					1 1 -
Address: 40		0	Company: Talen	ILPE				
City: A-Ta	Ocac State	: NM Zip: 88210	Attn:					
Phone #: 575		575746-3905	Address:					
Project #: 72	0794.012.01 Projec	t Owner: (ULOY)	City:					
Project Name:	ORE IDIA 14.	Federal NO. ID	State: Zip:					
Project Location	n: 612 I - 14 - T245 - N	(29/2"	Phone #:	100			1 1 1	
Sampler Name:	Mike Stubbl	dield	Fax #:					
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPL	ING				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER. ACIDIBASE IICE / COOL OTHER	11.421				
H101057			1 1 1 1 1 1 1 1	TIME		 	- 	
	$S: \mathcal{I} = \mathcal{U}_{i}$		5/24/1	1			-	
2	S-1-2,	— — [] 	5:30:11	10:314			-	
y	5.1.6		5.70.11	10.410				
3	5.1 8'		5:20:11					
6	S-1 10'			11104				
	5.1_12'		5:20:11	11:274				
- 6	500'		1 5 2 4	12:00p			-	
9	S. 2 - 3		5.20.1	12:0202			-	
PLEASE NOTE Liability as	nd Damages, Cardinal's Eability and client's exclusive	remedy for any claim arising whether based in contract	ct or tort, shall be limited to the amount pa	aid by the client left the				
enalyses. All claims include	ng those for negligence and any other cause whatsoe	ever shalf he deemed waived unless made in waking ar ges, luckiding without knulation, business interruptions	is received by Cardinal within 30 days all	ler completion of the applicab	ole _			
	ng out of or related to the performance of services he	rounder by Cardinal regardless of whether such claim			☐ Yes ☐ No	Add'l Phone #:		
i '	5/21	2011		Fax Result: REMARKS:	☐ Yes ☐ No	Add'l Fax #:		
Relinquished By	held 10:2		Moon.	REMARKS:				
Relinquished By	Date:	Received By:						ï
	Time:		•				-	
Delivered By	: (Circle One)	Sample Condit	tion CHECKED BY:					
Sampler - UPS	- Bus - Other:	24 Cool Intact Yes Tye	s ()					
† Cardinal	cannot accept verbal changes	. Please fax written changes to	505 ₁ 39 <u>3</u> -2476		•			Page

BILL TO

Laboratories

Sampler - HPS - Bus - Other:

† Cardinal cannot accept verbal changes. Please fax written changes to 59%

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 10 of 11

101 East Marland, Hobbs, NW 25240 (575) 393-2326 FAX (575) 300-2476 Company Mame: 1912 NO. ANALYSIS REQUEST F.O. 9: Project Manager: Company: Talan/LPE Alin: Auldress: Project Owner: City: Stale: Zip: Project Mame: Project Location: Phone #: Fax #: Sampler Mame: MATRIX PRESERV SAMPLING FOR LABUSE ONLY Sample I.D. Labi.D. ICE / COOL OTHER H10057 DATE TIME 6 10' 1/1 analyses. All dains uncluding those for negligence and any other cause whatsoever shall be deemed valved unless made in to ling and received by Cordinal within 20 days after complet on of the applicable service. In no event shall Cardinal he liable for inculantal or consequental damages, including without limite on, but nest the implicit, issues of use, or loss of use, or loss of profils incurred by client, its substitution, but nest the implicit on the profile incurred by client, its substitutions. affiliates or excessive presing out of or related to the nesterance of services hereinded by Cardinal, temporary whether exhibits a based upon any of the above state | Rehinguishod By: | Date; | Received 201: Add'l Phone II □ Ycs I No Phone Result 5/21/201 Fer: Result: ☐ Yes ☐ No Add'I Fax#. REMARKS: Les Swillish 10:214 Kelinguished by Time: Delivered Fy: (Circle One) Sample Condition | CHECKED, DY:

Cool Iniaet

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NW 88249

. (575) 393-2326 FAX (575) 393-	2476		
Company Mame: Talon/LPE		ELECTRONICE	ANALYSIS REQUEST
Project Manager: M. Ko Stubble	field	P.O. #:	
Address: 408 W. Texas		Company: Talon/iPE	
City: Artesca State: N	10) Zip: 88210	Atin:	
Phone \$ 575-441-7254 Fax #: 5	75-746-8905	Address:	
Project 3: 700794.012.01 Project Ov	uner: DeVOTT	City:	
Project Maine: Obecda 14 Fo	deral 10	State: Zip:	
Project Location: 14. 7245 . 125	95,	Phone #:	
Sampler Marine: 17/16 Sterbble	iceld	ਜਿਕ : ਹੈ:	
FOR LAB USE ONLY	MATRIX	PRESERV SAMPLING	
	(C)OMP ERS ATER ER		
	(G)RAB OR (C)OT # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL		
LubtD. Sample LD.	MDW NDW	ASE ::	
1-10-7	(G)RAB OR ((G)RAB OR ((G)RAB OR (VASTEWATE SOIL OIL	ACID/BASE: OTHER: TAYO THER:	
HID1057	(G)R/ (G)RO (GRO) WASS' SOIL SOIL SLUC	DATE TIME	
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PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remed			
analyses. Af claims including those for negligence and any other cause vihalsoever str service. In no event shall Cardinal be liable for incidental or consequental damages, arc	uding without limitation, business interruptions,	, lase of use, or lose of profits incurred by client, its subsid	diaries .
efficiency or successors adving out of or related to the performance of acrylogs bereunde Relinquished By: Date:	Received By: , /	Is based upon any of the above stated reasons or others Phone Ri	
5/21/201		Fait Resu	di:
Much Shillipped 10:214	yeu fl	MUDIC	o.
Relinquished By: Date:	Meceived By:		
Time:		¥ 1	
Delivered By: (Circle One)	Sample Condit	ion CHECKER BY:	
Sampler - UPS - Bus - Other:	24° Cool Intact Ves 4've	s (nuizh)	
* Cardinat cannot accord you had changes. Plo	ace for written changes to		Page 11



August 16, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: ORE IDA 14 FEDERAL NO. 10

Enclosed are the results of analyses for samples received by the laboratory on 06/27/11 11:30.

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.

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



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

Received:

06/27/2011

Sampling Date:

06/23/2011

Reported:

08/16/2011

Sampling Type:

00/23/

Project Name:

ORE IDA 14 FEDERAL NO. 10

Sampling Condition:

Soil
** (See Notes)

Project Number:

700794.012.01

Sample Received By:

Jodi Henson

Project Location:

ULI-14-T24S-R29E

Sample ID: S - 5 1' (H101321-01)

Chloride, SM4500CI-B	mg,	mg/kg		d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	06/27/2011	ND	416	104	400	3.92	
Sample ID: S - 5 2' (H10	1321-02)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	06/27/2011	ND	416	104	400	3.92	
Sample ID: S - 5 3' (H10	1321-03)								
Chloride, SM4500CI-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	06/27/2011	ND	416	104	400	3.92	
Sample ID: S - 5 4' (H10	1321-04)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride									

Cardinal Laboratories

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Celeg D. Keine



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

Received:

06/27/2011

Sampling Date:

06/23/2011

Reported:

Chloride, SM4500CI-B

Sampling Type:

Soil

08/16/2011

Project Name:

ORE IDA 14 FEDERAL NO. 10

Sampling Condition:

** (See Notes)

Project Number:

700794.012.01

Sample Received By:

Jodi Henson

Project Location:

ULI-14-T24S-R29E

mg/kg

Sample ID: S - 5 5' (H101321-05)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	06/27/2011	ND	416	104	400	3.92	
Sample ID: S - 5 6' (H10:	1321-06)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/27/2011	ND	432	108	400	0.00	
Sample ID: S - 6 1' (H10:	1321-07)								
Chloride, SM4500Cl-B	mg	mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/27/2011	ND	432	108	400	0.00	
Sample ID: S -6 2' (H101	1321-08)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/27/2011	ND	432	108	400	0.00	
Sample ID: S - 6 3' (H10	1321-09)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/27/2011	ND	432	108	400	0.00	

Analyzed By: HM

Cardinal Laboratories

*=Accredited Analyte

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Celey & Keine



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

Received:

06/27/2011

Sampling Date:

06/23/2011

Reported:

08/16/2011

Sampling Type:

Soil

Project Name:

ORE IDA 14 FEDERAL NO. 10

Sampling Condition:

** (See Notes)

Project Number: Project Location:

700794.012.01 ULI-14-T24S-R29E

Sample Received By:

Jodi Henson

Sample ID: S - 6 4' (H101321-10)

Chloride, SM4500Cl-B	mg	mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/27/2011	ND	432	108	400	0.00	
Sample ID: S - 6 5' (H10	1321-11)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM		****	,		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/27/2011	ND	432	108	400	0.00	
Sample ID: S - 6 6' (H10	01321-12)								
Chloride, SM4500Cl-B	mg	mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/27/2011	ND	432	108	400	0.00	
Sample ID: S - 7 1' (H10	01321-13)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/27/2011	ND	432	108	400	0.00	
						×.			
Sample ID: S - 7 2' (H10	01321-14)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	06/27/2011	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



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

Received:

06/27/2011

Sampling Date:

06/23/2011

Reported:

Chloride, SM4500CI-B

08/16/2011

Sampling Type:

Soil

Project Name:

ORE IDA 14 FEDERAL NO. 10

Reporting Limit

16.0

Result

80.0

Sampling Condition: Sample Received By: ** (See Notes) Jodi Henson

Project Number:

700794.012.01

mg/kg

Project Location: ULI-14-T24S-R29E

Sample ID: S - 7 3' (H101321-15)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	06/27/2011	ND	432	108	400	0.00	
Sample ID: S - 7 4' (H101	1321-16)								
Chloride, SM4500Cl-B	•	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/28/2011	ND	432	108	400	0.00	
Sample ID: S - 7 5' (H10: Chloride, SM4500Cl-B	-	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/28/2011	ND	432	108	400 .	0.00	
Sample ID: S - 7 6' (H10:	1321-18)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/28/2011	ND	432	108	400	0.00	
Sample ID: S - 8 1' (H10:	1321-19)								1
Chloride, SM4500Cl-B	mg	//		d By: HM					

Analyzed By: HM

Cardinal Laboratories

Chloride

Analyte

*=Accredited Analyte

Qualifier

RPD

0.00

True Value QC

400

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Method Blank

ND

BS

432

% Recovery

108

Analyzed

06/28/2011

Celeg D. Keine



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

Received:

06/27/2011

Sampling Date:

06/23/2011

Reported:

Chloride, SM4500CI-B

08/16/2011

Sampling Type:

Soil

Project Name:

ORE IDA 14 FEDERAL NO. 10

Sampling Condition:

** (See Notes)

Project Number:

700794.012.01

mg/kg

Analyzed By: HM

Sample Received By:

Jodi Henson

Project Location:

ULI-14-T24S-R29E

Sample ID: S - 8 2' (H101321-20)

Cinoride, SM4300CI-B	1119,	- Kg	Allalyze	u by. ma					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/28/2011	ND	432	108	400	0.00	
Sample ID: S - 8 3' (H10	1321-21)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM			···-		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	06/28/2011	ND	432	108	400	0.00	
Sample ID: S - 8 4' (H10	1321-22)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	06/28/2011	ND	· 432	108	400	0.00	
Sample ID: S - 8 5' (H10	1321-23)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	06/28/2011	ND	432	108	400	0.00	
Sample ID: S - 8 6' (H10	1321-24)								
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	06/28/2011	ND	432	108	400	0.00	

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Celeg & Keine



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

Received:

06/27/2011

Sampling Date:

06/24/2011

Reported:

08/16/2011

Sampling Type:

Soil

Project Name:

ORE IDA 14 FEDERAL NO. 10

Sampling Condition:

** (See Notes)

Project Number:

700794.012.01

Sample Received By:

Jodi Henson

Project Location:

ULI-14-T24S-R29E

Sample ID: S - 9 1' (H101321-25)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	06/28/2011	ND	432	108	400	0.00	
Sample ID: S - 9 2' (H10	1321-26)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	06/28/2011	ND	416	104	400	3.77	
Sample ID: S - 9 3' (H10)1321-27)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	06/28/2011	ND	416	104	400	3.77	
Sample ID: S - 9 4' (H10)1321-28)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/28/2011	ND	416	104	400	3.77	
Sample ID: S - 9 5' (H10	1321-29)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: HM					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/28/2011	ND	416	104	400	3.77	

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

Fax To:

Received: Reported: 06/27/2011

08/16/2011

Project Name:

ORE IDA 14 FEDERAL NO. 10

Project Number:

700794.012.01

Project Location:

ULI-14-T24S-R29E

Sampling Date:

Sampling Type:

06/24/2011

Soil ** (See Notes)

Sampling Condition:

Jodi Henson

Sample Received By:

Sample ID: S - 9 6' (H101321-30)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/28/2011	ND	416	104	400	3.77	
Sample ID: S - 10	•								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	06/28/2011	NĐ	416	104	400	3.77	
Sample ID: S - 10 Chloride, SM4500CI-B	` '	ı/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	06/28/2011	ND	416	104	400	3.77	V
Sample ID: S - 10	3' (H101321-33)								
Chloride, SM4500Cl-B	mg	j/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	06/28/2011	ND	416	104	400	3.77	
Sample ID: S - 10	4' (H101321-34)								
Chloride, SM4500CI-B	mg)/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/28/2011	ND	416	104	400	3.77	

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

Fax To:

(575) 745-8905

Received:

06/27/2011

Sampling Date:

06/24/2011

Reported:

08/16/2011

Sampling Type:

Project Name:

ORE IDA 14 FEDERAL NO. 10

Sampling Condition:

** (See Notes)

Project Number:

700794.012.01

Sample Received By:

Jodi Henson

Project Location:

ULI-14-T24S-R29E

Sample ID: S -10 5' (H101321-35)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM				_	.,
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	06/28/2011	ND	416	104	400	3.77	
Sample ID: S - 10									
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	06/28/2011	ND	416	104	400	3.77	
Sample ID: S - 11 Chloride, SM4500Cl-B		/kg	Analyze	d By: HM					
		<u> </u>							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	06/28/2011	ND	416	104	400	3.77	
Sample ID: S - 11	2' (H101321-38)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4040	16.0	06/28/2011	ND	416	104	400	3.77	
Sample ID: S - 11	3' (H101321-39)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	06/28/2011	ND	416	104	400	3.77	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:

06/27/2011

Sampling Date:

06/24/2011

Reported:

Soil

Chloride, SM4500Cl-B

08/16/2011

Sampling Type:

Project Name: Project Number: ORE IDA 14 FEDERAL NO. 10

Sampling Condition:

** (See Notes)

Project Location:

700794.012.01 ULI-14-T24S-R29E

mg/kg

Sample Received By:

Jodi Henson

Sample ID: S - 11 4' (H101321-40)

Cinoriac, St-14 accer b		97119	raidiyee	a 29. 111-1					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	06/28/2011	ND	416	104	400	3.77	
Sample ID: S - 11 Chloride, SM4500Cl-B	5' (H101321-41) m	g/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/28/2011	ND	416	104	400	3.77	
Sample ID: S - 11 Chloride, SM4500Cl-B	6' (H101321-42) m	g/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/28/2011	ND	416	104	400	3.77	
Sample ID: S - 12 Chloride, SM4500Cl-B	1' (H101321-43)	g/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	06/28/2011	ND	416	104	400	3.77	
-	2' (H101321-44)								
Sample ID: S - 12 Chloride, SM4500Cl-B		g/kg	Analyze	d By: HM			1		
•		g/kg Reporting Limit	Analyze Analyzed	d By: HM Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Analyzed By: HM

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

Received:

06/27/2011

Analyzed By: HM

06/24/2011

Reported:

Sampling Date: Sampling Type:

Project Name:

Chloride, SM4500Cl-B

08/16/2011

Sampling Condition:

Soil

Project Number:

ORE IDA 14 FEDERAL NO. 10 700794.012.01

** (See Notes)

mg/kg

Sample Received By:

Jodi Henson

Project Location:

ULI-14-T24S-R29E

Sample ID: S - 12 3' (H101321-45)

Cilioriac, orrisodor B		, kg	Allalyzo						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	06/28/2011	ND	416	104	400	3.77	,
Sample ID: S - 12 4' ((H101321-46)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	06/28/2011	ND	448	112	400	3.64	
Sample ID: S - 12 5' ((H101321-47)								
Chloride, SM4500Cl-B	mg	ı/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/28/2011	ND	448	112	400	3.64	
Sample ID: S - 12 6' ((H101321-48)								
Chloride, SM4500CI-B	mg	ı/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/28/2011	ND	448	112	400	3.64	

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celey & Keene

- ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name	: Jalon/IPE							٠٠) پورو	Sign.	B	IL	L TO	문영 설명함	<i>:</i>				ANA	LYS	S RE	EQUE	ST			
Project Manage	or:						F	.O.	#:									T			T	T	T		
Address: 40	8 W. Jegas						d	om	pan	y: ¿	lei	clon,	12 PE-	1						-					
City: Asta	see State: L'17	Zip	: 8	821	0		A	ttn:		_		p]]											
Phone #: 575	746 8768 Fax #: 575	. 7	46	.89	305	-	4	ddr	ess	:								İ							
Project #: 7C	0774.012.01 Project Owner	r: :/	201	(Dr	روتر و	بمولنة	2710	ity:						1											
Project Name:	State: L/117 746 8768 Fax#: 579 00794. 012.01 Project Owner 020 Ida 14 Juderal	RY	10	2		Ú	7/s	tate	:		z	lip:		1	1				1	1					
Project Locatio	n: 14.T245.R27E						F	hon	e #:	:		·····		2											
Sampler Name:		1					F	ax #	ŧ;					12				1							
FOR LAB USE ONLY	U				MAT	RIX		PI	RESI	ERV	4	SAMPLI	NG	7						İ					
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	nd Damages Cardinal's liability and client's exclusive remedy for a ing those for negligence and any other cause whatsoever shall be														ıble										
service. In no event shall C	Cardinal be liable for incidental or consequental damages, including log out of or related to the performance of services hereunder by C	withou	ut licroita	ition, bus	inoss inte	olqun	ns, los:	a ol use	a, or lo	as of p	profit	is incurred by o	ilent, ils subsidia	anes,											
Relinquished B	y: Date/ 2/11	Re	ceiv	red B	у:	ζ.)						Phone Re Fax Resul		☐ Yes		No No		Phone Fax #:						
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Sampler - UPS - Bus - Other:

#26

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476 Company Name: Jalemilett BILL TO ANALYSIS REQUEST Project Manager: P.O. #: Company: المراز Company State: 107 Zip: 18210 Attn: Address: Project Owner: Devon it never City: State: Zip: Project Location: Phone #: Sampler Name: Fax #: FOR LAB USE ONLY MATRIX PRESERV. SAMPLING Sample I.D. Lab I.D. /000L ER: ACID/BASE SLUDGE OTHER: 4101321-DATE TIME 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 good by the client for the

PLEASE NOTE: Liability and Damages Cardinals liability and clearis's exclusive remedy for any darm arising whether based in contract or rich, shall be limited to the amount paid by the clearl for the analyses. All cleams including those for negligence and any other cause whatsoever shall be deemed waved unless made in whiting and received by Cardinal within 30 days after completion of the applicable service. In no word shall Cardinal be liabile for incidental or consequental damages, including without limitation business interrutions, loss of use, or loss of profits incurred by client, its subsidiaries.

attitiates or successors arising out of or related to the portermance	of services hereunder by C	Cardinal regardless of whether such rlaim	is based upon any of the above stated r	easons or otherwse			
Relinquished By:	Date/	Received By: , ,	7	Phone Result:	☐ Yes		Add'l Phone #:
1 1 1 1 1 1	0/2////	I II AM	A	Fax Result:	☐ Yes	□ No	Add'l Fax #:
Kincherly Welson	12mg; 20	1/2/1/ / (BB		REMARKS:			
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Delivered By: (Circle One)		() Sample Condit	on CHECKED BY:	1			
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Sampler - UPS - Bus - Other:		// リリ 日Yes 日Ye	1 (.1 /17/52	1			
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(505) 393-2326 FAX (505) 393-247	6															
Company Name	" SalamIIPE				1	BILL TO	C Serve			A	NALY	SIS RE	QUES	ST.			
Project Manage					P.O. #:												
Address: 40	8 W. Jepas				Company	Jakon	ILPE-		ļ						İ		
City: Alte	12 State: 1/17 746-8768 Fax#: 675	Zij	o: 🛭	18210	Attn:	a d'										Ì	
Phone #: 575	5746-8768 Fax #: 675	-, <i>i</i>	W	6-8705	Address:			2			ļ						
Project #: 7C	0774.012.01 Project Owne Ono Tala 14 Judenal	r: /) P.	Con Energy	City:			. 3					1 1		Ì	İ	
Project Name:	On Ida 14 Juderal	A.	10 8	0 1	State:	Zip:		13	ļ		ļ						
Project Locatio	n: 14-T345-R29E Mike Stubble siale				Phone #:			100						.			
Sampler Name:	Mike Stabble siale	محمر بمد			Fax #:			67.4									
FOR LAB USE ONLY	U	1.	T	MATRIX	PRESE	RV. SAMPL	ING	1	i !					.		- 1	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	N N	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL	OTHER.	TIME	408									
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analyses All claums include service in no event shall C	nd Damages Cardinal's liability and client's exclusive rumedy for a ng those for negligence and any other cau-e whatsoever shall be arcinal be liable for incidental or consequental damages, including no cut of or intalted to the performance of services hereunder by C	es ware state te	ed unless made in writing and ation, business interactions,	l received by Cardi ass of use, or loss	nal within 30 days all of profits incurred by	er completion of th client, its subsidiar	ie applicab! ries,	e									
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Time: Delivered By: (Circle One) Sample Condition Cool Intact

Yes Yes

No No

REMARKS:

Sampler - UPS - Bus - Other:

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

- ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

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Phone #: 575-746-8768 Fax #: 575	- 7	16	-200	05	-	Ad	dres	ss:				_ 、	0											
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analyses. All claims, including those for negligence and any other cause whatsoever shall be a service. In no event shall Cardinal be liable for incidental or consequental damages, including	laemed	l waived	d untes	s made in w	riling an	d recei	wed by	Cardii	nat w	ıllkın 30 days alt	er completion of	f the ap	plicable	1										
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#26

ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

Company Name	: Ballemfall]; <u> </u>	BI.	LL TO	1. 11.				ANAL	YSIS	RE	QUES	ST		 	
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	d Damages, Cardinal's hability and client's exclusive remedy for a ng those for negligence and any other couse whatsoever shall be								ð								
	ardinal be liable for incidental or consequental damages, including ng out of or retated to the performance of services bereunder, by C																
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Sampler - UPS	- Bus - Other:	4.5%	Cool Intact Yes	ś	4	Ŧ'											

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- ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: 201021 BILLTO ANALYSIS REQUEST Project Manager: P.O. #: Company: Daloz/1PE Address: 408 Attn: Fax #: \$3.575 - 746.8905 Address: Project #: 700 794,012.01 Project Owner: Del'217 City: Project Name: Oro ilda 14 Jedesal No. 10 Project Location: 14-T245-R29E State: Zip: Phone #: Sampler Name: MIR . Stubble Kieler Fax #: FOR LAB USE ONLY SAMPLING MATRIX PRESERV. (G)RAB OR (C)OMP ACID/BASE; ICE / COOL OTHER: Lab I.D. Sample I.D. SLUDGE 1110132 DATĘ TIME analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in willing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cordinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiances, affiliates or successors arising out of or related to the performance of services becender by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise ☐ Yes ☐ No Add'l Phone #: Relinquished By: Received By: Phone Result: ☐ Yes ☐ No Add'l Fax #: Fax Result: REMARKS: Prin Dulis Relinquished By: Received By: Time:

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

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

#26

Sample Condition
Cool Intact
Yes Yes
Volume