

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

408 West Texas Ave. Artesia, New Mexico 88210

> Phone 575.746.8768 Fax 575.746.8905

Subject: ARTESIA

Soil Assessment and Remediation Work Plan Lime Rock Resources ASAU Injection Line

Dear Mr. Bratcher,

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

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

**OKLAHOMA CITY** 7700 North Hudson Avenue Suite IO Oklahoma City, Oklahoma 73116 Phone 405.486.7030 Fax 806.467.0622

> SAN ANTONIO II Commercial Place Schertz, Texas 78/54 Phone 210.265.8025 Fax 210.568.2191

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

## **Incident Date**

The release was discovered July 17, 2013 at 8:00 am

### **Background Information**

The ASAU Injection Line release is located approximately eight (8) miles southeast of Artesia, New Mexico. The legal location for the site is Unit letter K of Section 11, Township 18 South, Range 26 East. More specifically the latitude and longitude for the release are 32.75924 North and -104.35247 West. A site plan is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of the Reagan loam with 0 to 1 percent slopes. According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Artesia group shell faces forming a broad South South-East trending outcrop from Glorieta to the Artesia area. Drainage courses in this area are normally dry. Ground water in the project vicinity is approximately 30feet below ground surface (bgs), according to the New Mexico Office of the State Engineer database. See Appendix II for the referenced groundwater data.

<100'

<1000'

>1000'

The ranking for this site is **20** based on the following: ENVIRONMENTAL CONSULTING **ENGINEERING** Depth to ground water DRILLING Wellhead Protection Area CONSTRUCTION Distance to surface water body SPILL MANAGEMENT GENERAL CONTRACTING

Toll Free: 866,742,0742 www.talonlpe.com Mr. Mike Bratcher **NMOCD District 2** 811 S. 1<sup>st</sup> Street Artesia, NM 88210

RECEIVEL SEP 03 2013

## **Incident Description**

An injection line running under an alfalfa field leaked causing a release of approximately 12bbls of produced water. Talon/LPE was contacted to assess and contain the fluid. Talon personnel collected soil samples and constructed berms to contain the remaining fluid. The impacted area measured approximately 74x94 feet at its widest point and had a 25-foot wide flow path that stretched approximately 85-feet south of the main pooling area. See the site plan is presented in Appendix I

#### Laboratory Results

Sample ID	Depth	BTEX	Chlorides	TPH (mg/kg)	TPH (mg/kg)
-	(feet)	(mg/kg)	(mg/kg)	GRO	DRO
S-1	0	1020	32000	6670	8730
S-1	0.5	18.9	21600	59.6	101
S-1	1		8800	341	607
S-1	2		3560	1720	2150
S-1	3		10300	69.9	116
S-1	6		921*		
<b>S-1</b>	9		310		
S-1	10		208		
S-1	12		32		an a
S-2	0	ND	12800	ND	ND
<b>.S-2</b>	0.5	ND	8800	ŃD	ND
S-2	1		1920		
S-2	2		288		
S-2	3		224		
S-3	0	ND	32	ŇD	ND
S-3	0.5	ND	80	ND	ND
S-4	0	ND	32	ND	ND
S-4	1	ND	16	ND	ND

See Appendix III for complete report of laboratory results.

(--) Analyte not tested

(ND) Analyte not detected

(\*) Field Titration Data

Based upon the site ranking of **20**, NMOCD Recommended Remedial Action Levels (RRAL's) for this project is 50 mg/kg for BTEX, 10 mg for Benzene, and 100 mg/kg for TPH.

### **Proposed Remedial Actions**

- The area in the vicinity to S-1 will be excavated to a depth of 5-feet bgs.
- The areas in the vicinity of S-2 will be excavated to a depth of 1.5-feet bgs.
- Soil samples will be taken and tested for chlorides to confirm that all of the impacted soil was removed.
- The excavated areas will be backfilled with topsoil.
- A final report documenting all activities, laboratory data, and a final C-141 will be submitted to the NMOCD Artesia office upon completion.

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,

Sheldon Hitchcock

Environmental Scientist

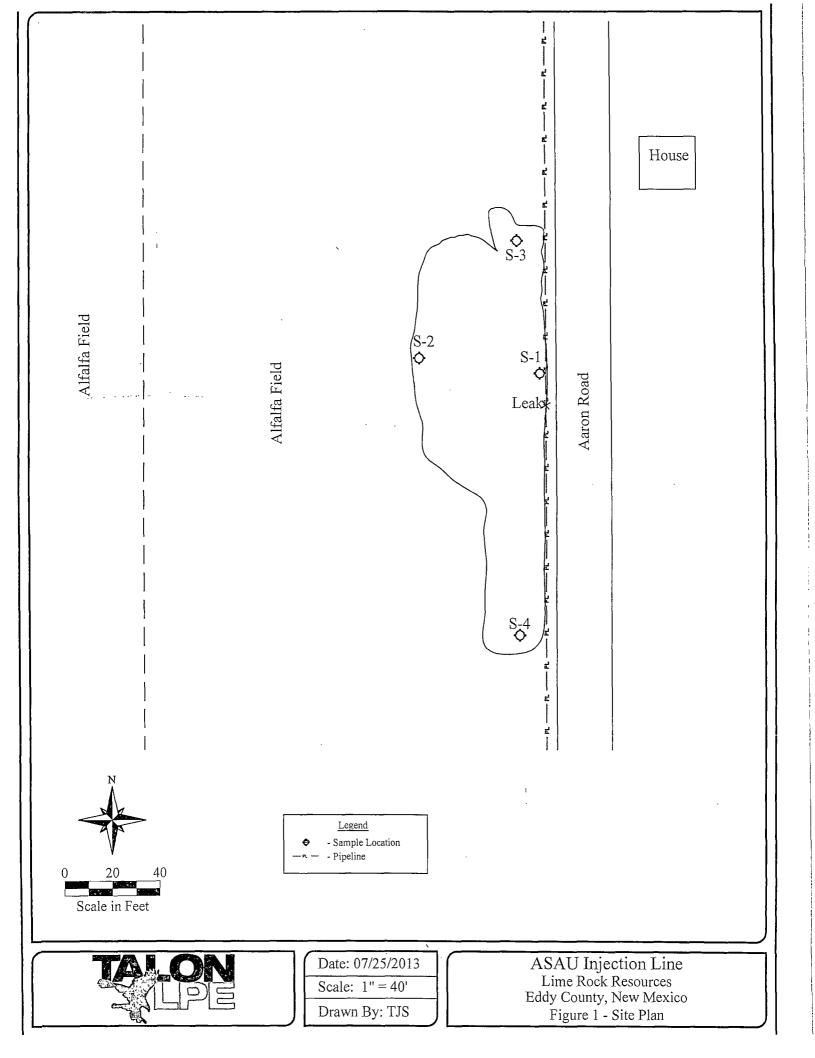
alter

David J. Adkins District Manager

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# SITE PLAN

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# GROUNDWATER DATA INITIAL C-141

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# 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)		-					2=NE : st to lar	3=SW 4=SI gest) (N	E) JAD83 UTM in me	eters)	(1	n feet)	
POD Number RA 03634	POD Sub- Code basin Co	<mark>punty</mark> ED	64		<b>4</b>			Rng 26E	<b>X</b> 560757		Distance			Water Column
RA 03639		ED						20L 26E	560555	~				
			4								515			
RA 00012		ED						26E	560858		569	600		
<u>RA 03596</u>		ED						26E	560858	11.JT	569	1736		
RA 00011		ED						26E	560054		571	1100		
RA 00011 A		ED		3	3	11	18S	26E	560054	3.22 <sup>3</sup> 2	571	1100		
RA 00012 A		ED	3	3	4	11	18S	26E	560757	3624430* 🚱	587	600		
RA 03731		ED	1	1	1	14	18S	26E	559953	3624223* 🎧	871	120	30	90
RA 02389		ED	1	2	2	15	18S	26E	559551	3624221* 🌍	1152	209		
RA 01288		ED	3	3	3	02	18S	26E	559950	3626045* 🚱	1219	186	50	136
RA 01288 CLW319630	0	ED	3	3	3	02	18S	26E	559950	3626045* 🚱	1219	200		
RA 03600	•	ED	2	3	2	14	18S	26E	560956	3623821* 🚱	1221	955		
RA 02122		ED	1	2	2	10	18S	26E	559548	3625839* 🌍	1281	115	15	100
RA 03756		ED	1	1	4	10	18S	26E	559147	3625027* 🎧	1312	148	55	93
RA 01171		ED	1	3	4	10	18S	26E	559149	3624622* 🚱	1343	864	8	856
RA 02432		ED	2	3	1	12	18S	26E	561764	3625443* 🚱	1403	100		
RA 02808		ED		4	4	03	18S	26E	559648	- 3626145* 🚱	1454	100	30	70
										_ Avera	ige Depth to	Water	: 31	feet
											Minimum			feet
											Maximum	Depth:	55	feet
Record Count: 17			• •	· •-										te via date any
Basin/County Searce County: Eddy	:h:													
UTMNAD83 Radius	Search (in meter	s):												
Easting (X): 5604	456		No	rth	ing	(Y)	36	24935		Radius	<b>:</b> 1500			
*UTM location was derived	from PLSS - see He	elp												

\*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.

District I 1625 N. French District II 811 S. First St., District III 1000 Rio Brazo District IV	Dr., Hobbs, Artesia, NM	NM 88249UL 88210	232 D AR	UI3 St Energy Mi TESIA Oil (	inerals	New Mexi and Natura vation Div	l Resources	Subm	it 1 Copy	to appropria	Form C-1 evised August 8, 2
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Facility Na	me ASAU	Injection Li	ne	· · · · · · · · · · · · · · · · · · ·		Facility Typ	e Flow Line		-		· · · · · · · · · · · · · · · · · · ·
Surface Ow	ner Private	3		Mineral (	Owner S	State			API No		
	-			LOC	ATIO	N OF REI	LEASE				
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/W	est Line	County	
K	11	18S	26E							Eddy	
			L	atitude <u>32.759</u>	24	Londitur	ic -104.35247			·	•
							-				
Type of Rele	ase Produce	d Water	i	NA)	UKE	OF REL	EASE Release 12 bbls		Volume I	- Recovered 0	<u> </u>
Source of Re						Date and H	lour of Occurren	ice	Date and	Hour of Dis	covery
Was Immedi	ate Notice (	Given?	· · · · · · · · · · · · · · · · · · ·	<u> </u>		Unknown If YES, To		<u> </u>	7/17/201	3 @ 8:00 an	1
			Yes [	] No 🛛 Not R	cquired						
Yes No 🛛 Not Rea											
By Whom?		1 - 10 <sup></sup>	<u> </u>			Date and H					
By Whom? Was a Water If a Waterco	course Read		] Yes 🛛				iour Diume Impacting	, the Water	rcourse.		<u>_</u>
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# LABORATORY RESULTS

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July 24, 2013

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

RE: ASAU INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 07/17/13 15:20.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes are specified analytes are specified analytes and water and water and water and water analytes are specified anal

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,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	07/17/2013	Sampling Date:	07/17/2013
Reported:	07/24/2013	Sampling Type:	Soil
Project Name:	ASAU INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	701307.049.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: S/1 - O" (H301674-01)

BTEX 8021B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	155	5.00	07/19/2013	ND	1.92	96.0	2.00	5.68	
Toluene*	340	5.00	07/19/2013	ND	1.91	95.7	2.00	5.61	
Ethylbenzene*	177	5.00	07/19/2013	ND	2.03	102	2.00	5.15	
Total Xylenes*	343	15.0	07/19/2013	ND	6.17	103	6.00	5.53	
Total BTEX	1020	30.0	07/19/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.1	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	′kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32000	16.0	07/22/2013	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	6670	100	07/19/2013	ND	175	87.6	200	5.96	
DRO >C10-C28	8730	100	07/19/2013	ND	180	90.1	200	8.88	
Surrogate: 1-Chlorooctane	160	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	316	% 63.6-15	4						

#### **Cardinal Laboratories**

\*=Accredited Analyte

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Celing D. Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	07/17/2013	Sampling Date:	07/17/2013
Reported:	07/24/2013	Sampling Type:	Soil
Project Name:	ASAU INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	701307.049.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: S/1 - 6" (H301674-02)

BTEX 8021B	mg/	'kg	Analyze	d By: DW					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.51	0.050	07/19/2013	ND	1.92	96.0	2.00	5.68	
Toluene*	5.22	0.050	07/19/2013	ND	1.91	95.7	2.00	5.61	
Ethylbenzene*	3.42	0.050	07/19/2013	ND	2.03	102	2.00	5.15	
Total Xylenes*	7.74	0.150	07/19/2013	ND	6.17	103	6.00	5.53	
Total BTEX	18.9	0.300	07/19/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	131 9	% 89.4-12	б						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21600	16.0	07/22/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	59.6	10.0	07/19/2013	ND	175	87.6	200	5.96	
DRO >C10-C28	101	10.0	07/19/2013	ND	180	90.1	200	8.88	
Surrogate? 1-Chlorooctane	82.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	94.2	% 63.6-15	4						

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#### \*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	07/17/2013	Sampling Date:	07/17/2013
Reported:	07/24/2013	Sampling Type:	Soil
Project Name:	ASAU INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	701307.049.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: S/2 - O" (H301674-03)

:

BTEX 8021B	mg/	'kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2013	ND	1.92	96.0	2.00	5.68	
Toluene*	<0.050	0.050	07/19/2013	ND	1.91	95.7	2.00	5.61	
Ethylbenzene*	<0.050	0.050	07/19/2013	ND	2.03	102	2.00	5.15	
Total Xylenes*	<0.150	0.150	07/19/2013	ND	6.17	103	6.00	5.53	
Total BTEX	<0.300	0.300	07/19/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12800	16.0	07/22/2013	ND	432	108	400	3.77	
ТРН 8015М	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/19/2013	ND	175	87.6	200	5.96	
DRO >C10-C28	<10.0	10.0	07/19/2013	ND	180	90.1	200	8.88	
Surrogate: 1-Chlorooctane	82.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	99.3	% 63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	07/17/2013	Sampling Date:	07/17/2013
Reported:	07/24/2013	Sampling Type:	Soil
Project Name:	ASAU INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	701307.049.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: S/2 - 6" (H301674-04)

BTEX 8021B	mg/	/kg	Analyze	d By: DW			<u>-</u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2013	ND	1.92	96.0	2.00	5.68	
Toluene*	<0.050	- 0.050	07/24/2013	ND	1.91	95.7	2.00	5.61	
Ethylbenzene*	<0.050	0.050	07/24/2013	ND	2.03	102	2.00	5.15	
Total Xylenes*	<0.150	0.150	07/24/2013	ND	6.17	103	6.00	5.53	
Total BTEX	<0.300	0.300	07/24/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 5	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	07/22/2013	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/19/2013	ND	175	87.6	200	5.96	
DRO >C10-C28	<10.0	10.0	07/19/2013	ND	180	90.1	200	8.88	
Surrogate: 1-Chlorooctane	79.7	% 65.2-14	0		•				
Surrogate: 1-Chlorooctadecane	91.7	% 63.6-15	4						

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#### \*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	07/17/2013	Sampling Date:	07/17/2013
Reported:	07/24/2013	Sampling Type:	Soil
Project Name:	ASAU INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	701307.049.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: S/3 - O'' (H301674-05)

BTEX 8021B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2013	ND	2.02	101	2.00	10.3	
Toluene*	<0.050	0.050	07/22/2013	ND	2.03	102	2.00	10.8	
Ethylbenzene*	<0.050	0.050	07/22/2013	ND	2.16	108	2.00	10.9	
Total Xylenes*	<0.150	0.150	07/22/2013	ND	6.53	109	6.00	11.6	
Total BTEX	<0.300	0.300	07/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 %	6 89.4-12	6			<u> </u>			
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/22/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/19/2013	ND	175	87.6	200	5.96	
DRO >C10-C28 ·	<10.0	10.0	07/19/2013	ND	180	90.1	200	8.88	
Surrogate: 1-Chlorooctane	74.6 9	% 65.2-14	0				<u> </u>		
Surrogate: 1-Chlorooctadecane	89.5 9	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager

Page 6 of 11



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Received:	07/17/2013		Sampling Date:	07/17/2013
Reported:	07/24/2013		Sampling Type:	Soil
Project Name:	ASAU INJECTION LINE		Sampling Condition:	Cool & Intact
Project Number:	701307.049.01		Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN	~		

#### Sample ID: S/3 - 6" (H301674-06)

BTEX 8021B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0,050	0.050	07/22/2013	ND	2.02	101	2.00	10.3	
Toluene*	<0.050	0.050	07/22/2013	ND	2.03	102	2.00	10.8	
Ethylbenzene*	<0.050	0.050	07/22/2013	ND	2.16	108	2.00	10.9	
Total Xylenes*	<0.150	0.150	07/22/2013	ND	6.53	109	6.00	11.6	
Total BTEX	<0.300	0.300	07/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 9	6 89.4-12	6					-	
Chloride, SM4500Cl-B	· mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/22/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/19/2013	ND	175	87.6	200	5.96	
DRO >C10-C28	<10.0	10.0	07/19/2013	ND	180	90.1	200	8.88	
Surrogate: 1-Chlorooctane	79.5	65.2-14	0						
Surrogate: 1-Chlorooctadecane	96.0	% 63.6-15	. 1						

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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:	07/17/2013	Sampling Date:	07/17/2013
Reported:	07/24/2013	Sampling Type:	Soil
Project Name:	ASAU INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	701307.049.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: S/4 - O" (H301674-07)

BTEX 8021B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	, RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2013	ND	2.02	101	2.00	10.3	
Toluene*	<0.050	0.050	07/22/2013	ND	2.03	102	2.00	10.8	
Ethylbenzene*	<0.050	0.050	07/22/2013	ND	2.16	108	2.00	10.9	
Total Xylenes*	<0.150	0.150	07/22/2013	ND	6.53	109	6.00	11.6	
Total BTEX	<0.300	0.300	07/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/22/2013	ND	432	108	400	3.77	
ТРН 8015М	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/22/2013	ND	184	91.8	200	1.99	
DRO >C10-C28	<10.0	10.0	07/22/2013	ND	193	96.6	200	3.15	
Surrogate: 1-Chlorooctane	91.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	110 9	63.6-15	4						

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Celey D.Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	07/17/2013	Sampling Date:	07/17/2013
Reported:	07/24/2013	Sampling Type:	Soil
Project Name:	ASAU INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	701307.049.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: S/4 - 6" (H301674-08)

BTEX 8021B	mg/	kg	Analyze	d By: DW	-				· · · ·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2013	ND	2.02	101	2.00	10.3	
Toluene*	<0.050	0.050	07/22/2013	ND	2.03	102	2.00	10.8	
Ethylbenzene*	<0.050	0.050	07/22/2013	ND	2.16	108	2.00	10.9	
Total Xylenes*	<0.150	0.150	07/22/2013	ND	6.53	109	6.00	11.6	
Total BTEX	<0.300	0.300	07/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/22/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS	-				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/22/2013	ND	184	91.8	200	1.99	
DRO >C10-C28	<10.0	10.0	07/22/2013	ND	193	96.6	200	3.15	
Surrogate: 1-Chlorooctane	79.3	65.2-14	0						
Surrogate: 1-Chlorooctadecane	94.2	% 63.6-15	4						

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\*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

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\*=Accredited Analyte

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 10 of 11

# Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 11 of 11

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476			
Company Name: Tglon/LPE	BILL TO	ANALYSIS REQUEST	
Project Manager: O. Alk'As	P.O. #:		
Address: 408 W. Texq5 Ave.	Company: Talon/LPE		
Sity: Artesia State: NMZip: 88210	Atin:		
Phone #: 575-746-8768 Fax #: 575-746-8905	Address:		
Project *: 701307.049.01 Project Owner: Line Rock	City:		
Project Name: ASAU Tryjection Line	State: Zin:		
Project Location:	Phone #:		
Sampler Name: Sheldon Hitchcock	Fax #:		
FOR LAB USE ONLY MATRIX	PRESERV SAMPLING		
(C)OMP ERS ATER			
Lab I.D. Sample I.D. BUNNER	2001 SASE		
Tap I.D. Sample I.D. LOLOLA # CONTAINERS # CONTAINERS BSOIL BLUDGE	OTHER: ACIDIBASE ICE/COOL		
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4 5/2 - 6 6 1 /	11 10:10		
5 \$/3-0" 6 1	11 10:27		
10 5/2-6" 61	11 11 10:30		
7 5/4-0" 61	1 11 10:40		
8 3/4-6" 611	1 11 10:42		
LEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive rearedy for any claim utsing whethar based in contract			
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fillates or successors articling out of or related to the performance of services hereunder by Cardinel, repardies of whether such claim Relinquished By: Date:	Is based yoon any of the above stated reasons or otherwise Phone Res		
	Fax Resul	uit: 🗌 Yes 🗌 No Add'l Fax #:	····
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Saul to 13:20 101	lonson		
Delivered By: (Circle One) Sample Condit	ion CHECKED BY:		
Sampler - UPS - Bus - Other:			
* Cardinal cannot accept verbal chapped; Blocco fay written chapped to	EDE 202 2474		

T Cardinal cannot accept verbal changes. Please fax written changes to 505-393-242



August 08, 2013 DAVID ADKINS TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM-88210

RE: ASAU INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 08/02/13 8:00.

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 <a href="http://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 6



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

	· -		
Received:	08/02/2013	Sampling Date:	07/30/2013
Reported:	08/08/2013	Sampling Type:	Soil
Project Name:	ASAU INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	701307.049.01	Sample Received By:	Daniel Wade
Project Location:	NOT GIVEN		

#### Sample ID: S-1 1' (H301819-01)

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	8800	16.0	08/05/2013	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS	·				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	341	10.0	08/06/2013	ND	188	93.9	200	3.98	
DRO >C10-C28	607	10.0	08/06/2013	ND	209	104	200	5.31	
Surrogate: 1-Chlorooctane	108	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	121	% 63.6-15	4						

#### Sample ID: S-1 2' (H301819-02)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3560	16.0	08/05/2013	ND	432	108	400	3.64	
ТРН 8015М	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1720	50.0	08/06/2013	ND	188	93.9	200	3.98	
DRO >C10-C28	2150	50.0	08/06/2013	ND	209	104	200	5.31	
Surrogate: 1-Chlorooctane	152 %	65.2-14	0						
Surrogate: I-Chlorooctadecane	143 %	63.6-15	4						

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

Received:	08/02/2013	Sampling Date:	07/30/2013
Reported:	08/08/2013	Sampling Type:	Soil
Project Name:	ASAU INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	701307.049.01	Sample Received By:	Daniel Wade
Project Location:	NOT GIVEN		

#### Sample ID: S-1 3' (H301819-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP		·····			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10300	16.0	08/05/2013	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS		· · · · · · · · · · · · · · · · · · ·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	69.9	10.0	08/06/2013	ND	188	93.9	200	3.98	
DRO >C10-C28	116	10.0	08/06/2013	ND	209	104	200	5.31	
Surrogate: 1-Chlorooctane	91.3	% 65.2-14	0	áre -					
Surrogate: 1-Chlorooctadecane	111 !	% 63.6-15	4						

#### Sample ID: S-2 1' (H301819-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	08/05/2013	ND	432	108	400	3.64	

#### Sample ID: S-2 2' (H301819-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/05/2013	ND	432	108	400	3.64	

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Celuz D. Kune

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/02/2013	Sampling Date:	07/30/2013
Reported:	08/08/2013	Sampling Type:	Soil
Project Name:	ASAU INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	701307.049.01	Sample Received By:	Daniel Wade
Project Location:	NOT GIVEN		

#### Sample ID: S-2 3' (H301819-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/05/2013	ND	432	108	400	3.64	

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Celuz D. Kune

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 6



#### **Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

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#### \*=Accredited Analyte

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Celey Di Keine

Celey D. Keene, Lab Director/Quality Manager

# Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 6 of

101 East Mariand, Hobbs, NM 88249 (575) 393-2326 FAX (575) 393-2476	•	
Company Name: Talon/LPE	BILL TOLLER	ANALYSIS REQUEST
Project Manager: A G A U	P.O. #:	
Address: 408 W. Texq 5 Ave.	Company: Talon/LPE	
Silv: Artesig State: NM Zip: 88210	Attn:	
Phone #: 575-746-8768 Fax #: 575-746-8905	Address:	
Project #: 701307.044.01 Project Owner: Lime ROCK	City:	
Project Name: ASAU injection Line	State: Zip:	
Project Location:	Phone #:	
Sampler Name: Sheldon Hitchcoch	Fax #:	
FOR LAS USE ONLY	PRESERV. SAMPLING	
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Sampler - UPS - Bus - Other:

Cool Intact



August 20, 2013

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

RE: ASAU INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 08/19/13 15:12.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	08/19/2013	Sampling Date:	08/19/2013
Reported:	08/20/2013	Sampling Type:	Soil
Project Name:	ASAU INJECTION LINE	Sampling Condition:	** (See Notes)
Project Number:	701307.049.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: S-1 9' (H301975-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	08/20/2013	ND	416	104	400	0.00	

#### Sample ID: S-1 10' (H301975-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/20/2013	ND	416	104	400	0.00	

#### Sample ID: S-1 12' (H301975-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/20/2013	ND	416	104	400	3.77	

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Celez 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 SM4500CI-B does not require samples be received at or below $6^{\circ}C$
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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Celing D. Kune

Celey D. Keene, Lab Director/Quality Manager

**CARDINAL** Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

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