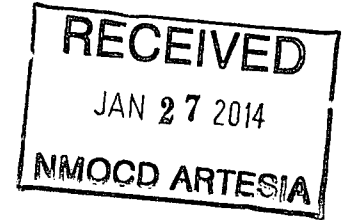




January 16, 2014

Mr. Mike Bratcher
NMOCD District 2
811 S. 1st Street
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 575.748.8905

HOBBS
318 East Taylor Street
Hobbs, New Mexico 88241
Phone 505.393.4261
Fax 505.393.4658

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

OKLAHOMA CITY
7700 North Hudson Ave
Suite 10
Oklahoma City, Oklahoma 73116
Phone 405.486.7030
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SAN ANTONIO
13111 Lookout Way
San Antonio, TX 78233
Phone 210.265.8025
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ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Toll Free: 866.742.0742
www.talonlpe.com

Subject: **Soil Assessment and Remediation Work Plan**
Oxy Permian
Government S Com No. 9
30-015-28996

Dear Mr. Bratcher,

Oxy Permian has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the referenced Government S Com No. 9 release. The results of our soil assessment and proposed remediation activities consist of the following:

Incident Date

December 29, 2013

Background Information

The Government S Com No. 9 release is located approximately thirty-two (32) miles southeast of Artesia, New Mexico. The legal location for the site is Section 3, Township 20 South and Range 28 East in Eddy County, New Mexico. More Specifically the latitude and longitude for the release are 32.60794 North and - 104.15824 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 Pajarito loamy fine sands with 0 to 3 percent slopes, eroded. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology, Quaternary in age, is comprised of eolian sands and piedmont deposits which include silty soils underlain with hard caliche. Drainage courses in this area are normally dry. The New Mexico State Engineer web site indicates the nearest ground water data to be in S36-T19S-R28E. The ground water in Section 36 is reported to be a depth of 75' below ground surface (bgs). The referenced groundwater data is presented in Appendix I.

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

Depth to ground water	50-100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

Incident Description

A leak was found on a 4-inch poly flow line causing a release of 70 barrels of produced water. The well was shut-in, the line repaired and brought back into service. A vacuum truck was immediately called to the location and 2 barrels of fluids were recovered

Actions Taken

On December 31, 2013 Talon/LPE mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected utilizing a hand auger to a depth of 2-feet below ground surface. Soil sample locations are illustrated on the attached site plan.

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, and volatile organics (BTEX) using EPA Method 8021B. The chloride samples were analyzed per method SM4500Cl-B. The complete laboratory reports are attached as Appendix II.

Laboratory Results

January 8, 2014

<u>Sample</u>	<u>Depth</u>	<u>BTEX</u>	<u>TPH</u>	<u>Chlorides (mg/kg)</u>
S-1	0'	<0.300	<10	4320
	1'	<0.300	<10	3920
	1.5' refusal	--	--	928
S-2	0'	<0.300	169	4360
	1'	<0.300	<10	2240
	2'	--	--	272
S-3	0'	<0.300	<10	4880
	1'	<0.300	<10	160
	2'	--	--	16
S-4	0'	<0.300	<10	<16
S-5	0'	<0.300	<10	<16
S-6	0'	<0.300	<10	3920
	1'	<0.300	<10	32
	2'	--	--	32

<u>Sample</u>	<u>Depth</u>	<u>BTEX</u>	<u>TPH</u>	<u>Chlorides (mg/kg)</u>
S-7	0'	<0.300	139	4800
	1' refusal	<0.300	38.8	3760
S-8	0'	<0.300	434	2120
	1'	<0.300	<10	160
	2'	--	--	80

--Analyte Not Tested

Proposed Remedial Actions

- The impacted area in the vicinity of sample points S-1 and S-2 will be excavated to a depth of 1.5 feet deep. The area in the vicinity of S-3, S-6 and S-8 will be excavated to a depth of 0.5-feet deep and in the vicinity of sample point S-7, the excavation will be completed to a depth of 1-foot deep.
- The impacted soil will be transported to NMOCD approved solid waste disposal facility Lea Land, LLC.
- The excavated areas will be backfilled using clean material, backhauled from Lea Land and seeded using the recommended BLM seed mixture for the area.
- A final report documenting all field activities and lab reports will be provided to the NMOCD Artesia office including 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.

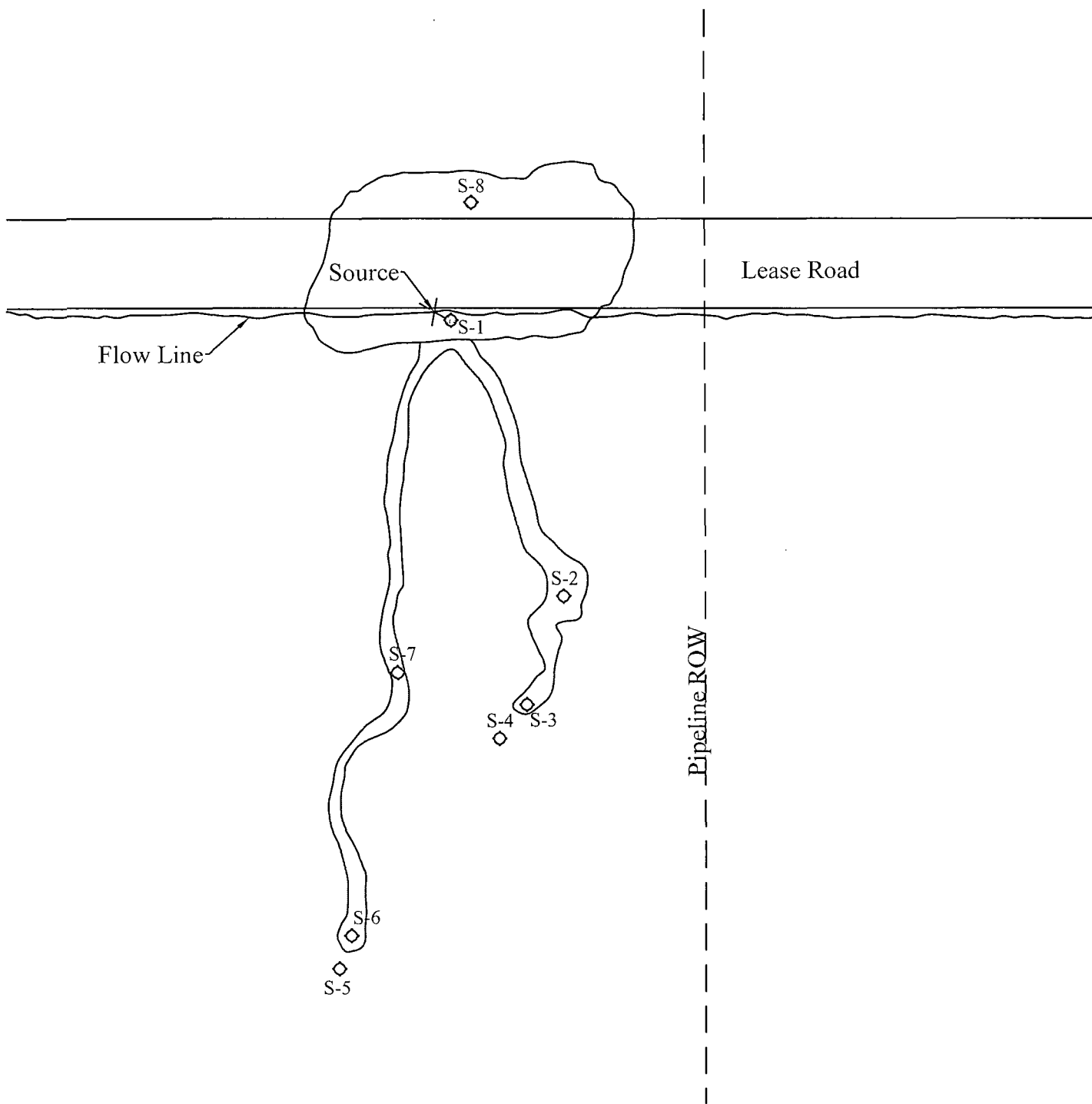
Respectfully submitted,

TALON/LPE


Kimberly M. Wilson
Project Manager


David J. Adkins
District Manager

SITE MAP



NTS
Scale in Feet

Legend	
◇	- Sample Location
—	- Pipeline



Date: 01/13/2014

Scale: NTS

Drawn By: TJS

Government S Com #9
Oxy - NM - North
Eddy County, New Mexico
Figure 1 - Site Plan

APPENDIX I
GROUNDWATER DATA



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)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00926			ED	4	1	1	01	20S	28E	580818	3607979	1789	300		
CP 01231 POD1			ED	4	4	2	36	19S	28E	582311	3609372	3441	300	75	225
CP 00525			ED	3	2	1	14	20S	28E	579656	3604847*	3472	171	140	31

Average Depth to Water: **107 feet**

Minimum Depth: **75 feet**

Maximum Depth: **140 feet**

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 579052

Northing (Y): 3608267

Radius: 4000

*UTM location was derived from PLSS - see Help

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

APPENDIX II
LABORATORY RESULTS



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 08, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: GOVERNMENT S COM #9

Enclosed are the results of analyses for samples received by the laboratory on 01/02/14 12:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (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. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 01/02/2014
Reported: 01/08/2014
Project Name: GOVERNMENT S COM #9
Project Number: 700608.341.01
Project Location: NONE GIVEN

Sampling Date: 12/31/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 0' (H400009-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2014	ND	1.88	93.9	2.00	2.36	
Toluene*	<0.050	0.050	01/03/2014	ND	1.86	92.8	2.00	1.31	
Ethylbenzene*	<0.050	0.050	01/03/2014	ND	1.82	91.1	2.00	0.763	
Total Xylenes*	<0.150	0.150	01/03/2014	ND	5.40	90.0	6.00	0.486	
Total BTEX	<0.300	0.300	01/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	01/08/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/02/2014	ND	200	100	200	6.88	
DRO >C10-C28	<10.0	10.0	01/02/2014	ND	208	104	200	0.0860	

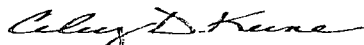
Surrogate: 1-Chlorooctane 90.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.4 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 01/02/2014
Reported: 01/08/2014
Project Name: GOVERNMENT S COM #9
Project Number: 700608.341.01
Project Location: NONE GIVEN

Sampling Date: 12/31/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 1' (H400009-02)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2014	ND	1.88	93.9	2.00	2.36	
Toluene*	<0.050	0.050	01/03/2014	ND	1.86	92.8	2.00	1.31	
Ethylbenzene*	<0.050	0.050	01/03/2014	ND	1.82	91.1	2.00	0.763	
Total Xylenes*	<0.150	0.150	01/03/2014	ND	5.40	90.0	6.00	0.486	
Total BTX	<0.300	0.300	01/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	01/08/2014	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/02/2014	ND	200	100	200	6.88	
DRO >C10-C28	<10.0	10.0	01/02/2014	ND	208	104	200	0.0860	

Surrogate: 1-Chlorooctane 87.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.9 % 63.6-154

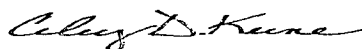
Sample ID: S-1 1.5' REFUSAL (H400009-03)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	01/08/2014	ND	416	104	400	3.77	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 01/02/2014
Reported: 01/08/2014
Project Name: GOVERNMENT S COM #9
Project Number: 700608.341.01
Project Location: NONE GIVEN

Sampling Date: 12/31/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 0' (H400009-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2014	ND	1.88	93.9	2.00	2.36	
Toluene*	<0.050	0.050	01/03/2014	ND	1.86	92.8	2.00	1.31	
Ethylbenzene*	<0.050	0.050	01/03/2014	ND	1.82	91.1	2.00	0.763	
Total Xylenes*	<0.150	0.150	01/03/2014	ND	5.40	90.0	6.00	0.486	
Total BTEX	<0.300	0.300	01/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4360	16.0	01/08/2014	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/02/2014	ND	200	100	200	6.88	
DRO >C10-C28	169	10.0	01/02/2014	ND	208	104	200	0.0860	

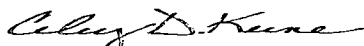
Surrogate: 1-Chlorooctane 95.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.0 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 01/02/2014
 Reported: 01/08/2014
 Project Name: GOVERNMENT S COM #9
 Project Number: 700608.341.01
 Project Location: NONE GIVEN

 Sampling Date: 12/31/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-2 1' (H400009-05)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2014	ND	1.88	93.9	2.00	2.36	
Toluene*	<0.050	0.050	01/03/2014	ND	1.86	92.8	2.00	1.31	
Ethylbenzene*	<0.050	0.050	01/03/2014	ND	1.82	91.1	2.00	0.763	
Total Xylenes*	<0.150	0.150	01/03/2014	ND	5.40	90.0	6.00	0.486	
Total BTEX	<0.300	0.300	01/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	01/08/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/02/2014	ND	200	100	200	6.88	
DRO >C10-C28	<10.0	10.0	01/02/2014	ND	208	104	200	0.0860	

Surrogate: 1-Chlorooctane 97.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.2 % 63.6-154

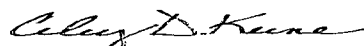
Sample ID: S-2 2' (H400009-06)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	01/08/2014	ND	416	104	400	3.77	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/02/2014	Sampling Date:	12/31/2013
Reported:	01/08/2014	Sampling Type:	Soil
Project Name:	GOVERNMENT S COM #9	Sampling Condition:	Cool & Intact
Project Number:	700608.341.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-3 0' (H400009-07)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/03/2014	ND	1.88	93.9	2.00	2.36		
Toluene*	<0.050	0.050	01/03/2014	ND	1.86	92.8	2.00	1.31		
Ethylbenzene*	<0.050	0.050	01/03/2014	ND	1.82	91.1	2.00	0.763		
Total Xylenes*	<0.150	0.150	01/03/2014	ND	5.40	90.0	6.00	0.486		
Total BTEX	<0.300	0.300	01/03/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4880	16.0	01/08/2014	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/02/2014	ND	200	100	200	6.88	
DRO >C10-C28	<10.0	10.0	01/02/2014	ND	208	104	200	0.0860	

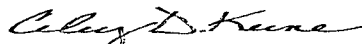
Surrogate: 1-Chlorooctane 92.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.0 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Caley D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 01/02/2014
Reported: 01/08/2014
Project Name: GOVERNMENT S COM #9
Project Number: 700608.341.01
Project Location: NONE GIVEN

Sampling Date: 12/31/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 1' (H400009-08)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2014	ND	1.88	93.9	2.00	2.36	
Toluene*	<0.050	0.050	01/03/2014	ND	1.86	92.8	2.00	1.31	
Ethylbenzene*	<0.050	0.050	01/03/2014	ND	1.82	91.1	2.00	0.763	
Total Xylenes*	<0.150	0.150	01/03/2014	ND	5.40	90.0	6.00	0.486	
Total BTEX	<0.300	0.300	01/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/08/2014	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/02/2014	ND	200	100	200	6.88	
DRO >C10-C28	<10.0	10.0	01/02/2014	ND	208	104	200	0.0860	

Surrogate: 1-Chlorooctane 95.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.0 % 63.6-154

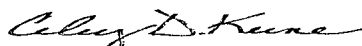
Sample ID: S-3 2' (H400009-09)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/08/2014	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/02/2014	Sampling Date:	12/31/2013
Reported:	01/08/2014	Sampling Type:	Soil
Project Name:	GOVERNMENT S COM #9	Sampling Condition:	Cool & Intact
Project Number:	700608.341.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-4 0' (H400009-10)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/03/2014	ND	1.88	93.9	2.00	2.36		
Toluene*	<0.050	0.050	01/03/2014	ND	1.86	92.8	2.00	1.31		
Ethylbenzene*	<0.050	0.050	01/03/2014	ND	1.82	91.1	2.00	0.763		
Total Xylenes*	<0.150	0.150	01/03/2014	ND	5.40	90.0	6.00	0.486		
Total BTEX	<0.300	0.300	01/03/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/08/2014	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/03/2014	ND	200	100	200	6.88		
DRO >C10-C28	<10.0	10.0	01/03/2014	ND	208	104	200	0.0860		

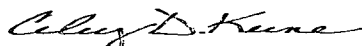
Surrogate: 1-Chlorooctane 127 % 65.2-140

Surrogate: 1-Chlorooctadecane 183 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 01/02/2014
Reported: 01/08/2014
Project Name: GOVERNMENT S COM #9
Project Number: 700608.341.01
Project Location: NONE GIVEN

Sampling Date: 12/31/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-5 0' (H400009-11)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2014	ND	1.88	93.9	2.00	2.36	
Toluene*	<0.050	0.050	01/03/2014	ND	1.86	92.8	2.00	1.31	
Ethylbenzene*	<0.050	0.050	01/03/2014	ND	1.82	91.1	2.00	0.763	
Total Xylenes*	<0.150	0.150	01/03/2014	ND	5.40	90.0	6.00	0.486	
Total BTEX	<0.300	0.300	01/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/08/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/02/2014	ND	200	100	200	6.88	
DRO >C10-C28	<10.0	10.0	01/02/2014	ND	208	104	200	0.0860	

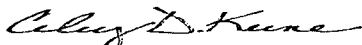
Surrogate: 1-Chlorooctane 89.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.2 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/02/2014	Sampling Date:	12/31/2013
Reported:	01/08/2014	Sampling Type:	Soil
Project Name:	GOVERNMENT S COM #9	Sampling Condition:	Cool & Intact
Project Number:	700608.341.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-6 0' (H400009-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2014	ND	1.88	93.9	2.00	2.36	
Toluene*	<0.050	0.050	01/03/2014	ND	1.86	92.8	2.00	1.31	
Ethylbenzene*	<0.050	0.050	01/03/2014	ND	1.82	91.1	2.00	0.763	
Total Xylenes*	<0.150	0.150	01/03/2014	ND	5.40	90.0	6.00	0.486	
Total BTEX	<0.300	0.300	01/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	01/08/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/02/2014	ND	200	100	200	6.88	
DRO >C10-C28	<10.0	10.0	01/02/2014	ND	208	104	200	0.0860	

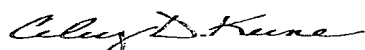
Surrogate: 1-Chlorooctane 87.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.3 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/02/2014	Sampling Date:	12/31/2013
Reported:	01/08/2014	Sampling Type:	Soil
Project Name:	GOVERNMENT S COM #9	Sampling Condition:	Cool & Intact
Project Number:	700608.341.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-6 1' (H400009-13)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/03/2014	ND	1.88	93.9	2.00	2.36		
Toluene*	<0.050	0.050	01/03/2014	ND	1.86	92.8	2.00	1.31		
Ethylbenzene*	<0.050	0.050	01/03/2014	ND	1.82	91.1	2.00	0.763		
Total Xylenes*	<0.150	0.150	01/03/2014	ND	5.40	90.0	6.00	0.486		
Total BTEX	<0.300	0.300	01/03/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/08/2014	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/02/2014	ND	200	100	200	6.88		
DRO >C10-C28	<10.0	10.0	01/02/2014	ND	208	104	200	0.0860		

Surrogate: 1-Chlorooctane 94.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.2 % 63.6-154

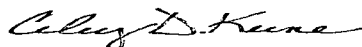
Sample ID: S-6 2' (H400009-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/08/2014	ND	416	104	400	3.77		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 01/02/2014
Reported: 01/08/2014
Project Name: GOVERNMENT S COM #9
Project Number: 700608.341.01
Project Location: NONE GIVEN

Sampling Date: 12/31/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-7 0' (H400009-15)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2014	ND	1.88	93.9	2.00	2.36	
Toluene*	<0.050	0.050	01/03/2014	ND	1.86	92.8	2.00	1.31	
Ethylbenzene*	<0.050	0.050	01/03/2014	ND	1.82	91.1	2.00	0.763	
Total Xylenes*	<0.150	0.150	01/03/2014	ND	5.40	90.0	6.00	0.486	
Total BTEX	<0.300	0.300	01/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 105 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	01/08/2014	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/03/2014	ND	200	100	200	6.88	
DRO >C10-C28	139	10.0	01/03/2014	ND	208	104	200	0.0860	

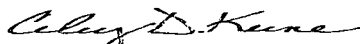
Surrogate: 1-Chlorooctane 92.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.2 % 63.6-154

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 01/02/2014
Reported: 01/08/2014
Project Name: GOVERNMENT S COM #9
Project Number: 700608.341.01
Project Location: NONE GIVEN

Sampling Date: 12/31/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-7 1' REFUSAL (H400009-16)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2014	ND	1.88	93.9	2.00	2.36	
Toluene*	<0.050	0.050	01/03/2014	ND	1.86	92.8	2.00	1.31	
Ethylbenzene*	<0.050	0.050	01/03/2014	ND	1.82	91.1	2.00	0.763	
Total Xylenes*	<0.150	0.150	01/03/2014	ND	5.40	90.0	6.00	0.486	
Total BTEX	<0.300	0.300	01/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	01/08/2014	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/03/2014	ND	200	100	200	6.88	
DRO >C10-C28	38.8	10.0	01/03/2014	ND	208	104	200	0.0860	

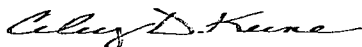
Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 01/02/2014
Reported: 01/08/2014
Project Name: GOVERNMENT S COM #9
Project Number: 700608.341.01
Project Location: NONE GIVEN

Sampling Date: 12/31/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-8 0' (H400009-17)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2014	ND	1.88	93.9	2.00	2.36	
Toluene*	<0.050	0.050	01/03/2014	ND	1.86	92.8	2.00	1.31	
Ethylbenzene*	<0.050	0.050	01/03/2014	ND	1.82	91.1	2.00	0.763	
Total Xylenes*	<0.150	0.150	01/03/2014	ND	5.40	90.0	6.00	0.486	
Total BTEX	<0.300	0.300	01/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	01/08/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/03/2014	ND	200	100	200	6.88	
DRO >C10-C28	434	10.0	01/03/2014	ND	208	104	200	0.0860	

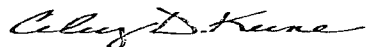
Surrogate: 1-Chlorooctane 100 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 01/02/2014
Reported: 01/08/2014
Project Name: GOVERNMENT S COM #9
Project Number: 700608.341.01
Project Location: NONE GIVEN

Sampling Date: 12/31/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-8 1' (H400009-18)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2014	ND	1.88	93.9	2.00	2.36	
Toluene*	<0.050	0.050	01/03/2014	ND	1.86	92.8	2.00	1.31	
Ethylbenzene*	<0.050	0.050	01/03/2014	ND	1.82	91.1	2.00	0.763	
Total Xylenes*	<0.150	0.150	01/03/2014	ND	5.40	90.0	6.00	0.486	
Total BTEX	<0.300	0.300	01/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/08/2014	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/03/2014	ND	200	100	200	6.88	
DRO >C10-C28	<10.0	10.0	01/03/2014	ND	208	104	200	0.0860	

Surrogate: 1-Chlorooctane 93.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.0 % 63.6-154

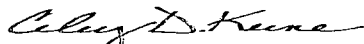
Sample ID: S-8 2' (H400009-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/08/2014	ND	416	104	400	3.77	

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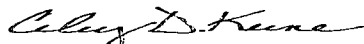
Notes and Definitions

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 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

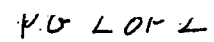
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Relinquished By:		Date:	Received By:	Phone Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Sheldon Hitchcock		1/2/14	[Signature]	Fax Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Time:		10:38		REMARKS:		
Relinquished By:		Date:	Received By:			
[Signature]		1/2/14	Jodi Henson			
Time:		12/6				
Delivered By: (Circle One)		Sample Condition	CHECKED BY:			
Sampler - UPS - Bus - Other:		Cool Intact	(Initials)			
4.6°C		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	[Signature]			

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

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