



June 13, 2014

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

**JUN 27 2014**

**RECEIVED**

Mr. Mike Bratcher  
**NMOCD District 2**  
811 S. 1<sup>st</sup> 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 575.746.8905

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 10  
Oklahoma City, Oklahoma 73116  
Phone 405.486.7030  
Fax 806.467.0622

SAN ANTONIO  
13111 Lookout Way  
San Antonio, Texas 78233  
Phone 210.265.8025  
Fax 210.568.2191

Subject: **Soil Assessment and Remediation Work Plan**  
Cimarex Energy  
Wersell Federal #002  
30-015-24845 (2RP-2260)

Dear Mr. Bratcher

Cimarex Energy (Cimarex) 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.

**Background Information**

The Wersell Fed #002 is located approximately two miles east of Carlsbad, New Mexico. The legal location for this site is Unit Letter D, Section 4, Township 22 South and Range 27 East. More specifically the latitude and longitude for the release are 32.42735 North and -104.2009 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 Upton gravelly loam with 0 to 9 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, The local surface and shallow geology is comprised of Holocene to upper Pleistocene alluvium. Drainage courses in this area are normally dry. Groundwater in the project vicinity is approximately 15-feet below ground surface (bgs) according to the New Mexico Office of the State Engineer. See Appendix II for the referenced groundwater data.

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

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

ENVIRONMENTAL CONSULTING  
ENGINEERING  
DRILLING  
CONSTRUCTION  
SPILL MANAGEMENT  
GENERAL CONTRACTING

Toll Free: 866.742.0742  
www.talonlpe.com

## Incident Description

The release was discovered March 14, 2014 and reported to Cimarex personnel. Vibration caused the threads of a 2-inch pipe to crack at a 45 degree connection releasing approximately 40bbls of produced water. 0bbls were recovered. The fluid flowed east from the edge of the location for approximately 120-feet. The pipe was repaired and put back into service and Talon mobilized personnel to conduct a site assessment and soil sampling in the impacted area.

Initially a hand auger was used in an attempt to delineate the site. However due to the rockiness of the soil, refusal was encountered between 0.5 and 1-foot bgs. Subsequently a backhoe was mobilized to further delineate the site. The backhoe encountered refusal at 2-feet bgs and field chloride data showed that the release had not been successfully delineated. Consequently, an excavator was mobilized to complete the vertical delineation. Laboratory and field results are summarized in the table below.

## Laboratory & Field Results

See Appendix III for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	ND	23200	ND	ND
S-1	1	--	10400	--	--
S-1	2*	--	5317	--	--
S-1	4	--	944	--	--
S-1	7	--	816	--	--
S-2	0	ND	19600	ND	ND
S-2	1	--	10000	--	--
S-2	2*	--	2268	--	--
S-2	3	--	4880	--	--
S-2	8	--	1740	--	--
S-2	11	--	272	--	--
S-3	0	ND	24400	ND	ND
S-3	0.5	--	19800	--	--
S-3	2*	--	10422	--	--
S-3	3	--	192	--	--
S-4	0	ND	15800	--	--
S-4	0.5	--	6100	--	--
S-4	2*	--	1063	--	--
S-4	3	--	128	--	--
S-5	0	ND	21000	ND	ND
S-5	0.5	--	11000	--	--
S-5	2*	--	2694	--	--
S-5	3	--	64	--	--
S-6	0	ND	24800	ND	ND

<b>S-6</b>	1	--	13000	--	--
<b>S-6</b>	2*	--	7090	--	--
<b>S-6</b>	3	--	384	--	--
<b>BG-1</b>	0	--	ND	--	--

(-- ) Analyte Not Tested

(ND) Analyte Not Detected

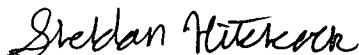
(\*) Field Result

### Proposed Remedial Actions

- The impacted area in the vicinity of sample location S-1 will be excavated to a depth of 4-feet bgs.
- The impacted area in the vicinity of sample location S-2 will be excavated to a depth of 4-feet bgs and a 20-mil reinforced liner padded with felt will be installed to encapsulate the remaining chloride impacts.
- The impacted areas in the vicinity of sample location S-3, S-4, S-5, and S-6 will be excavated to a depth of 2.5-feet bgs.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- The excavated areas will be backfilled with top soil and contoured to match the surrounding terrain.

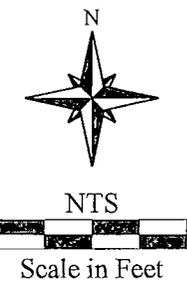
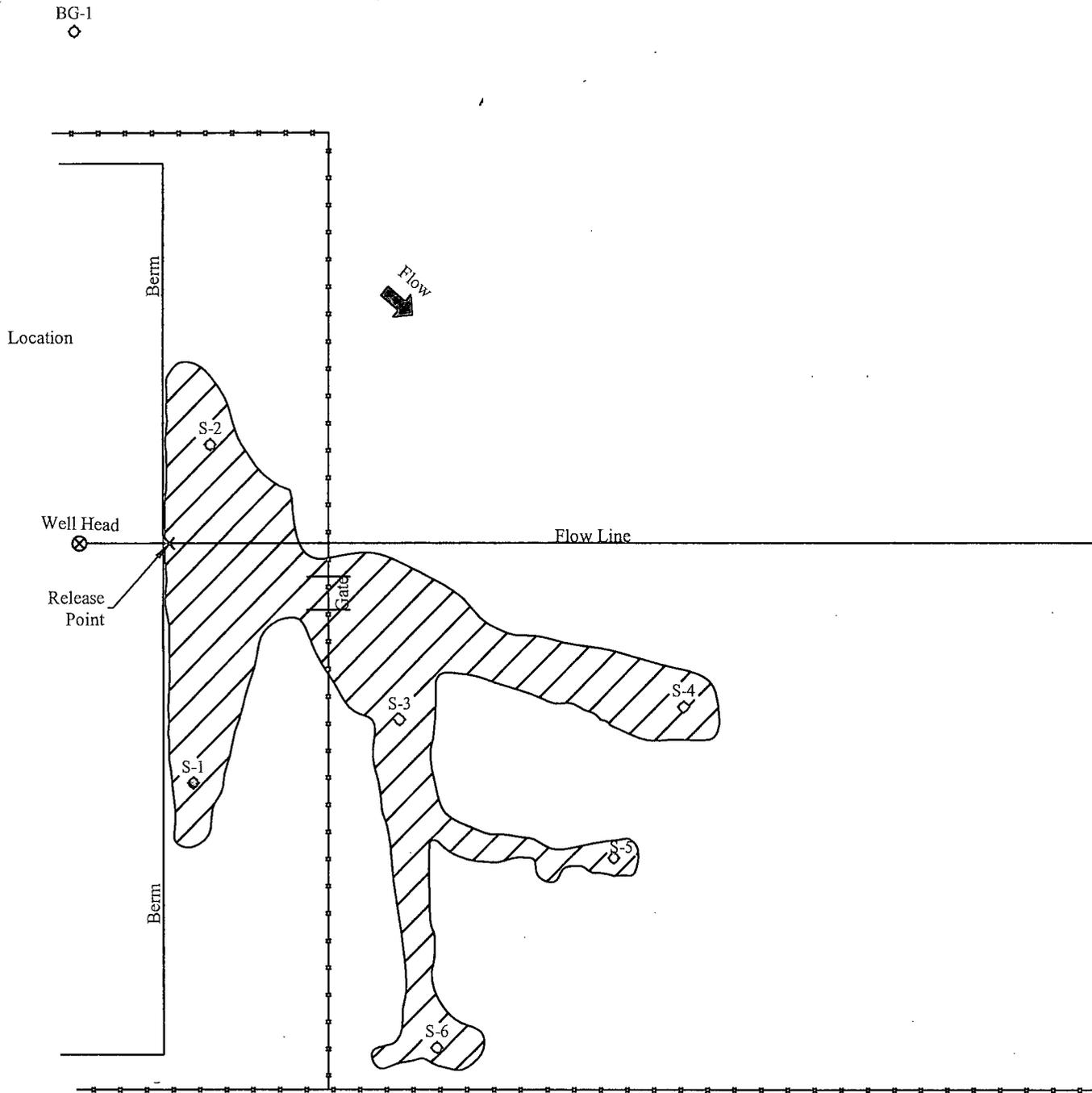
Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768.

Respectfully submitted,

  
Sheldon Hitchcock  
Project Manager

  
David J. Adkins  
District Manager

# **SITE PLAN**



**Legend**  
 ◊ - Sample Location  
 - - - Fence Line



Date: 05/05/2014  
 Scale: NTS  
 Drawn By: TJS

Wersell Federal #2  
 Cimarex Energy  
 Eddy County, New Mexico  
 Figure 1 - Site Plan

**GROUNDWATER DATA**  
**INITIAL C-141**



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(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
C 02193	C	ED		4	32	21S	27E			574476	3588675*	856	55	15	40
C 00197	C	ED			32	21S	27E			574067	3589068*	1423	300		
C 00751	C	ED			32	21S	27E			574067	3589068*	1423	325	15	310
C 00344	C	ED		3	3	32	21S	27E		573464	3588465*	1669	180	17	163
C 02009	C	ED		3	3	32	21S	27E		573464	3588465*	1669	50	32	18
C 00589	C	ED		2	4	4	04	22S	27E	576412	3586974*	1722			
C 03335	C	ED		4	1	3	29	21S	27E	573636	3589020	1731	225	31	194
C 00566	C	ED		2	2	2	32	21S	27E	574773	3589785*	1737	323	18	305
C 00632	C	ED		2	2	2	32	21S	27E	574773	3589785*	1737	270	30	240
C 00717	C	ED		3	3	1	05	22S	27E	573369	3587548*	1798	60	32	28
C 00660	C	ED		2	1	2	32	21S	27E	574368	3589780*	1849	325	14	311
C 00337	C	ED		1	1	2	32	21S	27E	574168	3589780*	1936	318	40	278
C 00783	C	ED		3	1	3	05	22S	27E	573372	3587136*	1956	135	73	62

Average Depth to Water: **28 feet**

Minimum Depth: **14 feet**

Maximum Depth: **73 feet**

**Record Count: 13**

**Basin/County Search:**

County: Eddy

**UTMNAD83 Radius Search (in meters):**

Easting (X): 575088

Northing (Y): 3588076

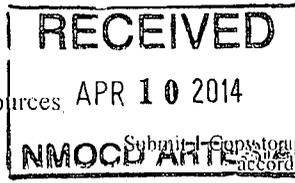
Radius: 2000

\*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 Dr., Hobbs, NM 88240  
District II  
811 S. First St., 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



Form C-141  
Revised August 8, 2011

Submit Copy to appropriate District Office in accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

*1410539495*

**OPERATOR**

X Initial Report  Final Report

Name of Company: Cimarex Energy Company <i>162683</i>	Contact: Johnny Titsworth
Address: 600 N. Marienfield, Suite 600, Midland, TX 79701	Telephone No. (432)250-2059
Facility Name: Wersell Federal #2	Facility Type: SWD

Surface Owner: Federal	Mineral Owner:	API No. 30-015-24845
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	4	22S	27E	660	FNL	660	FWL	Eddy

Latitude: 32.42735 Longitude: -104.2009

**NATURE OF RELEASE**

Type of Release: Produced Water	Volume of Release: 40	Volume Recovered: 0
Source of Release: 2" pipe	Date & Hour of Occurrence: 3/14/14 10:00	Date & Hour of Discovery: 3/14/14 10:30
Was Immediate Notice Given? X Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Kim Barton	
By Whom? Jennifer Van Curen	Date and Hour: 3/14/14 10:30	
Was a Watercourse Reached? X Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* Vibration caused the threads of the 2" pipe to crack at a 45 degree connection. Impacted soil will be assessed and remediated.		
Describe Area Affected and Cleanup Action Taken.* in the pasture: 45'x45', 120'x6', 75'x8'		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		

**OIL CONSERVATION DIVISION**

Signature:	Approved by Environmental Specialist:	
Printed Name: Johnny Titsworth	Approval Date: 4/15/14	Expiration Date: NA
Title: Environmental Compliance Coordinator	Conditions of Approval:	
E-mail Address: jtitsworth@cimarex.com	Attached <input type="checkbox"/>	
Date: 4/10/14	Phone: (432)-250-2059	

\* Attach Additional Sheets, If Necessary

Remediation per OCD Rule & Guidelines. **SUBMIT REMEDIATION PROPOSAL NO LATER THAN:**

5/15/14

*2RP-2260*

# LABORATORY RESULTS



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

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May 08, 2014

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WERSELL FED #2

Enclosed are the results of analyses for samples received by the laboratory on 04/30/14 17:00.

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](http://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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, prominent initial 'C'.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/08/2014	Sampling Type:	Soil
Project Name:	WERSELL FED #2	Sampling Condition:	Cool & Intact
Project Number:	701162.056.01	Sample Received By:	Jodi Henson
Project Location:	D-S4-T22S-R27E		

**Sample ID: S-1 0' (H401313-01)**

BTEX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09		
Toluene*	<0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54		
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31		
Total Xylenes*	<0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16		
Total BTEX	<0.300	0.300	05/08/2014	ND						

Surrogate: Dibromofluoromethane 97.8 % 61.3-142

Surrogate: Toluene-d8 106 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	23200	16.0	05/05/2014	ND	400	100	400	3.92		

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	05/07/2014	ND	160	80.1	200	7.99		
DRO >C10-C28	<10.0	10.0	05/07/2014	ND	176	88.2	200	9.93		

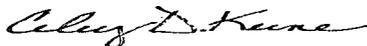
Surrogate: 1-Chlorooctane 98.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.2 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/08/2014	Sampling Type:	Soil
Project Name:	WERSELL FED #2	Sampling Condition:	Cool & Intact
Project Number:	701162.056.01	Sample Received By:	Jodi Henson
Project Location:	D-S4-T22S-R27E		

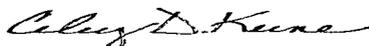
**Sample ID: S-1 1' (H401313-02)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>10400</b>	16.0	05/07/2014	ND	400	100	400	0.00	

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\*—Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 04/30/2014  
 Reported: 05/08/2014  
 Project Name: WERSELL FED #2  
 Project Number: 701162.056.01  
 Project Location: D-S4-T22S-R27E

 Sampling Date: 04/29/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-2 0' (H401313-03)**

BTEX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09		
Toluene*	<0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54		
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31		
Total Xylenes*	<0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16		
Total BTEX	<0.300	0.300	05/08/2014	ND						

Surrogate: Dibromofluoromethane 94.9 % 61.3-142

Surrogate: Toluene-d8 104 % 71.3-129

Surrogate: 4-Bromofluorobenzene 99.7 % 63.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	19600	16.0	05/07/2014	ND	400	100	400	0.00		

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	05/07/2014	ND	160	80.1	200	7.99		
DRO >C10-C28	<10.0	10.0	05/07/2014	ND	176	88.2	200	9.93		

Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 04/30/2014  
 Reported: 05/08/2014  
 Project Name: WERSELL FED #2  
 Project Number: 701162.056.01  
 Project Location: D-S4-T22S-R27E

 Sampling Date: 04/29/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

Sample ID: S-2 (0) (H401313-04)

*1' Lab is correcting their mistake*

Chloride, SM4500Cl-B

mg/kg

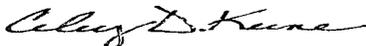
Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	05/07/2014	ND	400	100	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/08/2014	Sampling Type:	Soil
Project Name:	WERSELL FED #2	Sampling Condition:	Cool & Intact
Project Number:	701162.056.01	Sample Received By:	Jodi Henson
Project Location:	D-S4-T22S-R27E		

**Sample ID: S-3 0' (H401313-05)**

BTEX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09		
Toluene*	<0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54		
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31		
Total Xylenes*	<0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16		
Total BTEX	<0.300	0.300	05/08/2014	ND						

Surrogate: Dibromofluoromethane 95.7 % 61.3-142

Surrogate: Toluene-d8 106 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	24400	16.0	05/07/2014	ND	400	100	400	0.00		

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	05/07/2014	ND	160	80.1	200	7.99		
DRO >C10-C28	<10.0	10.0	05/07/2014	ND	176	88.2	200	9.93		

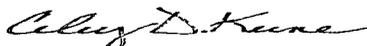
Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 04/30/2014  
 Reported: 05/08/2014  
 Project Name: WERSELL FED #2  
 Project Number: 701162.056.01  
 Project Location: D-S4-T22S-R27E

 Sampling Date: 04/29/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-3 0.5' (H401313-06)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>19800</b>	16.0	05/07/2014	ND	400	100	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/08/2014	Sampling Type:	Soil
Project Name:	WERSELL FED #2	Sampling Condition:	Cool & Intact
Project Number:	701162.056.01	Sample Received By:	Jodi Henson
Project Location:	D-S4-T22S-R27E		

**Sample ID: S-4 0' (H401313-07)**

BTEX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09		
Toluene*	<0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54		
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31		
Total Xylenes*	<0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16		
Total BTEX	<0.300	0.300	05/08/2014	ND						

Surrogate: Dibromofluoromethane 96.8 % 61.3-142

Surrogate: Toluene-d8 108 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	15800	16.0	05/07/2014	ND	400	100	400	0.00		

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	05/07/2014	ND	160	80.1	200	7.99		
DRO >C10-C28	<10.0	10.0	05/07/2014	ND	176	88.2	200	9.93		

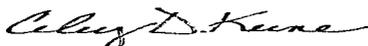
Surrogate: 1-Chlorooctane 98.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/08/2014	Sampling Type:	Soil
Project Name:	WERSELL FED #2	Sampling Condition:	Cool & Intact
Project Number:	701162.056.01	Sample Received By:	Jodi Henson
Project Location:	D-S4-T22S-R27E		

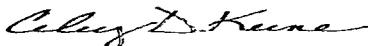
**Sample ID: S-4 0.5' (H401313-08)**

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>6100</b>	16.0	05/07/2014	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/08/2014	Sampling Type:	Soil
Project Name:	WERSELL FED #2	Sampling Condition:	Cool & Intact
Project Number:	701162.056.01	Sample Received By:	Jodi Henson
Project Location:	D-S4-T22S-R27E		

**Sample ID: S-5 0' (H401313-09)**

<b>BTEX 82608</b>		<b>mg/kg</b>		<b>Analyzed By: ms</b>						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09		
Toluene*	<0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54		
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31		
Total Xylenes*	<0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16		
Total BTEX	<0.300	0.300	05/08/2014	ND						

Surrogate: Dibromofluoromethane 96.6 % 61.3-142

Surrogate: Toluene-d8 106 % 71.3-129

Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

<b>Chloride, SM4500Cl-B</b>		<b>mg/kg</b>		<b>Analyzed By: AP</b>						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>21000</b>	16.0	05/07/2014	ND	400	100	400	0.00		

<b>TPH 8015M</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/07/2014	ND	160	80.1	200	7.99		
DRO >C10-C28	<10.0	10.0	05/07/2014	ND	176	88.2	200	9.93		

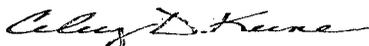
Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/08/2014	Sampling Type:	Soil
Project Name:	WERSELL FED #2	Sampling Condition:	Cool & Intact
Project Number:	701162.056.01	Sample Received By:	Jodi Henson
Project Location:	D-S4-T22S-R27E		

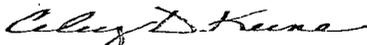
**Sample ID: S-5 0.5' (H401313-10)**

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>11000</b>	16.0	05/07/2014	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/08/2014	Sampling Type:	Soil
Project Name:	WERSELL FED #2	Sampling Condition:	Cool & Intact
Project Number:	701162.056.01	Sample Received By:	Jodi Henson
Project Location:	D-S4-T22S-R27E		

**Sample ID: S-6 0' (H401313-11)**

BTEX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09		
Toluene*	<0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54		
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31		
Total Xylenes*	<0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16		
Total BTEX	<0.300	0.300	05/08/2014	ND						

Surrogate: Dibromofluoromethane 97.8 % 61.3-142

Surrogate: Toluene-d8 106 % 71.3-129

Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	24800	16.0	05/07/2014	ND	400	100	400	0.00		

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	05/07/2014	ND	160	80.1	200	7.99		
DRO >C10-C28	<10.0	10.0	05/07/2014	ND	176	88.2	200	9.93		

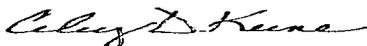
Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 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  
 SHELDON HITCHCOCK  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/08/2014	Sampling Type:	Soil
Project Name:	WERSELL FED #2	Sampling Condition:	Cool & Intact
Project Number:	701162.056.01	Sample Received By:	Jodi Henson
Project Location:	D-S4-T22S-R27E		

**Sample ID: S-6 1' (H401313-12)**

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13000	16.0	05/07/2014	ND	400	100	400	0.00		

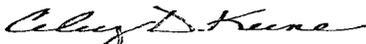
**Sample ID: BG-1 0' (H401313-13)**

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	05/07/2014	ND	400	100	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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---

Celey D. Keene, Lab Director/Quality Manager







June 10, 2014

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WERSELL FED #2

Enclosed are the results of analyses for samples received by the laboratory on 06/03/14 15:05.

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](http://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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	06/03/2014	Sampling Date:	06/02/2014
Reported:	06/10/2014	Sampling Type:	Soil
Project Name:	WERSELL FED #2	Sampling Condition:	Cool & Intact
Project Number:	701162.056.01	Sample Received By:	Jodi Henson
Project Location:	D-S4-T22S-R27E		

**Sample ID: S-1 4' (H401695-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	06/09/2014	ND	400	100	400	0.00		

**Sample ID: S-1 7' (H401695-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	06/09/2014	ND	400	100	400	0.00		

**Sample ID: S-2 3' (H401695-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4880	16.0	06/09/2014	ND	400	100	400	0.00		

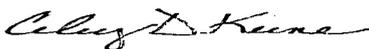
**Sample ID: S-2 8' (H401695-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1740	16.0	06/09/2014	ND	400	100	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	06/03/2014	Sampling Date:	06/02/2014
Reported:	06/10/2014	Sampling Type:	Soil
Project Name:	WERSELL FED #2	Sampling Condition:	Cool & Intact
Project Number:	701162.056.01	Sample Received By:	Jodi Henson
Project Location:	D-S4-T22S-R27E		

**Sample ID: S-2 11' (H401695-05)**

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	06/09/2014	ND	400	100	400	0.00		

**Sample ID: S-3 3' (H401695-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	06/09/2014	ND	400	100	400	0.00		

**Sample ID: S-4 3' (H401695-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	06/09/2014	ND	400	100	400	0.00		

**Sample ID: S-5 3' (H401695-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/09/2014	ND	400	100	400	0.00		

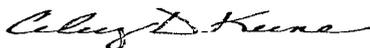
**Sample ID: S-6 3' (H401695-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	06/09/2014	ND	400	100	400	0.00		

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

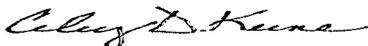
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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