



October 20, 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 575.746.8905

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
Vermejo SWD #1
API # 30-015-40644 2RP-2501

Dear Mr. Bratcher,

Cimarex Energy has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced Vermejo SWD No. 1 release. The incident description, soil assessment and proposed remediation activities consist of the following:

Incident Date

August 17, 2014

Background Information

The Vermejo Water Transfer Station No. 1 is located approximately sixteen (16) miles southeast of Artesia, New Mexico. The legal location for the Vermejo Water Transfer Station is Section 5, Township 17 South and Range 29 East in Eddy County, New Mexico. More Specifically the latitude and longitude for the location are 32.86364 North and -104.099189 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 Kimbrough-Stegall loams with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, The local surface and shallow geology is made up of Holocene to Pleistocene alluvium. Drainage courses in this area are normally dry. According to the New Mexico Office of the State Engineer groundwater in the project vicinity is approximately 110-feet below ground surface (bgs). See Appendix II for the referenced groundwater data.

The ranking for this site is 0 based on the as following:

ENVIRONMENTAL CONSULTING	Depth to ground water	>100'
ENGINEERING	Wellhead Protection Area	>1000'
DRILLING	Distance to surface water body	>1000'
CONSTRUCTION		
SPILL MANAGEMENT		
GENERAL CONTRACTING		

Incident Description

On August 17, 2014 lightning struck the Vermejo SWD Water Transfer Station, which is located on what was one the Spiketail SWD #1 (30-015-38599) a P&A location. The facility burnt to the ground releasing approximately 1100 barrels of produced water and 250 barrels of oil. Most of the fluids were burnt off. No fluids were recovered. What fluids remained flowed south off location into the pasture. See site plan in Appendix I.

On September 3, 2014 Talon/LPE mobilized personnel to begin a site assessment and soil sampling activities for the generation of a work plan. Grab soil samples were collected utilizing a hand auger to a depth of 2-feet below ground surface. The results of these soil sampling activities are summarized in the table below.

Laboratory 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	1920	ND	2640
S-1	0.5	ND	1330	ND	881
S-2	0	5.9	7760	264	5700
S-2	1	ND	320	ND	163
S-2	2	0.605	1120	ND	954
S-3	0	10.4	13000	598	35500
S-3	1	ND	800	ND	609
S-3	2	0.408	544	10.7	592
S-4	0	241	6200	2720	11600
S-4	1	18.2	12400	266	2690
S-5	0	308	64800	ND	8490
S-5	1	ND	10600	ND	24.9
S-6	0	8.24	10600	588	28800
S-6	1	ND	864	ND	695
S-6	2	ND	784	ND	1480

(--) Analyte Not Tested

(ND) Analyte Not Detected

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, and 5,000 mg/kg for TPH.

Proposed Remedial Actions

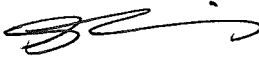
- At the beginning of the remediation portion of this project, a test pit will be excavated between sample location S-4 and S-5 for further vertical delineation purposes in this area. The samples will be field tested for chlorides and followed up with laboratory confirmation analysis. The test pit will be backfilled with soil that was excavated until lab results are obtained.
- Upon receipt of the laboratory analysis of the additional samples, the results will be immediately forwarded to the NMOCD. Should the analytical results indicate that the contamination extends to a depth of 4-feet bgs or less, this area will be excavated to the appropriate depth to remove all chloride impacts. If the contamination in the vicinity of S-4 and S-5 extends deeper than 4-feet bgs, upon NMOCD approval a liner will be installed to encapsulate the remaining chloride impacts.
- The impacted areas in the vicinity of S-1, S-2, S-3 and S-6 (impacted area off location to the south) will be excavated to a depth of 1-foot bgs.
- The impacted soil will be transported to a NMOCD approved solid waste disposal facility.
- The excavated areas will be backfilled to grade and contoured to match the surrounding location.

If we can provide additional information or be of further assistance please contact our office at 575.746.8768.

Respectfully submitted,

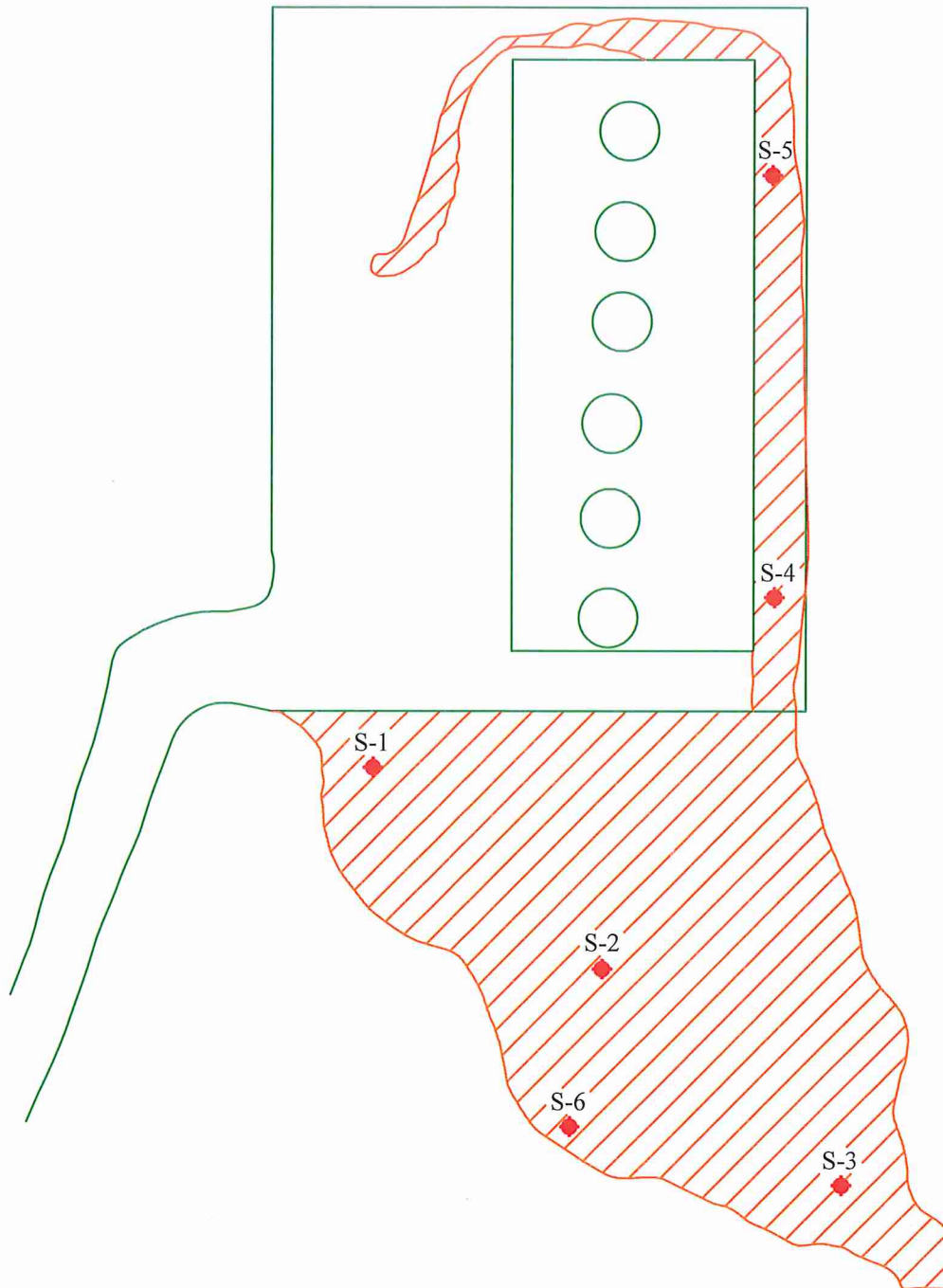
TALON/LPE


Sheldon L. Hitchcock
Project Manager

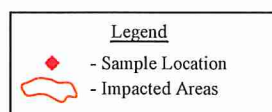

David J. Adkins
District Manager

APPENDIX I

SITE MAP



NTS
Scale in Feet



Date: 10/01/2014

Scale: NTS

Drawn By: TJS

Vermejo SWD Water Transfer Line
Cimarex Energy
Eddy County, New Mexico
Figure 1 - Site Plan

APPENDIX II
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
RA 09342			ED	4	4	3	19	16S	29E	582737	3640640*	4783	220	110	110

Average Depth to Water: 110 feet

Minimum Depth: 110 feet

Maximum Depth: 110 feet

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 583981

Northing (Y): 3636021

Radius: 5000

*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

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141
Revised August 8, 2011

SEP 18 2014

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

NAB1426251119

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Cimarex Energy	Contact	Christine Alderman
Address	600 N Marienfeld Ste 600 Midland TX	Telephone No.	432-853-7059
Facility Name	Vermejo SWD #1	Facility Type	Production

Surface Owner	Mineral Owner	API No.	30-015-40644
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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
	15	17S	28E		900		2530	Eddy

Latitude 32.654322 Longitude -104.059509

NATURE OF RELEASE

Type of Release - produced water and oil	Volume of Release 1100 bbls of PW and 250 bbls crude oil	Volume Recovered 0
Source of Release tank battery	Date and Hour of Occurrence 8/17/14	Date and Hour of Discovery 8/17/14
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher	
By Whom? Christine Alderman	Date and Hour 8/17/14	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Lightning stuck tank battery and completely burned. Much of the loss of fluids was burned off

Describe Area Affected and Cleanup Action Taken.*

Contacted local Environmental consulting agency to begin cleanup process.

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.

Signature: Christine Alderman	OIL CONSERVATION DIVISION	
Printed Name: Christine Alderman	Approved by Environmental Specialist: <i>H. Pen</i>	
Title: ESH Supervisor	Approval Date: 9/8/14	Expiration Date: NA
E-mail Address: calderman@cimarex.com	Conditions of Approval: Remediation per OCD Rule & Guidelines.	Attached <input type="checkbox"/>
Date: 8/15/14 Phone: 432-853-7059	SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 10/15/14	

* Attach Additional Sheets If Necessary

2RP-2501

APPENDIX III
LABORATORY RESULTS

September 09, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: VERMEJO TRANSFER STATION

Enclosed are the results of analyses for samples received by the laboratory on 09/04/14 10:21.

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: 09/04/2014
Reported: 09/09/2014
Project Name: VERMEJO TRANSFER STATION
Project Number: 70116206501
Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-1 0' (H402734-01)

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	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	<0.050	0.050	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	0.050	0.050	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	<0.150	0.150	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTX	<0.300	0.300	09/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 106 % 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	1920	16.0	09/09/2014	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	<100	100	09/05/2014	ND	167	83.6	200	2.35	
DRO >C10-C28	2640	100	09/05/2014	ND	191	95.3	200	1.32	

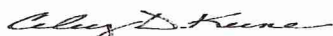
Surrogate: 1-Chlorooctane 72.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 137 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Fax To: (575) 745-8905

Received: 09/04/2014
Reported: 09/09/2014
Project Name: VERMEJO TRANSFER STATION
Project Number: 70116206501
Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-1 .5' (H402734-02)

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	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	<0.050	0.050	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	<0.050	0.050	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	<0.150	0.150	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTX	<0.300	0.300	09/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 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	1330	16.0	09/09/2014	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	<50.0	50.0	09/05/2014	ND	167	83.6	200	2.35	
DRO >C10-C28	881	50.0	09/05/2014	ND	191	95.3	200	1.32	

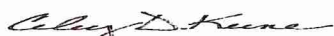
Surrogate: 1-Chlorooctane 65.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.9 % 63.6-154

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*=Accredited Analyte

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Fax To: (575) 745-8905

Received: 09/04/2014
Reported: 09/09/2014
Project Name: VERMEJO TRANSFER STATION
Project Number: 70116206501
Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-2 0' (H402734-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	0.546	0.200	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	1.75	0.200	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	3.61	0.600	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTX	5.90	1.20	09/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 122 % 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	7760	16.0	09/09/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	264	200	09/05/2014	ND	167	83.6	200	2.35		
DRO >C10-C28	5700	200	09/05/2014	ND	191	95.3	200	1.32		

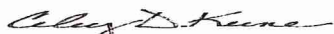
Surrogate: 1-Chlorooctane 97.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 215 % 63.6-154

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*=Accredited Analyte

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Fax To: (575) 745-8905

Received: 09/04/2014
Reported: 09/09/2014
Project Name: VERMEJO TRANSFER STATION
Project Number: 70116206501
Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-2 1' (H402734-04)

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	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	<0.050	0.050	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	<0.050	0.050	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	<0.150	0.150	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTX	<0.300	0.300	09/08/2014	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	09/09/2014	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	09/05/2014	ND	167	83.6	200	2.35	
DRO >C10-C28	163	10.0	09/05/2014	ND	191	95.3	200	1.32	

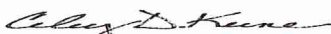
Surrogate: 1-Chlorooctane 73.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 73.2 % 63.6-154

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*=Accredited Analyte

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Reported: 09/09/2014
Project Name: VERMEJO TRANSFER STATION
Project Number: 70116206501
Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-2 2' (H402734-05)

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	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	0.069	0.050	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	0.170	0.050	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	0.366	0.150	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTEX	0.605	0.300	09/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 113 % 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	1120	16.0	09/09/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg	Analyzed By: ms							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	09/05/2014	ND	167	83.6	200	2.35		
DRO >C10-C28	954	50.0	09/05/2014	ND	191	95.3	200	1.32		

Surrogate: 1-Chlorooctane 61.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 79.2 % 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: 09/04/2014
Reported: 09/09/2014
Project Name: VERMEJO TRANSFER STATION
Project Number: 70116206501
Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-3 0' (H402734-06)

BTX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	1.42	0.500	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	3.10	0.500	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	5.90	1.50	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTX	10.4	3.00	09/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 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	13000	16.0	09/09/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg	Analyzed By: ms							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	598	500	09/05/2014	ND	167	83.6	200	2.35		
DRO >C10-C28	35500	500	09/05/2014	ND	191	95.3	200	1.32		

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 1480 % 63.6-154

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Analytical Results For:

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

Received:	09/04/2014	Sampling Date:	09/03/2014
Reported:	09/09/2014	Sampling Type:	Soil
Project Name:	VERMEJO TRANSFER STATION	Sampling Condition:	Cool & Intact
Project Number:	70116206501	Sample Received By:	Kathy Perez
Project Location:	CIMAREX - EDDY COUNTY, NM		

Sample ID: S-3 1' (H402734-07)

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	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	<0.050	0.050	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	<0.050	0.050	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	<0.150	0.150	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTEx	<0.300	0.300	09/08/2014	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	09/09/2014	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	09/05/2014	ND	167	83.6	200	2.35	
DRO >C10-C28	609	10.0	09/05/2014	ND	191	95.3	200	1.32	

Surrogate: 1-Chlorooctane 65.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 81.0 % 63.6-154

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Analytical Results For:

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

Received: 09/04/2014
Reported: 09/09/2014
Project Name: VERMEJO TRANSFER STATION
Project Number: 70116206501
Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-3 2' (H402734-08)

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	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	0.064	0.050	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	0.115	0.050	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	0.230	0.150	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTEX	0.408	0.300	09/08/2014	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	544	16.0	09/09/2014	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	10.7	10.0	09/05/2014	ND	167	83.6	200	2.35	
DRO >C10-C28	592	10.0	09/05/2014	ND	191	95.3	200	1.32	

Surrogate: 1-Chlorooctane 71.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.0 % 63.6-154

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Analytical Results For:

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

Received: 09/04/2014
Reported: 09/09/2014
Project Name: VERMEJO TRANSFER STATION
Project Number: 70116206501
Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-4 0' (H402734-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.92	2.00	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	58.4	2.00	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	69.6	2.00	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	109	6.00	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTX	241	12.0	09/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 123 % 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	6200	16.0	09/09/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2720	100	09/05/2014	ND	167	83.6	200	2.35		
DRO >C10-C28	11600	100	09/05/2014	ND	191	95.3	200	1.32		

Surrogate: 1-Chlorooctane 148 % 65.2-140

Surrogate: 1-Chlorooctadecane 329 % 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: 09/04/2014
Reported: 09/09/2014
Project Name: VERMEJO TRANSFER STATION
Project Number: 70116206501
Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-4 1' (H402734-10)

BTEX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	2.02	0.200	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	5.43	0.200	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	10.8	0.600	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTEX	18.2	1.20	09/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 158 % 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	12400	16.0	09/09/2014	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	266	50.0	09/05/2014	ND	167	83.6	200	2.35	
DRO >C10-C28	2690	50.0	09/05/2014	ND	191	95.3	200	1.32	

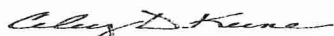
Surrogate: 1-Chlorooctane 98.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 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:	09/04/2014	Sampling Date:	09/03/2014
Reported:	09/09/2014	Sampling Type:	Soil
Project Name:	VERMEJO TRANSFER STATION	Sampling Condition:	Cool & Intact
Project Number:	70116206501	Sample Received By:	Kathy Perez
Project Location:	CIMAREX - EDDY COUNTY, NM		

Sample ID: S-5 0' (H402734-11)

BTX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	0.624	0.100	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	0.859	0.100	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	1.60	0.300	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTX	3.08	0.600	09/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 116 % 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	64800	16.0	09/09/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg	Analyzed By: ms							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<200	200	09/05/2014	ND	167	83.6	200	2.35		
DRO >C10-C28	8490	200	09/05/2014	ND	191	95.3	200	1.32		

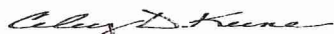
Surrogate: 1-Chlorooctane 80.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 387 % 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: 09/04/2014
Reported: 09/09/2014
Project Name: VERMEJO TRANSFER STATION
Project Number: 70116206501
Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-5 1' (H402734-12)

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	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	<0.050	0.050	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	<0.050	0.050	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	<0.150	0.150	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTX	<0.300	0.300	09/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 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	10600	16.0	09/09/2014	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	09/05/2014	ND	167	83.6	200	2.35	
DRO >C10-C28	24.9	10.0	09/05/2014	ND	191	95.3	200	1.32	

Surrogate: 1-Chlorooctane 77.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 80.4 % 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: 09/04/2014
Reported: 09/09/2014
Project Name: VERMEJO TRANSFER STATION
Project Number: 70116206501
Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-6 0' (H402734-13)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	1.56	0.500	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	2.51	0.500	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	4.16	1.50	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTX	8.24	3.00	09/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 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	10600	16.0	09/09/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	558	500	09/05/2014	ND	167	83.6	200	2.35		
DRO >C10-C28	28800	500	09/05/2014	ND	191	95.3	200	1.32		

Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 1250 % 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: 09/04/2014
Reported: 09/09/2014
Project Name: VERMEJO TRANSFER STATION
Project Number: 70116206501
Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-6 1' (H402734-14)

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	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	<0.050	0.050	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	0.062	0.050	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	<0.150	0.150	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTX	<0.300	0.300	09/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 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	864	16.0	09/09/2014	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	<50.0	50.0	09/05/2014	ND	167	83.6	200	2.35	
DRO >C10-C28	695	50.0	09/05/2014	ND	191	95.3	200	1.32	

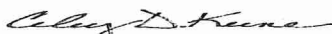
Surrogate: 1-Chlorooctane 82.8 % 65.2-140

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

Received: 09/04/2014
Reported: 09/09/2014
Project Name: VERMEJO TRANSFER STATION
Project Number: 70116206501
Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-6 2' (H402734-15)

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	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	<0.050	0.050	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	<0.050	0.050	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	<0.150	0.150	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTX	<0.300	0.300	09/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 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	784	16.0	09/09/2014	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	<50.0	50.0	09/05/2014	ND	167	83.6	200	2.35	
DRO >C10-C28	1480	50.0	09/05/2014	ND	191	95.3	200	1.32	

Surrogate: 1-Chlorooctane 82.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 121 % 63.6-154

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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 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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a: Talon/ PF

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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