



March 11, 2015

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: **Remedial Activities and Closure Report**  
Cimarex Energy  
Crow Flats 16 St. 2H  
30-015-35556 (2RP-2294)

Dear Mr. Bratcher

Cimarex Energy (Cimarex) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remediation activities and closure request are submitted herein.

#### **Background Information**

The Crow Flats 16 St. 2H is located approximately 17 miles East of Artesia, New Mexico. The legal location for this site is Unit Letter M, Section 16, Township 16 South and Range 28 East. More specifically the latitude and longitude for this release are 32.917130 North and -104.188290 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 Pajarito Dune land complex with 0 to 3 percent slopes. Drainage courses in this area are normally dry. Groundwater in the project vicinity is approximately 110-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 **0** based on the following:

Depth to ground water	>100'
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**

A hole in the fire tube on the heater treater caused a release of 15bbbls of oil and 5bbbls of produced water. The fluid was contained within the berms of the battery. Approximately 12bbbls of fluid were recovered from the battery. Talon mobilized personnel to conduct site assessment and soil sampling activities. Upon receipt of laboratory results from the initial sampling event, it was evident that further delineation of the impacted area would be necessary. In order to delineate chlorides to 250 mg/kg per NMOCD requirements Talon, mobilized an air rotary drilling rig to conduct the vertical delineation within the battery. Upon receipt of laboratory results from the vertical delineation activities a remediation work plan was drafted and subsequently approved by the NMOCD.

## **Remedial Actions**

- Talon was notified of the release and mobilized personnel to conduct an initial site assessment and perform soil sampling within the impacted area.
- Upon receipt of final laboratory results a work plan was drafted and subsequently approved by NMOCD.
- Per the approved work plan, the site was excavated to a depth of 1-foot bgs and confirmation soil samples were taken. The laboratory results from this sampling event showed that sample locations S-2 and S-3 were below NMOCD RRAL's for TPH, BTEX, and Chloride. However S-1 was still high in BTEX.
- The excavation in the vicinity of sample location S-1 was extended vertically to a depth of 2-feet bgs. Another confirmation sample was taken at this depth analyzed for BTEX. Laboratory results from the 2-foot excavation showed that all of the impacted soil above NMOCD RRAL's was successfully removed from the battery. The laboratory results from the confirmation sampling are summarized in following data table.
- All of the excavated soil was hauled to an NMOCD approved solid waste disposal facility.
- The excavation was backfilled with caliche and contoured to match the surrounding location.

## Laboratory Results (Confirmation Sampling)

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	1	165	256	312	874
S-2	1	--	544	ND	73
S-3	1	--	272	138	1890
S-1	2	ND	--	--	--

(-- ) Analyte Not Tested

(ND) Analyte Not Detected

## Closure

On behalf of Cimarex Energy we respectfully request that no further actions be required and that closure with regard to this release be granted.

If we can provide additional information or be of further assistance, please contact our office at (575)-746-8768.

Respectfully submitted,

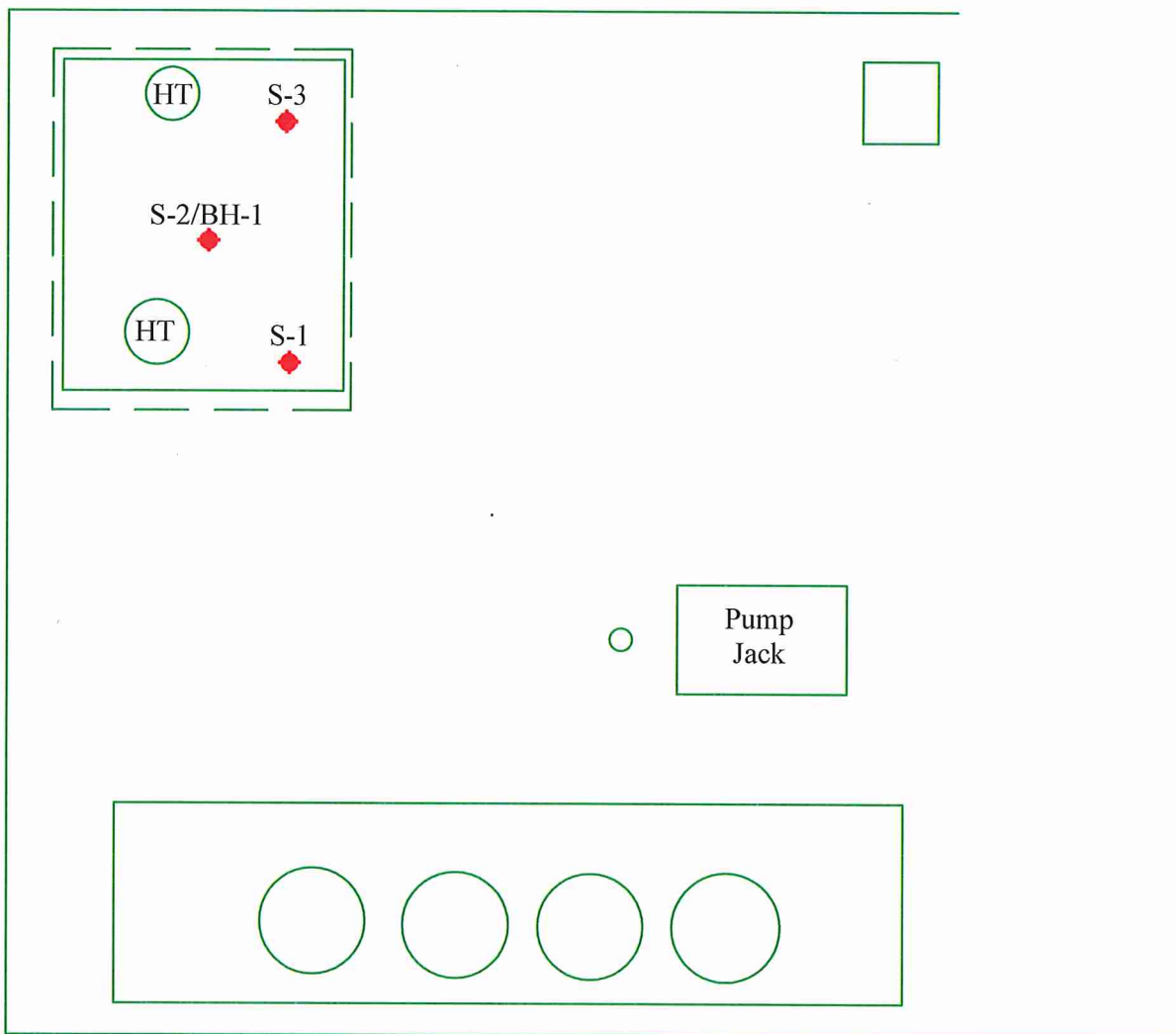
TALON/LPE

  
Sheldon Hitchcock  
Project Manager



David J. Adkins  
District Manager

# SITE PLAN



0 10 20  
 Scale in Feet

Legend  
 ♦ - Sample Location



Date: 08/11/2014

Scale: 1" = 20'

Drawn By: TJS

Crow Flats 16 States 2H  
 Cimarex Energy  
 Eddy County, New Mexico  
 Figure 1 - Site Plan

**GROUNDWATER DATA**  
**INITIAL C-141**  
**&**  
**FINIAL 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
<a href="#">RA 09342</a>			ED	4	4	3	19	16S	29E	582737	3640640*	6961	220	110	110

Average Depth to Water: 110 feet

Minimum Depth: 110 feet

Maximum Depth: 110 feet

Record Count: 1

## Basin/County Search:

County: Eddy

## UTMNAD83 Radius Search (in meters):

Easting (X): 575999

Northing (Y): 3642389

Radius: 7000

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

Release Notification and Corrective Action

nHMP 1413238288

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: CIMAREX ENERGY 162683	Contact: James Tinney
Address : 600 N Marienfeld Ste 600, Midland TX 79701	Telephone No. (575) 706-0095
Facility Name: Crow Flats 16 state 2H	Facility Type: Production Battery

Surface Owner	Mineral Owner	API No. 30-015-35556
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LOCATION OF RELEASE

Unit Letter M	Section 16	Township 016-S	Range 028-E	Feet from the 660	North/South Line south	Feet from the 330	East/West Line west	County ; Eddy
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Latitude: 32.917130 Longitude: -104.188290

NATURE OF RELEASE

Oil 2PW

Type of Release: oil/produce water	Volume of Release: 15 oil/5 pw	Volume Recovered: 12 bbls total
Source of Release: hole in heater fire tube	Date and Hour of Occurrence: 5/4/2014 @ 0900 hrs	Date and Hour of Discovery: 5/4/2014 @ 0900 hrs
Was Immediate Notice Given? x Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher, 5/5/14 @ 0710 hrs, no answer left message	
By Whom? James Tinney	Date and Hour: 5/5/14 @ 0710 hrs	
Was a Watercourse Reached? <input type="checkbox"/> Yes x No	If YES, Volume Impacting the Watercourse.	

RECEIVED

MAY 07 2014

NMOCD ARTESIA

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* hole in fire tube on heater, picked up standing oil and produce water. Release was in an unlined berm.

Describe Area Affected and Cleanup Action Taken.\*

Area affected 36' x 30' contained inside dirt berm (unlined). Called vac truck picked up standing oil and emptied heater. Work plan: repair equipment, pick up contaminated soil.

Delimitation Samples Required

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: James Tinney	Approved by Environmental Specialist: [Signature]	
Printed Name: James Tinney	Approval Date: 5/12/14	Expiration Date: NA
Title: Production Foreman	Conditions of Approval: Remediation per OCD Rule & Guidelines. SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 6/12/14	
E-mail Address: jtinney@cimarex.com	Attached <input type="checkbox"/>	
Date: 05/05/2014	Phone: (575) 706-0095	

\* Attach Additional Sheets If Necessary

2RP-2294



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

**Release Notification and Corrective Action**

**OPERATOR**

☐ Initial Report ☒ Final Report

Name of Company Cimarex Energy	Contact James Tinney
Address 600 N. Marienfeld Ste. 600 Midland, TX 79701	Telephone No. 575-706-0095
Facility Name Crow Flats 16 State 2H	Facility Type Production Battery

Surface Owner State	Mineral Owner State	API No. 30-015-35556
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**LOCATION OF RELEASE**

Unit Letter M	Section 16	Township 16S	Range 28E	Feet from the 660	North/South Line South	Feet from the 330	East/West Line West	County Eddy
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Latitude 32.917130 Longitude -104.188290

**NATURE OF RELEASE**

Type of Release Oil & Produced water	Volume of Release 15bbls oil & 5bbls PW	Volume Recovered 12bbls Mixed Fluids
Source of Release Heater Treater	Date and Hour of Occurrence 5/4/14 @0900hrs	Date and Hour of Discovery 5/4/14 @ 0900hrs
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? James Tinney	Date and Hour 5/5/14 @ 0710hrs	
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.\*

A hole in the fire tube on the heater treater caused the release of approximately 15bbls of oil and 5bbls of produced water. A vacuum truck was immediately dispatched to recover the standing fluids within the battery. Approximately 12bbls of mixed fluids were recovered.

Describe Area Affected and Cleanup Action Taken.\*

The affected area was within a bermed unlined battery. The affected area measured approximately 36-feet by 30-feet. Talon/LPE mobilized personnel to conduct an initial site assessment and conduct soil sampling within the impacted area. After initial soil sampling and vertical delineation activities were completed a work plan was drafted and subsequently approved by the NMOCD. The remediation was conducted in accordance with the approved work plan, confirmation samples showed that the impacted area had been successfully remediated and the excavation was backfilled with caliche.

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: <u>Christine Alderman</u>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name:	Approved by Environmental Specialist:	
Title:	Approval Date:	Expiration Date:
E-mail Address:	Conditions of Approval:	Attached <input type="checkbox"/>
Date:	Phone:	

\* Attach Additional Sheets If Necessary

# LABORATORY RESULTS



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

May 16, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: CROW FLATS

Enclosed are the results of analyses for samples received by the laboratory on 05/09/14 12:25.

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,

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: 05/09/2014  
Reported: 05/16/2014  
Project Name: CROW FLATS  
Project Number: 70116205801  
Project Location: EDDY COUNTY, NM

Sampling Date: 05/07/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-1 0' (H401411-01)**

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	05/14/2014	ND	2.57	128	2.00	1.88	
Toluene*	6.26	1.00	05/14/2014	ND	2.46	123	2.00	0.702	
Ethylbenzene*	9.04	1.00	05/14/2014	ND	2.31	115	2.00	1.10	
Total Xylenes*	19.2	3.00	05/14/2014	ND	7.02	117	6.00	0.363	
Total BTEX	34.5	6.00	05/14/2014	ND					

Surrogate: Dibromofluoromethane 99.1 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 130 % 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	34000	16.0	05/14/2014	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	1010	100	05/14/2014	ND	191	95.3	200	6.37		
DRO >C10-C28	32200	100	05/14/2014	ND	205	102	200	7.53		

Surrogate: 1-Chlorooctane 249 % 65.2-140

Surrogate: 1-Chlorooctadecane 938 % 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: 05/09/2014  
Reported: 05/16/2014  
Project Name: CROW FLATS  
Project Number: 70116205801  
Project Location: EDDY COUNTY, NM

Sampling Date: 05/07/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-1 .5' (H401411-02)**

BTEX 8260B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.46	2.00	05/14/2014	ND	2.57	128	2.00	1.88	
Toluene*	36.9	2.00	05/14/2014	ND	2.46	123	2.00	0.702	
Ethylbenzene*	32.7	2.00	05/14/2014	ND	2.31	115	2.00	1.10	
Total Xylenes*	64.7	6.00	05/14/2014	ND	7.02	117	6.00	0.363	
Total BTEX	137	12.0	05/14/2014	ND					

Surrogate: Dibromofluoromethane 97.4 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 122 % 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	12800	16.0	05/14/2014	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	2410	100	05/14/2014	ND	191	95.3	200	6.37	
DRO >C10-C28	18300	100	05/14/2014	ND	205	102	200	7.53	

Surrogate: 1-Chlorooctane 309 % 65.2-140

Surrogate: 1-Chlorooctadecane 425 % 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: 05/09/2014  
Reported: 05/16/2014  
Project Name: CROW FLATS  
Project Number: 70116205801  
Project Location: EDDY COUNTY, NM

Sampling Date: 05/07/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-2 0' (H401411-03)**

BTX 8260B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.214	0.100	05/14/2014	ND	2.57	128	2.00	1.88	
Toluene*	4.28	0.100	05/14/2014	ND	2.46	123	2.00	0.702	
Ethylbenzene*	5.19	0.100	05/14/2014	ND	2.31	115	2.00	1.10	
Total Xylenes*	11.4	0.300	05/14/2014	ND	7.02	117	6.00	0.363	
Total BTX	21.1	0.600	05/14/2014	ND					

Surrogate: Dibromofluoromethane 96.2 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 223 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8130	16.0	05/14/2014	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	119	50.0	05/14/2014	ND	191	95.3	200	6.37	
DRO >C10-C28	1660	50.0	05/14/2014	ND	205	102	200	7.53	

Surrogate: 1-Chlorooctane 140 % 65.2-140

Surrogate: 1-Chlorooctadecane 161 % 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: 05/09/2014  
Reported: 05/16/2014  
Project Name: CROW FLATS  
Project Number: 70116205801  
Project Location: EDDY COUNTY, NM

Sampling Date: 05/07/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-2 .5' (H401411-04)**

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	05/14/2014	ND	2.57	128	2.00	1.88	
Toluene*	2.50	0.500	05/14/2014	ND	2.46	123	2.00	0.702	
Ethylbenzene*	4.13	0.500	05/14/2014	ND	2.31	115	2.00	1.10	
Total Xylenes*	8.98	1.50	05/14/2014	ND	7.02	117	6.00	0.363	
Total BTEX	15.6	3.00	05/14/2014	ND					

Surrogate: Dibromofluoromethane 96.9 % 61.3-142

Surrogate: Toluene-d8 96.8 % 71.3-129

Surrogate: 4-Bromofluorobenzene 131 % 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	5040	16.0	05/14/2014	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	383	50.0	05/14/2014	ND	191	95.3	200	6.37		
DRO >C10-C28	3550	50.0	05/14/2014	ND	205	102	200	7.53		

Surrogate: 1-Chlorooctane 202 % 65.2-140

Surrogate: 1-Chlorooctadecane 283 % 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: 05/09/2014  
Reported: 05/16/2014  
Project Name: CROW FLATS  
Project Number: 70116205801  
Project Location: EDDY COUNTY, NM

Sampling Date: 05/07/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-3 0' (H401411-05)**

BTEX 8260B		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	05/14/2014	ND	2.57	128	2.00	1.88	
Toluene*	1.85	0.200	05/14/2014	ND	2.46	123	2.00	0.702	
Ethylbenzene*	2.75	0.200	05/14/2014	ND	2.31	115	2.00	1.10	
Total Xylenes*	6.29	0.600	05/14/2014	ND	7.02	117	6.00	0.363	
Total BTEX	10.9	1.20	05/14/2014	ND					

Surrogate: Dibromofluoromethane 98.0 % 61.3-142

Surrogate: Toluene-d8 99.5 % 71.3-129

Surrogate: 4-Bromofluorobenzene 162 % 65.7-141

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22000	16.0	05/14/2014	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	50.0	05/14/2014	ND	191	95.3	200	6.37	
DRO >C10-C28	7850	50.0	05/14/2014	ND	205	102	200	7.53	

Surrogate: 1-Chlorooctane 176 % 65.2-140

Surrogate: 1-Chlorooctadecane 266 % 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: 05/09/2014  
 Reported: 05/16/2014  
 Project Name: CROW FLATS  
 Project Number: 70116205801  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/07/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-3 .5' (H401411-06)**

BTEX 8260B		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	05/14/2014	ND	2.57	128	2.00	1.88	
Toluene*	<b>0.684</b>	0.200	05/14/2014	ND	2.46	123	2.00	0.702	
Ethylbenzene*	<b>1.09</b>	0.200	05/14/2014	ND	2.31	115	2.00	1.10	
Total Xylenes*	<b>2.86</b>	0.600	05/14/2014	ND	7.02	117	6.00	0.363	
Total BTEX	<b>4.64</b>	1.20	05/14/2014	ND					

Surrogate: Dibromofluoromethane 94.2 % 61.3-142

Surrogate: Toluene-d8 97.8 % 71.3-129

Surrogate: 4-Bromofluorobenzene 156 % 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	<b>29200</b>	16.0	05/14/2014	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	05/14/2014	ND	191	95.3	200	6.37	
DRO >C10-C28	<b>15100</b>	50.0	05/14/2014	ND	205	102	200	7.53	

Surrogate: 1-Chlorooctane 133 % 65.2-140

Surrogate: 1-Chlorooctadecane 510 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by 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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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ANALYSIS REQUEST

BIOLITO

P.O. #

Company: Talon/LPE

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

Project Manager:

Address: 408 W. Texas Ave.

City: Artesia

Phone #: 575-746-8768

Project #: 20116205801

Project Name: Crew Flats

Project Location: Eddy

Sample Name: G. Basso

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H401411

1 S.1 0.5

2 S.1 0.5

3 S.2 0.5

4 S.2 0.5

5 S.2 0.5

6 S.3 0.5

(G)RAB OR (C)OMP.  
# CONTAINERS  
GROUNDWATER  
WASTEWATER  
SOIL  
OIL  
SLUDGE  
OTHER:  
ACID/BASE:  
ICE / COOL  
OTHER:

DATE  
TIME

COH  
Chlorides  
BTEX

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Relinquished By:

Date: 8/1/14

Received By:

Relinquished By:

Date:

Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition  
Cool ☒ Intact ☒  
Yes ☒ No ☐

CHECKED BY: (Initials)

Phone Result:

Yes ☐ No ☐

Add'l Phone #:

Add'l Fax #:

REMARKS:



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

July 08, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: CROW FLATS #16

Enclosed are the results of analyses for samples received by the laboratory on 07/01/14 15:40.

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,

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:	07/01/2014	Sampling Date:	06/25/2014
Reported:	07/08/2014	Sampling Type:	Soil
Project Name:	CROW FLATS #16	Sampling Condition:	Cool & Intact
Project Number:	701162.058.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BH-1 5' (H402006-01)**

BTX 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	07/07/2014	ND	2.18	109	2.00	9.71	
Toluene*	<0.050	0.050	07/07/2014	ND	1.84	92.2	2.00	9.99	
Ethylbenzene*	<0.050	0.050	07/07/2014	ND	1.75	87.3	2.00	10.4	
Total Xylenes*	<0.150	0.150	07/07/2014	ND	5.43	90.6	6.00	11.5	
Total BTX	<0.300	0.300	07/07/2014	ND					

Surrogate: Dibromofluoromethane 103 % 61.3-142

Surrogate: Toluene-d8 104 % 71.3-129

Surrogate: 4-Bromofluorobenzene 106 % 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	816	16.0	07/08/2014	ND	416	104	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	07/04/2014	ND	180	90.2	200	1.72	
DRO >C10-C28	23.6	10.0	07/04/2014	ND	193	96.4	200	0.0794	

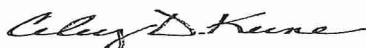
Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 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: 07/01/2014  
Reported: 07/08/2014  
Project Name: CROW FLATS #16  
Project Number: 701162.058.01  
Project Location: NOT GIVEN

Sampling Date: 06/25/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: BH-1 10' (H402006-02)**

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	07/07/2014	ND	2.16	108	2.00	1.57	
Toluene*	<0.050	0.050	07/07/2014	ND	1.78	89.0	2.00	2.82	
Ethylbenzene*	<0.050	0.050	07/07/2014	ND	1.69	84.3	2.00	3.97	
Total Xylenes*	<0.150	0.150	07/07/2014	ND	5.25	87.5	6.00	2.78	
Total BTEx	<0.300	0.300	07/07/2014	ND					

Surrogate: Dibromofluoromethane 97.7 % 61.3-142

Surrogate: Toluene-d8 104 % 71.3-129

Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/08/2014	ND	416	104	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	07/04/2014	ND	180	90.2	200	1.72	
DRO >C10-C28	<10.0	10.0	07/04/2014	ND	193	96.4	200	0.0794	

Surrogate: 1-Chlorooctane 115 % 65.2-140

Surrogate: 1-Chlorooctadecane 126 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

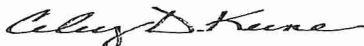
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received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

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Cardinal Laboratories

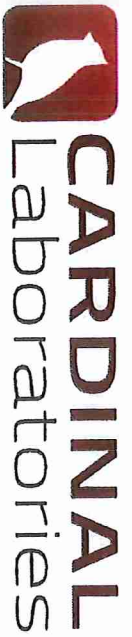
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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Talon/LPE		P.O. #:	
Project Manager: D. Adkins		Company: Talon/LPE	
Address: 408 W. Texas Ave.		Attn:	
City: Artesia	State: NM Zip: 88210	Address:	
Phone #: 575-746-8768	Fax #: 575-746-8905	City:	
Project #: 701162, 058, 01	Project Owner: Cimarex	State: Zip:	
Project Name: CWRP PLOTS 1 & 2	Phone #:	Fax #:	
Project Location:	Sample Name: S. Hitchcock	PRESERV/ SAMPLING	
FOR LAB USE ONLY			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	MATRIX
1402006	BH-1 5'	# CONTAINERS	GROUNDWATER
2 BH-1 0'	6-1	WASTEWATER	SOIL
		OIL	SLUDGE
		OTHER :	ACID/BASE:
			ICE / COOL
			OTHER :
		DATE	TIME
		6/25/14	2:33
		6/25/14	2:42
		TPH	/
		BTEX	/
		Chlorides	/
REMARKS:			
Relinquished By: <u>Stephen Hitchcock</u>			
Date: <u>6/25/14</u> Received By: <u>Michael Henderson</u>			
Time: <u>3:40</u>			
Date: <u>6/25/14</u>			
Time: <u>2:30</u>			
Delivered By: (Circle One) <u>2.80c</u>			
Sampler - UPS - Bus - Other: <u>2.80c</u>			
Sample Condition: <u>2.80c</u>			
Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>			
Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>			
CHECKED BY: <u>4/24</u>			
(Initials)			
Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:			
Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #:			

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 #44



November 12, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: CROW FLATS 16 ST. 2H

Enclosed are the results of analyses for samples received by the laboratory on 11/05/14 12:00.

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/ga/lab/accred/certif.html](http://www.tceq.texas.gov/field/ga/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: 11/05/2014  
Reported: 11/12/2014  
Project Name: CROW FLATS 16 ST. 2H  
Project Number: 701162.085.01  
Project Location: M-16-16-28

Sampling Date: 11/04/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-1 1' (H403411-01)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	11/12/2014	ND	2.11	105	2.00	1.58	
<b>Toluene*</b>	<b>31.7</b>	2.00	11/12/2014	ND	1.79	89.3	2.00	2.12	
<b>Ethylbenzene*</b>	<b>42.2</b>	2.00	11/12/2014	ND	1.81	90.3	2.00	2.59	
<b>Total Xylenes*</b>	<b>90.6</b>	6.00	11/12/2014	ND	6.02	100	6.00	1.61	
<b>Total BTX</b>	<b>165</b>	12.0	11/12/2014	ND					

Surrogate: Dibromofluoromethane 86.1 % 80.8-114

Surrogate: Toluene-d8 113 % 83.7-121

Surrogate: 4-Bromofluorobenzene 118 % 57.9-154

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>256</b>	16.0	11/06/2014	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
<b>GRO C6-C10</b>	<b>312</b>	10.0	11/06/2014	ND	189	94.3	200	2.33	
<b>DRO &gt;C10-C28</b>	<b>874</b>	10.0	11/06/2014	ND	195	97.3	200	3.40	

Surrogate: 1-Chlorooctane 121 % 47.2-157

Surrogate: 1-Chlorooctadecane 118 % 52.1-176

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: 11/05/2014  
Reported: 11/12/2014  
Project Name: CROW FLATS 16 ST. 2H  
Project Number: 701162.085.01  
Project Location: M-16-16-28

Sampling Date: 11/04/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-2 1' (H403411-02)**

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	11/06/2014	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	11/06/2014	ND	189	94.3	200	2.33	
DRO >C10-C28	73.0	10.0	11/06/2014	ND	195	97.3	200	3.40	
Surrogate: 1-Chlorooctane	100 %	47.2-157							
Surrogate: 1-Chlorooctadecane	110 %	52.1-176							

**Sample ID: S-3 1' (H403411-03)**

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	11/06/2014	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	138	10.0	11/06/2014	ND	189	94.3	200	2.33	
DRO >C10-C28	1890	10.0	11/06/2014	ND	195	97.3	200	3.40	
Surrogate: 1-Chlorooctane									
	112 %	47.2-157							
Surrogate: 1-Chlorooctadecane									
	122 %	52.1-176							

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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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\* = Accredited Analyte

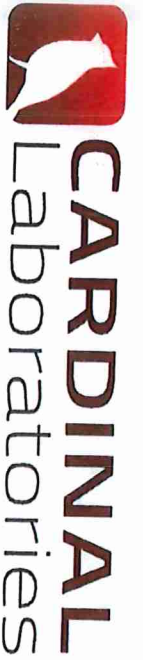
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Celey D. Keene, Lab Director/Quality Manager





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE

Project Manager: D. Adkins

Address: 408 W. Texas Ave.

City: Artesia

State: NM Zip: 88210

Phone #: 575-746-8768

Fax #: 575-746-8905

Project #: 701162.085.01

Project Owner: Cimarex

Project Name: Crow Flats 16 St. 2H

Project Location: M-16-16-28

Sampler Name: J. Hitchcock

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H403411

1

2

3

3-1'

3-2'

3-3'

5-1'

5-2'

5-3'

6-1'

6-2'

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6-283'

6-284'

6-285'

6-286'

6-287'

6-288'

6-289'

January 26, 2015

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: CROW FLATS

Enclosed are the results of analyses for samples received by the laboratory on 01/22/15 9:55.

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,



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: 01/22/2015  
Reported: 01/26/2015  
Project Name: CROW FLATS  
Project Number: 70116205801  
Project Location: EDDY COUNTY, NM

Sampling Date: 01/21/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-1 2' (H500213-01)**

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	01/24/2015	ND	1.73	86.3	2.00	4.78	
Toluene*	<0.050	0.050	01/24/2015	ND	1.68	83.8	2.00	5.78	
Ethylbenzene*	<0.050	0.050	01/24/2015	ND	1.64	81.8	2.00	5.48	
Total Xylenes*	<0.150	0.150	01/24/2015	ND	4.94	82.4	6.00	5.56	
Total BTEX	<0.300	0.300	01/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154

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\*=Accredited Analyte

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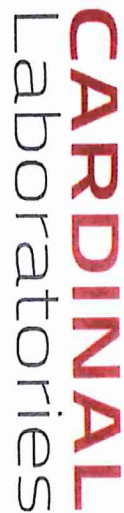
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Celey D. Keene, Lab Director/Quality Manager





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#54