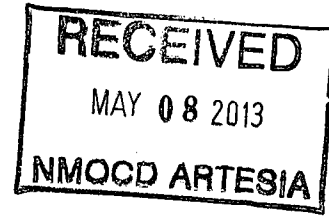




April 22, 2013



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

AUSTIN  
911 West Anderson Lane  
Suite 202  
Austin, Texas 78757  
Phone 512.989.3428  
Fax 512.989.3487

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

SAN ANTONIO  
11 Commercial Place  
Schertz, Texas 78154  
Phone 210.265.8025  
Fax 210.568.2191

TULSA  
525 South Main Street  
Suite 535  
Tulsa, Oklahoma 74103  
Phone 918.742.0871  
Fax 918.382.0232

Subject: **Soil Assessment and Remediation Work Plan**  
Oxy Permian, LTD  
North Burton Flats Battery

Dear Mr. Bratcher,

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

#### **Incident Date**

The release was discovered by Oxy personnel on March 17, 2013 at 7:00 am

#### **Background Information**

The Oxy North Burton Flats Battery release is located approximately Seventeen (17) miles North of Carlsbad, New Mexico. The legal location for the site is Section 23, Township 20S, Range 28E in Eddy County, New Mexico. More Specifically the latitude and longitude for the release are 32.565881 North -104.155764 west.

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 Gypsum land-Reeves complex with 0 to 3 percent slopes, eroded. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to middle Pleistocene in age and is comprised of eolian sands. Drainage courses in this area are normally dry. Ground water in the project vicinity is approximately 140-feet below ground surface, according to the New Mexico Office of the State Engineer.

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

30-015-33283  
Gov't AA Com #2

## Incident Description

A flange leaked on the heater treater causing a release of 40 barrels of produced fluids. The heater treater was taken out of service, repaired and put back into service. A vacuum truck was able to recover 10 barrels of produced fluids. The fluids flowed in a north-easterly direction from the heater treater, across the location for approximately 200-feet.

## Laboratory Results

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	34.7	1410	1190	17800
S-1	0.5	2.92	672	228	1860
S-2	0	828	3920	24600	44000
S-2	0.5	1400	704	38900	31400
S-2	1	86.7	2080	1690	5830
S-2	2	48.0	304	117	289
S-3	0	1180	1100	30700	45600
S-3	0.5	1210	448	32600	26500
S-3	1	1.46	112	ND	13.2
S-3	2	0.873	48.0	ND	ND
S-4	0	0.775	432	ND	25.7
S-4	0.5	ND	228	ND	ND
S-5	0	1200	1020	40800	64200
S-5	0.5	1360	96.0	28100	21300
S-5	1	289	32	3310	2490
S-5	2	ND	128	ND	49.0
S-6	0	0.833	80.0	20.7	1580
S-6	0.5	ND	32.0	23.4	35.3

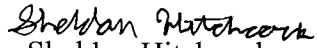
## Proposed Remedial Actions


- The impacted soil will be excavated to a depth of 1 to 2 feet below land surface. The excavated soil will be transported to an NMOCD approved solid waste disposal facility Lea Land, LLC.
- The excavated area will be backfilled using clean caliche, backhauled from Lea Land.
- A final report documenting all field activities and lab reports will be provided to the NMOCD Artesia Office including Form C-141.

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

Respectfully submitted,

TALON/LPE

  
Sheldon Hitchcock  
Environmental Scientist

  
David J. Adkins  
District Manager

## **SITE MAP**

Cattle  
Drinker

H2O  
Tank

S-6

Pasture

Cage

S-3

HT

4 Flowlines

4 Flowlines

Horizontal  
Separator

S-2

S-1

S-4

20' x 35'  
Visibly Clean  
Area

S-5



0 25 50

Scale in Feet

Legend

◇ - Sample Location



Date: 04/19/2013

Scale: 1" = 40'

Drawn By: TJS

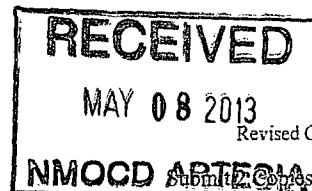
North Burton Flats Tank Battery

Oxy - NM - North  
Eddy County, New Mexico  
Figure 1 - Site Plan

**APPENDIX I**  
**GROUNDWATER DATA**  
**INITIAL C-141**

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company : Oxy Permian LTD (192463)	Contact : Chris Jones
Address : 1502 W. Commerce, Carlsbad, NM 88220	Telephone No. : 575-628-4121
Facility Name : North Burton Flats Battery	Facility Type: Central Tank Battery

Surface Owner : Federal	Mineral Owner	API#: Lease #: NM 18293
-------------------------	---------------	-------------------------

LOCATION OF RELEASE

30-015-33283

Unit Letter D	Section 23	Township 20S	Range 28E	Feet from the	North/South Line	Feet from the	East/West Line	County: Eddy
------------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	--------------

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

NATURE OF RELEASE

Type of Release : Produced Fluids	Volume of Release : 40 bbls	Volume Recovered: 10 bbls
Source of Release : Heater Treater	Date and Hour of Occurrence: 3/17/2013 7:00 am	Date and Hour of Discovery: 3/17/2013 7:00am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? OCD/Mike Bratcher & BLM/Jim Amos	
By Whom: Jonathan Haver 575-706-9249	Date and Hour : 3/18/2013 2:00 pm	
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 flange leaked on the heater treater causing a release of 40 barrels of produced fluids. The heater treater was taken out of service, repaired and put back into production. A vac truck was immediately called to the location and recovered 10 barrels of produced fluids.

Describe Area Affected and Cleanup Action Taken.\* The area impacted measured approximately 10'x60' around the heater treater. Talon/LPE has been contracted to complete site assessment and remediation activities.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC 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, NMOC 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:		OIL CONSERVATION DIVISION	
Printed Name: Chris Jones		Approved by District Supervisor:	
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Christopher Jones@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>	
Date: 3/18/2013 Phone: 575-628-4121			

\* Attach Additional Sheets If Necessary



# 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 Code	Subbasin	County	Q 6	Q 4	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00525			ED	3	2	1	14	20S	28E		579656	3604847*	1476	171	140	31
														Average Depth to Water:		140 feet
														Minimum Depth:		140 feet
														Maximum Depth:		140 feet

Record Count: 1

### UTM NAD83 Radius Search (in meters):

Easting (X): 579248

Northing (Y): 3603428

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.



**APPENDIX II**  
**LABORATORY RESULTS**



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

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March 25, 2013

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: OXY N. BURTON FLATS BATTERY HEATER

Enclosed are the results of analyses for samples received by the laboratory on 03/20/13 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list on 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:	03/20/2013	Sampling Date:	03/18/2013
Reported:	03/25/2013	Sampling Type:	Soil
Project Name:	OXY N. BURTON FLATS BATTERY HEATE	Sampling Condition:	Cool & Intact
Project Number:	700608.084.01	Sample Received By:	Daniel Wade
Project Location:	SEC.23 T20S R28E		

**Sample ID: S-1 0' (H300668-01)**

BTX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	03/23/2013	ND	1.88	93.8	2.00	8.50	
Toluene*	1.46	0.200	03/23/2013	ND	1.84	91.8	2.00	8.43	
Ethylbenzene*	2.27	0.200	03/23/2013	ND	1.87	93.3	2.00	8.23	
Total Xylenes*	31.0	0.600	03/23/2013	ND	5.40	90.0	6.00	7.93	
Total BTX	34.7	1.20	03/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 247 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	03/21/2013	ND	432	108	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	1190	50.0	03/22/2013	ND	201	100	200	7.32	
DRO >C10-C28	17800	50.0	03/22/2013	ND	199	99.4	200	11.1	

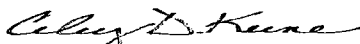
Surrogate: 1-Chlorooctane 197 % 65.2-140

Surrogate: 1-Chlorooctadecane 599 % 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:	03/20/2013	Sampling Date:	03/18/2013
Reported:	03/25/2013	Sampling Type:	Soil
Project Name:	OXY N. BURTON FLATS BATTERY HEATE	Sampling Condition:	Cool & Intact
Project Number:	700608.084.01	Sample Received By:	Daniel Wade
Project Location:	SEC.23 T20S R28E		

**Sample ID: S-1 0.5' (H300668-02)**

BTEX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2013	ND	1.88	93.8	2.00	8.50	
Toluene*	0.074	0.050	03/23/2013	ND	1.84	91.8	2.00	8.43	
Ethylbenzene*	0.155	0.050	03/23/2013	ND	1.87	93.3	2.00	8.23	
Total Xylenes*	2.70	0.150	03/23/2013	ND	5.40	90.0	6.00	7.93	
Total BTEX	2.92	0.300	03/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 146 % 89.4-126

Chloride, SM4500CI-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	03/21/2013	ND	432	108	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	228	10.0	03/22/2013	ND	201	100	200	7.32	
DRO >C10-C28	1860	10.0	03/22/2013	ND	199	99.4	200	11.1	


Surrogate: 1-Chlorooctane 121 % 65.2-140

Surrogate: 1-Chlorooctadecane 132 % 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:	03/20/2013	Sampling Date:	03/18/2013
Reported:	03/25/2013	Sampling Type:	Soil
Project Name:	OXY N. BURTON FLATS BATTERY HEATE	Sampling Condition:	Cool & Intact
Project Number:	700608.084.01	Sample Received By:	Daniel Wade
Project Location:	SEC.23 T20S R28E		

**Sample ID: S-2 0' (H300668-03)**

BTEX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>24.9</b>	1.00	03/25/2013	ND	1.88	93.8	2.00	8.50	
<b>Toluene*</b>	<b>247</b>	1.00	03/25/2013	ND	1.84	91.8	2.00	8.43	
<b>Ethylbenzene*</b>	<b>44.2</b>	1.00	03/25/2013	ND	1.87	93.3	2.00	8.23	
<b>Total Xylenes*</b>	<b>512</b>	3.00	03/25/2013	ND	5.40	90.0	6.00	7.93	
<b>Total BTEX</b>	<b>828</b>	6.00	03/25/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 174 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3920</b>	16.0	03/21/2013	ND	432	108	400	0.00	
<b>TPH 8015M</b>	<b>mg/kg</b>								

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>24600</b>	50.0	03/21/2013	ND	201	100	200	7.32	
<b>DRO &gt;C10-C28</b>	<b>44000</b>	50.0	03/21/2013	ND	199	99.4	200	11.1	

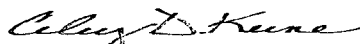
Surrogate: 1-Chlorooctane 519 % 65.2-140

Surrogate: 1-Chlorooctadecane 1270 % 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:	03/20/2013	Sampling Date:	03/18/2013
Reported:	03/25/2013	Sampling Type:	Soil
Project Name:	OXY N. BURTON FLATS BATTERY HEATE	Sampling Condition:	Cool & Intact
Project Number:	700608.084.01	Sample Received By:	Daniel Wade
Project Location:	SEC.23 T20S R28E		

**Sample ID: S-2 0.5' (H300668-04)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	49.5	5.00	03/25/2013	ND	1.88	93.8	2.00	8.50	
Toluene*	433	5.00	03/25/2013	ND	1.84	91.8	2.00	8.43	
Ethylbenzene*	73.5	5.00	03/25/2013	ND	1.87	93.3	2.00	8.23	
Total Xylenes*	841	15.0	03/25/2013	ND	5.40	90.0	6.00	7.93	
Total BTEX	1400	30.0	03/25/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 118 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	03/21/2013	ND	432	108	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	38900	50.0	03/21/2013	ND	201	100	200	7.32	
DRO >C10-C28	31400	50.0	03/21/2013	ND	199	99.4	200	11.1	

Surrogate: 1-Chlorooctane 538 % 65.2-140

Surrogate: 1-Chlorooctadecane 712 % 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:	03/20/2013	Sampling Date:	03/18/2013
Reported:	03/25/2013	Sampling Type:	Soil
Project Name:	OXY N. BURTON FLATS BATTERY HEATE	Sampling Condition:	Cool & Intact
Project Number:	700608.084.01	Sample Received By:	Daniel Wade
Project Location:	SEC.23 T20S R28E		

**Sample ID: S-3 0' (H300668-05)**

BTEX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>28.7</b>	2.00	03/23/2013	ND	1.88	93.8	2.00	8.50	
<b>Toluene*</b>	<b>337</b>	2.00	03/23/2013	ND	1.84	91.8	2.00	8.43	
<b>Ethylbenzene*</b>	<b>65.1</b>	2.00	03/23/2013	ND	1.87	93.3	2.00	8.23	
<b>Total Xylenes*</b>	<b>746</b>	6.00	03/23/2013	ND	5.40	90.0	6.00	7.93	
<b>Total BTEX</b>	<b>1180</b>	12.0	03/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 178 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1100</b>	16.0	03/21/2013	ND	432	108	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
<b>GRO C6-C10</b>	<b>30700</b>	50.0	03/21/2013	ND	211	106	200	9.03	
<b>DRO &gt;C10-C28</b>	<b>45600</b>	50.0	03/21/2013	ND	202	101	200	9.86	

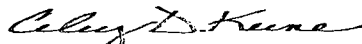
Surrogate: 1-Chlorooctane 613 % 65.2-140

Surrogate: 1-Chlorooctadecane 1270 % 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:	03/20/2013	Sampling Date:	03/18/2013
Reported:	03/25/2013	Sampling Type:	Soil
Project Name:	OXY N. BURTON FLATS BATTERY HEATE	Sampling Condition:	Cool & Intact
Project Number:	700608.084.01	Sample Received By:	Daniel Wade
Project Location:	SEC.23 T20S R28E		

**Sample ID: S-3 0.5' (H300668-06)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>71.8</b>	5.00	03/23/2013	ND	1.88	93.8	2.00	8.50	
<b>Toluene*</b>	<b>381</b>	5.00	03/23/2013	ND	1.84	91.8	2.00	8.43	
<b>Ethylbenzene*</b>	<b>59.3</b>	5.00	03/23/2013	ND	1.87	93.3	2.00	8.23	
<b>Total Xylenes*</b>	<b>700</b>	15.0	03/23/2013	ND	5.40	90.0	6.00	7.93	
<b>Total BTEX</b>	<b>1210</b>	30.0	03/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>448</b>	16.0	03/21/2013	ND	432	108	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	
<b>GRO C6-C10</b>	<b>32600</b>	50.0	03/21/2013	ND	211	106	200	9.03		
<b>DRO &gt;C10-C28</b>	<b>26500</b>	50.0	03/21/2013	ND	202	101	200	9.86		

Surrogate: 1-Chlorooctane 477 % 65.2-140

Surrogate: 1-Chlorooctadecane 625 % 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:	03/20/2013	Sampling Date:	03/18/2013
Reported:	03/25/2013	Sampling Type:	Soil
Project Name:	OXY N. BURTON FLATS BATTERY HEATE	Sampling Condition:	Cool & Intact
Project Number:	700608.084.01	Sample Received By:	Daniel Wade
Project Location:	SEC.23 T20S R28E		

**Sample ID: S-4 0' (H300668-07)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.084</b>	0.050	03/23/2013	ND	1.88	93.8	2.00	8.50	
<b>Toluene*</b>	<b>0.219</b>	0.050	03/23/2013	ND	1.84	91.8	2.00	8.43	
Ethylbenzene*	<0.050	0.050	03/23/2013	ND	1.87	93.3	2.00	8.23	
<b>Total Xylenes*</b>	<b>0.472</b>	0.150	03/23/2013	ND	5.40	90.0	6.00	7.93	
<b>Total BTEX</b>	<b>0.775</b>	0.300	03/23/2013	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>432</b>	16.0	03/21/2013	ND	432	108	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	03/21/2013	ND	211	106	200	9.03	
<b>DRO &gt;C10-C28</b>	<b>25.7</b>	10.0	03/21/2013	ND	202	101	200	9.86	

Surrogate: 1-Chlorooctane 96.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 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:	03/20/2013	Sampling Date:	03/18/2013
Reported:	03/25/2013	Sampling Type:	Soil
Project Name:	OXY N. BURTON FLATS BATTERY HEATE	Sampling Condition:	Cool & Intact
Project Number:	700608.084.01	Sample Received By:	Daniel Wade
Project Location:	SEC.23 T20S R28E		

**Sample ID: S-4 0.5' (H300668-08)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2013	ND	1.88	93.8	2.00	8.50	
Toluene*	<0.050	0.050	03/23/2013	ND	1.84	91.8	2.00	8.43	
Ethylbenzene*	<0.050	0.050	03/23/2013	ND	1.87	93.3	2.00	8.23	
Total Xylenes*	<0.150	0.150	03/23/2013	ND	5.40	90.0	6.00	7.93	
Total BTEX	<0.300	0.300	03/23/2013	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/21/2013	ND	432	108	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	03/21/2013	ND	211	106	200	9.03	
DRO >C10-C28	<10.0	10.0	03/21/2013	ND	202	101	200	9.86	

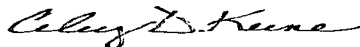
Surrogate: 1-Chlorooctane 97.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 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: 03/20/2013  
Reported: 03/25/2013  
Project Name: OXY N. BURTON FLATS BATTERY HEATE  
Project Number: 700608.084.01  
Project Location: SEC.23 T20S R28E

Sampling Date: 03/18/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Daniel Wade

**Sample ID: S-5 0' (H300668-09)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>42.7</b>	10.0	03/23/2013	ND	1.88	93.8	2.00	8.50	
<b>Toluene*</b>	<b>348</b>	10.0	03/23/2013	ND	1.84	91.8	2.00	8.43	
<b>Ethylbenzene*</b>	<b>63.2</b>	10.0	03/23/2013	ND	1.87	93.3	2.00	8.23	
<b>Total Xylenes*</b>	<b>744</b>	30.0	03/23/2013	ND	5.40	90.0	6.00	7.93	
<b>Total BTEX</b>	<b>1200</b>	60.0	03/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 116 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1020</b>	16.0	03/21/2013	ND	432	108	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>40800</b>	200	03/22/2013	ND	211	106	200	9.03	
<b>DRO &gt;C10-C28</b>	<b>64200</b>	200	03/22/2013	ND	202	101	200	9.86	

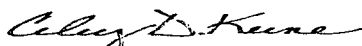
Surrogate: 1-Chlorooctane 808 % 65.2-140

Surrogate: 1-Chlorooctadecane 1730 % 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:	03/20/2013	Sampling Date:	03/18/2013
Reported:	03/25/2013	Sampling Type:	Soil
Project Name:	OXY N. BURTON FLATS BATTERY HEATE	Sampling Condition:	Cool & Intact
Project Number:	700608.084.01	Sample Received By:	Daniel Wade
Project Location:	SEC.23 T20S R28E		

**Sample ID: S-5 0.5' (H300668-10)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	97.7	5.00	03/23/2013	ND	1.88	93.8	2.00	8.50	
Toluene*	451	5.00	03/23/2013	ND	1.84	91.8	2.00	8.43	
Ethylbenzene*	64.5	5.00	03/23/2013	ND	1.87	93.3	2.00	8.23	
Total Xylenes*	750	15.0	03/23/2013	ND	5.40	90.0	6.00	7.93	
Total BTEX	1360	30.0	03/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 120 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/21/2013	ND	432	108	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	28100	50.0	03/22/2013	ND	211	106	200	9.03	
DRO >C10-C28	21300	50.0	03/22/2013	ND	202	101	200	9.86	

Surrogate: 1-Chlorooctane 394 % 65.2-140

Surrogate: 1-Chlorooctadecane 559 % 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:	03/20/2013	Sampling Date:	03/18/2013
Reported:	03/25/2013	Sampling Type:	Soil
Project Name:	OXY N. BURTON FLATS BATTERY HEATE	Sampling Condition:	Cool & Intact
Project Number:	700608.084.01	Sample Received By:	Daniel Wade
Project Location:	SEC.23 T20S R28E		

**Sample ID: S-6 0' (H300668-11)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.135</b>	0.050	03/25/2013	ND	1.88	93.8	2.00	8.50	
<b>Toluene*</b>	<b>0.289</b>	0.050	03/25/2013	ND	1.84	91.8	2.00	8.43	
Ethylbenzene*	<0.050	0.050	03/25/2013	ND	1.87	93.3	2.00	8.23	
<b>Total Xylenes*</b>	<b>0.408</b>	0.150	03/25/2013	ND	5.40	90.0	6.00	7.93	
<b>Total BTEX</b>	<b>0.833</b>	0.300	03/25/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	03/21/2013	ND	432	108	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>20.7</b>	10.0	03/22/2013	ND	211	106	200	9.03	
<b>DRO &gt;C10-C28</b>	<b>1580</b>	10.0	03/22/2013	ND	202	101	200	9.86	

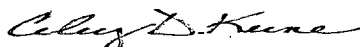
Surrogate: 1-Chlorooctane 84.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 143 % 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:	03/20/2013	Sampling Date:	03/18/2013
Reported:	03/25/2013	Sampling Type:	Soil
Project Name:	OXY N. BURTON FLATS BATTERY HEATE	Sampling Condition:	Cool & Intact
Project Number:	700608.084.01	Sample Received By:	Daniel Wade
Project Location:	SEC.23 T20S R28E		

**Sample ID: S-6 0.5' (H300668-12)**

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2013	ND	1.88	93.8	2.00	8.50	
<b>Toluene*</b>	<b>0.137</b>	0.050	03/23/2013	ND	1.84	91.8	2.00	8.43	
Ethylbenzene*	<0.050	0.050	03/23/2013	ND	1.87	93.3	2.00	8.23	
Total Xylenes*	<0.150	0.150	03/23/2013	ND	5.40	90.0	6.00	7.93	
Total BTX	<0.300	0.300	03/23/2013	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	03/21/2013	ND	432	108	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>23.4</b>	10.0	03/21/2013	ND	211	106	200	9.03	
<b>DRO &gt;C10-C28</b>	<b>35.3</b>	10.0	03/21/2013	ND	202	101	200	9.86	

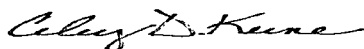
Surrogate: 1-Chlorooctane 95.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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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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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 15 of 16

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

Company Name: Talon/LPE		BILL TO		ANALYSIS REQUEST																									
Project Manager: D. Adkins		P.O. #:																											
Address: 408 W. Texas Ave.		Company: Talon/LPE																											
City: Artesia State: NM Zip: 88210		Attn:																											
Phone #: 575-746-8768 Fax #: 575-746-8905		Address:																											
Project #: 700608.084.01 Project Owner: OXY		City:																											
Project Name: OXY N. Burton Flats Battery Water		State: Zip:																											
Project Location: Sec. 23 T2S R2E		Phone #:																											
Sampler Name: Sheldon Hitchcock		Fax #:																											
FOR LAB USE ONLY																													
Lab I.D.	Sample I.D.	(GRAB OR COMP.)	# CONTAINERS													MATRIX					PRESERV.		SAMPLING		TPH	BTEX	Chlorides		
																GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE/COOL	OTHER				DATE	TIME
H300668																													
1	5-1 0'	/	1													/		/				/						3-18-13	12:03p
2	5-1 0.5'	/	1													/		/				/							12:06p
3	5-2 0'	/	1	/		/				/				12:09p															
4	5-2 0.5'	/	1	/		/				/				12:12p															
5	5-3 0'	/	1	/		/				/				12:14p															
6	5-3 0.5'	/	1	/		/				/				12:16p															
7	5-4 0'	/	1	/		/				/				12:19p															
8	5-4 0.5'	/	1	/		/				/				12:23p															
9	5-5 0'	/	1	/		/				/				12:25p															
10	5-6 0.5'	/	1	/		/				/				12:26p															
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																													
Relinquished By:		Date: 3/20/13		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																					
Sheldon Hitchcock		Time: 9:00am		[Signature]		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																					
Relinquished By:		Date:		Received By:		REMARKS:																							
		Time:																											
Delivered By: (Circle One)				Sample Condition		CHECKED BY:																							
Sampler - UPS - Bus - Other:				Cool / Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		[Signature]																							

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#26





# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Talon/LPE</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>															
Project Manager: <u>D. Adkins</u>				P.O. #:				<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chlorides</div> </div>															
Address: <u>408 W. Texas Ave.</u>				Company: <u>Talon/LPE</u>																			
City: <u>Artesia</u> State: <u>NM</u> Zip: <u>88210</u>				Attn:																			
Phone #: <u>575-746-8768</u> Fax #: <u>575-746-8905</u>				Address:																			
Project #: <u>700608.084.01</u> Project Owner: <u>OXY</u>				City:																			
Project Name: <u>OXY N. Burton Flats Battery Heater</u>				State: Zip:																			
Project Location: <u>Sec 123 T205 R28E</u>				Phone #:																			
Sampler Name: <u>Sheldon Hitchcock</u>				Fax #:																			
FOR LAB USE ONLY				MATRIX		PRESERV		SAMPLING															
Lab I.D.	Sample I.D.	(GRAB OR (COMB. # CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME										
<u>H320608</u>																							
<u>11</u>	<u>5-6 0'</u>	<u>/</u>	<u>/</u>									<u>3-18-13</u>	<u>12:30p</u>	<u>/</u>	<u>/</u>	<u>/</u>							
<u>12</u>	<u>5-6 0.5'</u>	<u>/</u>	<u>/</u>									<u>3-18-13</u>	<u>12:36p</u>	<u>/</u>	<u>/</u>	<u>/</u>							

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Relinquished By:	Date: <u>3/20/13</u>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<u>Sheldon Hitchcock</u>	Time: <u>8:00AM</u>	<u>[Signature]</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)		Sample Condition	CHECKED BY:	
Sampler - UPS - Bus - Other:		Cool Intact	(Initials)	
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>[Signature]</u>	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#26



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

April 05, 2013

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: OXY N. BURTON FLATS BATTERY HEATER

Enclosed are the results of analyses for samples received by the laboratory on 03/28/13 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [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:	03/28/2013	Sampling Date:	03/27/2013
Reported:	04/05/2013	Sampling Type:	Soil
Project Name:	OXY N. BURTON FLATS BATTERY HEATE	Sampling Condition:	Cool & Intact
Project Number:	700608.084.01	Sample Received By:	Jodi Henson
Project Location:	SEC.23 T20S R28E		

**Sample ID: S-2 1' (H300753-01)**

BTEX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.675</b>	0.100	04/04/2013	ND	1.90	94.9	2.00	7.76	
<b>Toluene*</b>	<b>16.7</b>	0.100	04/04/2013	ND	2.09	105	2.00	8.11	
<b>Ethylbenzene*</b>	<b>5.63</b>	0.100	04/04/2013	ND	2.21	111	2.00	8.07	
<b>Total Xylenes*</b>	<b>63.7</b>	0.300	04/04/2013	ND	6.53	109	6.00	7.37	
<b>Total BTEX</b>	<b>86.7</b>	0.600	04/04/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 410 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2080</b>	16.0	04/01/2013	ND	448	112	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>1690</b>	10.0	04/02/2013	ND	180	90.1	200	9.90	
<b>DRO &gt;C10-C28</b>	<b>5830</b>	10.0	04/02/2013	ND	178	88.8	200	10.9	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>1690</b>	10.0	04/02/2013	ND	180	90.1	200	9.90	
<b>DRO &gt;C10-C28</b>	<b>5830</b>	10.0	04/02/2013	ND	178	88.8	200	10.9	

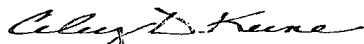
Surrogate: 1-Chlorooctane 171 % 65.2-140

Surrogate: 1-Chlorooctadecane 230 % 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:	03/28/2013	Sampling Date:	03/27/2013
Reported:	04/05/2013	Sampling Type:	Soil
Project Name:	OXY N. BURTON FLATS BATTERY HEATE	Sampling Condition:	Cool & Intact
Project Number:	700608.084.01	Sample Received By:	Jodi Henson
Project Location:	SEC.23 T20S R28E		

**Sample ID: S-2 2' (H300753-02)**

BTEX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.532</b>	0.100	04/04/2013	ND	1.90	94.9	2.00	7.76	
<b>Toluene*</b>	<b>9.34</b>	0.100	04/04/2013	ND	2.09	105	2.00	8.11	
<b>Ethylbenzene*</b>	<b>2.72</b>	0.100	04/04/2013	ND	2.21	111	2.00	8.07	
<b>Total Xylenes*</b>	<b>35.4</b>	0.300	04/04/2013	ND	6.53	109	6.00	7.37	
<b>Total BTEX</b>	<b>48.0</b>	0.600	04/04/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 211 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>304</b>	16.0	04/01/2013	ND	448	112	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>117</b>	10.0	04/02/2013	ND	180	90.1	200	9.90	
<b>DRO &gt;C10-C28</b>	<b>289</b>	10.0	04/02/2013	ND	178	88.8	200	10.9	

Surrogate: 1-Chlorooctane 83.8 % 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  
DAVID ADKINS  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received:	03/28/2013	Sampling Date:	03/27/2013
Reported:	04/05/2013	Sampling Type:	Soil
Project Name:	OXY N. BURTON FLATS BATTERY HEATE	Sampling Condition:	Cool & Intact
Project Number:	700608.084.01	Sample Received By:	Jodi Henson
Project Location:	SEC.23 T20S R28E		

**Sample ID: S-3 1' (H300753-03)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2013	ND	1.90	94.9	2.00	7.76	
Toluene*	<b>0.362</b>	0.050	04/04/2013	ND	2.09	105	2.00	8.11	
Ethylbenzene*	<b>0.090</b>	0.050	04/04/2013	ND	2.21	111	2.00	8.07	
Total Xylenes*	<b>1.00</b>	0.150	04/04/2013	ND	6.53	109	6.00	7.37	
Total BTEX	<b>1.46</b>	0.300	04/04/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 113 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>112</b>	16.0	04/01/2013	ND	448	112	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	04/02/2013	ND	180	90.1	200	9.90	
DRO >C10-C28	<b>13.2</b>	10.0	04/02/2013	ND	178	88.8	200	10.9	

Surrogate: 1-Chlorooctane 76.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 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:	03/28/2013	Sampling Date:	03/27/2013
Reported:	04/05/2013	Sampling Type:	Soil
Project Name:	OXY N. BURTON FLATS BATTERY HEATE	Sampling Condition:	Cool & Intact
Project Number:	700608.084.01	Sample Received By:	Jodi Henson
Project Location:	SEC.23 T20S R28E		

**Sample ID: S-3 2' (H300753-04)**

BTEx 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2013	ND	1.90	94.9	2.00	7.76		
Toluene*	0.217	0.050	04/03/2013	ND	2.09	105	2.00	8.11		
Ethylbenzene*	<0.050	0.050	04/03/2013	ND	2.21	111	2.00	8.07		
Total Xylenes*	0.656	0.150	04/03/2013	ND	6.53	109	6.00	7.37		
Total BTEx	0.873	0.300	04/03/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/01/2013	ND	448	112	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	04/02/2013	ND	180	90.1	200	9.90	
DRO >C10-C28	<10.0	10.0	04/02/2013	ND	178	88.8	200	10.9	

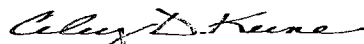
Surrogate: 1-Chlorooctane 75.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 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:	03/28/2013	Sampling Date:	03/27/2013
Reported:	04/05/2013	Sampling Type:	Soil
Project Name:	OXY N. BURTON FLATS BATTERY HEATE	Sampling Condition:	Cool & Intact
Project Number:	700608.084.01	Sample Received By:	Jodi Henson
Project Location:	SEC.23 T20S R28E		

**Sample ID: S-5 1' (H300753-05)**

BTX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>18.4</b>	0.500	04/05/2013	ND	1.90	94.9	2.00	7.76	
<b>Toluene*</b>	<b>102</b>	0.500	04/05/2013	ND	2.09	105	2.00	8.11	
<b>Ethylbenzene*</b>	<b>13.8</b>	0.500	04/05/2013	ND	2.21	111	2.00	8.07	
<b>Total Xylenes*</b>	<b>155</b>	1.50	04/05/2013	ND	6.53	109	6.00	7.37	
<b>Total BTX</b>	<b>289</b>	3.00	04/05/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 131 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	04/01/2013	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>3310</b>	10.0	04/02/2013	ND	180	90.1	200	9.90	
<b>DRO &gt;C10-C28</b>	<b>2490</b>	10.0	04/02/2013	ND	178	88.8	200	10.9	

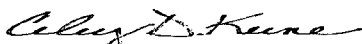
Surrogate: 1-Chlorooctane 160 % 65.2-140

Surrogate: 1-Chlorooctadecane 136 % 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:	03/28/2013	Sampling Date:	03/27/2013
Reported:	04/05/2013	Sampling Type:	Soil
Project Name:	OXY N. BURTON FLATS BATTERY HEATE	Sampling Condition:	Cool & Intact
Project Number:	700608.084.01	Sample Received By:	Jodi Henson
Project Location:	SEC.23 T20S R28E		

**Sample ID: S-5 2' (H300753-06)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2013	ND	1.90	94.9	2.00	7.76	
<b>Toluene*</b>	<b>0.070</b>	0.050	04/05/2013	ND	2.09	105	2.00	8.11	
Ethylbenzene*	<0.050	0.050	04/05/2013	ND	2.21	111	2.00	8.07	
Total Xylenes*	<0.150	0.150	04/05/2013	ND	6.53	109	6.00	7.37	
Total BTEX	<0.300	0.300	04/05/2013	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/01/2013	ND	448	112	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					

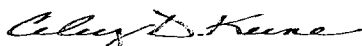
Surrogate: 1-Chlorooctane 80.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



### Notes and Definitions

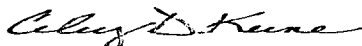
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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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: <b>Talon/LPE</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																							
Project Manager: <b>D. Atkins</b>		P.O. #:		<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chlorides</div> </div>																							
Address: <b>408 W. Texas Ave.</b>		Company: <b>Talon/LPE</b>																									
City: <b>Artesia</b> State: <b>NM</b> Zip: <b>88210</b>		Attn:																									
Phone #: <b>575-746-8768</b> Fax #: <b>575-746-8906</b>		Address:																									
Project #: <b>700608.084.01</b> Project Owner: <b>OXY</b>		City:																									
Project Name: <b>OXY N. Burton Flats</b>		State: Zip:																									
Project Location: <b>523-T205-R28E</b>		Phone #:																									
Sampler Name: <b>Sheldon Hitchcock</b>		Fax #:																									
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE	TIME													
<b>H300153</b>																											
1	5-2 1'	4	1			/					/		3-27-13	10:36	/	/	/										
2	5-2 2'	4	1			/					/			10:41	/	/	/										
3	5-3 1'	4	1			/					/			10:50	/	/	/										
4	5-3 2'	4	1			/					/			10:56	/	/	/										
5	5-5 1'	4	1			/					/			10:59	/	/	/										
6	5-5 2'	4	1			/					/			11:11	/	/	/										

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Relinquished By:	Date:	Time:	Received By:	Phone Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<b>Sheldon Hitchcock</b>	<b>3/28/13</b>	<b>3:40</b>	<b>Jodi Benson</b>	Fax Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Time:	Received By:	REMARKS:		
Delivered By: (Circle One)			Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:			Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	(Initials)		
			<input type="checkbox"/> Yes <input type="checkbox"/> No			

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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