

July 17, 2013

Mr. Mike Bratcher NMOCD District 2

AMARILLO 921 North Bivins Amarillo. Texas 79107 Phone 806.467.0607 Fax 806.467.0622

ARTESIA 408 West Texas Ave. Artesia, New Mexico 882!0 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

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OKLAHOMA CITY 7700 North Hudson Avenue Suite 10 Oklahoma City, Oklahoma 73116 Phone 405.486.7030 Fax 806.467.0622

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

811 S. 1<sup>st</sup> Street Artesia, NM 88210

Subject:

**Remedial Activities and Closure Report** Oxy Permian, LTD North Burton Flats Tank 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 incident description, soil sampling results, remediation activities and closure request are submitted herein.

# 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 (bgs), according to the New Mexico Office of the State Engineer. The referenced groundwater data is presented in Appendix II.

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 JUL 2 3 2013

NMOCD ARTESIA

# **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.

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# **Remedial Actions**

# March 18, 2013

- Talon personnel were mobilized to carry out soil sampling activities (See Appendix I for site map of sample locations.)\*
- Grab soil samples were collected at sample locations S-1 (0'& 0.5'), S-2 (0'& 0.5'), S-3 (0'& 0.5'), S-4 (0'& 0.5'), S-5 (0'& 0.5'), and S-6 (0'& 0.5') (See Appendix I for site map of sample locations.)\*
- Samples were sent to Cardinal Laboratories in Hobbs, New Mexico for analysis. A data table summarizing the results is attached. (See Appendix IV for complete laboratory results.)

# March 27, 2013

- Upon receipt of analytical data from sampling activities on March 18, 2013, Talon personnel mobilized to further delineate the vertical impacts.
- Grab soil samples were collected at sample locations S-2 (1'& 2'), S-3 (1'& 2'), and S-5 (1' & 2').
- Samples were sent to Cardinal Laboratories in Hobbs, New Mexico for analysis. A data table summarizing the results is attached. (See Appendix IV for complete laboratory results.)

# June 16, 2013

- Following NMOCD approval of the remediation work plan talon personnel were mobilized to begin excavating the impacted area to a depth of 1 to 2 feet bgs.
- A hydro-excavator was used to spot buried lines running across location.
- A roustabout crew was retained to hand dig the area around the heater treater and other infrastructure on site.
- All contaminated soil was transported to New Mexico Oil Conservation Division (NMOCD) approved solid waste disposal facility Lea Land, LLC.

# June 17, 2013 through June 24, 2013

• Soil excavation and disposal activities continued.

# June 27, 2013

• Talon completed backfill of the excavation.

\*All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, volatile organics (BTEX) using EPA Method 8021B, and total Chloride concentration using Method SM4500CL-B. The complete laboratory reports are attached.

# Analytical Results from sampling activities on March 18 & 27, 2013

Analytical results detailed on the attached laboratory report are summarized below:

Sample ID	Depth	BTEX	Chlorides	TPH (mg/kg)	TPH (mg/kg)
	(feet)	(mg/kg)	(mg/kg)	GRO	<sup>,</sup> 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

(ND) Analyte Not Detected

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

# **Summary and Conclusions**

- Ground water in the project vicinity is 140-feet bgs.
- The impacted soil was excavated to a depth of 1-foot to 2-feet bgs.
- Caliche back hauled from Lea Land was used to backfill the excavation.
- All of the impacts were contained to the location therefore no seeding was required.

# Closure

On behalf of Oxy Permian we respectfully request that no further actions be required and that closure with regard to this release be grated.

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

Respectfully submitted,

TALON/LPE

Horn Shelden

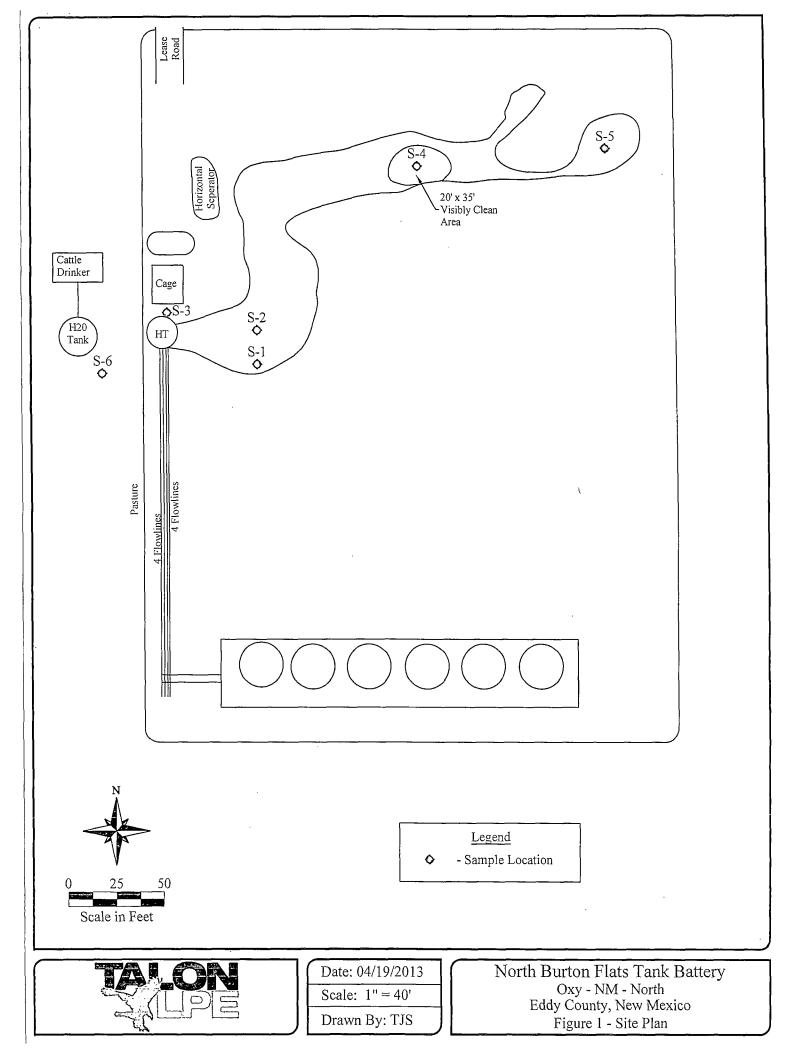
Sheldon Hitchcock Environmental Scientist

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David J. Adkins District Manager

SITE MAP



# **GROUNDWATER DATA**

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# New Mexico Office of the State Engineer Water Column/Average Depth to Water

Radius: 2000

(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)	· •					E 3=SW argest)	1	3 UTM in me	ters)	(1	n feet)	
	POD		QC	ם מ	1						Depth	Depth Wa	ater
POD Number	Code Subbasin	County	64 1	64	Sec	: Tws	Rng	х	Y	Distance	•	Water Col	
CP 00525		ED	3 2	21	14	20S	28E	579656	3604847*	1476	171	140	31
									Avera	ge Depth to	Water:	140 fee	t
										Minimum	Depth:	140 fee	t
										Maximum	Depth:	140 fee	t
Record Count: 1									•••				

Northing (Y): 3603428

### Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 579248

\*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.

# LABORATORY RESULTS



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 <a href="https://www.tceq.texas.qov/field/ga/lab\_accred\_certif.html">www.tceq.texas.qov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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,

Celez D. Keine

Celey D. Keene

Lab Director/Quality Manager



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)

BTEX 8021B	mg/	kg	Analyze	d 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 BTEX	34.7	1.20	03/23/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	247 9	6 89.4-12	6	<sup></sup>					
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS	. <u> </u>				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 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	599 %	63.6-15	4						

## **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celing D. Keine

Celey D. Keene, Lab Director/Quality Manager



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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	Analyze	d 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 (PIL	1469	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	<sup>-</sup> True Value QC	RPD	Qualifier
Chloride	672	16.0	03/21/2013	ND	432	108	400	0.00	
ТРН 8015М	mg/	kg	Analyze	d 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 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	132 9	63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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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	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	24.9	1.00	03/25/2013	ND	1.88	93.8	2.00	8.50	
Toluene*	247	1.00	03/25/2013	ND	1.84	91.8	2.00	8.43	
Ethylbenzene*	44.2	1.00	03/25/2013	ND	1.87	93.3	2.00	8.23	
Total Xylenes*	512	3.00	03/25/2013	ND	5.40	90.0	6.00	7.93	
Total BTEX	828	6.00	03/25/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	174	% 89.4-12	6	·				,	
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	03/21/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	24600	50.0	03/21/2013	ND	201	100	200	7.32	
DRO >C10-C28	44000	50.0	03/21/2013	ND	199	99.4	200	11.1	
Surrogate: 1-Chlorooctane	519	65.2-14	0						
Surrogate: 1-Chlorooctadecane	1270	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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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	Analyze	d By: AP	<u></u>	<u></u>			
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 (PIL	118 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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	Analyze	d 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 9	65.2-14	0				, <u>, , , , , , , , , , , , , , , , </u>		
Surrogate: 1-Chlorooctadecane	712 9	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager

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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							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	28.7	2.00	03/23/2013	ND	1.88	93.8	2.00	8.50		
Toluene*	337	2.00	03/23/2013	ND	1.84	91.8	2.00	8.43		
Ethylbenzene*	65.1	2.00	03/23/2013	ND	1.87	93.3	2.00	8.23		
Total Xylenes*	746	6.00	03/23/2013	ND	5.40	90.0	6.00	7.93		
Total BTEX	1180	12.0	03/23/2013	ND						
Surrogate: 4-Bromofluorobenzene (PIL	178 9	6 89.4-12	6					······	· · · · · ·	
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	03/21/2013	ND	432	108	400	0.00		
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	30700	50.0	03/21/2013	ND	211	106	200	9.03		
DRO >C10-C28	45600	50.0	03/21/2013	ND	202	101	200	9.86		
Surrogate: 1-Chlorooctane	613 9	65.2-14	0							
Surrogate: 1-Chlorooctadecane	1270	% 63.6-15	4							

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celing D. Keine

Celey D. Keene, Lab Director/Quality Manager



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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		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	71.8	5.00	03/23/2013	ND	1.88	93.8	2.00	8.50	
Toluene*	381	5.00	03/23/2013	ND	1.84	91.8	2.00	8.43	
Ethylbenzene*	59.3	5.00	03/23/2013	ND	1.87	93.3	2.00	8.23	
Total Xylenes*	700	15.0	03/23/2013	ND	5.40	90.0	6.00	7.93	
Total BTEX	1210	30.0	03/23/2013	ND	•				
Surrogate: 4-Bromofluorobenzene (PIL	122	% 89.4-12	6			<u>-</u>	<u> </u>		
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: DW			<u></u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	03/21/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS		<u> </u>			S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	32600	50.0	03/21/2013	ND	211	106	200	9.03	
DR0 >C10-C28	26500	50.0	03/21/2013	ND	202	101	200	9.86	
Surrogate: 1-Chlorooctane	477	65.2-14	0						
Surrogate: 1-Chlorooctadecane	625	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager

Page 7 of 16



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	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.084	0.050	03/23/2013	ND	1.88	93.8	2.00	8.50	
Toluene*	0.219	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*	0.472	0.150	03/23/2013	ND	5.40	90.0	6.00	7.93	
Total BTEX	0.775	0.300	03/23/2013	ND		· ·			
Surrogate: 4-Bromofluorobenzene (PIL	105 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	03/21/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d 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	25.7	10.0	.03/21/2013	ND	202	101	200	9.86	
Surrogate: 1-Chlorooctane	96.8	65.2-14	0						<u> </u>
Surrogate: 1-Chlorooctadecane	104 \$	63.6-15	4						

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager



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/l	kg	Analyze	d 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 (PIL	102 %	6 89.4-12	6						
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	% 65.2-14	0					<b></b>	

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Page 9 of 16



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' (H300668-09)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	42.7	10.0	03/23/2013	ND	1.88	93.8	2.00	8.50	
Toluene*	348	10.0	03/23/2013	ND	1.84	91.8	2.00	8.43	
Ethylbenzene*	63.2	10.0	03/23/2013	ND	1.87	93.3	2.00	8.23	
Total Xylenes*	744	30.0	03/23/2013	ND	5.40	90.0	6.00	7.93	
Total BTEX	1200	60.0	03/23/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	116 9	89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	03/21/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS		<u></u>	<u></u>		S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	40800	200	03/22/2013	ND	211	106	200	9.03	
DRO >C10-C28	64200	200	03/22/2013	ND	202	101	200	9.86	
Surrogate: 1-Chlorooctane	808 :	65.2-14	0						
Surrogate: 1-Chlorooctadecane	1730	% 63.6-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GR0 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	559	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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•	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	Analyze	d By: AP		<u> </u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.135	0.050	03/25/2013	ND	1.88	93.8	2.00	8.50	
Toluene*	0.289	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	
Total Xylenes*	0.408	0.150	03/25/2013	ND	5.40	90.0	6.00	7.93	
Total BTEX	0.833	0.300	03/25/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 5	% 89.4-12	6					<u></u>	
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: DW		<u> </u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/21/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	20.7	10.0	03/22/2013	ND	211	106	200	9.03	
DRO >C10-C28	1580	10.0	03/22/2013	ND	202	101	200	9.86	
Surrogate: 1-Chlorooctane	84.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	143	% 63.6-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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)

BTEX 8021B	mg/k	.g	Analyze	d By: AP			<u></u>		
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*	0.137	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 (PIL	104 %	89.4-12	6						
Chloride, SM4500Cl-B	mg/l	(g	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/21/2013	ND	432	108	400	0.00	
TPH 8015M	mg/l	(g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	23.4	10.0	03/21/2013	ND	211	106	200	9.03	
DRO >C10-C28	35.3	10.0	03/21/2013	ND	202	101	200	9.86	
Surrogate: 1-Chlorooctane	95.9%	65.2-14	0						
Surrogate: 1-Chlorooctadecane	111 %	63.6-15	4						

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Celeg D. Kune

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 SM4500CI-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

**CARDINAL** Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, Hobbs, NM 882 (575) 393-2326 FAX (575) 393-247				· ·	
Company Name			BILL TO		ANALYSIS RE	EQUEST
Project Manage		· · · · · · · · · · · · · · · · · · ·	P.O. #:			
Address: 40	8 W. TEXAS AVC.		Company: Talon/LF	2E		
City: A 1+C		Zip: 8820	Attn:			
Phone #: 575		-746-8905	Address:			
Project #: 7 <i>00</i>		<u> </u>	City:			
Project Name: 4		ry Heater	State: Zip:			
Project Location	: Sec: 23 TZas RZBE	2	Phone #:			
Sampler Name:	Sheldon Hitch COCK	· · · · · · · · · · · · · · · · · · ·	Fax #:			
FOR LAB USE ONLY			PRESERV. SAMPLING	<u> </u>		
•.		(C)OMP ERS ER ER				
Lab I.D.	Sample I.D.	OR (C AINER WATEI	Ü ə	THE		n an
Lao 1.0.	Jampie I.J.	AB O UND' GE	R : COC	H H H H		
H300668		(G)RAB OR (C)O) # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL. SLUDGE	OTHER: ACIDIBASE ICE/COOL			
1	5-1.0			2:030		
2	5-10.5			1.060 S		
3	5-20'		/  2	1.090		
4	5-20.5			2(12p////		
5	5-3 0'			2: V4p		
ي	5-30.5		2	2:16p		
7	5-40		12	2:19p		·
	5-40.5			2,230		
<u> </u>	5-50		2	125p	<b>↓</b>	
PLEASE NOTE: Liability an	Эть Осу d Damages. Cardinal's liability and client's exclusive remedy for a	ny claim arising whether based in contract	t or lort, shall be limited to the amount paid by t	the client for the		<u>l</u>
analyses. All claims includin service. In no event shall Ca	g those for negligence and any other cause whatsoaver shall be o rdinal be jiable for incidental or consequental damages, including	deamed waived unless made in writing an y without limitation, business interruptions,	d received by Cardinal willin 30 days after com loss of use, or loss of profits incurred by client,	npletion of the applicable , its subsidiaties,		
Relinquished By	g out of or related to the performance of services hereunder by C Date:	ardinal, regardless of whether such claim Received By:			No Add'l Phone #:	
<b>.</b> .	: Date: <u>3/20/(5</u> Time:	$\cap$		IX Result: 🗌 Yes 🔲 EMARKS:	No Add'I Fax #:	
Sheldon "	Mitchcork Jime:	Vince	with			
Kelinquistied By		Received By:				
	Time:			:		
Delivered By:	(Circle One)	Sample Condit				
Sampler - UPS	- Bus - Other:	U Cool Intact	s ///	· ·		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 # 26

Page 15 of 16



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 16 of 16

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	· .		•				
Company Name: Taley/LPE		BILL TO		<del>:</del>	ANALYSIS	REQUEST	
Project Manager: D. Ad Kins		P.O. #:					
Address: 408 W. TEXAS AVC.		Company: Talou/	LPE				
City: Art-510 State: NM Zip: 8	8210	Attn:					
Phone #: 675-746-8768 Fax #: 575-746	-8905	Address:					
Project #: 700608.084.0 Project Owner: 0XY		City:					
Project Name: OXYN. Burton Flats Battery Hea	ter	State: Zip:					
Project Location: Sect 23 T2as R28E		Phone #:					
Sampler Name: Sheldon Hitch Cock		Fax #:		1 1 2			
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPL	ING				
AMO(C)	α <u>c</u>						
Lab I.D. Sample I.D. Sample I.D.	GROUNDWATER WASTEWATER SOIL OIL SLUDGE			STEX			
Lab I.D. Sample I.D. 6	GROUNDWATE WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER : ALEN :	± d				
H 2 CONTRA	GROUND WASTEW SOIL OIL SLUDGE	OTHER: OTHER: OTHER:					
H300668	GR01 SOIL SLUD SLUD						
11 5-60			12:300				
12 5-60,5		3-18-13	12:360 /				·
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service. In no event shell Cardinal be liable for incidental or consequental damages, including without limitati BMIIstos or successors arising out of or related to the performance of services hereunder by Cardinal, repardi							
Relinquished By: Date: Receive	ed By:		Phone Result: Fax Result:	O Yes O N			
Timet	$\langle \langle \cdot \rangle \rangle$		REMARKS:		o jAurrax#:		• •
Shellon Hitchcoch Sath V. Relinguished By: Date: Receive	d Sv	whe					
	<b>, .</b>			•	**		
Time:							
Delivered By: (Circle One)	Sample Conditi	on CHECKED BY:					

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

Sampler - UPS - Bus - Other:

UP

Cool Intact Intact Intes Intes



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 <a href="https://www.tceg.texas.gov/field/ga/lab">www.tceg.texas.gov/field/ga/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated 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,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager



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	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.675	0.100	04/04/2013	ND	1.90	94.9	2.00	7.76	
Toluene*	16.7	0.100	04/04/2013	ND	2.09	105	2.00	8.11	
Ethylbenzene*	5.63	0.100	04/04/2013	ND	2.21	111	2.00	8.07	
Total Xylenes*	63.7	0.300	04/04/2013	ND	6.53	109	6.00	7.37	
Total BTEX	86.7	0.600	04/04/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIC	410 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW			······································		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	04/01/2013	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1690	10.0	04/02/2013	ND	180	90.1	200	9.90	
DRO >C10-C28	5830	10.0	04/02/2013	ND .	178	88.8	200	10.9	
Surrogate: 1-Chlorooctane	171 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	230 9	63.6-15	4						

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#### \*=Accredited Analyte

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.532	0.100	04/04/2013	ND	1.90	94.9	2.00	7.76	
Toluene*	9.34	0.100	04/04/2013	ND	2.09	105	2.00	8.11	
Ethylbenzene*	2.72	0.100	04/04/2013	ND	2.21	111	2.00	8.07	
Total Xylenes*	35,4	0.300	04/04/2013	ND	6.53	109	6.00	7.37	
Total BTEX	48.0	0.600	04/04/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	211 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	04/01/2013	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	117	10.0	04/02/2013	ND	180	90.1	200	9.90	
DRO >C10-C28	289	10.0	04/02/2013	ND	178	88.8	200	10.9	
Surrogate: I-Chlorooctane	83.8	% 65.2-14	0	- ·					
Surrogate: 1-Chlorooctadecane	105	63.6-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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*	0.362	0.050	04/04/2013	ND	2.09	105	2.00	8.11	
Ethylbenzene*	0.090	0.050	04/04/2013	ND	2.21	111	2.00	8.07	
Total Xylenes*	1.00	0.150	04/04/2013	ND	6.53	109	6.00	7.37	
Total BTEX	1.46	0.300	04/04/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	113 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/01/2013	ND	448	112	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d 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	13.2	10.0	04/02/2013	ND	178	88.8	200	10.9	
Surrogate: 1-Chlorooctane	76.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	100	% 63.6-15	4						

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Celing D. Kune

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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-Chlorooctadecane 100 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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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)

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

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/01/2013	ND	448	112	400	0.00	
TPH 8015M	mg	mg/kg		Analyzed By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3310	10.0	04/02/2013	ND	180	90.1	200	9.90	
DRO >C10-C28	2490	10.0	04/02/2013	ND	178	88.8	200	10.9	

Surrogate: 1-Chlorooctadecane 136 % 63.6-154

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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: 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	Analyze	d 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	
Toluene*	0.070	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 (PIL	105 %	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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	
DR0 >C10-C28	49.0	10.0	04/02/2013	ND	178	88.8	200	10.9	
Surrogate: 1-Chlorooctane	80.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	109 9	63.6-15	4						

**Cardinal Laboratories** 

\*=Accredited Analyte

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Ciling D. Kune

Celey D. Keene, Lab Director/Quality Manager

Page 7 of 9



7

# **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 SM4500CI-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. Kune

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, Hobbs, NM 88 (575) 393-2326 FAX (575) 393-24				·										-										
	Talon/LPE									B/L	LTO			;				ANA	LYS	IS RI	EQUE	ST			
Project Manager	D. Adtrins						F	P.O. 1	#: 							·				1	T	1			
Address: 408 W. Texas Ave.						Company: Talon/LPE								1	1			1		l					
City: Artesia State: NM Zip: 88210						Attn:											1			.					
Phone #: 575	-746-8768 Fax #: 575-	• 74	16-	- 8	90	5		ddre	ess:			<u> </u>										1			
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Project Location	1: 523-T205-R28	E					F	hon	e #:			· · ·				·						· [ *		1	
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analyses. All claims include	ng lhose for negligence and any other cause whatsoever shall be ordinal be fable for incidental or consequental damages, include	deeme	d waiv	ed uni	ess made	in writin	and re	ceived I	by Card	linal wil	ihin 30 days aft	er completion of	the epplic	abie							•				
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District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brezos Rozd, 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.

# RECEIVED MAY 08 2013

Form C-141 Revised October 10, 2003

NMOCD AR EGAC pies to appropriate District Office in accordance with Rule 116 on back side of form

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nJMW	13129	35523			OPERAT	FOR		Initial Report 🔲 Final Report						
Name of Co			92463)		Contact : C									
Address: 1				M 88220			No.: 575-628-41							
Facility Nan	ne : North ]	Burton Flats E	attery			Facility Type: Central Tank Battery								
Surface Own	ner : Feder	oment l		Mineral C	wner	API#: Lease #: NM 18293								
						N OF REI	LEASE			7-015-33283				
······································					South Line Feet from the E		East/	West Line	County: Eddy					
		·		Latitud	le	Longitude	2							
				NAT	URE	OF REL	EASE							
Type of Relea							Release : 40 bbls	S		Recovered: 10 bbls				
Source of Re	lease : Hea	ter Treater				Date and I	Date and Hour of Occurrence: 3/17/2013 7:00 am			Date and Hour of Discovery: 3/17/2013 7:00am				
Was Immedia	ate Notice (		Yes [	] No 🗍 Not R	equired	If YES, To OCD/Mik	Whom? e Bratcher & BL!	M/Jim /	Amos					
By Whom: Jonathan Haver 575-706-9249						Date and I	Hour : 3/18/2013 2	2:00 pm	 1					
Wes a Watercourse Reached?						If YES, V	olume Impacting	the Wa	tercourse.					
			Yes 🛛	No No										
A flange leak	ted on the h		ausing a r	elease of 40 barre			The heater treat partels of produce			f service, repaired and put back				
A flange leak into producti Describe Are	ed on the h on. A vac tr	eater treater of tuck was imm and Cleanup	ausing a r ediately c Action Ta	elease of 40 barre alled to the location ken.* The area in	on and	recovered 10 l	partels of produce	d fluids	S	f service, repaired and put back er treater. Talon/LPE has been				
A flange leak into producti Describe Are contracted to I hereby cert regulations a public health	a Affected complete s ify that the or the environment	eater treater of nuck was imm and Cleanup ite assessmen information g are required fronment. Th	Action Ta t and removed iven abov	elease of 40 barre alled to the location ken.* The area im ediation activities e is true and comp nd/or file certain ce of a C-141 rep	on and inpacted	recovered 10 measured app the best of my notifications a he NMOCD r	partels of produce proximately 10'x6 y knowledge and u and perform corre- narked as "Final F tion that pose a the we the operator of	ed fluids 0° arou understa ctive ac Report" reat to g respon	nd the heate and that pur tions for re does not re ground wate sibility for e	er treater. Talor/LPE has been rsuant to NMOCD rules and leases which may endanger lieve the operator of liability er, surface water, human health compliance with any other				
A flange leak into producti Describe Are contracted to I hereby cert regulations a public health should their or the enviro federal, state	a Affected complete s ify that the or the environment	eater treater of nuck was imm and Cleanup ite assessmen information g are required fronment. Th	Action Ta t and removed iven abov	elease of 40 barre alled to the location ken.* The area im ediation activities e is true and comp nd/or file certain ce of a C-141 rep	on and inpacted	recovered 10 measured app the best of my notifications a he NMOCD r	partels of produce proximately 10'x6 y knowledge and u and perform corre- narked as "Final F tion that pose a the we the operator of	ed fluids 0° arou understa ctive ac Report" reat to g respon	nd the heate and that pur tions for re does not re ground wate sibility for e	er treater. Talon/LPE has been suant to NMOCD rules and leases which may endancer				
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A flange leak into producti Describe Are contracted to I hereby cert regulations a public health should their or the enviro federal, state Signature: Printed Nam Title: HES S E-mail Addr Date: 3/18	ee on the h on. A vac the can Affected complete s ify that the ll operators or the envi- operations I nument. In a , or local la e: Chris Jo Specialist coss: Christ	eater treater of uck was imm and Cleanup ite assessmen information g are required to ronment. The addition, NAVIO ws and/or reg	Action Ta Action Ta t and reme iven abov to recort a acceptan acceptac acceptan acceptan acceptan acce	elease of 40 barre alled to the location ken.* The area in ediation activities e is true and comp nd/or file certain ce of a C-141 rep y investigate and ptance of a C-141	on and inpacted	recovered 10 I measured app the best of my notifications a he NMOCD r the contaminat does not relie Approved by Approved by Conditions of Remec Guideline	parrels of produce proximately 10'x6 y knowledge and to and perform corre- narked as "Final F tion that pose a the ve the operator of <u>OIL CON</u> y District Supervá AY: 0 8 201	d fluids 10 <sup>°</sup> arou understa ctive ac Report" reat to g respon USER USER Sof: CD Ru EMED	and the heate and that pur- tions for re docs not re ground wate sibility for o VATION By Expiration I By Expiration	er treater. Talor/LPE has been rsuant to NMOCD rules and leases which may endanger lieve the operator of liability er, surface water, human health compliance with any other <u>I DIVISION</u> <u>I DIVISION</u>				

1625 N. French Dr., Hobbs, NM 88240 Energy M   District III Energy M   1301 W. Grand Avenue, Artesia, NM 88210 Oil   1000 Rio Brazos Road, Aztec, NM 87410 Oil   District IV 1220	linerals Conse 0 Sout	rvation Div h St. Franc	l Resources vision vis Dr.	j.	UIL 23	VED Form C-141 2013 Revised October 10, 2003 Submit 2 Copies to appropriate Submit 2 Copies t					
أشتش والمتحد والبارية بالمتعادة والمرجوب والمتحد		Se, NM 87505 side of form									
Release Notifi	icatio			ction	,	two 1					
Name of Company: Oxy Permian LTD (192463)		OPERATOR Initial Report Final Repo									
Address : 1502 W. Commerce, Carlsbad, NM 88220	†	Contact : Chris Jones Telephone No. : 575-628-4121									
Facility Name : North Burton Flats Battery		Facility Typ	e: Central Tan	k Batter	y						
Surface Owner : Federal Mineral	Owner				API#: 3	0-015-33283 2RP-1649					
LOC	ATIO	N OF REI	LEASE			· · · · ·					
Unit LetterSectionTownshipRangeFeet from theD2320S28E	it Letter Section Township Range Feet from the North					County: Eddy					
Latitu	ıde	Longitude	- -								
NATURE OF RELEASE											
Type of Release : Produced Fluids		Volume of	Release : 40 bbl			Recovered: 10 bbls					
Source of Release : Heater Treater			four of Occurrent	cc:	Date and 7:00am	d Hour of Discovery: 3/17/2013					
Was Immediate Notice Given?		If YES, To Whom?									
Yes No Not 1	Required										
By Whom: Jonathan Haver 575-706-9249 Was a Watercourse Reached?		Date and Hour : 3/18/2013 2:00 pm If YES, Volume Impacting the Watercourse.									
🗌 Yes 🛛 No											
If a Watercourse was Impacted, Describe Fully.*											
Describe Cause of Problem and Remedial Action Taken.* A flick heater treater was taken out of service, repaired and put back into of produced fluids. The area impacted measured approximately Describe Area Affected and Cleanup Action Taken.* Talon/Ll location S-2 and S-5 of this release was excavated to a depth of excluding the area identified as S-4. The impacted soil was tran backfilled to grade using new material and was contoured to material and was contour and was contour and was contoured to material and was contour and was contour and	o produc 10'x60' PE was c 2-feet dc sported t tch the s	tion. A vac tru- contracted for a cp. The rema- to Lea Land, I, urrounding loo	the correction of t inder of the impa L.C, an approved cation.	tely calle this relea cted area NMOC	ed to the loc asc. The in a was excav D disposal	ation and recovered 10 barrels npacted areas from sample rated to a depth of 1-foot deep, facility. The excavation was					
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: Printed Name: Chris Jones		Approved by District Supervisor.									
Title: HES Specialist		Approval Da			Expiration	Data					
E-mail Address: Christopher Jones@oxy.com		Conditions of			LAPICOUON	Attached					
Date: 7/2/2013 Phone: 575-628-4121		·									

\* Attach Additional Sheets If Necessary

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