

# Closure Report

INCIDENT ID # nAB1434456341

## Site Description

Site Name:	MARTHA CREEK CTB
Company:	Oxy USA, Inc.
Legal Description:	UL I, S 30, TS 21S , R 24E
County:	EDDY
GPS Coordinates:	32.4476087 -104.533986

## Release Data

Date of Release:	11/714
Type of Release:	Cude Oil
Source of Release:	A MANWAY GASKET MALFUNCTIONED ON THE HEATER TREATER
Volume of Release:	15 bbls
Volume Recovered:	15 bbls

## Remediation Specifications

Remediation Parameters:	This site is listed on the Agreed Compliance Order of 4/5/19. This site had previously been remediated but no formal closure report existed for verification therefore, OXY has created one from available documents. This work was performed by Talon/LPE.	
Remediation Activities:		
Plan Sent to OCD:		12/18/2014
OCD Approval of Plan:		1/15/2015
Plan Sent to BLM:		
BLM Approval of Plan:		

## Supporting Documentation

C-141, page 6	signed and included	
Site Diagram	Google Earth map	
Pictures	Closure photos	
Lab Summary/Analysis	Confirmation lab summary/analysis report for	
Notifications		

## Request for Closure

Based on the completion of the remediation plan, BBC International requests closure approval from NMOCD.

Cliff P. Brunson  
President, BBC International, Inc.

9/16/2022

Form C-141

Page 6

State of New Mexico  
Oil Conservation Division

Incident ID	nAB1434456341
District RP	
Facility ID	
Application ID	


## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of 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 OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wade Dittrich Title: Environmental Coordinator  
Signature:  Date: 8-31-22  
email: wade\_dittrich@oxy.com Telephone: (575) 390-2828

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 1/20/2023  
Printed Name: Brittany Hall Title: Environmental Specialist



# OXY-MARTHA CREEK CTB

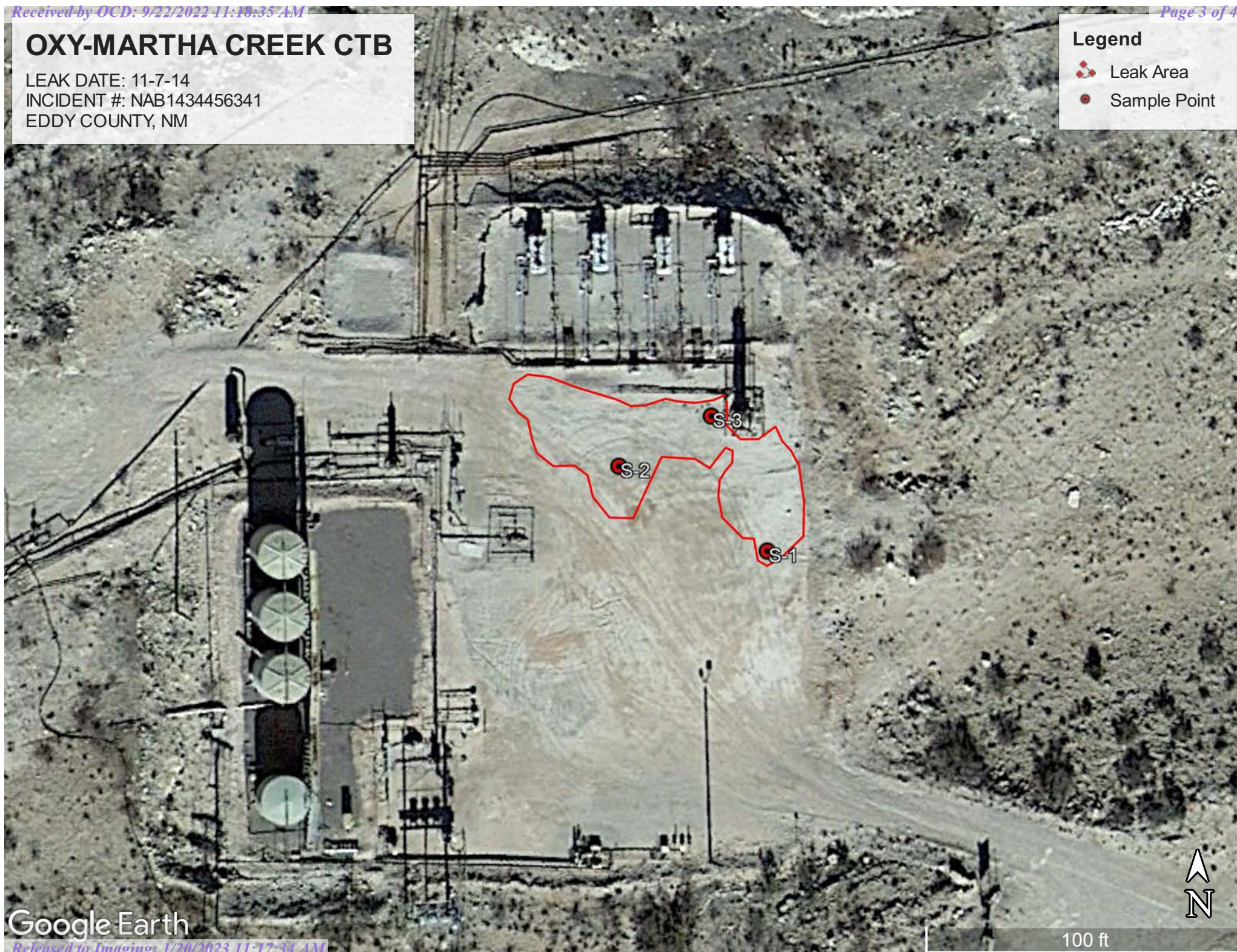
LEAK DATE: 11-7-14

INCIDENT #: NAB1434456341

EDDY COUNTY, NM

## Legend

-  Leak Area
-  Sample Point



Google Earth

100 ft

	Sample ID	S-1 @ 3'	S-2 @ 2'	S-3 @ 2'
Analyte	Date	2/10/15	2/10/15	2/10/15
		mg/kg	mg/kg	mg/kg
Benzene		<0.050	<0.050	<0.050
Toluene		<0.050	<0.050	<0.050
Ethylbenzene		<0.050	<0.050	<0.050
Total Xylenes		<0.150	<0.150	<0.150
Total BTEX		<0.300	<0.300	<0.300
Chloride		576.0	80.0	688.0
GRO		<10.0	<10.0	<10.0
DRO		<10.0	14	<10.0

**From:** Patterson, Heather, EMNRD  
**To:** ["David Adkins"](#)  
**Cc:** [Bratcher, Mike, EMNRD](#); [Kimberly M. Wilson](#); [Christopher\\_Jones@oxy.com](#)  
**Subject:** RE: Oxy-Martha Creek CTB (30-015-10323) 2RP-2653  
**Date:** Wednesday, February 18, 2015 8:35:00 AM  
**Attachments:** image003.png

---

RE: Oxy \* Martha Creek Gas Com Battery \* 30-015-10323 \* 2RP-2653

David,

Thank you for the confirmation samples. Your backfill request is approved.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Heather Patterson  
Environmental Specialist  
NMOCD District II  
(575)748-1283 ext.101

---

**From:** David Adkins [mailto:[dadkins@talonlpe.com](mailto:dadkins@talonlpe.com)]  
**Sent:** Tuesday, February 17, 2015 4:42 PM  
**To:** Patterson, Heather, EMNRD  
**Cc:** Bratcher, Mike, EMNRD; Kimberly M. Wilson; [Christopher\\_Jones@oxy.com](#)  
**Subject:** FW: Oxy-Martha Creek CTB (30-015-10323) 2RP-2653

Hello Heather,

Attached please find the recent lab data from our confirmation sampling event for the above referenced project. I've also attached a copy of the approved work plan for your convenience. This is for the recent release on the location. We are respectfully requesting permission to backfill and restore the location for the client.

With regard to your comments below about the previous release that occurred within the tank battery last year (DOR: 4/8/2014, 2RP-2272); verbal permission was obtained from BLM and OCD to hand-excavate the impacted soil to the extent feasible within the battery to the top of rock. This was done and over 200 cubic yards of contaminated soil were disposed of at Lea Land. It would have been extremely difficult to do more work in the tank battery than was safely accomplished at that time - without total removal of the existing infrastructure. Kim and I subsequently took a meeting with Mr. Bratcher and verbal permission to backfill the tank battery was obtained. We would be happy to meet with you and Mike on the subject of the previous incident if need be.

**From:** Patterson, Heather, EMNRD [<mailto:Heather.Patterson@state.nm.us>]  
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Kimberly,

This work plan is approved with the following exceptions:

- Exact excavation depths cannot be approved without a full delineation;
- Chlorides are to be further delineated, with a target goal of 250 mg/kg;
- All confirmation samples are to be lab verified for TPH and Chlorides;
- Field PID readings will be accepted for BTEX values only;
- OCD must review and approve confirmation samples before excavation is backfilled.

The OCD would also like to inquire about an earlier spill at the same location. A 60bbl release within the walls of the battery was reported, but to my knowledge we have not received a work plan (DOR: 4/8/2014, 2RP-2272).

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Heather Patterson  
Environmental Specialist  
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**From:** Kimberly M. Wilson [<mailto:kwilson@talonlpe.com>]  
**Sent:** Thursday, January 15, 2015 10:48 AM  
**To:** Patterson, Heather, EMNRD  
**Cc:** Bratcher, Mike, EMNRD; [Christopher.Jones@oxy.com](mailto:Christopher.Jones@oxy.com); David Adkins  
**Subject:** RE: Oxy-Martha Creek CTB (30-015-10323) 2RP-2653

Hello Heather,

Please find attached the amended work plan for the above location. I changed the site ranking and the proposed remedial actions.

Please let me know if you have further questions or concerns.

Respectfully submitted,

**Kimberly M. Wilson**

Project Manager  
Talon/LPE  
408 West Texas Avenue  
Artesia, New Mexico 88210  
Office: 575.746.8768  
Fax: 575.746.8905  
Cell: 575.602.3826  
Emergency: 866.742.0742  
Email: [kwilson@talonlpe.com](mailto:kwilson@talonlpe.com)  
Web: [www.talonlpe.com](http://www.talonlpe.com)



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Staples Foundation for Learning Hall of Fame Recipient: 2010  
ICIC and Business Week- Top 100: 2010, 2009, 2008, 2007, 2006  
Inc. 500/5000: 2012, 2011, 2010, 2009, 2008, 2007

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**From:** Patterson, Heather, EMNRD [<mailto:Heather.Patterson@state.nm.us>]  
**Sent:** Monday, January 12, 2015 1:06 PM  
**To:** Kimberly M. Wilson  
**Subject:** FW: Oxy-Martha Creek CTB (30-015-10323) 2RP-2653

Kimberly,

I saw that you resubmitted this last week. This is the response I sent out to Sheldon while you were out of the office.

Heather Patterson  
Environmental Specialist  
NMOCD District II  
(575)748-1283 ext.101

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**From:** Patterson, Heather, EMNRD  
**Sent:** Tuesday, December 30, 2014 12:55 PM  
**To:** 'Sheldon Hitchcock'  
**Cc:** Bratcher, Mike, EMNRD; Kimberly M. Wilson  
**Subject:** RE: Oxy-Martha Creek CTB (30-015-10323) 2RP-2653

Sheldon,

There seems to be conflicting data on the depth to groundwater in this area. The OCD has reason to believe groundwater will be encountered at a shallower depth, almost certainly less than 100 feet (see attached). Please review and adjust your site ranking accordingly. Further delineation will be required before excavation depths can be approved.

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**From:** Sheldon Hitchcock [<mailto:slhitchcock@talonlpe.com>]  
**Sent:** Monday, December 29, 2014 10:47 AM  
**To:** Patterson, Heather, EMNRD  
**Cc:** Bratcher, Mike, EMNRD; Kimberly M. Wilson  
**Subject:** Oxy-Martha Creek CTB (30-015-10323) 2RP-2653

Heather,

I hope you had a good Christmas. The work plan for the Martha Creek CTB is attached. Please review it and let me know if you have any questions or concerns. Thank you.

Respectfully,

**Sheldon L. Hitchcock**  
Project Manager  
Talon/LPE  
408 West Texas Avenue  
Artesia, New Mexico 88210  
Phone: (575) 746-8768  
Cell: (575) 689-5198  
Fax: (575) 746-8905  
Email: [slhitchcock@talonlpe.com](mailto:slhitchcock@talonlpe.com)  
Web: [www.talonlpe.com](http://www.talonlpe.com)



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**From:** [David Adkins](#)  
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**Cc:** [Bratcher, Mike, EMNRD](#); [Kimberly M. Wilson](#); [Christopher Jones@oxy.com](#)  
**Subject:** FW: Oxy-Martha Creek CTB (30-015-10323) 2RP-2653  
**Date:** Tuesday, February 17, 2015 4:42:40 PM  
**Attachments:** image001.png  
H500401 TALON.PDF  
Martha Creek Amended work plan.pdf

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Thank you for your consideration in this matter.

Respectfully submitted,

**David J. Adkins**

District Manager  
Talon/LPE  
408 West Texas Avenue  
Artesia, New Mexico 88210  
(575) 746.8768 phone  
(575) 746.8905 fax  
(575) 441.4835 cell  
Email: dadkins@talonlpe.com  
Web: www.talonlpe.com



---

**From:** Kimberly M. Wilson  
**Sent:** Tuesday, February 17, 2015 1:29 PM  
**To:** David Adkins

**Subject:** FW: Oxy-Martha Creek CTB (30-015-10323) 2RP-2653

***Kimberly M. Wilson***

Project Manager

Talon/LPE

408 West Texas Avenue

Artesia, New Mexico 88210

Office: 575.746.8768

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**Sheldon L. Hitchcock**

Project Manager

Talon/LPE

408 West Texas Avenue

Artesia, New Mexico 88210

Phone: (575) 746-8768

Cell: (575) 689-5198

Fax: (575) 746-8905

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December 18, 2014

Mr. Mike Bratcher  
**NMOCD District 2**  
 811 S. 1<sup>st</sup> Street  
 Artesia, NM 88210

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

ARTESIA  
 408 West Texas Ave.  
 Artesia, New Mexico 88210  
 Phone 575.746.8768  
 Fax 575.746.8905

HOBBS  
 318 East Taylor Street  
 Hobbs, New Mexico 88240  
 Phone 575.393.4261  
 Fax 575.393.4658

MIDLAND  
 2901 State Hwy 349  
 Midland, Texas 79706  
 Phone 432.522.2133  
 Fax 432.522.2180

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

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

Subject: **Soil Assessment and Remediation Work Plan**  
 Oxy USA WTP Limited Partnership  
 Martha Creek Gas Com Battery  
 API: 30-015-10323 – 2RP-2653

Dear Mr. Bratcher,

Oxy USA WTP Limited Partnership (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.

### Background Information

The Martha Creek Gas Com Battery is located approximately 35 miles southwest of Artesia, New Mexico. The legal location for this release is Unit Letter I, Section 30, Township 21 South, and Range 24 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.4476087 North and -104.533986 West. A site plan is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Ector rocky loam with a 0 to 9 percent slopes. The local surface and shallow geology, Paleozoic Age sedimentary deposits, is comprised of the Guadeloupian Artesia Group, Tansil and Yates formations, which are made up of residuum weathered limestone underlain by very cobbly loam and hard caliches. Groundwater in the project vicinity is approximately 180-feet below ground surface (bgs) according to the New Mexico Office for the State Engineer. See Appendix II for the referenced groundwater data.

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

Depth to ground water	>100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

ENVIRONMENTAL CONSULTING  
 ENGINEERING  
 DRILLING  
 CONSTRUCTION  
 SPILL MANAGEMENT  
 GENERAL CONTRACTING

Toll Free: 866.742.0742  
[www.talonlpe.com](http://www.talonlpe.com)

## Incident Description

A manway gasket malfunctioned on the heater treater caused a release of 15 barrels of oil and 5 barrels of produced water. A vacuum truck was immediately called to the location and 15 barrels of oil was recovered. The facility was shut-in, the heater treater was repaired and put back into service. The affected area measured approximately 70-feet long by 20-60 feet wide around the heater treater. All fluids stayed on location. Talon mobilized personnel to conduct a site assessment and conduct soil sampling activities utilizing a hand auger within the impacted areas. The results of our soil sampling activities are summarized in the table below.

## Laboratory Results

See [Appendix III](#) for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	1'	50.5	1040	950	13100
S-2	1'	1.53	880	35.7	3480
S-3 Refusal	1'	<0.300	1360	10.5	1510

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL's) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 5,000 mg/kg for TPH and 1,000 mg/kg for Chlorides.

## Proposed Remedial Actions

- The impacted area in the vicinity of S-1 will be excavated to a minimum depth of 2-feet bgs. Field PID readings will be used to guide the excavation. Once field results indicate that the impacted soil is below NMOCD Recommended Remedial Action Level's (RRAL's) a confirmation soil sample will be taken to insure all of the impacted material was removed.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- Upon approval by the NMOCD, the excavated areas on location will be backfilled with caliche and re-contoured to match the surrounding location.

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,

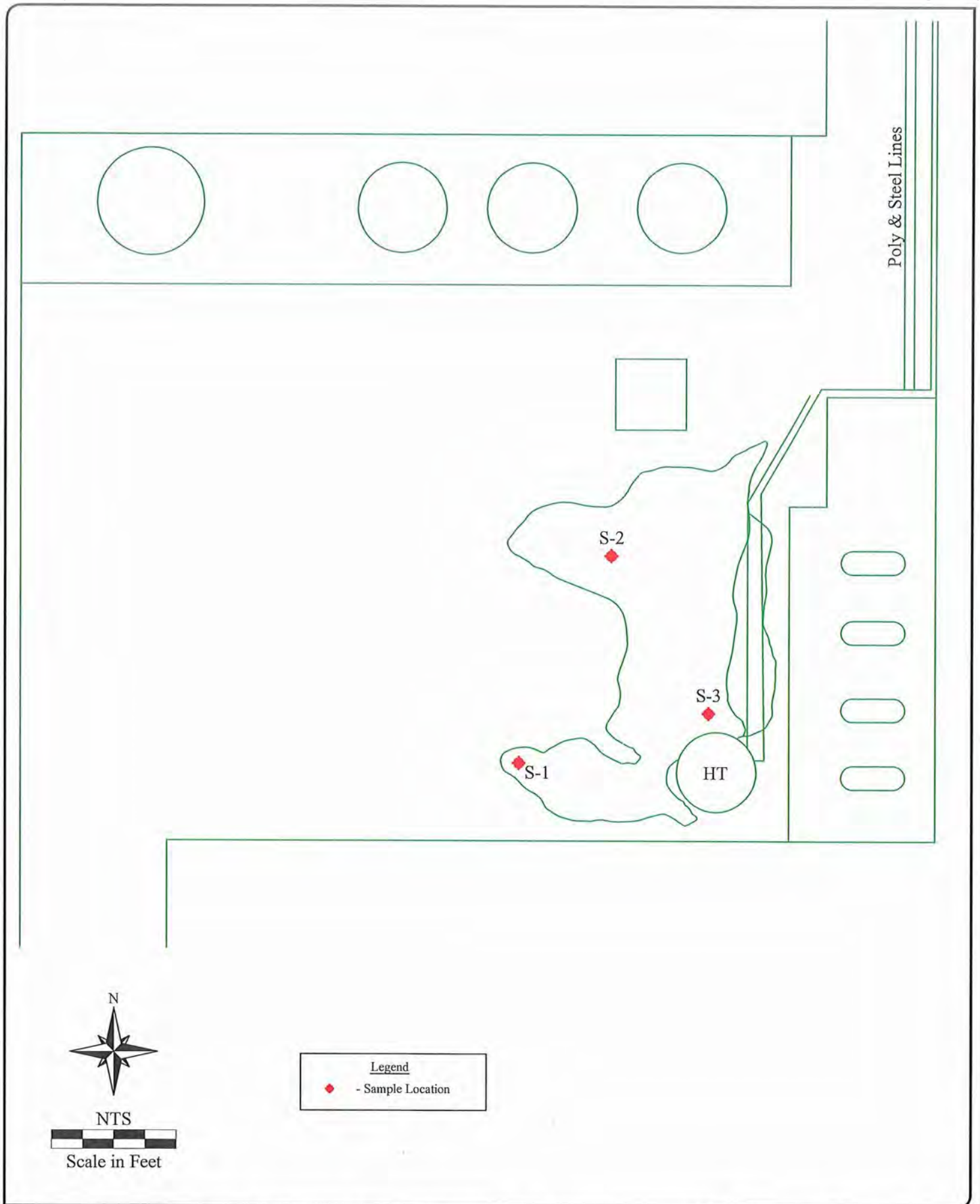


Kimberly M. Wilson  
Project Manager



David J. Adkins  
District Manager

**APPENDIX I**  
**SITE MAP**



Date: 12/18/2014

Scale: NTS

Drawn By: TJS

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

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



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">RA 09741</a>			ED	2	1	1	32	21S	23E	534813	3589438*	570	200	180	20
<a href="#">RA 10046</a>			ED	4	1	4	36	21S	22E	532553	3588361*	2372	247	215	32

Average Depth to Water: 197 feet

Minimum Depth: 180 feet

Maximum Depth: 215 feet

Record Count: 2

UTM NAD83 Radius Search (in meters):

Easting (X): 534408

Northing (Y): 3589840

Radius: 3000

\*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.

11/25/14 8:17 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

## NM OIL CONSERVATION

ARTESIA DISTRICT

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

DEC 10 2014

Form C-141  
Revised August 8, 2011

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

RECEIVED

## Release Notification and Corrective Action

NA B1434456341

## OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: OXY USA Limited Partnership 192463	Contact: Chris Jones
Address: 102 S. Main St. Carlsbad, NM 88220	Telephone No.: 575-628-4121
Facility Name: Martha Creek Gas Com Battery	Facility Type: Battery

Surface Owner: Federal	Mineral Owner:	API No.: 30-015-10323 Lease #: NM D-29301
------------------------	----------------	--

## LOCATION OF RELEASE

Unit Letter	Section 30	Township 21S	Range 24E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
-------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	----------------

Latitude 32.447610 N Longitude -104.5340 W

## NATURE OF RELEASE

Type of Release: Oil & Produced Water	Volume of Release: 5 bbls PW & 15 bbls oil	Volume Recovered: 15 bbls oil
Source of Release: Heater Treater	Date and Hour of Occurrence 11/7/14 @ 11:30 am	Date and Hour of Discovery 11/7/14 @ 11:30
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher @ NMOCD Jeff Robertson BLM	
By Whom? Kimberly Wilson	Date and Hour: 11/13/14	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* The man way gasket on the heater treater malfunctioned causing 5 barrels of produced water and 15 barrels of oil to be released within the berms. The facility was shut-in, the heater treater was repaired and put back into service. A vacuum truck was immediately called to the location and 15 barrels of oil was recovered. Talon/LPE was contracted to perform an initial site assessment and soil sampling.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 25' X 63' around the heater treater. All fluids stayed on location.

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: *Chris Jones*

Printed Name: Chris Jones

Title: HES Specialist

E-mail Address: Christopher.Jones@oxy.com

Date: 11/18/2014

Phone: 575-499-3337

Approved by Environmental Specialist

Approval Date:

12/10/14

Expiration Date:

N/A

Conditions of Approval:

Attached ☐

Remediation per O.C.D. Rules &amp; Guidelines

SUBMIT REMEDIATION PROPOSAL NO

LATER THAN:

11/10/15

2RP-2653

\* Attach Additional Sheets If Necessary

**APPENDIX III**  
**LABORATORY RESULTS**



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

December 03, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MARTHA CREEK CTB

Enclosed are the results of analyses for samples received by the laboratory on 12/02/14 13:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 12/02/2014  
Reported: 12/03/2014  
Project Name: MARTHA CREEK CTB  
Project Number: 700608.384.01  
Project Location: EDDY COUNTY, NM

Sampling Date: 12/01/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Kathy Perez

**Sample ID: S - 1 1' (H403672-01)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	12/03/2014	ND	1.93	96.7	2.00	3.49	
Toluene*	4.42	0.500	12/03/2014	ND	1.90	95.2	2.00	2.81	
Ethylbenzene*	3.10	0.500	12/03/2014	ND	1.79	89.6	2.00	3.02	
Total Xylenes*	43.0	1.50	12/03/2014	ND	5.42	90.4	6.00	3.67	
Total BTEX	50.5	3.00	12/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	12/03/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	950	50.0	12/02/2014	ND	196	98.1	200	5.01	
DRO >C10-C28	13100	50.0	12/02/2014	ND	200	99.9	200	8.07	

Surrogate: 1-Chlorooctane 212 % 47.2-157

Surrogate: 1-Chlorooctadecane 392 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 12/02/2014  
Reported: 12/03/2014  
Project Name: MARTHA CREEK CTB  
Project Number: 700608.384.01  
Project Location: EDDY COUNTY, NM

Sampling Date: 12/01/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Kathy Perez

**Sample ID: S - 2 1' (H403672-02)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/03/2014	ND	1.93	96.7	2.00	3.49		
Toluene*	0.072	0.050	12/03/2014	ND	1.90	95.2	2.00	2.81		
Ethylbenzene*	0.088	0.050	12/03/2014	ND	1.79	89.6	2.00	3.02		
Total Xylenes*	1.37	0.150	12/03/2014	ND	5.42	90.4	6.00	3.67		
Total BTEX	1.53	0.300	12/03/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 100 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	12/03/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	35.7	10.0	12/02/2014	ND	196	98.1	200	5.01		
DRO >C10-C28	3480	10.0	12/02/2014	ND	200	99.9	200	8.07		

Surrogate: 1-Chlorooctane 141 % 47.2-157

Surrogate: 1-Chlorooctadecane 208 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 12/02/2014  
Reported: 12/03/2014  
Project Name: MARTHA CREEK CTB  
Project Number: 700608.384.01  
Project Location: EDDY COUNTY, NM

Sampling Date: 12/01/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Kathy Perez

**Sample ID: S - 3 1' (H403672-03)**

BTEX 8021B			mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/03/2014	ND	1.93	96.7	2.00	3.49		
Toluene*	<0.050	0.050	12/03/2014	ND	1.90	95.2	2.00	2.81		
Ethylbenzene*	<0.050	0.050	12/03/2014	ND	1.79	89.6	2.00	3.02		
Total Xylenes*	<0.150	0.150	12/03/2014	ND	5.42	90.4	6.00	3.67		
Total BTEX	<0.300	0.300	12/03/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1360	16.0	12/03/2014	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	10.5	10.0	12/02/2014	ND	196	98.1	200	5.01		
DRO >C10-C28	1510	10.0	12/02/2014	ND	200	99.9	200	8.07		

Surrogate: 1-Chlorooctane 124 % 47.2-157

Surrogate: 1-Chlorooctadecane 174 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

## BILL TO

## ANALYSIS REQUEST

Company Name: <u>Talen/Type</u>		P.O. #: <u>0956146333</u>					
Project Manager: <u>D. Adkins</u>		Company: <u>OTTA</u>					
Address: <u>408 W Texas</u>		Attn: <u>Chris Oakes</u>					
City: <u>Artesia</u>		Address:					
State: <u>NM</u> Zip: <u>88210</u>		City:					
Phone #: <u>575 744 8268</u> Fax #:		State:					
Project #: <u>706608384</u> Project Owner: <u>OLY</u>		Zip:					
Project Name: <u>Martinez Creek CTR</u>		Phone #:					
Project Location: <u>SE of G. Bacteria</u>		Fax #:					
Sampler Name: <u>G. Bacteria</u>		PRESERV					
FOR LAB USE ONLY		SAMPLING					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX	DATE	TIME	ANALYSIS REQUEST
<u>440362</u>	<u>S-1 1-</u>	<input checked="" type="checkbox"/>		GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	<u>12:00</u>	<u>12:00</u>	<u>TPH</u>
<u>2</u>	<u>S-2 1-</u>	<input checked="" type="checkbox"/>			<u>12:15</u>	<u>12:15</u>	<u>Total Chlorides</u>
<u>3</u>	<u>S-3 1-</u>	<input checked="" type="checkbox"/>			<u>12:23</u>	<u>12:23</u>	<u>BTEX</u>
PLEASE NOTE: Liability and Damages: Cardinal's liability and damages are limited to the amount paid by the client for the analysis. 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 interruption, loss of use, loss of data, or profits, incurred by client, its subsidiaries, affiliates or successors, arising out of or related to the performance of services, notwithstanding that any of the above stated claims is noted and any of the above stated claims or otherwise.		Relinquished By: <u>[Signature]</u>		Date: <u>8-2-12</u>		Received By: <u>[Signature]</u>	
Delivered By: (Circle One)		Sample Condition		CHECKED BY: (Initials)		REMARKS:	
Sampler - UPS - Bus - Other:		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		<u>15</u>		<u>Phone Result: [ ] Yes [ ] No Add'l Phone #: [ ]</u>	
		Fax Result: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #: <u>7K 01030105</u>					

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



OXY – MARTHA CREEK CTB (11/7/14)





OXY – MARTHA CREEK CTB (11/7/14)



OXY – MARTHA CREEK CTB (11/7/14)





OXY – MARTHA CREEK CTB (11/7/14)





OXY – MARTHA CREEK CTB (11/7/14)





OXY – MARTHA CREEK CTB (11/7/14)





OXY – MARTHA CREEK CTB (11/7/14)





OXY – MARTHA CREEK CTB (11/7/14)





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

---

February 12, 2015

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MARTHA CREEK

Enclosed are the results of analyses for samples received by the laboratory on 02/11/15 13:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/11/2015	Sampling Date:	02/10/2015
Reported:	02/12/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK	Sampling Condition:	Cool & Intact
Project Number:	700608.358.01	Sample Received By:	Jodi Henson
Project Location:	EDDY		

**Sample ID: S-1 3' (H500401-01)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2015	ND	1.79	89.3	2.00	6.35	
Toluene*	<0.050	0.050	02/11/2015	ND	1.72	86.1	2.00	9.37	
Ethylbenzene*	<0.050	0.050	02/11/2015	ND	1.67	83.5	2.00	8.28	
Total Xylenes*	<0.150	0.150	02/11/2015	ND	4.97	82.8	6.00	8.70	
Total BTX	<0.300	0.300	02/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	02/11/2015	ND	416	104	400	3.77	

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	02/11/2015	ND	193	96.3	200	0.260	
DRO >C10-C28	<10.0	10.0	02/11/2015	ND	190	94.8	200	6.11	

Surrogate: 1-Chlorooctane 88.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 72.1 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/11/2015  
Reported: 02/12/2015  
Project Name: MARTHA CREEK  
Project Number: 700608.358.01  
Project Location: EDDY

Sampling Date: 02/10/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-2 2' (H500401-02)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	02/11/2015	ND	416	104	400	3.77	
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	02/11/2015	ND	193	96.3	200	0.260	
<b>DRO &gt;C10-C28</b>	<b>14.0</b>	10.0	02/11/2015	ND	190	94.8	200	6.11	

Surrogate: 1-Chlorooctane 93.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 78.9 % 52.1-176

**Sample ID: S-3 2' (H500401-03)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>688</b>	16.0	02/11/2015	ND	416	104	400	3.77	
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	02/11/2015	ND	193	96.3	200	0.260	
DRO >C10-C28	<10.0	10.0	02/11/2015	ND	190	94.8	200	6.11	

Surrogate: 1-Chlorooctane 101 % 47.2-157

Surrogate: 1-Chlorooctadecane 87.1 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

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### Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Valley Life</u>		P.O. #:		BILL TO		ANALYSIS REQUEST											
Project Manager: <u>David Adkins</u>		Company: <u>CLX</u>															
Address: <u>408 W. Texas</u>		Attn:															
City: <u>Heald</u>		Address:															
State: <u>NM</u> Zip: <u>88216</u>		City:															
Phone #: <u>575-746-8768</u> Fax #:		State:															
Project #: <u>70008, 38401</u> Project Owner: <u>CLX</u>		Zip:															
Project Name: <u>Martha Creek</u>		Phone #:															
Project Location: <u>Edgar County</u>		Fax #:															
Sampler Name: <u>Jim Wilson</u>																	
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	Chlorides	TPH	BTEX
H500401	3-1	3'	5			1							2/10/15	9:00	1	1	1
	3-2	2'	5			1							2/10/15	11:46	1	1	1
	3-3	2'	5			1							3/10/15	9:25	1	1	1
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Relinquished By:	Date: <u>2/11/15</u>	Received By:	Date: <u>2/11/15</u>	Time: <u>1:10</u>	Received By: <u>Spec. Henderson</u>	Time:											
Reinquinshed By:																	
Delivered By: (Circle One)	4.00	Sample Condition	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	Checked By: <u>(Initials)</u>													
Sampler - UPS - Bus - Other:																	
t Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326																	
#54																	
REMARKS: <u>OP. 56146 333</u> <u>75-1127623</u> <u>TK-0101030105</u> <u>RUSH 11</u>																	
Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:																	
Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:																	

**District I**  
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Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS  
  
Action 145591

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 145591
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	None	1/20/2023