

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141  
Revised October 10, 2003

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

### Release Notification and Corrective Action

#### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	<b>Enterprise Field Services LLC</b>	Contact	<b>Alena Miro</b>
	<b>PO Box 4324, Houston, TX 77252</b>	Telephone No.	<b>575-628-6802</b>
Facility Name	<b>Pipeline ROW, Mercury Fee Line</b>	Facility Type:	<b>Gas Gathering Pipeline</b>
Surface Owner	<b>Private-McDonald</b>	Mineral Owner	<b>NA</b>
		Lease No.	<b>NA</b>

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	<b>20</b>	<b>23S</b>	<b>28E</b>					<b>Eddy</b>

Latitude **32.290685 N** Longitude **-104.117925 W**

#### NATURE OF RELEASE

Type of Release	<b>Natural Gas and Pipeline Liquids</b>	Volume of Release	<b>7,553 MCF 5 bbls</b>	Volume Recovered	<b>0</b>
Source of Release	<b>Pipeline Leak</b>	Date and Hour of Occurrence	<b>10/04/2013 17:00 (MDT)</b>	Date and Hour of Discovery	<b>10/23/2013 15:00 (MDT)</b>
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	<b>NMOCD Region 2, Mike Bratcher</b>		
By Whom?	<b>Jim Heap</b>	Date and Hour	<b>17:00 CDT</b>		
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.\*

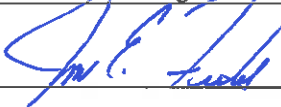
Describe Cause of Problem and Remedial Action Taken.\*

**Suspected internal corrosion. The line was isolated, blown-down and scheduled for repair. Loss volume includes blow-down.**

Describe Area Affected and Cleanup Action Taken.\*

**Remediation was conducted as outlined in the attached closure report.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:				<b>OIL CONSERVATION DIVISION</b>	
Printed Name:	<b>Jon E. Fields</b>	Approved by District Supervisor:		<b>Ashley Maxwell</b>	
Title:	<b>Director, Field Environmental</b>	Approval Date:	<b>4/13/2023</b>	Expiration Date:	
E-mail Address:	<b>jefields@eprod.com</b>	Conditions of Approval:		Attached <input type="checkbox"/>	
Date:	<b>4/12/2017</b>	Phone:	<b>713-318-6595</b>		

\* Attach Additional Sheets If Necessary

talonlpe.com • 866.742.0742



**Closure Report**  
**Enterprise Field Services, LLC: Mercury Fee Line #2**  
**[2RP-2038]**

April 12, 2017

**Prepared For:**

Ms. Alena Miro  
Enterprise Field Services, LLC  
PO Box 4342  
Houston, TX 77252

**Prepared By:**

Talon/LPE  
408 W. Texas Ave.  
Artesia, NM 88210

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## 1.0 Introduction

### 1.1 Objectives and Site Background

Enterprise Field Services, LLC (Enterprise) has contracted Talon/LPE (Talon) to perform initial spill response, soil sampling and remediation services at the previously referenced location. The regulatory framework, site description, incident description, soil sampling results, remediation activities, conclusions and recommendations are submitted herein.

The Mercury Fee Line #2 is located approximately thirteen (13) miles north of Carlsbad, New Mexico. The legal location for this release is Unit Letter M, Section 20, Township 23 South and Range 28 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.290685 and -104.117925 West. A site plan is presented in [Appendix I](#).

## 2.0 Regulatory Framework

### 2.1 NMOCD Site Ranking Criteria

NMOCD guidance document titled: *Guidelines for Remediation of Leaks, Spills and Releases*, dated August 13, 1993. Consistent with these guidelines, general site characteristics, including the depth to groundwater, and the distance to water wells or surface water sources, will be utilized to determine the appropriate “ranking” of individual release sites, and the associated remedial action requirements. The site ranking criteria and associated scoring values, based on the 1993 guidance, are summarized in the following Table.

Ranking Criteria		Ranking Score
Depth to Groundwater	<50'	20
	50-99'	10
	>100'	0
Wellhead Protection Area <1,000' from a water source, or 200' from private domestic water source.	Yes	20
	No	0
Distance to Surface Water Body	<200'	20
	200' to 1,000'	10
	>1,000'	0



## 2.2 Remedial Action Levels for Soil

From the NMOCD guidance document *Guidelines for Remediation of Leaks, Spills and Releases*, dated August 13, 1993. The total ranking score determines the degree of remediation that may be required on a site specific basis. The total ranking score is the sum of all four individual ranking criteria. The Recommended Remedial Action Level's (RRAL's) based on total site ranking are summarized in the table below.

Constituent	Site Ranking >19	Site Ranking 10	Site Ranking 0
<b>Benzene</b>	10 mg/kg	10 mg/kg	10 mg/kg
<b>Total BTEX</b>	50 mg/kg	50 mg/kg	50 mg/kg
<b>TPH</b>	100 mg/kg	1,000 mg/kg	5,000 mg/kg

Though not mentioned in the NMOCD guidance document *Guidelines for Remediation of Leaks, Spills and Releases*, dated August 13, 1993. The recommended remedial action level for Total Chloride concentration in NMOCD District 2 is 1,000 mg/kg regardless of depth to groundwater.

## 3.0 Site Area Description

### 3.1 Soil Description

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Service (NRCS), the soil in this area is made up of the Gypsum Land-Cottonwood complex with 0 to 3 percent slopes. Drainage courses in this area are normally dry.

### 3.2 Ground Water Depth and Wellhead Distance

The New Mexico State Engineer database indicates that ground water in the project vicinity is at a depth of 50-feet below ground surface (BGS). The nearest water well to this site, well (C-01892-S) is located 2,247-feet from the site. See [Appendix III](#) for the referenced groundwater data and well data.

### 3.3 Surface Water Distance

The nearest surface water body is the Pecos River. The nearest bank of the river is approximately 4.3 miles east of the site. See [Appendix II](#) for area maps.

### 3.4 Site Ranking Conclusion

Based on the information provided in the above sections it is concluded that the ranking for this site is 10. Therefore NMOCD RRAL's for this incident should be consistent with the description in section 2.2.

## 4.0 Incident Information

### 4.1 Incident Description

On October 4, 2013 a release was discovered on the Mercury Fee Line. Approximately 5bbls of pipeline liquids were released. No fluid was recovered.

## 5.0 Remediation Activities

### 5.1 Excavation Activities

A trench was dug to expose the pipeline and facilitate replacement of the affected portion of pipe. The excavated soil was stockpiled on plastic liner. Following repair Talon mobilized personnel to conduct soil sampling within the trench. Upon receipt of analytical results (summarized in the next section) it was determined that the excavation would need to be expanded.

Talon mobilized equipment and personnel to expand the trench utilizing field chloride titrations and PID readings to guide the extent of the excavation.

### 5.2 Soil Sampling

Following excavation activities soil samples were collected from the bottom and sidewalls of the trench the analytical results from the soil sampling are summarized in the tables below. Laboratory Analytical Reports and Chain of Custody Documentation can be found in [Appendix V](#).

November 7, 2013

Sample ID	Depth (feet)	Benzene (mg/kg)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg)
S-1	6.5	<0.050	<0.300	896	<10.0
S-2	6.5	<5.00	330	5280	14230
S-3	Sidewall	<0.050	<0.300	1090	10.6
S-4	Sidewall	<0.50	<0.300	1760	<10.0
S-5	Sidewall	<0.050	<0.300	1040	<10.0
S-6	Sidewall	<2.0	73.6	3600	8700

February 10, 2014

Sample ID	Depth (feet)	Benzene (mg/kg)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg)
BG-1	0	--	--	25600	--
BG-1	6.5	--	--	1250	--
S-2	8.5	<0.050	<0.300	1470	<10.0
S-4	Sidewall	--	--	640	--
S-6	Sidewall	<0.050	<0.300	384	<10.0

### 5.3 Backfill and Site Grading Activities

Following receipt of analytical results from the initial soil sampling event on November 7, 2013 the excavation was expanded in the vicinity of sample locations S-2, S-4 and S-6 to the extent feasible due to infrastructure in the area. A background soil sample was also taken sample location BG-1 in order to confirm elevated background chloride concentrations. Following review of the site and analytical data Mike Bratcher-NMOCD approved backfill of the site. The site was backfilled with top soil and contoured to match the surrounding terrain. The agency backfill approval can be found in [Appendix VI](#).

## 6.0 Conclusions and Recommendations

### 6.1 Conclusions

- The site was excavated utilizing field chloride titrations and PID readings to guide the extent of the excavation.
- The excavation was expanded to the maximum extent possible due to site conditions and infrastructure within the work area.
- Background soil samples were taken to confirm elevated background chloride concentrations.
- Taking into account site conditions and background chloride concentrations, permission was granted by NMOCD to backfill the excavation despite the chloride concentrations in the vicinity of sample location S-2 being above NMOCD RRAL's for total chlorides.

### 6.2 Recommendations

Based on the analytical results from the soil sampling events, the elevated background chloride levels, site conditions and NMOCD concurrence that the site was adequately remediated, we recommend that no further activities be required and that closure with regard to this release be granted.

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

Respectfully submitted,

TALON/LPE



Sheldon Hitchcock  
Project Manager



David J. Adkins  
District Manager

Attachments

- Appendix I Site Plan
- Appendix II Area Maps
- Appendix III Groundwater and Well Data
- Appendix IV Initial C-141
- Appendix V Laboratory Results
- Appendix VI Agency Backfill Approval



# APPENDIX I

## SITE PLAN

# Mercury Fee Line

Enterprise Products Operating, LLC

## Legend

- Impacted Area
- Pipeline
- Sample Location



Google Earth

2/2/06 5:59:31 PM

Received by OGD: 4/12/2014 3:30 PM

Released to Imaging: 4/13/2023 7:21:22 AM

## APPENDIX II

## AREA MAPS



Page 12 of 37

285

31

740

Polash-Mines-Rd

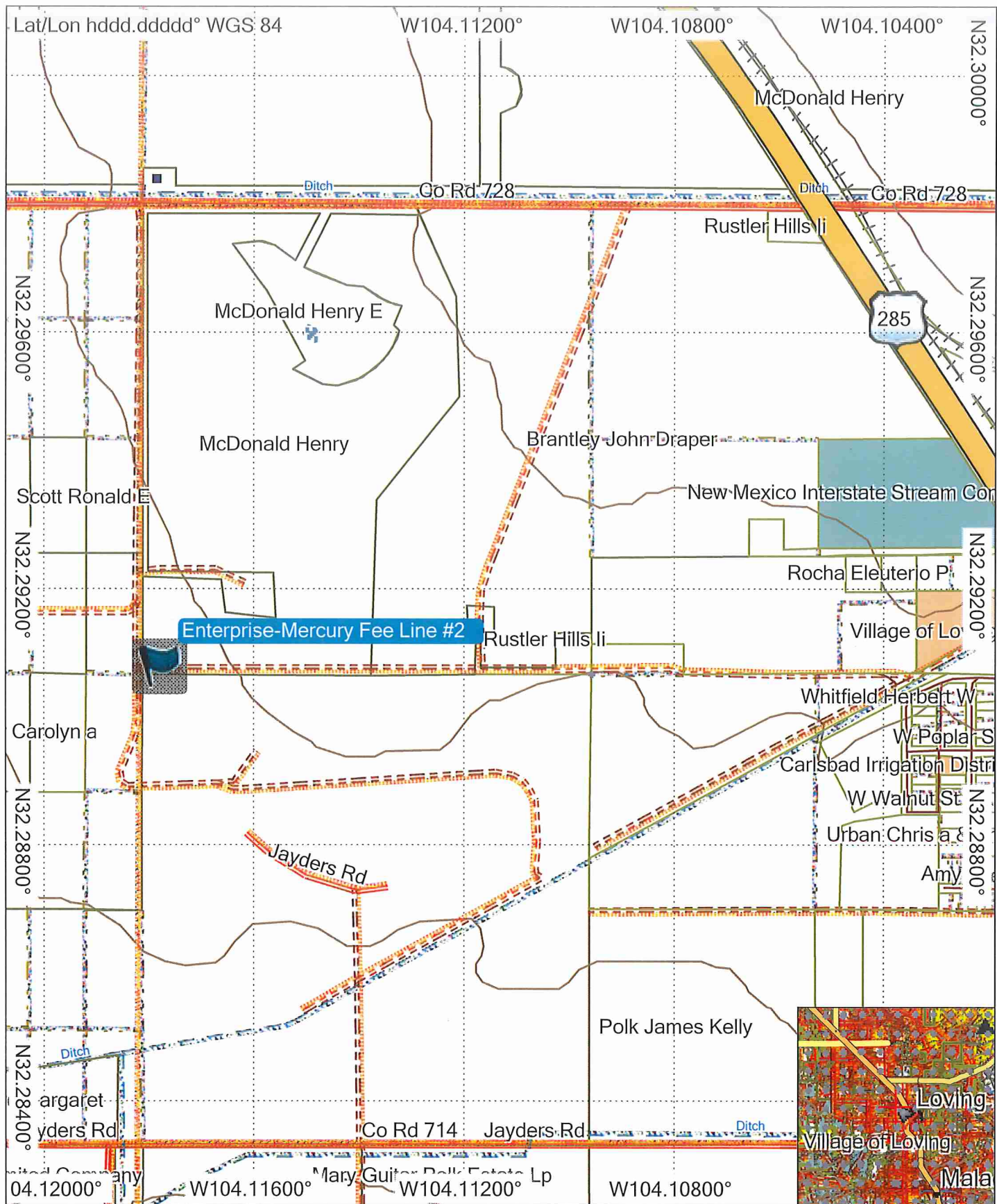
## Enterprise-Mercury-FEE #2

Okra

387







NM\_PLAT4GPS  
All rights reserved.  
gps\_mapper  
©2015 onXmaps, Inc.

10/21/2016 10:48:50 AM

GARMIN.

TN MN  
8.0°  
1/1/2010

## **APPENDIX III**

# **GROUNDWATER AND WELL DATA**



# 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 Q Q	64-16 4 Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 00851	C	ED		3	17	23S	28E	583438	3574217*	1029	200	50	150

Average Depth to Water: 50 feet

Minimum Depth: 50 feet

Maximum Depth: 50 feet

Record Count: 1

Basin/County Search:

UTMNAD83 Radius Search (in meters):

Easting (X): 583241

Northing (Y): 3573207

Radius: 1100

\*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.

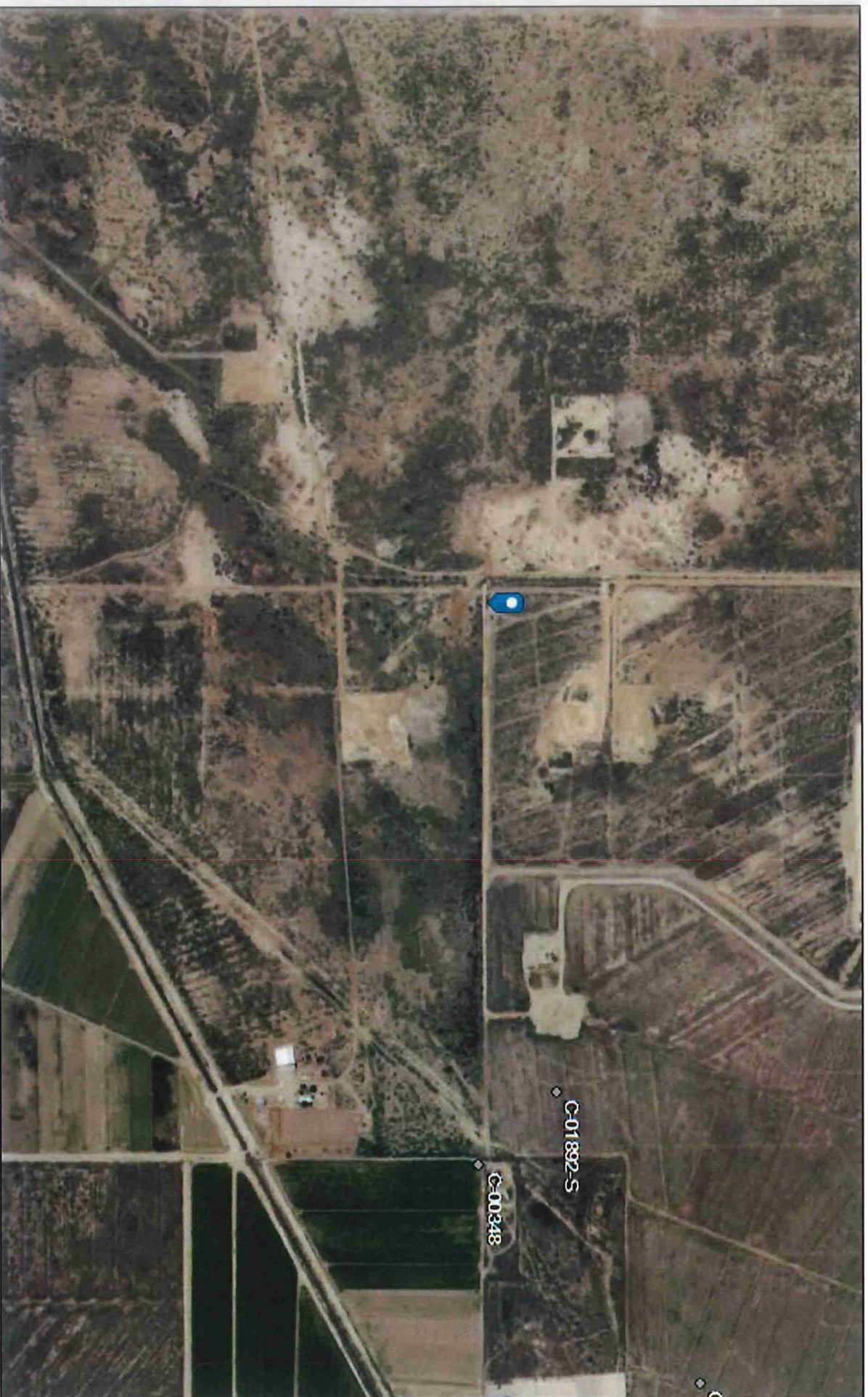
12/12/13 11:23 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



# USE WELL LOCATIONS

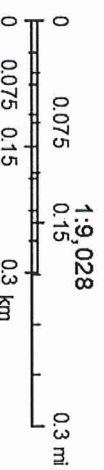


April 6, 2017

OSE Wells

Other

OSE District Boundary



Est. HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors  
Est. HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the



## APPENDIX IV

## INITIAL C-141

District I  
1625 N. French Dr., Hobbs, NM 88240  
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1301 W. Grand Avenue, Artesia, NM 88210  
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1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised October 10, 2003

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

### Release Notification and Corrective Action

**nJMW 1330533197** **OPERATOR** ☒ Initial Report ☐ Final Report

Name of Company	<i>Enterprise Field Services LLC 100347</i>	Contact	<i>Jim Heap</i>
	<i>PO Box 4324, Houston, TX 77252</i>	Telephone No.	<i>432-686-5404</i>
Facility Name	<i>Pipeline ROW, Mercury Fee Line #29</i>	Facility Type:	<i>Gas Gathering Pipeline</i>
Surface Owner	<i>Private-McDonald</i>	Mineral Owner	<i>NA</i>
		Lease No.	<i>NA</i>

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	<i>20</i>	<i>23S</i>	<i>28E</i>					<i>Eddy</i>

Latitude *32.290685 N* Longitude *-104.117925 W*

### NATURE OF RELEASE

Type of Release	<i>Natural Gas and Pipeline Liquids</i>	Volume of Release	<i>7,553 MCF</i>	Volume Recovered	<i>0</i>
Source of Release	<i>Pipeline Leak</i>	Date and Hour of Occurrence	<i>10/04/2013 17:00 (MDT)</i>	Date and Hour of Discovery	<i>10/23/2013 15:00 (MDT)</i>
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	<i>NMOCD Region 2, Mike Bratcher</i>		
By Whom?	<i>Jim Heap</i>	Date and Hour	<i>17:00 CDT</i>		
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.\*

**RECEIVED**

OCT 30 2013

NMOCD ARTESIA

Describe Cause of Problem and Remedial Action Taken.\*

*Suspected internal corrosion. The line was isolated, blown-down and scheduled for repair. Loss volume includes blow-down.*

Describe Area Affected and Cleanup Action Taken.\*

*Any impacted area will be determined when the line is excavated; landowner will be notified. Current observation shows a release of liquids to the surrounding area. Repair schedule is not known at the time of this report.*

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: <i>Terry L. Hurlburt</i>	Approved by District Supervisor: <i>Mike Bratcher</i>	
Printed Name: <i>Terry L. Hurlburt</i>	Approval Date: <i>NOV 01 2013</i>	Expiration Date:
Title: <i>Sr. Vice President</i>	Conditions of Approval: Remediation per OCD Rule & Guidelines. <b>SUBMIT REMEDIATION</b>	
E-mail Address: <i>snolan@eprod.com</i>	Attached <input type="checkbox"/>	
Date: <i>11/01/2013</i> Phone: <i>713-381-6595</i>	<b>PROPOSAL NO LATER THAN:</b> <i>December 1st 2013</i>	

\* Attach Additional Sheets If Necessary

*fJMW 132105 2848*

*iJMW 1330535471*

*2RP-2038*

## APPENDIX V

# LABORATORY RESULTS



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

November 18, 2013

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MERCURY

Enclosed are the results of analyses for samples received by the laboratory on 11/11/13 13:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T101704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager





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: 11/11/2013  
Reported: 11/18/2013  
Project Name: MERCURY  
Project Number: 700348.132.02  
Project Location: NONE GIVEN

Sampling Date: 11/07/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-1 6.5' (H302743-01)**

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2013	ND	1.75	87.5	2.00	13.2	
Toluene*	<0.050	0.050	11/14/2013	ND	1.75	87.4	2.00	13.0	
Ethylbenzene*	<0.050	0.050	11/14/2013	ND	1.74	87.1	2.00	13.2	
Total Xylenes*	<0.150	0.150	11/14/2013	ND	5.12	85.3	6.00	12.7	
Total BTEX	<0.300	0.300	11/14/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	11/14/2013	ND	432	108	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	11/13/2013	ND	197	98.6	200	7.27	
DRO >C10-C28	<10.0	10.0	11/13/2013	ND	188	94.0	200	9.72	

Surrogate: 1-Chlorooctane 98.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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.

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: 11/11/2013  
Reported: 11/18/2013  
Project Name: MERCURY  
Project Number: 700348.132.02  
Project Location: NONE GIVEN

Sampling Date: 11/07/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-2 6.5' (H302743-02)****BTEX 8021B**

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	11/14/2013	ND	1.75	87.5	2.00	13.2	
Toluene*	45.8	5.00	11/14/2013	ND	1.75	87.4	2.00	13.0	
Ethylbenzene*	20.6	5.00	11/14/2013	ND	1.74	87.1	2.00	13.2	
Total Xylenes*	264	15.0	11/14/2013	ND	5.12	85.3	6.00	12.7	
Total BTEX	330	30.0	11/14/2013	ND					

Surrogate: 4-Bromofluorobenzene (PDE) 125 % 89.4-126

**Chloride, SM4500Cl-B**

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	11/14/2013	ND	432	108	400	3.77	

**TPH 8015M**

mg/kg

Analyzed By: MS

S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	6930	10.0	11/13/2013	ND	197	98.6	200	7.27	
DRO >C10-C28	7300	10.0	11/13/2013	ND	188	94.0	200	9.72	

Surrogate: 1-Chlorooctane 249 % 65.2-140

Surrogate: 1-Chlorooctadecane 169 % 63.6-154

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.

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:	11/11/2013	Sampling Date:	11/07/2013
Reported:	11/18/2013	Sampling Type:	Soil
Project Name:	MERCURY	Sampling Condition:	Cool & Intact
Project Number:	700348.132.02	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S-3 6.5' (H302743-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2013	ND	1.75	87.5	2.00	13.2	
Toluene*	<0.050	0.050	11/14/2013	ND	1.75	87.4	2.00	13.0	
Ethylbenzene*	<0.050	0.050	11/14/2013	ND	1.74	87.1	2.00	13.2	
Total Xylenes*	<0.150	0.150	11/14/2013	ND	5.12	85.3	6.00	12.7	
Total BTEX	<0.300	0.300	11/14/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	11/14/2013	ND	432	108	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	10.6	10.0	11/13/2013	ND	197	98.6	200	7.27	
DRO >C10-C28	<10.0	10.0	11/13/2013	ND	188	94.0	200	9.72	

Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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*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:	11/11/2013	Sampling Date:	11/07/2013
Reported:	11/18/2013	Sampling Type:	Soil
Project Name:	MERCURY	Sampling Condition:	Cool & Intact
Project Number:	700348.132.02	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S-4 6.5' (H302743-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2013	ND	1.75	87.5	2.00	13.2	
Toluene*	<0.050	0.050	11/14/2013	ND	1.75	87.4	2.00	13.0	
Ethylbenzene*	<0.050	0.050	11/14/2013	ND	1.74	87.1	2.00	13.2	
Total Xylenes*	<0.150	0.150	11/14/2013	ND	5.12	85.3	6.00	12.7	
Total BTEX	<0.300	0.300	11/14/2013	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	11/14/2013	ND	432	108	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	11/13/2013	ND	197	98.6	200	7.27	
DRO >C10-C28	<10.0	10.0	11/13/2013	ND	188	94.0	200	9.72	

Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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*Celey D. Keene*

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:	11/11/2013	Sampling Date:	11/07/2013
Reported:	11/18/2013	Sampling Type:	Soil
Project Name:	MERCURY	Sampling Condition:	Cool & Intact
Project Number:	700348.132.02	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S-5 6.5' (H302743-05)**

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	11/14/2013	ND	1.75	87.5	2.00	13.2	
Toluene*	<0.050	0.050	11/14/2013	ND	1.75	87.4	2.00	13.0	
Ethylbenzene*	<0.050	0.050	11/14/2013	ND	1.74	87.1	2.00	13.2	
Total Xylenes*	<0.150	0.150	11/14/2013	ND	5.12	85.3	6.00	12.7	
Total BTX	<0.300	0.300	11/14/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	11/14/2013	ND	432	108	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	11/13/2013	ND	197	98.6	200	7.27	
DRO >C10-C28	<10.0	10.0	11/13/2013	ND	188	94.0	200	9.72	

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 119 % 63.6-154

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*Celey D. Keene*

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:	11/11/2013	Sampling Date:	11/07/2013
Reported:	11/18/2013	Sampling Type:	Soil
Project Name:	MERCURY	Sampling Condition:	Cool & Intact
Project Number:	700348.132.02	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S-6 6.5' (H302743-06)**

BTEX 8021B		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<2.00	2.00	11/14/2013	ND	1.75	87.5	2.00	13.2		
Toluene*	4.67	2.00	11/14/2013	ND	1.75	87.4	2.00	13.0		
Ethylbenzene*	6.26	2.00	11/14/2013	ND	1.74	87.1	2.00	13.2		
Total Xylenes*	62.7	6.00	11/14/2013	ND	5.12	85.3	6.00	12.7		
Total BTEX	73.6	12.0	11/14/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 139 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	11/14/2013	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2580	10.0	11/13/2013	ND	197	98.6	200	7.27		
DRO >C10-C28	6120	10.0	11/13/2013	ND	188	94.0	200	9.72		

Surrogate: 1-Chlorooctane 316 % 65.2-140

Surrogate: 1-Chlorooctadecane 180 % 63.6-154

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\*=Accredited Analyte

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



# CARDINAL Laboratories

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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

[illegible]



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

February 12, 2014

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MERCURY

Enclosed are the results of analyses for samples received by the laboratory on 02/11/14 12:20.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager




**Analytical Results For:**

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

 Received: 02/11/2014  
 Reported: 02/12/2014  
 Project Name: MERCURY  
 Project Number: 700348.137.02  
 Project Location: NONE GIVEN

 Sampling Date: 02/10/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: BG-1 0' (H400414-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25600	16.0	02/12/2014	ND	416	104	400	3.92	

**Sample ID: BG-1 6.5' (H400414-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	02/12/2014	ND	416	104	400	3.92	

**Sample ID: S-2 8.5' (H400414-03)**

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	02/11/2014	ND	2.34	117	2.00	4.12	
Toluene*	<0.050	0.050	02/11/2014	ND	2.32	116	2.00	3.68	
Ethylbenzene*	<0.050	0.050	02/11/2014	ND	2.30	115	2.00	4.18	
Total Xylenes*	<0.150	0.150	02/11/2014	ND	6.76	113	6.00	3.04	
Total BTX	<0.300	0.300	02/11/2014	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	02/12/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/11/2014  
Reported: 02/12/2014  
Project Name: MERCURY  
Project Number: 700348.137.02  
Project Location: NONE GIVEN

Sampling Date: 02/10/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-2 8.5' (H400414-03)**

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	02/11/2014	ND	194	96.9	200	0.635	
DRO >C10-C28	<10.0	10.0	02/11/2014	ND	188	94.2	200	1.47	
Surrogate: 1-Chlorooctane	77.4 %	65.2-140							
Surrogate: 1-Chlorooctadecane	80.2 %	63.6-154							

**Sample ID: S-4 7' (H400414-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	02/12/2014	ND	416	104	400	3.92	

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*Coley D. Keene*

Coley D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 02/11/2014  
Reported: 02/12/2014  
Project Name: MERCURY  
Project Number: 700348.137.02  
Project Location: NONE GIVEN

Sampling Date: 02/11/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-6 7' (H400414-05)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/11/2014	ND	2.34	117	2.00	4.12		
Toluene*	<0.050	0.050	02/11/2014	ND	2.32	116	2.00	3.68		
Ethylbenzene*	<0.050	0.050	02/11/2014	ND	2.30	115	2.00	4.18		
Total Xylenes*	<0.150	0.150	02/11/2014	ND	6.76	113	6.00	3.04		
Total BTEX	<0.300	0.300	02/11/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/12/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/11/2014	ND	194	96.9	200	0.635	
DRO >C10-C28	<10.0	10.0	02/11/2014	ND	188	94.2	200	1.47	

Surrogate: 1-Chlorooctane 98.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



### Notes and Definitions

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

---

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---

Celey D. Keene, Lab Director/Quality Manager





## **APPENDIX IV**

# **AGENCY BACKFILL APPROVAL**

## Sheldon Hitchcock

---

**From:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>  
**Sent:** Wednesday, February 12, 2014 1:46 PM  
**To:** Sheldon Hitchcock  
**Subject:** RE: Enterprise- Mercury Fee Release Backfill

Sheldon,

Taking into account the area and site conditions, OCD agrees to commence backfill operations.

Mike Bratcher  
NMOCD District 2  
811 S. First Street  
Artesia, NM 88210  
O: 575-748-1283 X108  
C: 575-626-0857  
F: 575-748-9720

---

**From:** Sheldon Hitchcock [mailto:slhitchcock@talonlpe.com]  
**Sent:** Wednesday, February 12, 2014 12:14 PM  
**To:** Bratcher, Mike, EMNRD  
**Subject:** Enterprise- Mercury Fee Release Backfill

Mike,

Please review the attached site map and lab data for the Mercury. There is still elevated chloride levels at S-2. However given the background samples and the limited room that is left to safely excavate I would like to have permission to backfill. Please let me know if you have any questions or concerns.

Respectfully,

**Sheldon L. Hitchcock**  
Environmental Scientist  
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)



Better Business Bureau Torch Award for Marketplace Ethics: 2010 Winner, 2009 Finalist

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
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 206654

CONDITIONS

Operator: ENTERPRISE PRODUCTS OPERATING, LLC P.O. BOX 4324 HOUSTON, TX 77210	OGRID: 374092
	Action Number: 206654
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	4/13/2023