

BOPCO

Poker Lake Unit #139

CLOSURE REPORT

2RP-901

API No. 30-015-29847

Release Date: 8/23/2011

Unit Letter J, Section 24, Township 24 South, Range 30 East

March 11, 2014

Prepared by:

Environmental Department
Diversified Field Service, Inc.
3412 N. Dal Paso
Hobbs, NM 88240
Phone: (575)964-8394
Fax: (575)393-8396

Table of Contents

1 Introduction

2 Site Activities

3 Conclusion

Figure – Site Diagram with Sample Data

APPENDICES

Appendix I – Initial Form C-141

Appendix II – Site Photographs

Appendix III – Groundwater Data

Appendix IV – Laboratory Analyses

Appendix V – Correspondence

Appendix VI – Final C-141

PLU #139

1 INTRODUCTION

BOPCO has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located east of Loving NM, in Eddy County. The leak site resulted from the stuffing box packing failure on the pumping unit well head. The failure released produced water and crude oil onto approximately 4215 sq. ft. of the caliche well pad. A form C-141 was submitted to the NMOCD on September 14, 2011 (Appendix I).

2 SITE ACTIVITIES

On September 30, 2013, DFSI personnel collected soil samples from the site with a hand auger and backhoe. The samples were field screened for chloride. Samples were taken to 10 ft. below ground surface (bgs), at which point, soils were compacted such that the backhoe was refused (Figure).

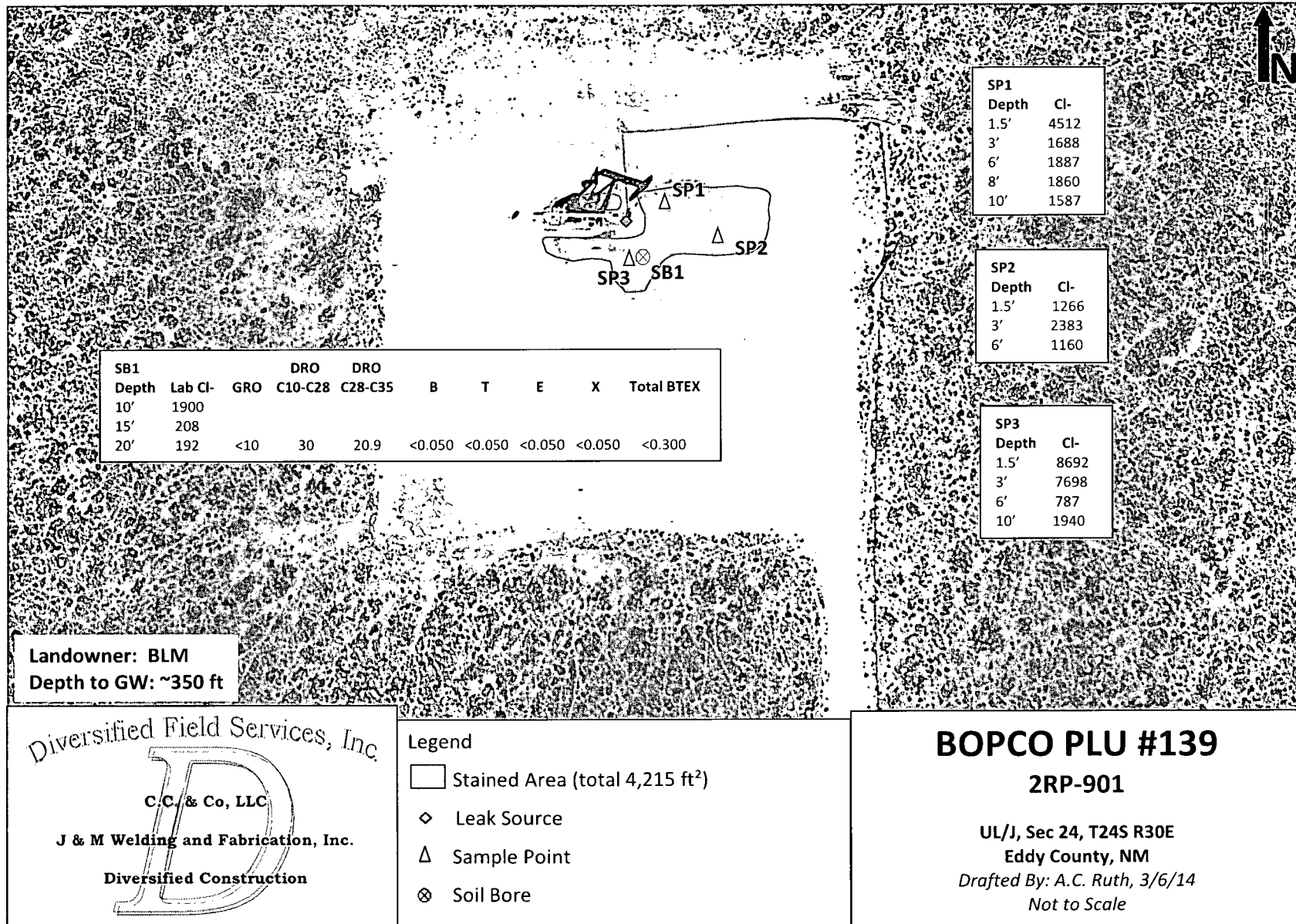
On October 7, 2013, DFSI personnel excavated the site to 3 ft. bgs and installed a 20 mil plastic liner in the excavation floor. A poly pipe was installed in the most highly impacted area of the site (SP3) through the liner in order to later delineate the depth of impact at the site via drilling. The excavation was backfilled with imported caliche and leveled. Photographs of site activities can be viewed in Appendix II. Soil samples were inadvertently not submitted to a commercial laboratory for analyses. The NMOCD was notified on October 11, 2013 of the lack of laboratory analyses and conditions at the site, whereby an allowance was made for the submittal of the proposed soil bore samples to represent site delineation (Appendix V).

On December 11, 2013, SB1 was drilled at the former SP3 and samples were collected to 20 ft. bgs. The 10 ft., 15 ft., and 20 ft. samples were sent to an NMOCD approved commercial laboratory for chloride, TPH (Total Petroleum Hydrocarbons – GRO/DRO), and BTEX (benzene, toluene, ethyl benzene, xylene) analyses. At 20 ft. bgs, chloride reduced to 192 mg/kg. GRO was less than 10 mg/kg, DRO (C10-C28) was 30 mg/kg, DRO (C28-C35) was 20.9 mg/kg, and Total BTEX was less than 0.300 mg/kg (Appendix IV).

3 Conclusion

According to the U.S. Geological Survey and the NM Office of the State Engineer, depth to groundwater in the area averages approximately 400 ft. bgs (Appendix III). Based on the removal of soils containing elevated chloride and the installation of a liner, BOPCO respectfully requests the closure of the regulatory file for the site.

FIGURE: Site Diagram with Sample Data



Appendix I

INITIAL FORM C-141

Diversified Field Service, Inc.
3412 N. Dal Paso
Hobbs, NM 88240
(575) 964-8394

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

30-015-29847

Release Notification and Corrective Action

NMB1125754115

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company BOPCO, L.P.	260737	Contact Tony Savoie
Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220		Telephone No. 432-556-8730
Facility Name Poker Lake Unit #139		Facility Type E&P

Surface Owner Federal	Mineral Owner Federal	Lease No
-----------------------	-----------------------	----------

LOCATION OF RELEASE

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

Latitude N 32.201670 Longitude W 103.832130

NATURE OF RELEASE

Type of Release: Produced water and crude oil	Volume of Release: 25 bbls of produced water and 5 bbls of crude oil.	Volume Recovered: 8 bbls total fluid
Source of Release: Pumping well stuffing box.	Date and Hour of Occurrence 8/23/11, Hour unknown	Date and Hour of Discovery 8/23/11 10:20 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD emergency operator ext.104	
By Whom? Tony Savoie	Date and Hour 8/23/11 11:00 a.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

RECEIVED
SEP 13 2011
NMOCD ARTESIA

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* A pumping unit stuffing box packing failed, the packing was replaced.

Describe Area Affected and Cleanup Action Taken.* Approximately 4215 sq. ft. of caliche well pad, all of the free standing fluid was removed with a vacuum truck and the saturated caliche was scraped up and stockpiled on the well pad location. A remediation plan will be developed in accordance with the NMOCD and BLM remediation guidelines.

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

Signature: <u>Tony Savoie</u>	OIL CONSERVATION DIVISION	
Printed Name: Tony Savoie	Approved by <u>[Signature]</u>	
Title: Waste Mgmt. & Remediation Specialist	Approval Date: <u>SEP 14 2011</u>	Expiration Date:
E-mail Address: TASavoie@BassPet.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 9/11/11	Remediation per OCD Rules & Guidelines. SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:	
Phone: 432-556-8730	<u>10/14/2011</u>	

* Attach Additional Sheets If Necessary

2RP-901

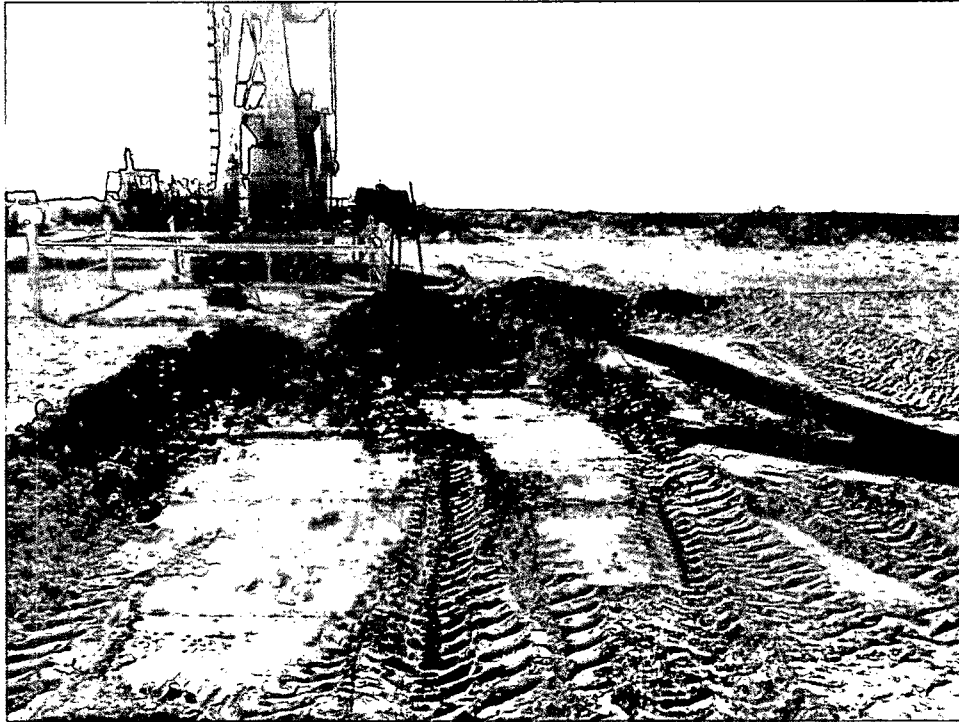
Appendix II

SITE PHOTOGRAPHS

Diversified Field Service, Inc.
3412 N. Dal Paso
Hobbs, NM 88240
(575) 964-8394

Poker Lake Unit #139

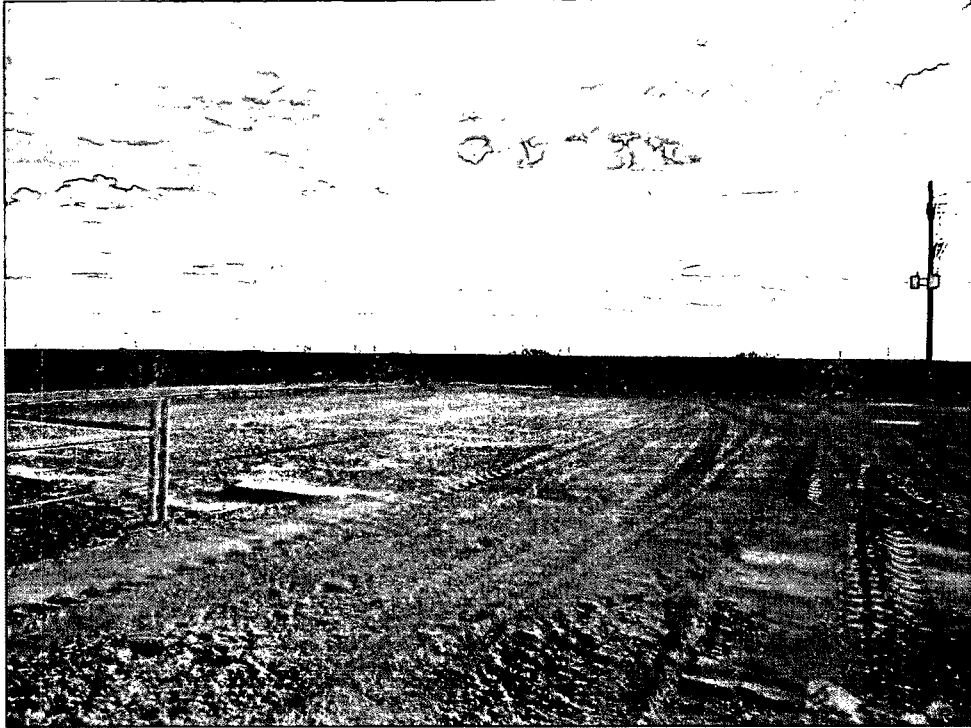
Section 24-TS24S-R30E



Beginning excavation of impacted soils 9/25/13



Liner installed in completed excavation, beginning backfill 10/7/13



Site backfilled 10/8/13



Site backfilled and leveled 10/8/13

Appendix III

GROUNDWATER DATA

Diversified Field Service, Inc.
3412 N. Dal Paso
Hobbs, NM 88240
(575) 964-8394

DEPTH TO GROUNDWATER

BOPCO PLU #139

UL: J

Sec: 24

T: 24S

R: 30E

Groundwater Depth: ~400 ft.

○ = NM Office of the State Engineer

NMOCD GW trend map - 350 to 400 ft bgs

● = U.S. Geological Survey (unknown well)

Date: 10/9/13

✕ = Site Location

By: Amy Ruth

		T24S R30E	T24S R31E	
	14	13	18	
	23 400' CWM STK ○	24 ✕	19	
	26	25	30	



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

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

(In feet)

POD Number	POD		Q Q Q							X	Y	Depth Well	Depth Water	Water Column	
	Sub- Code	basin	County	64	16	4	Sec	Tws	Rng						
<u>C 02110</u>			ED	4	3	23	24S	30E	608036	3562950*		600	400	200	
<u>C 02780</u>			ED	2	3	2	23	24S	30E	608535	3563857*		505		
<u>C 02781</u>			ED	4	3	2	23	24S	30E	608535	3563657*		624		
<u>C 02782</u>			ED	4	3	2	23	24S	30E	608535	3563657*		808		
<u>C 03558 POD1</u>	C		ED	1	2	2	25	24S	30E	610412	3562651		20	0	20
<u>C 03558 POD2</u>	C		ED	1	2	2	25	24S	30E	610412	3562651		20	0	20
<u>C 03558 POD3</u>	C		ED	1	2	2	25	24S	30E	610412	3562651		25	0	25
<u>C 03558 POD4</u>	C		ED	1	2	2	25	24S	30E	610412	3562651		25	0	25
<u>C 03558 POD5</u>	C		ED	1	2	2	25	24S	30E	610412	3562651		30	0	30

Average Depth to Water: 66 feet

Minimum Depth: 0 feet

Maximum Depth: 400 feet

Record Count: 9

PLSS Search:

Section(s): 13, 14, 23, 24, 25, 26 Township: 24S Range: 30E

*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.

10/9/13 10:46 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

		(acre ft per annum)																
		Sub																
WR File Nbr	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y	
C 02110		STK		3 CLARENCE W. MCDONALD	ED	C 02110			6416 4	4	3	23	24S	30E		608036	3562950*	

Record Count: 1

POD Search:

POD Number: C 02110

Sorted by: File Number

*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.

10/9/13 10:47 AM



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 1	Q 2	Q 3	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02109		ED		1	2	4	19	24S	30E		602130	3563412	130	150	-20

Average Depth to Water: 150 feet

Minimum Depth: 150 feet

Maximum Depth: 150 feet

Record Count: 1

PLSS Search:

Section(s): 18, 19, 30

Township: 24S

Range: 30E

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.



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)										(R=POD has been replaced and no longer serves this file. (quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)									
WR File Nbr	Sub	Use	Diversion	Owner	County	POD Number	Code Grant	Source	q q q				X	Y					
	basin								Sec	Tws	Rng								
C 02109		STK		3 TYSON MAHAFFEY	ED	C 02109		6416 4	1 2 4	19	24S	30E	602130	3563412					
C 03616	C	PRO		0 CONCHO OIL & GAS	ED	C 02109		6416 4	1 2 4	19	24S	30E	602130	3563412					

Record Count: 2

POD Search:

POD Number: C 02109

Sorted by: File Number

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10/9/13 10:53 AM

Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION

Appendix IV

LABORATORY ANALYSES

Diversified Field Service, Inc.
3412 N. Dal Paso
Hobbs, NM 88240
(575) 964-8394

December 17, 2013

JODY WALTERS

Bass Enterprises

522 W. Mermod #709

Carlsbad, NM 88220

RE: PLU #139

Enclosed are the results of analyses for samples received by the laboratory on 12/11/13 14:20.

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.

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:

 Bass Enterprises
 JODY WALTERS
 522 W. Mermod #709
 Carlsbad NM, 88220
 Fax To: (505) 887-7473

 Received: 12/11/2013
 Reported: 12/17/2013
 Project Name: PLU #139
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 12/11/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Amanda Ponce

Sample ID: SB 1 @ 10' (H302992-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1900	16.0	12/16/2013	ND	400	100	400	3.92		

Sample ID: SB 1 @ 15' (H302992-02)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	12/16/2013	ND	400	100	400	0.00		

Sample ID: SB 1 @ 20' (H302992-03)

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	12/13/2013	ND	1.94	96.9	2.00	1.16				
Toluene*	<0.050	0.050	12/13/2013	ND	1.95	97.5	2.00	0.216				
Ethylbenzene*	<0.050	0.050	12/13/2013	ND	1.95	97.6	2.00	1.18				
Total Xylenes*	<0.150	0.150	12/13/2013	ND	5.83	97.2	6.00	2.07				
Total BTEx	<0.300	0.300	12/13/2013	ND								

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 89.4-126

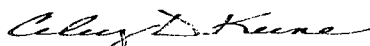
Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/16/2013	ND	400	100	400	0.00	

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

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Bass Enterprises
JODY WALTERS
522 W. Mermod #709
Carlsbad NM, 88220
Fax To: (505) 887-7473

Received: 12/11/2013
Reported: 12/17/2013
Project Name: PLU #139
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 12/11/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Amanda Ponce

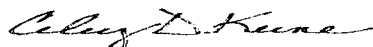
Sample ID: SB 1 @ 20' (H302992-03)

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	12/16/2013	ND	157	78.5	200	4.34	
DRO >C10-C28	30.0	10.0	12/16/2013	ND	194	96.8	200	2.72	
EXT DRO >C28-C35	20.9	10.0	12/16/2013	ND					
<hr/>									
Surrogate: 1-Chlorooctane	88.4 %	65.2-140							
Surrogate: 1-Chlorooctadecane	85.7 %	63.6-154							

Cardinal Laboratories

*=Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager

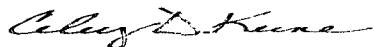
Notes and Definitions

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 <i>Samples reported on an as received basis (wet) unless otherwise noted on report</i>

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Bapco</u>		BILL TO		ANALYSIS REQUEST																							
Project Manager:		P.O. #:																									
Address:		Company: <u>Bapco</u>																									
City:	State:	Zip:	Attn: <u>Tony</u>																								
Phone #:	Fax #:	Address:																									
Project #:	Project Owner:		City:																								
Project Name: <u>PLU #139</u>			State: Zip:																								
Project Location: <u>Eddy County</u>			Phone #:																								
Sampler Name: <u>Miguel Gomez</u>			Fax #:																								
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING																
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL													OTHER:	DATE	TIME
	<u>H302992</u>																										
		<u>1 Sb1 @ 10'</u>	<u>G1</u>	<u>1</u>			<u>✓</u>					<u>✓</u>														<u>12-11-13</u>	<u>11:18</u>
		<u>2 Sb2 @ 15'</u>	<u>G1</u>	<u>1</u>			<u>✓</u>					<u>✓</u>														<u>12-11-13</u>	<u>11:20</u>
		<u>3 Sb4 @ 20'</u>	<u>G1</u>	<u>1</u>			<u>✓</u>					<u>✓</u>														<u>12-11-13</u>	<u>11:22</u>

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Relinquished By:	Date: <u>12/11/13</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<u>Miguel Gomez</u>	Time: <u>2:20</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY (Initials)		
Sampler - UPS - Bus - Other: <u>28-CT-SU</u>	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	<u>[Signature]</u>		
	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>			

Appendix V

CORRESPONDENCE

Diversified Field Service, Inc.
3412 N. Dal Paso
Hobbs, NM 88240
(575) 964-8394

From: Amy Ruth
To: [Mike Bratcher \(mike.bratcher@state.nm.us\)](mailto:mike.bratcher@state.nm.us)
Cc: SJWalters@BassPet.Com; Michael Patterson; [Stephen McGhee - Diversified Field Service, Inc. \(smcghee@diversifiedfsi.com\)](mailto:Stephen McGhee - Diversified Field Service, Inc. (smcghee@diversifiedfsi.com))
Subject: RE: Concern about BOPCO PLU #139
Date: Friday, October 11, 2013 9:44:00 AM

Hey Mike,

Thank you so much for your assistance with this site. Per our discussion this morning, BOPCO will drill the site at SP3 to delineate that point. Due to the problem with the unavailable lab data and the difficulty of retrieving new samples from under the liner, our field data along with drilling lab data at SP3 will be sufficient in this case. Again, thanks and talk to you soon.

Amy

From: Amy Ruth
Sent: Thursday, October 10, 2013 3:27 PM
To: Mike Bratcher (mike.bratcher@state.nm.us)
Cc: SJWalters@BassPet.Com; Michael Patterson; [Stephen McGhee - Diversified Field Service, Inc. \(smcghee@diversifiedfsi.com\)](mailto:Stephen McGhee - Diversified Field Service, Inc. (smcghee@diversifiedfsi.com))
Subject: Concern about BOPCO PLU #139
Importance: High

Hey Mike,

I just left you a voicemail because I've got a situation on the BOPCO PLU #139 and need to ask for your advice. At this site, I delineated the leak in the field using Standard Method 4500 cl- B, as always (field data is on the attached plat). The site was excavated to 3' bgs, a 20 mil liner was installed, one of the 3 sample points (SP3) was installed with a PVC pipe for possible drilling, and the excavation was backfilled. I realized today that I had inadvertently disposed of the samples for this site without submitting them to the lab.

I thought it might be acceptable to auger in at an angle under the liner, say around the perimeter in several places to grab samples as deep as we can reach so as not to compromise the liner. We had encountered auger refusal at approximately 6' bgs at this site during our previous delineation and had to use a backhoe to grab 8' and 10' samples. That's as deep as we were able to get with the backhoe due to the compacted caliche at that depth.

Please call me at your convenience to discuss.

Thank you!

Amy C. Ruth
Diversified Field Services, Inc.
315 S. Leech St.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Carlsbad Field Office
620 E. Greene St.
Carlsbad, NM 88220-6292

In Reply Refer To:
3162.4 (NM-080)
NMNM030453

November 6, 2013

NM Office of the State Engineer
Attn: Bill Duemling
1900 W. Second St.
Roswell, NM 88201

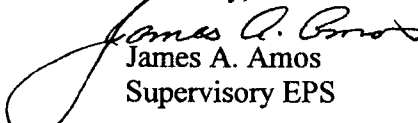
Re: NMNM030453: Poker Lake Unit 139
1980' FSL & 1980' FEL (NWSE) Section 24, T24S-R30E
N 32.20148, W -103.83210
Eddy County, New Mexico

Gentlemen:

The above well location was impacted from an August 23, 2011 spill event. Additional delineation of the site is to take place shortly. In order to fully delineate the impacted site, a drilling unit will be needed to complete the delineation. The Bureau of Land Management (land owner) authorizes the use of a drilling unit to accomplish the full delineation of the site.

If you have any questions contact Jim Amos, at 575-234-5909.

Sincerely,


James A. Amos
Supervisory EPS

Hobbs, NM 88240
Office: (575)397-6437
Mobile: (575)390-5454
Fax: (575)393-2981

"Nothing will work unless you do." -Maya Angelou

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Appendix VI

FINAL FORM C-141

Diversified Field Service, Inc.
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Hobbs, NM 88240
(575) 964-8394