

# ***ENVIRONMENTAL PLUS, INC.***

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## **CLOSURE REPORT**

**BOPCO, L.P.**  
**PLU CVX JV BS #023H**  
**Eddy County, New Mexico**  
**Unit Letter "N", Section 2, Township 25 South, Range 30 East**  
**Latitude 32.152604 North, Longitude 103.853799 West**  
**NMOCD Reference #2RP-3192**

Prepared For:

BOPCO, L.P.  
522 W. Mermod, Suite 704  
Carlsbad, New Mexico 88220

Prepared By:

Environmental Plus, Inc.  
2100 Ave 'O'  
Eunice, NM 88231

**July 2016**

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Daniel Dominguez  
Project Manager



22 July 2016

Mr. Mike Bratcher  
Environmental Specialist  
NMOCD  
811 S. First St.  
Artesia, New Mexico 88210

RE: Final Closure Report  
Bopco – PLU CVX JV BS #023H  
UL-N, Section 2, Township 25 South, Range 30 East  
Eddy County, New Mexico  
NMOCD Reference # 2RP 3192

Mr. Bratcher:

The following *Final Closure Report* serves as a condensed update on closure activities for the above referenced Site.

**Background Information:**

Well unloaded after well work was conducted causing the onsite frac tank to overflow to the ground surface. Vacuum trucks were called to the location and recovered 150 barrels of oil.

**Remediation Activities:**

EPI personnel mobilized on the site on August 21, 2015 to collect soil samples to determine the vertical extent of contamination. A total of thirty-four (34) soil samples were collected from six (6) sample locations; SP1 – SP6. Eleven (11) representative samples were sent to Cardinal Labs in Hobbs, New Mexico, for testing. Two (2) additional confirmation samples were collected on June 24, 2016. Sample SP1.5 was collected in between sample locations SP1 and SP2, with an additional two (2) foot bgs sample collected at SP6. Both samples were sent to Cardinal Labs for testing. Laboratory analytical results indicate BTEX, TPH and Chloride concentrations in excess of NMOCD Recommended Remedial Action Levels (RRALs) of 50 mg/Kg, 5,000 mg/Kg, and 1,000 mg/Kg, respectively, in the surface area at SP1 and SP2, also SP6 at one (1) foot bgs. The remainder of the release area is void of Benzene, BTEX, TPH and Chloride concentrations in excess of NMOCD RRALs of 10 mg/Kg, 50 mg/Kg, 5,000 mg/Kg, and 1,000 mg/Kg, respectively (reference *Figure 3* and *Table 2*).

The release area was excavated to a depth of approximately six (6) inches bgs in the areas of SP1 – SP5. The area around SP6 was excavated approximately one (1) foot bgs. Approximately 54 tons of contaminated soil were excavated and hauled to a state approved facility for disposal.

**Closure Activities:**

Based on laboratory analytical results and with NMOCD approval the excavation was backfilled with approximately 54 tons of clean soil. All soil was free of rocks, clumps or deleterious



material. The entire disturbed area was then contoured to blend with existing well pad area and protected against wind/water erosion.

Should you have any questions or concerns please feel free to contact me at (575) 394-3481 or via e-mail at [ddominguezepi@gmail.com](mailto:ddominguezepi@gmail.com) or Mr. Brad Blevins at (432) 214-3704 or via e-mail at [bblevins@basspet.com](mailto:bblevins@basspet.com). All official communication should be addressed to:

Mr. Brad Blevins  
Bopco, L.P.  
522 W. Mermond, Suite 704  
Carlsbad, NM 88220

Sincerely,

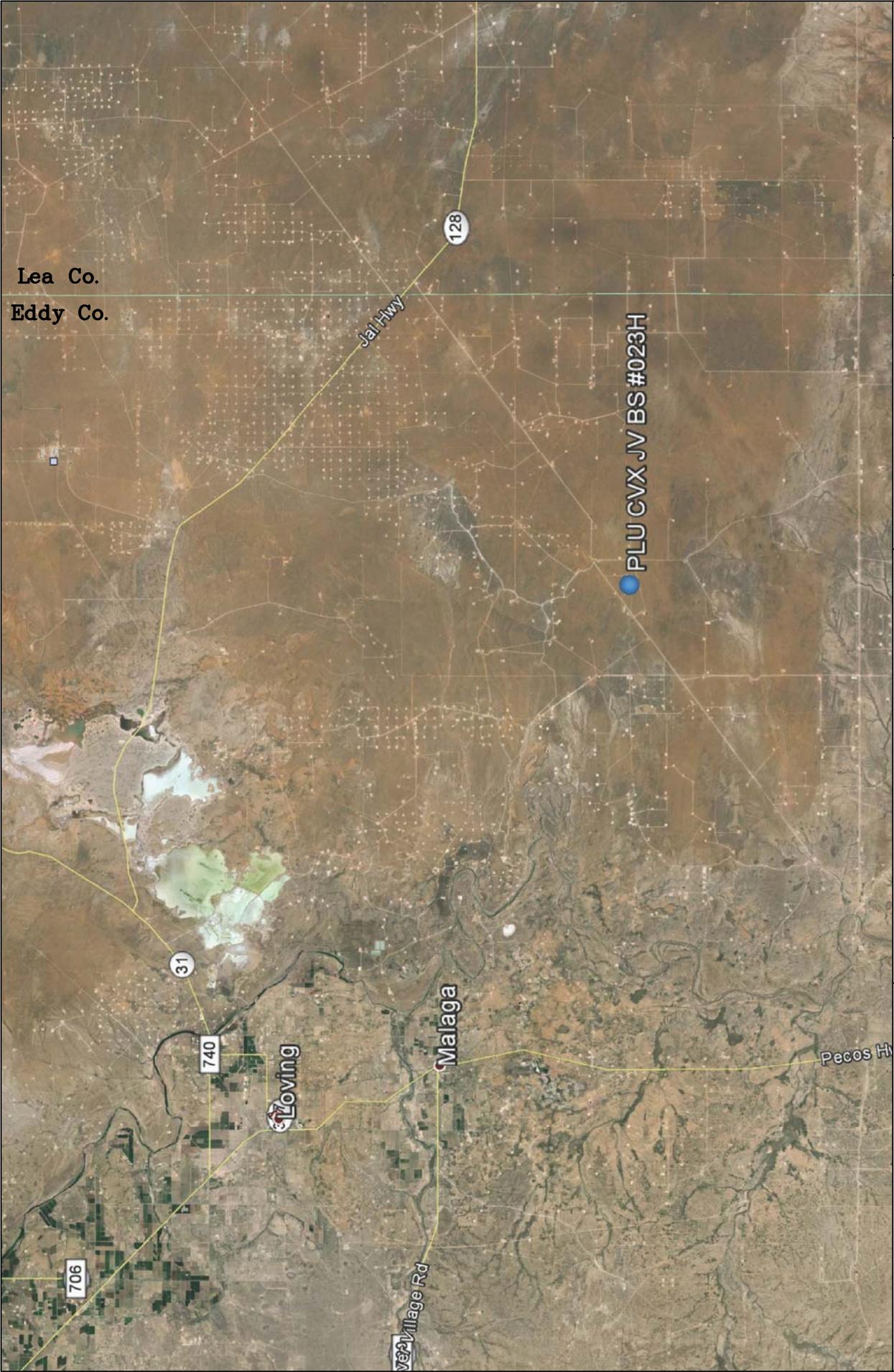
ENVIRONMENTAL PLUS, INC.

Daniel Dominguez  
Environmental Consultant

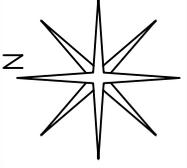
cc: Brad Blevins, EHS Asst. Remediation Foreman – Bopco, L.P.  
File

Encl.: Figure 1 – Area Map  
Figure 2 – Site Location Map  
Figure 3 – Site/Sample Map  
Table 1 – Well Data  
Table 2 – Summary of Soil Sample Field Testing and Laboratory Analytical Results  
Attachment I – Photographs  
Attachment II – Laboratory Analytical Results  
Attachment III – Correspondence  
Attachment IV – Copy of Initial NMOCD Form C-141, Final C-141

## **FIGURES**

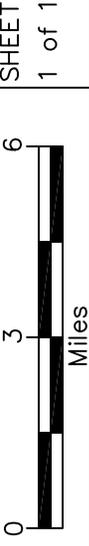


Lea Co.  
Eddy Co.



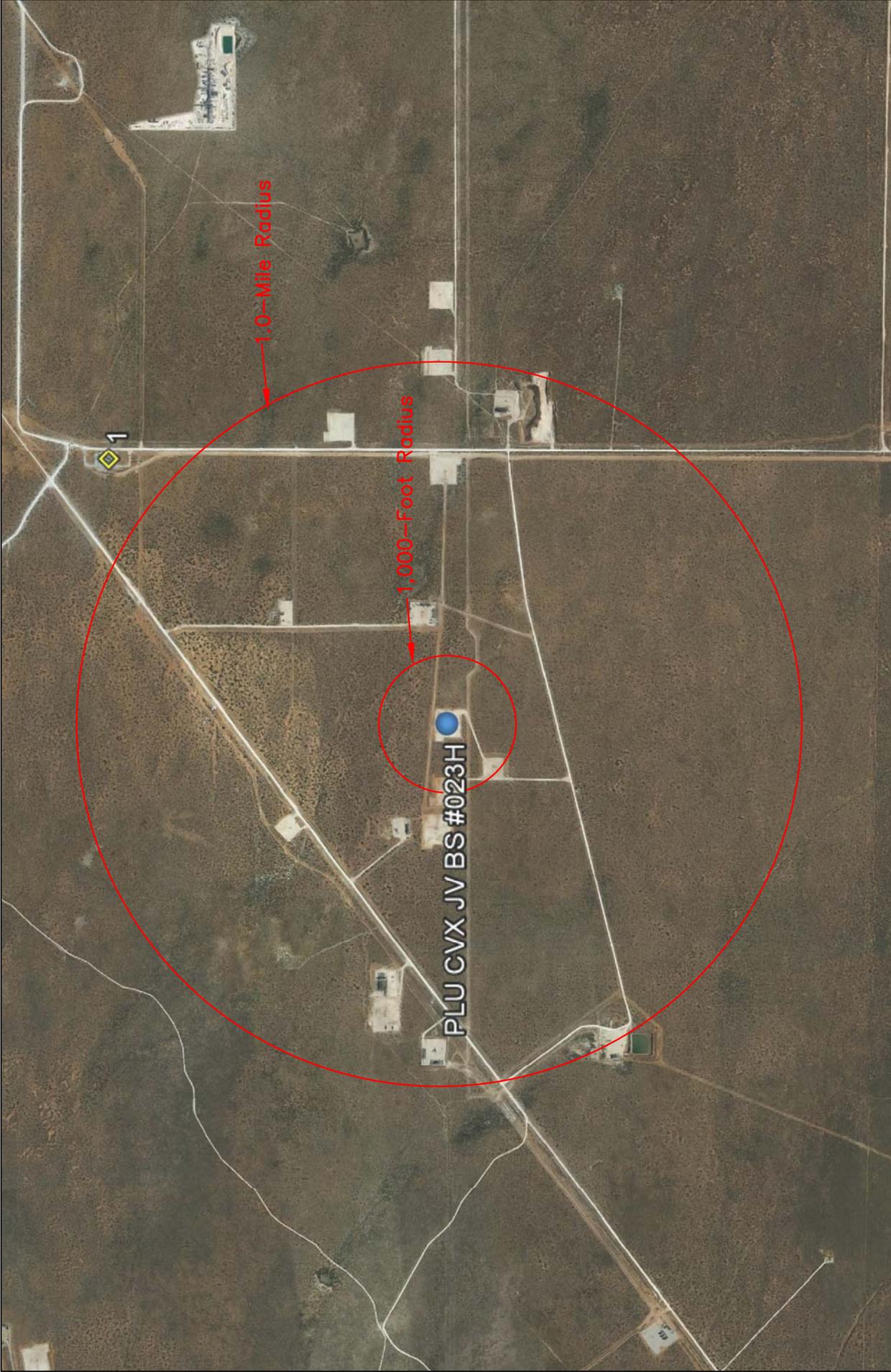
REVISED:

DWG By: D Dominguez  
July 2016



Eddy County, New Mexico  
SE 1/4 of SW 1/4, Sec. 2, T25S, R30E  
N 32° 9' 9.37" W 103° 51' 13.88"  
Elevation: 3,365 feet amsl

Figure 1  
Area Map  
Bopco, L.P.  
PLU CVX JV BS #023H



	REVISED: SHEET 1 of 1
DWG By: D Dominguez July 2016 0 2,000 4,000 Feet	Eddy County, New Mexico SE 1/4 of SW 1/4, Sec. 2, T25S, R30E N 32° 9' 9.37" W 103° 51' 13.88" Elevation: 3,365 feet amsl
Figure 2 Site Location Map Bopco, L.P. PLU CVX JV BS #023H	



LEGEND

X SP1 Sample Point

REVISED:

DWG By: D Dominguez  
July 2016

0 60 120 Feet

SHEET  
1 of 1

N

Figure 3  
Site/Sample Map  
Bopco, L.P.  
PLU CVX JV BS #023H

Eddy County, New Mexico  
SE 1/4 of SW 1/4, Sec. 2, T25S, R30E  
N 32° 9' 9.37" W 103° 51' 13.88"  
Elevation: 3,365 feet amsl

## **TABLES**

**TABLE 1**

**Well Data**

**Bopco, L.P. - PLU CVX JV BS #023H**

Ref #	Well Number	Use	Diversion <sup>A</sup>	Owner	q64	q16	q4	Sec	Twsp	Rng	Easting	Northing	Distance <sup>B</sup>	Date Measured	Surface Elevation <sup>C</sup>	Depth to Water (ft bgs)
1	C 03716	EXP	0	BOPCO LP	4	2	2	2	25S	30E	609069	3559211	1,620	03-Mar-14	3,402	425

\* = Data obtained from the New Mexico Office of the State Engineer Website ([http://iwaters.ose.state.nm.us:7001/iWATERS/wr\\_RegisServlet](http://iwaters.ose.state.nm.us:7001/iWATERS/wr_RegisServlet))

<sup>A</sup> = In acre feet per annum

<sup>B</sup> = In meters

<sup>C</sup> = Elevation interpolated from USGS topographical map based on referenced location.

EXP = Exploration

-- = Data not provided on the NM iwaters website

quarters are 1=NW, 2=NE, 3=SW, 4=SE; quarters are smallest to biggest

**TABLE 2**  
**Summary of Soil Sample Field Testing and Laboratory Analytical Results**  
**Bopco L.P.**  
**PLU-CVX-JV-BS #023H**

Lab Sample ID	Depth (feet)	Soil Status	Sample Date	PID Reading (ppm)	Field Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	EXT DRO C28-C35 (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
SP1	Surface	Excavated	21-Aug-15	1,063	2720	2.04	22.3	7.54	72.8	105	1,780	25,000	4,550	31,330	5,200
	1	In Situ	21-Aug-15	62.1	160	--	--	--	--	--	--	--	--	--	--
	2	In Situ	21-Aug-15	49.7	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.1	15.4	30.5	144
	3	In Situ	21-Aug-15	1.7	160	--	--	--	--	--	--	--	--	--	--
	4	In Situ	21-Aug-15	3.5	160	--	--	--	--	--	--	--	--	--	--
SP1.5	2	In Situ	24-Jun-16	6.2	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	224
SP2	Surface	Excavated	21-Aug-15	710	>4,000	0.612	6.00	2.15	21.6	30.4	427	17,800	3,760	21,987	10,400
	1	In Situ	21-Aug-15	620	160	--	--	--	--	--	--	--	--	--	--
	2	In Situ	21-Aug-15	36.7	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	43.4	20.0	63.4	160
	3	In Situ	21-Aug-15	20.6	240	--	--	--	--	--	--	--	--	--	--
	4	In Situ	21-Aug-15	21.3	320	--	--	--	--	--	--	--	--	--	--
	5	In Situ	21-Aug-15	14.7	400	--	--	--	--	--	--	--	--	--	--
	7	In Situ	21-Aug-15	18.9	160	--	--	--	--	--	--	--	--	--	--
	9	In Situ	21-Aug-15	19.0	160	--	--	--	--	--	--	--	--	--	--
	1	In Situ	21-Aug-15	160	160	<0.050	<0.050	0.060	0.767	0.827	33.4	949	167	1,149.4	80
SP3	2	In Situ	21-Aug-15	11.4	400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	336
	3	In Situ	21-Aug-15	8.4	240	--	--	--	--	--	--	--	--	--	--
	4	In Situ	21-Aug-15	11.5	400	--	--	--	--	--	--	--	--	--	--
	5	In Situ	21-Aug-15	7.8	640	--	--	--	--	--	--	--	--	--	--
	6	In Situ	21-Aug-15	7.2	560	--	--	--	--	--	--	--	--	--	--

**TABLE 2**  
**Summary of Soil Sample Field Testing and Laboratory Analytical Results**  
**Bopco L.P.**

**PLU-CVX-JV-BS #023H**

Lab Sample ID	Depth (feet)	Soil Status	Sample Date	PID Reading (ppm)	Field Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	EXT DRO C28-C35 (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
SP4	1	In Situ	21-Aug-15	19.5	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	16
	2	In Situ	21-Aug-15	13.1	160	--	--	--	--	--	--	--	--	--	--
	3	In Situ	21-Aug-15	10.5	80	--	--	--	--	--	--	--	--	--	--
	4	In Situ	21-Aug-15	30.2	80	--	--	--	--	--	--	--	--	--	--
	5	In Situ	21-Aug-15	29.2	80	--	--	--	--	--	--	--	--	--	--
SP5	1	In Situ	21-Aug-15	1,774	160	<0.050	0.493	0.544	5.77	6.81	228	1,740	269	2,237	<16.0
	2	In Situ	21-Aug-15	59.5	80	--	--	--	--	--	--	--	--	--	--
	3	In Situ	21-Aug-15	55.0	160	--	--	--	--	--	--	--	--	--	--
	4	In Situ	21-Aug-15	32.6	160	--	--	--	--	--	--	--	--	--	--
	5	In Situ	21-Aug-15	9.5	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<16.0
SP6	1	Excavated	21-Aug-15	1,850	160	9.73	114	32.9	294	<b>451</b>	7,390	15,900	2,050	<b>25,340</b>	16
	2	In Situ	21-Aug-15	380	160	--	--	--	--	--	--	--	--	--	--
	2	In Situ	24-Jun-16	14.2	120	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<16.0
	3	In Situ	21-Aug-15	34.4	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<16.0
	4	In Situ	21-Aug-15	30.2	160	--	--	--	--	--	--	--	--	--	--
5	In Situ	21-Aug-15	17.5	160	--	--	--	--	--	--	--	--	--	--	
<b>NMOC Recommended Remedial Action Levels</b>				100		10				50				5,000	1,000

-- = Not Analyzed  
**Red** values are in excess of NMOC Recommended Remedial Action Levels  
 Shaded values indicates soil has been excavated

## **ATTACHMENTS**

**ATTACHMENT I**  
**Photographs**



Photograph #1 – Looking across release area



Photograph #2 – Looking across release area



Photograph #3 – Excavated



Photograph #4 – Excavated



Photograph #5 – Backfilled



Photograph #6 – Backfilled

**ATTACHMENT II**  
**Laboratory Analytical Results**

August 31, 2015

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: PLU BS #023H

Enclosed are the results of analyses for samples received by the laboratory on 08/25/15 15:44.

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:**

 Environmental Plus, Inc.  
 Daniel Dominguez  
 P.O. Box 1558  
 Eunice NM, 88231  
 Fax To: (505) 394-2601

Received:	08/25/2015	Sampling Date:	08/21/2015
Reported:	08/31/2015	Sampling Type:	Soil
Project Name:	PLU BS #023H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-L SEC. 2, T25S, R30E		

**Sample ID: SP 1 (SURFACE) (H502254-01)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>2.04</b>	1.00	08/27/2015	ND	2.03	102	2.00	0.367	
<b>Toluene*</b>	<b>22.3</b>	1.00	08/27/2015	ND	1.88	94.2	2.00	1.63	
<b>Ethylbenzene*</b>	<b>7.54</b>	1.00	08/27/2015	ND	1.98	99.0	2.00	1.98	
<b>Total Xylenes*</b>	<b>72.8</b>	3.00	08/27/2015	ND	5.81	96.8	6.00	1.68	
<b>Total BTEX</b>	<b>105</b>	6.00	08/27/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.6 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>5200</b>	16.0	08/27/2015	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>1780</b>	50.0	08/27/2015	ND	188	93.9	200	0.394		
<b>DRO &gt;C10-C28</b>	<b>25000</b>	50.0	08/27/2015	ND	199	99.7	200	2.59		
<b>EXT DRO &gt;C28-C35</b>	<b>4550</b>	50.0	08/27/2015	ND						

Surrogate: 1-Chlorooctane 212 % 47.2-157

Surrogate: 1-Chlorooctadecane 506 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Environmental Plus, Inc.  
 Daniel Dominguez  
 P.O. Box 1558  
 Eunice NM, 88231  
 Fax To: (505) 394-2601

Received:	08/25/2015	Sampling Date:	08/21/2015
Reported:	08/31/2015	Sampling Type:	Soil
Project Name:	PLU BS #023H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-L SEC. 2, T25S, R30E		

**Sample ID: SP 1 (2') (H502254-02)**

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	08/27/2015	ND	2.03	102	2.00	0.367	
Toluene*	<0.050	0.050	08/27/2015	ND	1.88	94.2	2.00	1.63	
Ethylbenzene*	<0.050	0.050	08/27/2015	ND	1.98	99.0	2.00	1.98	
Total Xylenes*	<0.150	0.150	08/27/2015	ND	5.81	96.8	6.00	1.68	
Total BTEX	<0.300	0.300	08/27/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 85.6-137

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>144</b>	16.0	08/26/2015	ND	432	108	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	<10.0	10.0	08/27/2015	ND	188	93.9	200	0.394	
<b>DRO &gt;C10-C28</b>	<b>15.1</b>	10.0	08/27/2015	ND	199	99.7	200	2.59	
<b>EXT DRO &gt;C28-C35</b>	<b>15.4</b>	10.0	08/27/2015	ND					

Surrogate: 1-Chlorooctane 80.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 86.8 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Environmental Plus, Inc.  
 Daniel Dominguez  
 P.O. Box 1558  
 Eunice NM, 88231  
 Fax To: (505) 394-2601

Received:	08/25/2015	Sampling Date:	08/21/2015
Reported:	08/31/2015	Sampling Type:	Soil
Project Name:	PLU BS #023H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-L SEC. 2, T25S, R30E		

**Sample ID: SP 2 (SURFACE) (H502254-03)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.612</b>	0.200	08/27/2015	ND	2.03	102	2.00	0.367	
<b>Toluene*</b>	<b>6.00</b>	0.200	08/27/2015	ND	1.88	94.2	2.00	1.63	
<b>Ethylbenzene*</b>	<b>2.15</b>	0.200	08/27/2015	ND	1.98	99.0	2.00	1.98	
<b>Total Xylenes*</b>	<b>21.6</b>	0.600	08/27/2015	ND	5.81	96.8	6.00	1.68	
<b>Total BTEX</b>	<b>30.4</b>	1.20	08/27/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.2 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>10400</b>	16.0	08/27/2015	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>427</b>	50.0	08/27/2015	ND	188	93.9	200	0.394		
<b>DRO &gt;C10-C28</b>	<b>17800</b>	50.0	08/27/2015	ND	199	99.7	200	2.59		
<b>EXT DRO &gt;C28-C35</b>	<b>3760</b>	50.0	08/27/2015	ND						

Surrogate: 1-Chlorooctane 120 % 47.2-157

Surrogate: 1-Chlorooctadecane 415 % 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.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Environmental Plus, Inc.  
 Daniel Dominguez  
 P.O. Box 1558  
 Eunice NM, 88231  
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Received:	08/25/2015	Sampling Date:	08/21/2015
Reported:	08/31/2015	Sampling Type:	Soil
Project Name:	PLU BS #023H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-L SEC. 2, T25S, R30E		

**Sample ID: SP 2 (2') (H502254-04)**

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	08/28/2015	ND	2.00	100	2.00	0.285		
Toluene*	<0.050	0.050	08/28/2015	ND	1.87	93.3	2.00	0.486		
Ethylbenzene*	<0.050	0.050	08/28/2015	ND	1.96	97.8	2.00	2.01		
Total Xylenes*	<0.150	0.150	08/28/2015	ND	5.71	95.1	6.00	1.88		
Total BTEX	<0.300	0.300	08/28/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>160</b>	16.0	08/27/2015	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/27/2015	ND	188	93.9	200	0.394		
<b>DRO &gt;C10-C28</b>	<b>43.4</b>	10.0	08/27/2015	ND	199	99.7	200	2.59		
<b>EXT DRO &gt;C28-C35</b>	<b>20.0</b>	10.0	08/27/2015	ND						

Surrogate: 1-Chlorooctane 83.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 85.2 % 52.1-176

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Environmental Plus, Inc.  
 Daniel Dominguez  
 P.O. Box 1558  
 Eunice NM, 88231  
 Fax To: (505) 394-2601

Received:	08/25/2015	Sampling Date:	08/21/2015
Reported:	08/31/2015	Sampling Type:	Soil
Project Name:	PLU BS #023H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-L SEC. 2, T25S, R30E		

**Sample ID: SP 3 (1') (H502254-05)**

BTEX 8021B		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2015	ND	2.00	100	2.00	0.285	
Toluene*	<0.050	0.050	08/28/2015	ND	1.87	93.3	2.00	0.486	
<b>Ethylbenzene*</b>	<b>0.060</b>	0.050	08/28/2015	ND	1.96	97.8	2.00	2.01	
<b>Total Xylenes*</b>	<b>0.767</b>	0.150	08/28/2015	ND	5.71	95.1	6.00	1.88	
<b>Total BTEX</b>	<b>0.827</b>	0.300	08/28/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 84.4 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	08/27/2015	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>33.4</b>	10.0	08/27/2015	ND	185	92.3	200	0.349	
<b>DRO &gt;C10-C28</b>	<b>949</b>	10.0	08/27/2015	ND	191	95.5	200	0.207	
<b>EXT DRO &gt;C28-C35</b>	<b>167</b>	10.0	08/27/2015	ND					

Surrogate: 1-Chlorooctane 84.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 83.9 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Environmental Plus, Inc.  
 Daniel Dominguez  
 P.O. Box 1558  
 Eunice NM, 88231  
 Fax To: (505) 394-2601

Received:	08/25/2015	Sampling Date:	08/21/2015
Reported:	08/31/2015	Sampling Type:	Soil
Project Name:	PLU BS #023H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-L SEC. 2, T25S, R30E		

**Sample ID: SP 3 (2') (H502254-06)**

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	08/28/2015	ND	2.00	100	2.00	0.285	
Toluene*	<0.050	0.050	08/28/2015	ND	1.87	93.3	2.00	0.486	
Ethylbenzene*	<0.050	0.050	08/28/2015	ND	1.96	97.8	2.00	2.01	
Total Xylenes*	<0.150	0.150	08/28/2015	ND	5.71	95.1	6.00	1.88	
Total BTEX	<0.300	0.300	08/28/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>336</b>	16.0	08/27/2015	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/27/2015	ND	185	92.3	200	0.349	
DRO >C10-C28	<10.0	10.0	08/27/2015	ND	191	95.5	200	0.207	
EXT DRO >C28-C35	<10.0	10.0	08/27/2015	ND					

Surrogate: 1-Chlorooctane 84.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 80.5 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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 Daniel Dominguez  
 P.O. Box 1558  
 Eunice NM, 88231  
 Fax To: (505) 394-2601

Received:	08/25/2015	Sampling Date:	08/21/2015
Reported:	08/31/2015	Sampling Type:	Soil
Project Name:	PLU BS #023H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-L SEC. 2, T25S, R30E		

**Sample ID: SP 4 (1') (H502254-07)**

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	08/28/2015	ND	2.00	100	2.00	0.285	
Toluene*	<0.050	0.050	08/28/2015	ND	1.87	93.3	2.00	0.486	
Ethylbenzene*	<0.050	0.050	08/28/2015	ND	1.96	97.8	2.00	2.01	
Total Xylenes*	<0.150	0.150	08/28/2015	ND	5.71	95.1	6.00	1.88	
Total BTEX	<0.300	0.300	08/28/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	08/27/2015	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/27/2015	ND	185	92.3	200	0.349	
DRO >C10-C28	<10.0	10.0	08/27/2015	ND	191	95.5	200	0.207	
EXT DRO >C28-C35	<10.0	10.0	08/27/2015	ND					

Surrogate: 1-Chlorooctane 74.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 67.9 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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 Fax To: (505) 394-2601

Received:	08/25/2015	Sampling Date:	08/21/2015
Reported:	08/31/2015	Sampling Type:	Soil
Project Name:	PLU BS #023H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-L SEC. 2, T25S, R30E		

**Sample ID: SP 5 (1') (H502254-08)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/28/2015	ND	2.00	100	2.00	0.285	
<b>Toluene*</b>	<b>0.493</b>	0.100	08/28/2015	ND	1.87	93.3	2.00	0.486	
<b>Ethylbenzene*</b>	<b>0.544</b>	0.100	08/28/2015	ND	1.96	97.8	2.00	2.01	
<b>Total Xylenes*</b>	<b>5.77</b>	0.300	08/28/2015	ND	5.71	95.1	6.00	1.88	
<b>Total BTEX</b>	<b>6.81</b>	0.600	08/28/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.5 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/27/2015	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>228</b>	10.0	08/27/2015	ND	185	92.3	200	0.349	
<b>DRO &gt;C10-C28</b>	<b>1740</b>	10.0	08/27/2015	ND	191	95.5	200	0.207	
<b>EXT DRO &gt;C28-C35</b>	<b>269</b>	10.0	08/27/2015	ND					

Surrogate: 1-Chlorooctane 104 % 47.2-157

Surrogate: 1-Chlorooctadecane 94.6 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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 Daniel Dominguez  
 P.O. Box 1558  
 Eunice NM, 88231  
 Fax To: (505) 394-2601

Received:	08/25/2015	Sampling Date:	08/21/2015
Reported:	08/31/2015	Sampling Type:	Soil
Project Name:	PLU BS #023H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-L SEC. 2, T25S, R30E		

**Sample ID: SP 5 (5') (H502254-09)**

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	08/28/2015	ND	2.00	100	2.00	0.285	
Toluene*	<0.050	0.050	08/28/2015	ND	1.87	93.3	2.00	0.486	
Ethylbenzene*	<0.050	0.050	08/28/2015	ND	1.96	97.8	2.00	2.01	
Total Xylenes*	<0.150	0.150	08/28/2015	ND	5.71	95.1	6.00	1.88	
Total BTEX	<0.300	0.300	08/28/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/27/2015	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/27/2015	ND	185	92.3	200	0.349	
DRO >C10-C28	<10.0	10.0	08/27/2015	ND	191	95.5	200	0.207	
EXT DRO >C28-C35	<10.0	10.0	08/27/2015	ND					

Surrogate: 1-Chlorooctane 81.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 79.7 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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 Fax To: (505) 394-2601

Received:	08/25/2015	Sampling Date:	08/21/2015
Reported:	08/31/2015	Sampling Type:	Soil
Project Name:	PLU BS #023H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-L SEC. 2, T25S, R30E		

**Sample ID: SP 6 (1') (H502254-10)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>9.73</b>	5.00	08/28/2015	ND	2.00	100	2.00	0.285	
<b>Toluene*</b>	<b>114</b>	5.00	08/28/2015	ND	1.87	93.3	2.00	0.486	
<b>Ethylbenzene*</b>	<b>32.9</b>	5.00	08/28/2015	ND	1.96	97.8	2.00	2.01	
<b>Total Xylenes*</b>	<b>294</b>	15.0	08/28/2015	ND	5.71	95.1	6.00	1.88	
<b>Total BTEX</b>	<b>451</b>	30.0	08/28/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	08/27/2015	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>7390</b>	50.0	08/27/2015	ND	185	92.3	200	0.349		
<b>DRO &gt;C10-C28</b>	<b>15900</b>	50.0	08/27/2015	ND	191	95.5	200	0.207		
<b>EXT DRO &gt;C28-C35</b>	<b>2050</b>	50.0	08/27/2015	ND						

Surrogate: 1-Chlorooctane 222 % 47.2-157

Surrogate: 1-Chlorooctadecane 219 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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 Eunice NM, 88231  
 Fax To: (505) 394-2601

Received:	08/25/2015	Sampling Date:	08/21/2015
Reported:	08/31/2015	Sampling Type:	Soil
Project Name:	PLU BS #023H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-L SEC. 2, T25S, R30E		

**Sample ID: SP 6 (3') (H502254-11)**

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	08/28/2015	ND	2.00	100	2.00	0.285	
Toluene*	<0.050	0.050	08/28/2015	ND	1.87	93.3	2.00	0.486	
Ethylbenzene*	<0.050	0.050	08/28/2015	ND	1.96	97.8	2.00	2.01	
Total Xylenes*	<0.150	0.150	08/28/2015	ND	5.71	95.1	6.00	1.88	
Total BTEX	<0.300	0.300	08/28/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/27/2015	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/27/2015	ND	185	92.3	200	0.349	
DRO >C10-C28	<10.0	10.0	08/27/2015	ND	191	95.5	200	0.207	
EXT DRO >C28-C35	<10.0	10.0	08/27/2015	ND					

Surrogate: 1-Chlorooctane 76.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 84.6 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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



# Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231  
 (575) 394-3481 FAX: (575) 394-2601

P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form  
 LAB Cardinal

Company Name: Environmental Plus, Inc.  
 EPI Project Manager: Daniel Dominguez  
 Mailing Address: P.O. BOX 1558  
 City, State, Zip: Eunice New Mexico 88231  
 EPI Phone#/Fax#: 575-394-3481 / 575-394-2601  
 Client Company: BOPCO  
 Facility Name: PLU BS #023H  
 Location: UL-L Sec. 2, T25S, R30E  
 AFE#:   
 EPI Sampler Name: David Robinson

Bill To  
 BOPCO, L.P.  
 Attn: Brad Blevins  
 522 W. Mermod, Suite 704  
 Carlsbad, NM 88220

ANALYSIS REQUEST  
 BTEX 8021B  
 TPH 8015M  
 CHLORIDES (Cl)  
 SULFATES (SO<sub>4</sub>)  
 pH  
 TCLP  
 OTHER >>>  
 PAH

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	SAMPLING	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO <sub>4</sub> )	pH	TCLP	OTHER >>>	PAH
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE												
H502154			1			X					X	21-Aug-15	9:19	X	X	X						
			1			X					X	21-Aug-15	9:21	X	X	X						
			1			X					X	21-Aug-15	10:10	X	X	X						
			1			X					X	21-Aug-15	10:12	X	X	X						
			1			X					X	21-Aug-15	11:30	X	X	X						
			1			X					X	21-Aug-15	11:31	X	X	X						
			1			X					X	21-Aug-15	12:15	X	X	X						
			1			X					X	21-Aug-15	13:15	X	X	X						
			1			X					X	21-Aug-15	13:19	X	X	X						
			1			X					X	21-Aug-15	14:05	X	X	X						

Relinquished by: *David Robinson*  
 Date: 8/25/15  
 Time: 6:00 am  
 Received By: *Brad Blevins*  
 Date: 8/25/15  
 Time: 3:44 pm  
 Sample Cool & Intact: Yes  
 Delivered by: *0.82*

Checked By: *Brad Blevins*  
 E-mail results to: ddominguezepi@gmail.com & bblevins@basspet.com  
 NOTES: & lasavoie@basspet.com

#54



June 29, 2016

Daniel Dominguez  
Environmental Plus, Inc.  
P.O. Box 1558  
Eunice, NM 88231

RE: PLU BS #023H

Enclosed are the results of analyses for samples received by the laboratory on 06/27/16 12:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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:**

 Environmental Plus, Inc.  
 Daniel Dominguez  
 P.O. Box 1558  
 Eunice NM, 88231  
 Fax To: (505) 394-2601

Received:	06/27/2016	Sampling Date:	06/24/2016
Reported:	06/29/2016	Sampling Type:	Soil
Project Name:	PLU BS #023H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-L SEC. 2, T25S, R30E		

**Sample ID: SP 1 (2') (H601400-01)**

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	06/29/2016	ND	1.67	83.3	2.00	0.293	
Toluene*	<0.050	0.050	06/29/2016	ND	1.57	78.7	2.00	0.315	
Ethylbenzene*	<0.050	0.050	06/29/2016	ND	1.49	74.6	2.00	0.127	
Total Xylenes*	<0.150	0.150	06/29/2016	ND	4.59	76.5	6.00	0.188	
Total BTEX	<0.300	0.300	06/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/29/2016	ND	400	100	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	06/28/2016	ND	188	94.0	200	1.45	
DRO >C10-C28	<10.0	10.0	06/28/2016	ND	187	93.4	200	1.70	
EXT DRO >C28-C35	<10.0	10.0	06/28/2016	ND					

Surrogate: 1-Chlorooctane 79.6 % 35-147

Surrogate: 1-Chlorooctadecane 83.7 % 28-171

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

**Analytical Results For:**

 Environmental Plus, Inc.  
 Daniel Dominguez  
 P.O. Box 1558  
 Eunice NM, 88231  
 Fax To: (505) 394-2601

Received:	06/27/2016	Sampling Date:	06/24/2016
Reported:	06/29/2016	Sampling Type:	Soil
Project Name:	PLU BS #023H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-L SEC. 2, T25S, R30E		

**Sample ID: SP 6 (2') (H601400-02)**

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	06/29/2016	ND	1.67	83.3	2.00	0.293	
Toluene*	<0.050	0.050	06/29/2016	ND	1.57	78.7	2.00	0.315	
Ethylbenzene*	<0.050	0.050	06/29/2016	ND	1.49	74.6	2.00	0.127	
Total Xylenes*	<0.150	0.150	06/29/2016	ND	4.59	76.5	6.00	0.188	
Total BTEX	<0.300	0.300	06/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/29/2016	ND	400	100	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	06/28/2016	ND	188	94.0	200	1.45	
DRO >C10-C28	<10.0	10.0	06/28/2016	ND	187	93.4	200	1.70	
EXT DRO >C28-C35	<10.0	10.0	06/28/2016	ND					

Surrogate: 1-Chlorooctane 71.4 % 35-147

Surrogate: 1-Chlorooctadecane 76.4 % 28-171

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

**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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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.



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Celey D. Keene, Lab Director/Quality Manager



**ATTACHMENT III**  
**Correspondence**

**From:** Patterson, Heather, EMNRD  
**To:** ["Blevins, Bradley"](#)  
**Cc:** [Bratcher, Mike, EMNRD](#)  
**Subject:** RE: PLU CVX JV BS 023H (2RP-3192)  
**Date:** Monday, May 09, 2016 7:14:00 AM

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**RE: BOPCO \* PLU CVX JV BS #23H \* 30-015-41392 \* 2RP-3192**

Bradley,

Your work plan 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  
Office (575)748-1283 ext.101  
Cell (575)703-0228

---

**From:** Blevins, Bradley [mailto:[BBlevins@BassPet.Com](mailto:BBlevins@BassPet.Com)]  
**Sent:** Tuesday, May 03, 2016 10:29 AM  
**To:** Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD  
**Cc:** Blevins, Bradley  
**Subject:** PLU CVX JV BS 023H (2RP-3192)

Mike/ Heather

Per our meeting and discussion on April 29<sup>th</sup> 2016 BOPCO has conducted an initial scrape of the release area (SP1-6) and has proposed to remove an additional 1 foot from SP6. We will collect additional samples from the following, SP1-2 and 6 to confirm TPH concentrations. Once field work is complete a final C-141 and closure report will be submitted. Thanks

Brad Blevins  
BOPCO, LP  
522 W. Mermod, Suite 704  
Carlsbad, NM 88220  
Office-575-887-7329  
Cell-1-432-214-3704  
[bblevins@basspet.com](mailto:bblevins@basspet.com)

**ATTACHMENT IV**  
**Copy of Initial NMOCD Form C-141**  
**Final C-141**

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

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

AUG 7 2015

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**

**NAB1529226346**

**OPERATOR**

Initial Report  Final Report

Name of Company: BOPCO, L.P. <b>2100737</b>	Contact: Bradley Blevins
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: PLU CVX JV BS 023H	Facility Type: Exploration and Production

Surface Owner: State	Mineral Owner:	API No. 3001541392
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	2	25S	30E	50		1980		Eddy

Latitude: 32.152604 Longitude: 103.853799

**NATURE OF RELEASE**

Type of Release: Crude Oil	Volume of Release: 198 barrels	Volume Recovered: 150 barrels
Source of Release: Frac tank overflowed	Date and Hour of Occurrence: 8-4-15	Date and Hour of Discovery: 8-4-15 @ 7:47am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher - Jim Amos	
By Whom? Bradley Blevins	Date and Hour: 8-4-15 @ 11:50am	
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.\*  
Well unloaded after well work was conducted causing the onsite frac tank to overflow to the ground surface.

Describe Area Affected and Cleanup Action Taken.\*  
Vacuum trucks were called to the location and recovered 150 barrels of oil

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>Bradley Blevins</i>	Approved by Environmental Specialist: <i>[Signature]</i>	
Printed Name: Bradley Blevins	Approval Date: <b>8/10/15</b>	Expiration Date: <b>N/A</b>
Title: Assistant Remediation Foreman	Conditions of Approval: <input checked="" type="checkbox"/> Remediation per O.C.D. Rules & Guidelines <input type="checkbox"/> Other	
E-mail Address: bblevins@basspet.com	<b>RECEIVED</b>	
Date: <b>8-7-2015</b> Phone: 432-214-3704	<b>RECEIVED</b>	

\* Attach Additional Sheets If Necessary

**LATER THAN: 8/11/15**

**2RP-3192**

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

Form C-141  
Revised August 8, 2011

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company: BOPCO, L.P.	Contact: Bradley Blevins
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: PLU CVX JV BS #023H; 2RP#3192	Facility Type: Exploration and Production
Surface Owner: State	Mineral Owner:
API No. 30-015-41392	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	2	25S	30E	50	South	1980	West	Eddy

Latitude: N 32.152604° Longitude: W 103.853799°

**NATURE OF RELEASE**

Type of Release: Oil	Volume of Release: 198 barrels	Volume Recovered: 150 barrels oil
Source of Release: Frac tank overflowed	Date and Hour of Occurrence: 8/4/15	Date and Hour of Discovery: 8/4/15 @ 7:47 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher - Jim Amos	
By Whom? Bradley Blevins	Date and Hour: 8/4/15 @ 11:50 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse: Not Applicable	
If a Watercourse was Impacted, Describe Fully.* Not Applicable		
Describe Cause of Problem and Remedial Action Taken.* Well unloaded after well work was conducted causing the onsite frac tank to overflow to the ground surface.		
Describe Area Affected and Cleanup Action Taken.* Vacuum trucks were called to the location and recovered 150 barrels of oil. Samples were collected, and based on laboratory analytical data and NMOCD approval: the contaminated soil was excavated and hauled to a state approved disposal facility and the excavation backfilled with clean soil.		
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: Bradley Blevins	Approved by Environmental Specialist:	
Title: Assistant Remediation Foreman	Approval Date:	Expiration Date:
E-mail Address: bblevins@basspet.com	Conditions of Approval:	
Date: 7-26-16 Phone: 432-214-3704	Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary