

# ***ENVIRONMENTAL PLUS INC***

2100 AVE O  
PO BOX 1558  
EUNICE, NM 88231  
[ddominguezepi@gmail.com](mailto:ddominguezepi@gmail.com)  
Office: (575)394-3481 Fax: (575)394-2601



## **CLOSURE REPORT**

**BOPCO, LP**  
**POKER LAKE UNIT #420H**  
**Eddy County, New Mexico**  
**Unit Letter "P", Section 28, Township 25 South, Range 31 East**  
**Latitude 32.096093 North, Longitude 103.778400 West**  
**NMOCD Reference #2RP-2250**  
**NMOCD Reference #2RP-2487**

Prepared For:

**BOPCO, LP**  
522 W. Mermod, Suite 704  
Carlsbad, New Mexico 88220

Prepared By:

Environmental Plus Inc.  
2100 Ave O  
Eunice, NM 88231

**October 2014**

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Daniel Dominguez  
Project Manager



29 October 2014

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

RE: Final Closure Report  
Bopco – Poker Lake Unit #420H  
UL-P, Section 28, Township 25 South, Range 31 East  
Eddy County, New Mexico  
NMOCD Reference #'s 2RP 2250 & 2RP 2487

Mr. Bratcher:

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

**Background Information:**

The first release was the result of the gasket on the heater-treater fire tube failing. The production well was shut in and the gasket was replaced. The spill affected approximately 3,200 sq. ft. of caliche well pad around the process equipment earthen containment and approximately 4,000 sq. ft. of pasture area was lightly misted. The process equipment and vegetation were washed down with soap and water the day of the release. All of the free standing fluid was picked up with a vacuum truck. The second release it appeared that a cow kicked the valve handle on the ½" valve to the open position. The valve was shut and handle removed. All of the fluid soaked into the ground. The spill affected approximately 15,400 sq. ft. around the process equipment, earthen containment and well pad area. The second release impacted the previously reported first release. The areas were simultaneously remediated.

**Remediation Activities:**

EPI personnel mobilized on the site on September 17, 2014 to collect soil samples via sample trenches to determine the vertical extent of contamination. A total of twenty-six (26) soil samples were collected from eight (8) sample locations and sent to Cardinal Labs in Hobbs, New Mexico, for testing. Laboratory analytical results indicate the excavation is void of Benzene, BTEX, and TPH concentrations in excess of NMOCD Recommended Remedial Action Levels (RRALs) of 10 mg/Kg, 50 mg/Kg, and 5,000 mg/Kg, respectively. Laboratory analytical results indicate the excavation contains concentrations of Chlorides in excess of NMOCD RRALs of 1,000 mg/Kg, to a depth of two (2) feet in the areas of SP1, SP4, SP5, SP6 and SP8; to a depth of five (5) feet in the area of SP7, and surface level in the area of SP3. Chloride concentrations did not exceed NMOCD RRALs in the area of SP2 (reference *Figure 3* and *Table 2*).

From September 23 – October 21, 2014 approximately 1,580 cubic yards of contaminated material were excavated and transported to Lea Land for disposal. The release area was

excavated approximately two (2) feet bgs in the areas of SP2, SP3, SP4, SP7, and SP8; approximately three (3) feet bgs in the areas of SP1, SP5, and SP6. On October 14, 2014 a 20 mil polyethylene liner was installed over the area of SP7, mitigating the Chloride concentrations still in excess of NMOCD RRALs. The liner was placed between two (2) one (1) foot cushions of clean soil, free of deleterious material or large clumps.

**Closure Activities:**

From October 13 – 21, 2014 the excavation was backfilled with approximately 1,024 cubic yards of caliche, 538 cubic yards of topsoil, and 148 cubic yards of chat. The entire disturbed area was then contoured to blend with existing pad to protect 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,

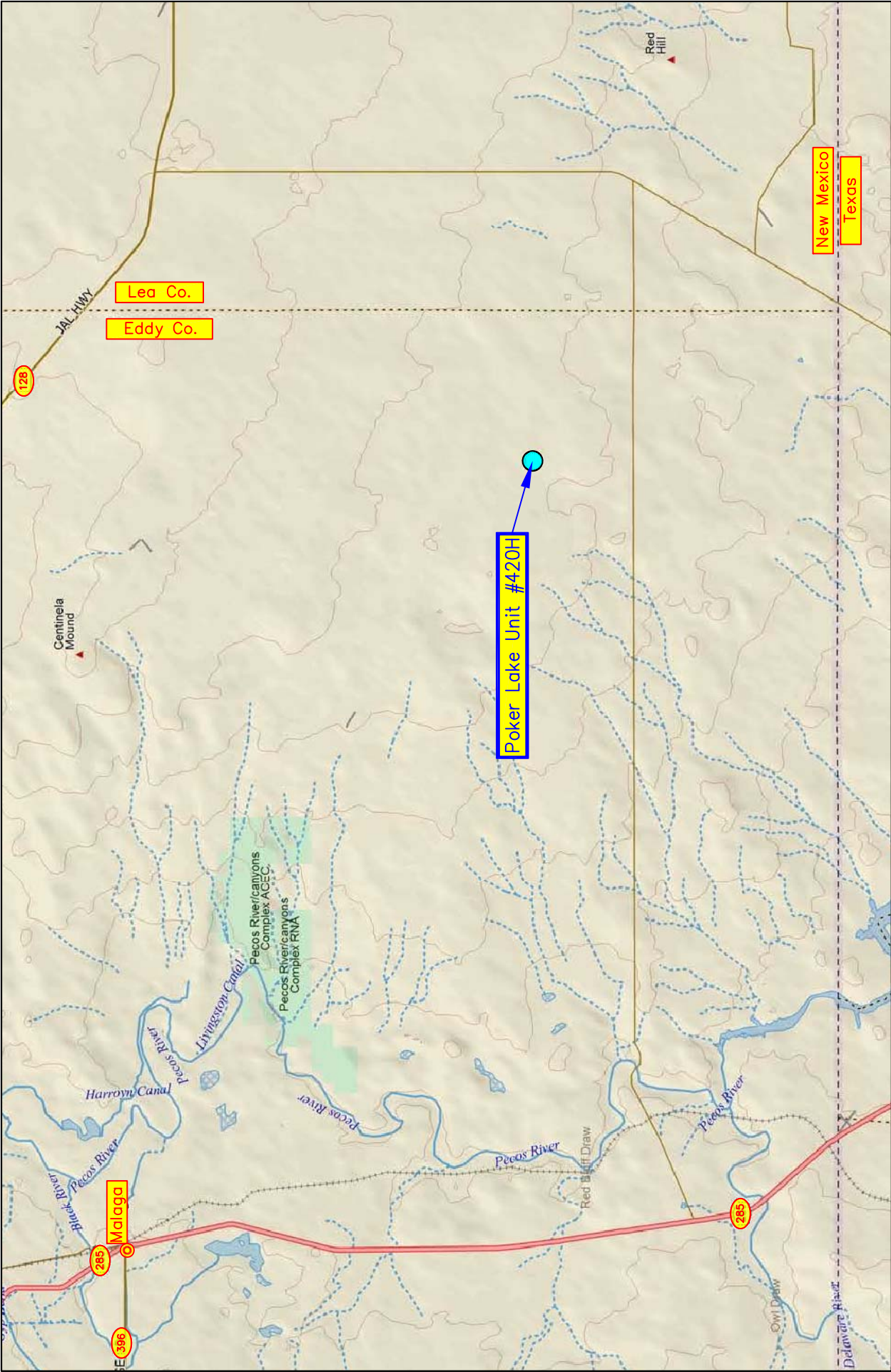
ENVIRONMENTAL PLUS, INC.

Daniel Dominguez  
Environmental Consultant

cc: Brad Blevins, EHS Asst. Remediation Foreman – Bopco, L.P.  
Tony Savoie, Remediation Foreman – Bopco, L.P. 1(432)556-8730  
File

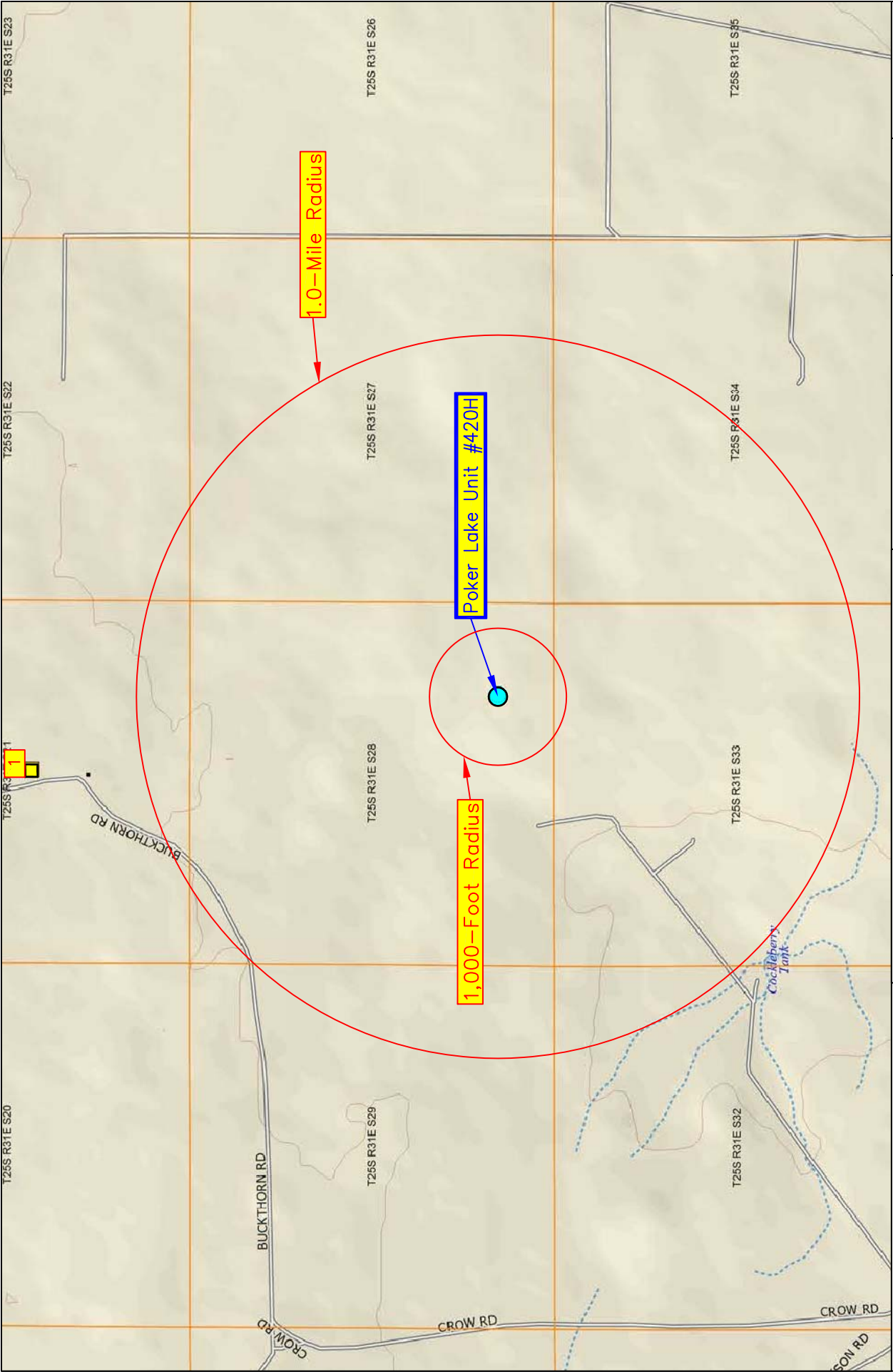
Encl.: Figure 1 – Area Map  
Figure 2 – Site Location Map  
Figure 3 – Site/Sample Map  
Table 1 – Well Data  
Table 2 – Summary of Soil Sample Field Testing and Laboratory Analytical Results  
Attachment I – Photographs  
Attachment II – Laboratory Analytical Results  
Attachment III – Copy of Initial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

## **FIGURES**



<b>Figure 1</b> Area Map Bopco, L.P. Poker Lake Unit #420H	Eddy County, New Mexico SE 1/4 of SE 1/4, Sec. 28, T25S, R31E N 32° 5' 45.94" W 103° 46' 42.24" Elevation: 3,352 feet amsl		DWG By: D Dominguez September 2014	REVISED:	 0 3 6 Miles	SHEET 1 of 1





<p>Figure 2 Site Location Map Bopco, L.P. Poker Lake Unit #420H</p>	<p>Eddy County, New Mexico SE 1/4 of SE 1/4, Sec. 28, T25S, R31E N 32° 5' 45.94" W 103° 46' 42.24" Elevation: 3,352 feet amsl</p>	<p>DWG By: D Dominguez September 2014</p> <p>REVISED:</p> <p>4,000 2,000 0</p> <p>SHEET 1 of 1</p> <p>Feet</p>
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<p>LEGEND</p> <p>XSP1      Sample Point</p>		REVISED:		
		DWG By: D Dominguez September 2014	SHEET 1 of 1	
				
<p>Figure 3 Site/Sample Map Bopco, L.P. Poker Lake Unit #420H</p>		<p>Eddy County, New Mexico SE 1/4 of SE 1/4, Sec. 28, T25S, R31E N 32° 5' 45.94" W 103° 46' 42.24" Elevation: 3,352 feet amsl</p>		

## **TABLES**



**TABLE 1**

**Well Data**

**Bopco - Poker Lake Unit #420H**

Ref #	Well Number	Use	Diversion <sup>A</sup>	Owner	q64	q16	q4	Sec	Twsp	Rng	Easting	Northing	Date Measured	Surface Elevation <sup>B</sup>	Depth to Water
1	C 02250	STK	3	Buck Jackson Trust	3	1	4	21	25S	31E	614912	3553620	31-Dec-41	3,372	(ft bgs) 390

\* = Data obtained from the New Mexico Office of the State Engineer Website ([http://iwaters.ose.state.nm.us:7001/iWATERS/wr\\_RegisServlet1](http://iwaters.ose.state.nm.us:7001/iWATERS/wr_RegisServlet1)) and USGS Database

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

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

STK = 72-12-1 Livestock watering

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.**  
**Poker Lake Unit #420H**

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	17-Sep-14	2.7	2,080	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	1,880
	1	Excavated	17-Sep-14	3.0	1,040	--	--	--	--	--	--	--	--	--	--
	2	Excavated	17-Sep-14	3.2	>4,000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	11,700
	3	Excavated	17-Sep-14	1.7	480	--	--	--	--	--	--	--	--	--	--
	4	In Situ	17-Sep-14	1.9	480	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	384
	5	In Situ	17-Sep-14	1.4	2,800	--	--	--	--	--	--	--	--	--	--
	6	In Situ	17-Sep-14	4.0	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	160
SP2	Surface	Excavated	17-Sep-14	2.4	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	48
	1	Excavated	17-Sep-14	3.6	120	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	32
	2	Excavated	17-Sep-14	1.0	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	32
SP3	Surface	Excavated	17-Sep-14	77.1	2,480	<0.050	<0.050	<0.050	<0.150	<0.300	58.7	3,230	625	3,914	2,800
	1	Excavated	17-Sep-14	2.8	1,400	--	--	--	--	--	--	--	--	--	--
	2	Excavated	17-Sep-14	4.2	200	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17	<10.0	17	144
SP4	Surface	Excavated	17-Sep-14	547	240	<0.050	<0.050	0.2080	1.29	1.50	208	3,460	793	4,461	288
	1	Excavated	17-Sep-14	120	400	--	--	--	--	--	--	--	--	--	--
	2	Excavated	17-Sep-14	133	1,000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	206	62	268	1,140
	3	In Situ	17-Sep-14	6.1	4,000	--	--	--	--	--	--	--	--	--	--
	4	In Situ	17-Sep-14	2.7	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	24	<10.0	23.8	48

**TABLE 2**  
**Summary of Soil Sample Field Testing and Laboratory Analytical Results**  
**Bopco L.P.**  
**Poker Lake Unit #420H**

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)
SP5	Surface	Excavated	17-Sep-14	4.4	2,080	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	2,040
	1	Excavated	17-Sep-14	3.8	>4,000	--	--	--	--	--	--	--	--	--	--
	2	Excavated	17-Sep-14	5.5	>4,000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	9,200
	3	Excavated	17-Sep-14	4.9	>4,000	--	--	--	--	--	--	--	--	--	--
	4	In Situ	17-Sep-14	4.4	400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	1,070
	5	In Situ	17-Sep-14	4.4	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	112
SP6	Surface	Excavated	17-Sep-14	6.5	4,000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	4,720
	1	Excavated	17-Sep-14	5.6	2,480	--	--	--	--	--	--	--	--	--	--
	2	Excavated	17-Sep-14	6.2	3,200	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	2,840
	3	Excavated	17-Sep-14	6.3	320	--	--	--	--	--	--	--	--	--	--
	4	In Situ	17-Sep-14	5.2	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	96
	5	In Situ	17-Sep-14	4.5	160	--	--	--	--	--	--	--	--	--	--
SP7	Surface	Excavated	17-Sep-14	4.7	3,400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	1,490
	1	Excavated	17-Sep-14	4.8	1,200	--	--	--	--	--	--	--	--	--	--
	2	Excavated	17-Sep-14	5.5	1,200	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	768
	3	In Situ	17-Sep-14	3.3	400	--	--	--	--	--	--	--	--	--	--
	4	In Situ	17-Sep-14	4.9	1,440	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	3,200
	5	In Situ	17-Sep-14	4.2	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	1,100

**TABLE 2**  
**Summary of Soil Sample Field Testing and Laboratory Analytical Results**  
**Bopco L.P.**  
**Poker Lake Unit #420H**

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)
SP8	Surface	Excavated	17-Sep-14	5.5	720	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	448
	1	Excavated	17-Sep-14	5.7	240	--	--	--	--	--	--	--	--	--	--
	2	Excavated	17-Sep-14	5.3	2,800	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<b>2,080</b>
	3	In Situ	17-Sep-14	5.3	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	64
NMOCD Recommended Remedial Action Levels				100		10				50				5,000	1,000

-- = Not Analyzed

**Bold** values are in excess of NMOCD Recommended Remedial Action Levels

Shaded values indicates soil has been excavated



## **ATTACHMENTS**

**ATTACHMENT I**  
**Photographs**



Photograph #1 – Lease sign



Photograph #2 – Northern view across release area



Photograph #3 – Looking easterly across release area



Photograph #4 – Looking easterly across release area





Photograph #5 – North-west view across excavation



Photograph #6 – Eastern view across excavation



Photograph #7 – South-eastern view across excavation



Photograph #8 – Looking east across excavation





Photograph #9 – Installation of liner



Photograph #10 – Cushion material over liner



Photograph #11 – Backfilled area



Photograph #12 – Backfilled area





Photograph #13 – Backfilled area



Photograph #14 – Backfilled area

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



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

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September 24, 2014

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: PLU #420H

Enclosed are the results of analyses for samples received by the laboratory on 09/18/14 15:24.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

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: 09/18/2014  
Reported: 09/24/2014  
Project Name: PLU #420H  
Project Number: BOPCO  
Project Location: UL-P SEC. 28, T25S, R31E

Sampling Date: 09/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 (SURFACE) (H402892-01)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2014	ND	1.81	90.3	2.00	0.512	
Toluene*	<0.050	0.050	09/22/2014	ND	1.68	83.8	2.00	1.20	
Ethylbenzene*	<0.050	0.050	09/22/2014	ND	1.56	78.1	2.00	2.19	
Total Xylenes*	<0.150	0.150	09/22/2014	ND	4.64	77.3	6.00	2.29	
Total BTX	<0.300	0.300	09/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	1880	16.0	09/19/2014	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
GRO C6-C10	<10.0	10.0	09/19/2014	ND	198	99.0	200	1.15	
DRO >C10-C28	<10.0	10.0	09/19/2014	ND	189	94.4	200	9.12	
EXT DRO >C28-C35	<10.0	10.0	09/19/2014	ND					

Surrogate: 1-Chlorooctane 81.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.7 % 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



**Analytical Results For:**

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

Received: 09/18/2014  
Reported: 09/24/2014  
Project Name: PLU #420H  
Project Number: BOPCO  
Project Location: UL-P SEC. 28, T25S, R31E

Sampling Date: 09/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 (2') (H402892-02)**

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	09/22/2014	ND	1.81	90.3	2.00	0.512	
Toluene*	<0.050	0.050	09/22/2014	ND	1.68	83.8	2.00	1.20	
Ethylbenzene*	<0.050	0.050	09/22/2014	ND	1.56	78.1	2.00	2.19	
Total Xylenes*	<0.150	0.150	09/22/2014	ND	4.64	77.3	6.00	2.29	
Total BTEX	<0.300	0.300	09/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	11700	16.0	09/19/2014	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
GRO C6-C10	<10.0	10.0	09/19/2014	ND	198	99.0	200	1.15	
DRO >C10-C28	<10.0	10.0	09/19/2014	ND	189	94.4	200	9.12	
EXT DRO >C28-C35	<10.0	10.0	09/19/2014	ND					

Surrogate: 1-Chlorooctane 85.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.1 % 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

**Analytical Results For:**

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

Received: 09/18/2014  
Reported: 09/24/2014  
Project Name: PLU #420H  
Project Number: BOPCO  
Project Location: UL-P SEC. 28, T25S, R31E

Sampling Date: 09/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 (4') (H402892-03)**

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	09/22/2014	ND	1.81	90.3	2.00	0.512	
Toluene*	<0.050	0.050	09/22/2014	ND	1.68	83.8	2.00	1.20	
Ethylbenzene*	<0.050	0.050	09/22/2014	ND	1.56	78.1	2.00	2.19	
Total Xylenes*	<0.150	0.150	09/22/2014	ND	4.64	77.3	6.00	2.29	
Total BTX	<0.300	0.300	09/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	09/19/2014	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
GRO C6-C10	<10.0	10.0	09/19/2014	ND	198	99.0	200	1.15	
DRO >C10-C28	<10.0	10.0	09/19/2014	ND	189	94.4	200	9.12	
EXT DRO >C28-C35	<10.0	10.0	09/19/2014	ND					

Surrogate: 1-Chlorooctane 85.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.7 % 63.6-154

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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: 09/18/2014  
Reported: 09/24/2014  
Project Name: PLU #420H  
Project Number: BOPCO  
Project Location: UL-P SEC. 28, T25S, R31E

Sampling Date: 09/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 (6') (H402892-04)**

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	09/22/2014	ND	1.81	90.3	2.00	0.512	
Toluene*	<0.050	0.050	09/22/2014	ND	1.68	83.8	2.00	1.20	
Ethylbenzene*	<0.050	0.050	09/22/2014	ND	1.56	78.1	2.00	2.19	
Total Xylenes*	<0.150	0.150	09/22/2014	ND	4.64	77.3	6.00	2.29	
Total BTX	<0.300	0.300	09/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/19/2014	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
GRO C6-C10	<10.0	10.0	09/19/2014	ND	198	99.0	200	1.15	
DRO >C10-C28	<10.0	10.0	09/19/2014	ND	189	94.4	200	9.12	
EXT DRO >C28-C35	<10.0	10.0	09/19/2014	ND					

Surrogate: 1-Chlorooctane 86.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.4 % 63.6-154

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Received: 09/18/2014  
Reported: 09/24/2014  
Project Name: PLU #420H  
Project Number: BOPCO  
Project Location: UL-P SEC. 28, T25S, R31E

Sampling Date: 09/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 (SURFACE) (H402892-05)**

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	09/22/2014	ND	1.81	90.3	2.00	0.512	
Toluene*	<0.050	0.050	09/22/2014	ND	1.68	83.8	2.00	1.20	
Ethylbenzene*	<0.050	0.050	09/22/2014	ND	1.56	78.1	2.00	2.19	
Total Xylenes*	<0.150	0.150	09/22/2014	ND	4.64	77.3	6.00	2.29	
Total BTX	<0.300	0.300	09/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	48.0	16.0	09/19/2014	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
GRO C6-C10	<10.0	10.0	09/19/2014	ND	198	99.0	200	1.15	
DRO >C10-C28	<10.0	10.0	09/19/2014	ND	189	94.4	200	9.12	
EXT DRO >C28-C35	<10.0	10.0	09/19/2014	ND					

Surrogate: 1-Chlorooctane 89.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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Received: 09/18/2014  
Reported: 09/24/2014  
Project Name: PLU #420H  
Project Number: BOPCO  
Project Location: UL-P SEC. 28, T25S, R31E

Sampling Date: 09/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 (1') (H402892-06)**

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	09/22/2014	ND	1.81	90.3	2.00	0.512		
Toluene*	<0.050	0.050	09/22/2014	ND	1.68	83.8	2.00	1.20		
Ethylbenzene*	<0.050	0.050	09/22/2014	ND	1.56	78.1	2.00	2.19		
Total Xylenes*	<0.150	0.150	09/22/2014	ND	4.64	77.3	6.00	2.29		
Total BTX	<0.300	0.300	09/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/19/2014	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
GRO C6-C10	<10.0	10.0	09/19/2014	ND	198	99.0	200	1.15	
DRO >C10-C28	<10.0	10.0	09/19/2014	ND	189	94.4	200	9.12	
EXT DRO >C28-C35	<10.0	10.0	09/19/2014	ND					

Surrogate: 1-Chlorooctane 88.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.4 % 63.6-154

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Received: 09/18/2014  
Reported: 09/24/2014  
Project Name: PLU #420H  
Project Number: BOPCO  
Project Location: UL-P SEC. 28, T25S, R31E

Sampling Date: 09/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 (2') (H402892-07)**

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	09/22/2014	ND	1.81	90.3	2.00	0.512		
Toluene*	<0.050	0.050	09/22/2014	ND	1.68	83.8	2.00	1.20		
Ethylbenzene*	<0.050	0.050	09/22/2014	ND	1.56	78.1	2.00	2.19		
Total Xylenes*	<0.150	0.150	09/22/2014	ND	4.64	77.3	6.00	2.29		
Total BTX	<0.300	0.300	09/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	32.0	16.0	09/19/2014	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
GRO C6-C10	<10.0	10.0	09/19/2014	ND	198	99.0	200	1.15	
DRO >C10-C28	<10.0	10.0	09/19/2014	ND	189	94.4	200	9.12	
EXT DRO >C28-C35	<10.0	10.0	09/19/2014	ND					

Surrogate: 1-Chlorooctane 84.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.2 % 63.6-154

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Received: 09/18/2014  
Reported: 09/24/2014  
Project Name: PLU #420H  
Project Number: BOPCO  
Project Location: UL-P SEC. 28, T25S, R31E

Sampling Date: 09/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 (SURFACE) (H402892-08)**

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	09/22/2014	ND	1.81	90.3	2.00	0.512	
Toluene*	<0.050	0.050	09/22/2014	ND	1.68	83.8	2.00	1.20	
Ethylbenzene*	<0.050	0.050	09/22/2014	ND	1.56	78.1	2.00	2.19	
Total Xylenes*	<0.150	0.150	09/22/2014	ND	4.64	77.3	6.00	2.29	
Total BTX	<0.300	0.300	09/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	09/19/2014	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
GRO C6-C10	58.7	50.0	09/19/2014	ND	198	99.0	200	1.15	
DRO >C10-C28	3230	50.0	09/19/2014	ND	189	94.4	200	9.12	
EXT DRO >C28-C35	625	50.0	09/19/2014	ND					

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 153 % 63.6-154

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Received: 09/18/2014  
Reported: 09/24/2014  
Project Name: PLU #420H  
Project Number: BOPCO  
Project Location: UL-P SEC. 28, T25S, R31E

Sampling Date: 09/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 (2') (H402892-09)**

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	09/22/2014	ND	1.81	90.3	2.00	0.512	
Toluene*	<0.050	0.050	09/22/2014	ND	1.68	83.8	2.00	1.20	
Ethylbenzene*	<0.050	0.050	09/22/2014	ND	1.56	78.1	2.00	2.19	
Total Xylenes*	<0.150	0.150	09/22/2014	ND	4.64	77.3	6.00	2.29	
Total BTX	<0.300	0.300	09/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/22/2014	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
GRO C6-C10	<10.0	10.0	09/19/2014	ND	198	99.0	200	1.15	
DRO >C10-C28	17.0	10.0	09/19/2014	ND	189	94.4	200	9.12	
EXT DRO >C28-C35	<10.0	10.0	09/19/2014	ND					

Surrogate: 1-Chlorooctane 87.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.5 % 63.6-154

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Received: 09/18/2014  
Reported: 09/24/2014  
Project Name: PLU #420H  
Project Number: BOPCO  
Project Location: UL-P SEC. 28, T25S, R31E

Sampling Date: 09/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 (SURFACE) (H402892-10)**

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	09/22/2014	ND	1.81	90.3	2.00	0.512	
Toluene*	<0.050	0.050	09/22/2014	ND	1.68	83.8	2.00	1.20	
Ethylbenzene*	0.208	0.050	09/22/2014	ND	1.56	78.1	2.00	2.19	
Total Xylenes*	1.29	0.150	09/22/2014	ND	4.64	77.3	6.00	2.29	
Total BTX	1.50	0.300	09/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	288	16.0	09/22/2014	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: ms						S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<b>208</b>	50.0	09/19/2014	ND	198	99.0	200	1.15	
DRO >C10-C28	<b>3460</b>	50.0	09/19/2014	ND	189	94.4	200	9.12	
EXT DRO >C28-C35	<b>793</b>	50.0	09/19/2014	ND					

Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 159 % 63.6-154

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Received: 09/18/2014  
Reported: 09/24/2014  
Project Name: PLU #420H  
Project Number: BOPCO  
Project Location: UL-P SEC. 28, T25S, R31E

Sampling Date: 09/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 (2') (H402892-11)**

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	09/22/2014	ND	1.81	90.3	2.00	0.512		
Toluene*	<0.050	0.050	09/22/2014	ND	1.68	83.8	2.00	1.20		
Ethylbenzene*	<0.050	0.050	09/22/2014	ND	1.56	78.1	2.00	2.19		
Total Xylenes*	<0.150	0.150	09/22/2014	ND	4.64	77.3	6.00	2.29		
Total BTEx	<0.300	0.300	09/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	1140	16.0	09/22/2014	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
GRO C6-C10	<10.0	10.0	09/19/2014	ND	198	99.0	200	1.15	
DRO >C10-C28	206	10.0	09/19/2014	ND	189	94.4	200	9.12	
EXT DRO >C28-C35	62.3	10.0	09/19/2014	ND					

Surrogate: 1-Chlorooctane 94.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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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: 09/18/2014  
Reported: 09/24/2014  
Project Name: PLU #420H  
Project Number: BOPCO  
Project Location: UL-P SEC. 28, T25S, R31E

Sampling Date: 09/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 (4') (H402892-12)**

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	09/22/2014	ND	1.81	90.3	2.00	0.512		
Toluene*	<0.050	0.050	09/22/2014	ND	1.68	83.8	2.00	1.20		
Ethylbenzene*	<0.050	0.050	09/22/2014	ND	1.56	78.1	2.00	2.19		
Total Xylenes*	<0.150	0.150	09/22/2014	ND	4.64	77.3	6.00	2.29		
Total BTEX	<0.300	0.300	09/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	48.0	16.0	09/22/2014	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
GRO C6-C10	<10.0	10.0	09/22/2014	ND	183	91.5	200	1.25	
DRO >C10-C28	23.8	10.0	09/22/2014	ND	190	94.9	200	4.20	
EXT DRO >C28-C35	<10.0	10.0	09/22/2014	ND					

Surrogate: 1-Chlorooctane 91.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.4 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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Received: 09/18/2014  
Reported: 09/24/2014  
Project Name: PLU #420H  
Project Number: BOPCO  
Project Location: UL-P SEC. 28, T25S, R31E

Sampling Date: 09/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 (SURFACE) (H402892-13)**

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	09/22/2014	ND	1.75	87.5	2.00	9.30	
Toluene*	<0.050	0.050	09/22/2014	ND	1.65	82.6	2.00	8.36	
Ethylbenzene*	<0.050	0.050	09/22/2014	ND	1.56	78.1	2.00	8.07	
Total Xylenes*	<0.150	0.150	09/22/2014	ND	4.64	77.4	6.00	8.19	
Total BTX	<0.300	0.300	09/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	2040	16.0	09/22/2014	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
GRO C6-C10	<10.0	10.0	09/22/2014	ND	183	91.5	200	1.25	
DRO >C10-C28	<10.0	10.0	09/22/2014	ND	190	94.9	200	4.20	
EXT DRO >C28-C35	<10.0	10.0	09/22/2014	ND					

Surrogate: 1-Chlorooctane 88.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.9 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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Received: 09/18/2014  
Reported: 09/24/2014  
Project Name: PLU #420H  
Project Number: BOPCO  
Project Location: UL-P SEC. 28, T25S, R31E

Sampling Date: 09/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 (2') (H402892-14)**

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	09/22/2014	ND	1.75	87.5	2.00	9.30		
Toluene*	<0.050	0.050	09/22/2014	ND	1.65	82.6	2.00	8.36		
Ethylbenzene*	<0.050	0.050	09/22/2014	ND	1.56	78.1	2.00	8.07		
Total Xylenes*	<0.150	0.150	09/22/2014	ND	4.64	77.4	6.00	8.19		
Total BTX	<0.300	0.300	09/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	9200	16.0	09/22/2014	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
GRO C6-C10	<10.0	10.0	09/22/2014	ND	183	91.5	200	1.25	
DRO >C10-C28	<10.0	10.0	09/22/2014	ND	190	94.9	200	4.20	
EXT DRO >C28-C35	<10.0	10.0	09/22/2014	ND					

Surrogate: 1-Chlorooctane 92.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.4 % 63.6-154

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### Analytical Results For:

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Fax To: (505) 394-2601

Received: 09/18/2014  
Reported: 09/24/2014  
Project Name: PLU #420H  
Project Number: BOPCO  
Project Location: UL-P SEC. 28, T25S, R31E

Sampling Date: 09/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

### Sample ID: SP 5 (4') (H402892-15)

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	09/22/2014	ND	1.75	87.5	2.00	9.30		
Toluene*	<0.050	0.050	09/22/2014	ND	1.65	82.6	2.00	8.36		
Ethylbenzene*	<0.050	0.050	09/22/2014	ND	1.56	78.1	2.00	8.07		
Total Xylenes*	<0.150	0.150	09/22/2014	ND	4.64	77.4	6.00	8.19		
Total BTEx	<0.300	0.300	09/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	1070	16.0	09/22/2014	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
GRO C6-C10	<10.0	10.0	09/22/2014	ND	183	91.5	200	1.25	
DRO >C10-C28	<10.0	10.0	09/22/2014	ND	190	94.9	200	4.20	
EXT DRO >C28-C35	<10.0	10.0	09/22/2014	ND					

Surrogate: 1-Chlorooctane 83.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 70.6 % 63.6-154

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Received: 09/18/2014  
Reported: 09/24/2014  
Project Name: PLU #420H  
Project Number: BOPCO  
Project Location: UL-P SEC. 28, T25S, R31E

Sampling Date: 09/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 (5') (H402892-16)**

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	09/22/2014	ND	1.75	87.5	2.00	9.30		
Toluene*	<0.050	0.050	09/22/2014	ND	1.65	82.6	2.00	8.36		
Ethylbenzene*	<0.050	0.050	09/22/2014	ND	1.56	78.1	2.00	8.07		
Total Xylenes*	<0.150	0.150	09/22/2014	ND	4.64	77.4	6.00	8.19		
Total BTX	<0.300	0.300	09/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	112	16.0	09/22/2014	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
GRO C6-C10	<10.0	10.0	09/22/2014	ND	183	91.5	200	1.25	
DRO >C10-C28	<10.0	10.0	09/22/2014	ND	190	94.9	200	4.20	
EXT DRO >C28-C35	<10.0	10.0	09/22/2014	ND					

Surrogate: 1-Chlorooctane 90.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.8 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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 Fax To: (505) 394-2601

 Received: 09/18/2014  
 Reported: 09/24/2014  
 Project Name: PLU #420H  
 Project Number: BOPCO  
 Project Location: UL-P SEC. 28, T25S, R31E

 Sampling Date: 09/17/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 6 (SURFACE) (H402892-17)**

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	09/22/2014	ND	1.75	87.5	2.00	9.30		
Toluene*	<0.050	0.050	09/22/2014	ND	1.65	82.6	2.00	8.36		
Ethylbenzene*	<0.050	0.050	09/22/2014	ND	1.56	78.1	2.00	8.07		
Total Xylenes*	<0.150	0.150	09/22/2014	ND	4.64	77.4	6.00	8.19		
Total BTX	<0.300	0.300	09/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	4720	16.0	09/22/2014	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
GRO C6-C10	<10.0	10.0	09/22/2014	ND	183	91.5	200	1.25	
DRO >C10-C28	<10.0	10.0	09/22/2014	ND	190	94.9	200	4.20	
EXT DRO >C28-C35	<10.0	10.0	09/22/2014	ND					

Surrogate: 1-Chlorooctane 92.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.0 % 63.6-154

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Fax To: (505) 394-2601

Received: 09/18/2014  
Reported: 09/24/2014  
Project Name: PLU #420H  
Project Number: BOPCO  
Project Location: UL-P SEC. 28, T25S, R31E

Sampling Date: 09/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 6 (2') (H402892-18)**

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	09/22/2014	ND	1.75	87.5	2.00	9.30		
Toluene*	<0.050	0.050	09/22/2014	ND	1.65	82.6	2.00	8.36		
Ethylbenzene*	<0.050	0.050	09/22/2014	ND	1.56	78.1	2.00	8.07		
Total Xylenes*	<0.150	0.150	09/22/2014	ND	4.64	77.4	6.00	8.19		
Total BTEX	<0.300	0.300	09/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	2840	16.0	09/22/2014	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
GRO C6-C10	<10.0	10.0	09/22/2014	ND	183	91.5	200	1.25	
DRO >C10-C28	<10.0	10.0	09/22/2014	ND	190	94.9	200	4.20	
EXT DRO >C28-C35	<10.0	10.0	09/22/2014	ND					

Surrogate: 1-Chlorooctane 97.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.6 % 63.6-154

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Fax To: (505) 394-2601

Received: 09/18/2014  
Reported: 09/24/2014  
Project Name: PLU #420H  
Project Number: BOPCO  
Project Location: UL-P SEC. 28, T25S, R31E

Sampling Date: 09/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 6 (4') (H402892-19)**

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	09/22/2014	ND	1.75	87.5	2.00	9.30		
Toluene*	<0.050	0.050	09/22/2014	ND	1.65	82.6	2.00	8.36		
Ethylbenzene*	<0.050	0.050	09/22/2014	ND	1.56	78.1	2.00	8.07		
Total Xylenes*	<0.150	0.150	09/22/2014	ND	4.64	77.4	6.00	8.19		
Total BTEX	<0.300	0.300	09/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	96.0	16.0	09/22/2014	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
GRO C6-C10	<10.0	10.0	09/22/2014	ND	183	91.5	200	1.25	
DRO >C10-C28	<10.0	10.0	09/22/2014	ND	190	94.9	200	4.20	
EXT DRO >C28-C35	<10.0	10.0	09/22/2014	ND					

Surrogate: 1-Chlorooctane 88.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.2 % 63.6-154

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Fax To: (505) 394-2601

Received: 09/18/2014  
Reported: 09/24/2014  
Project Name: PLU #420H  
Project Number: BOPCO  
Project Location: UL-P SEC. 28, T25S, R31E

Sampling Date: 09/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 7 (SURFACE) (H402892-20)**

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	09/22/2014	ND	1.75	87.5	2.00	9.30	
Toluene*	<0.050	0.050	09/22/2014	ND	1.65	82.6	2.00	8.36	
Ethylbenzene*	<0.050	0.050	09/22/2014	ND	1.56	78.1	2.00	8.07	
Total Xylenes*	<0.150	0.150	09/22/2014	ND	4.64	77.4	6.00	8.19	
Total BTX	<0.300	0.300	09/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	1490	16.0	09/22/2014	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
GRO C6-C10	<10.0	10.0	09/22/2014	ND	183	91.5	200	1.25	
DRO >C10-C28	<10.0	10.0	09/22/2014	ND	190	94.9	200	4.20	
EXT DRO >C28-C35	<10.0	10.0	09/22/2014	ND					

Surrogate: 1-Chlorooctane 86.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.8 % 63.6-154

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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: 09/18/2014  
Reported: 09/24/2014  
Project Name: PLU #420H  
Project Number: BOPCO  
Project Location: UL-P SEC. 28, T25S, R31E

Sampling Date: 09/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 7 (2') (H402892-21)**

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	09/22/2014	ND	1.75	87.5	2.00	9.30		
Toluene*	<0.050	0.050	09/22/2014	ND	1.65	82.6	2.00	8.36		
Ethylbenzene*	<0.050	0.050	09/22/2014	ND	1.56	78.1	2.00	8.07		
Total Xylenes*	<0.150	0.150	09/22/2014	ND	4.64	77.4	6.00	8.19		
Total BTX	<0.300	0.300	09/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	768	16.0	09/22/2014	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
GRO C6-C10	<10.0	10.0	09/22/2014	ND	183	91.5	200	1.25	
DRO >C10-C28	<10.0	10.0	09/22/2014	ND	190	94.9	200	4.20	
EXT DRO >C28-C35	<10.0	10.0	09/22/2014	ND					

Surrogate: 1-Chlorooctane 90.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 81.3 % 63.6-154

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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: 09/18/2014  
Reported: 09/24/2014  
Project Name: PLU #420H  
Project Number: BOPCO  
Project Location: UL-P SEC. 28, T25S, R31E

Sampling Date: 09/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 7 (4') (H402892-22)**

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	09/22/2014	ND	1.75	87.5	2.00	9.30		
Toluene*	<0.050	0.050	09/22/2014	ND	1.65	82.6	2.00	8.36		
Ethylbenzene*	<0.050	0.050	09/22/2014	ND	1.56	78.1	2.00	8.07		
Total Xylenes*	<0.150	0.150	09/22/2014	ND	4.64	77.4	6.00	8.19		
Total BTEx	<0.300	0.300	09/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	3200	16.0	09/22/2014	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
GRO C6-C10	<10.0	10.0	09/22/2014	ND	183	91.5	200	1.25	
DRO >C10-C28	<10.0	10.0	09/22/2014	ND	190	94.9	200	4.20	
EXT DRO >C28-C35	<10.0	10.0	09/22/2014	ND					

Surrogate: 1-Chlorooctane 96.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.3 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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P.O. Box 1558  
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Fax To: (505) 394-2601

Received: 09/18/2014  
Reported: 09/24/2014  
Project Name: PLU #420H  
Project Number: BOPCO  
Project Location: UL-P SEC. 28, T25S, R31E

Sampling Date: 09/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 7 (5') (H402892-23)**

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	09/22/2014	ND	1.75	87.5	2.00	9.30		
Toluene*	<0.050	0.050	09/22/2014	ND	1.65	82.6	2.00	8.36		
Ethylbenzene*	<0.050	0.050	09/22/2014	ND	1.56	78.1	2.00	8.07		
Total Xylenes*	<0.150	0.150	09/22/2014	ND	4.64	77.4	6.00	8.19		
Total BTX	<0.300	0.300	09/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	1100	16.0	09/22/2014	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
GRO C6-C10	<10.0	10.0	09/22/2014	ND	183	91.5	200	1.25	
DRO >C10-C28	<10.0	10.0	09/22/2014	ND	190	94.9	200	4.20	
EXT DRO >C28-C35	<10.0	10.0	09/22/2014	ND					

Surrogate: 1-Chlorooctane 97.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.6 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Environmental Plus, Inc.  
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Fax To: (505) 394-2601

Received: 09/18/2014  
Reported: 09/24/2014  
Project Name: PLU #420H  
Project Number: BOPCO  
Project Location: UL-P SEC. 28, T25S, R31E

Sampling Date: 09/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 8 (SURFACE) (H402892-24)**

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	09/22/2014	ND	1.75	87.5	2.00	9.30		
Toluene*	<0.050	0.050	09/22/2014	ND	1.65	82.6	2.00	8.36		
Ethylbenzene*	<0.050	0.050	09/22/2014	ND	1.56	78.1	2.00	8.07		
Total Xylenes*	<0.150	0.150	09/22/2014	ND	4.64	77.4	6.00	8.19		
Total BTX	<0.300	0.300	09/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	448	16.0	09/22/2014	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
GRO C6-C10	<10.0	10.0	09/22/2014	ND	183	91.5	200	1.25	
DRO >C10-C28	<10.0	10.0	09/22/2014	ND	190	94.9	200	4.20	
EXT DRO >C28-C35	<10.0	10.0	09/22/2014	ND					

Surrogate: 1-Chlorooctane 88.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.5 % 63.6-154

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Fax To: (505) 394-2601

Received: 09/18/2014  
Reported: 09/24/2014  
Project Name: PLU #420H  
Project Number: BOPCO  
Project Location: UL-P SEC. 28, T25S, R31E

Sampling Date: 09/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 8 (2') (H402892-25)**

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	09/22/2014	ND	1.75	87.5	2.00	9.30		
Toluene*	<0.050	0.050	09/22/2014	ND	1.65	82.6	2.00	8.36		
Ethylbenzene*	<0.050	0.050	09/22/2014	ND	1.56	78.1	2.00	8.07		
Total Xylenes*	<0.150	0.150	09/22/2014	ND	4.64	77.4	6.00	8.19		
Total BTX	<0.300	0.300	09/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	2080	16.0	09/22/2014	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
GRO C6-C10	<10.0	10.0	09/22/2014	ND	183	91.5	200	1.25	
DRO >C10-C28	<10.0	10.0	09/22/2014	ND	190	94.9	200	4.20	
EXT DRO >C28-C35	<10.0	10.0	09/22/2014	ND					

Surrogate: 1-Chlorooctane 91.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.1 % 63.6-154

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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: 09/18/2014  
Reported: 09/24/2014  
Project Name: PLU #420H  
Project Number: BOPCO  
Project Location: UL-P SEC. 28, T25S, R31E

Sampling Date: 09/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 8 (3') (H402892-26)**

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	09/22/2014	ND	1.75	87.5	2.00	9.30		
Toluene*	<0.050	0.050	09/22/2014	ND	1.65	82.6	2.00	8.36		
Ethylbenzene*	<0.050	0.050	09/22/2014	ND	1.56	78.1	2.00	8.07		
Total Xylenes*	<0.150	0.150	09/22/2014	ND	4.64	77.4	6.00	8.19		
Total BTX	<0.300	0.300	09/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/22/2014	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
GRO C6-C10	<10.0	10.0	09/22/2014	ND	183	91.5	200	1.25	
DRO >C10-C28	<10.0	10.0	09/22/2014	ND	190	94.9	200	4.20	
EXT DRO >C28-C35	<10.0	10.0	09/22/2014	ND					

Surrogate: 1-Chlorooctane 78.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.4 % 63.6-154

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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.
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

# 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

## Bill To

## ANALYSIS REQUEST

BOPCO, L.P.  
Attn: Brad Blevins  
522 W. Mermod, Suite 704  
Carlsbad, NM 8820

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 #420H

Location UL-P Sec. 28, T25S, R31E

Project Reference

EPI Sampler Name David Robinson

LAB I.D.

SAMPLE I.D.

(G)RAB OR (C)OMP.

# CONTAINERS

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PRESERV.

SAMPLING

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Sampler Relinquished:

Relinquished by:

Delivered by:

Date 9/17/14

Time 7:00am

Date 9/18/14

Time 3:34

Received By:

Received By: (lab stat)

Sample Code & Intact

Yes No

E-mail results to: ddominguezepi@gmail.com & bblevins@basspet.com

NOTES: & tasavioe@basspet.com

Checked By:

Sample Code & Intact

Yes No

Sample Code & Intact

Yes No

Sample Code & Intact

Yes No

Sample Code & Intact

Yes No

Sample Code & Intact

Yes No

Sample Code & Intact

Yes



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P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form  
LAB Cardinal

(575) 394-3481 FAX: (575) 394-2601

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 #420H

Location UL-P Sec. 28, T25S, R31E

Project Reference

EPI Sampler Name David Robinson

Bill To

BOPCO, L.P.  
Attn: Brad Blevins  
522 W. Mermod, Suite 704  
Carlsbad, NM 8820

ANALYSIS REQUEST

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING		DATE	TIME	BTX 8021B	TPH 8015M	CHLORIDES (Cl <sup>-</sup> )	SULFATES (SO <sub>4</sub> <sup>2-</sup> )	pH	TCLP	OTHER >>>
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:												
H4D2892																					
11	SP4 (2)	G	1			X							17-Sep-14	11:59	X	X	X				
12	SP4 (4)	G	1			X							17-Sep-14	12:55	X	X	X				
13	SP5 (Surface)	G	1			X							17-Sep-14	1:15	X	X	X				
14	SP5 (2)	G	1			X							17-Sep-14	1:17	X	X	X				
15	SP5 (4)	G	1			X							17-Sep-14	1:19	X	X	X				
16	SP5 (5)	G	1			X							17-Sep-14	1:45	X	X	X				
17	SP6 (Surface)	G	1			X							17-Sep-14	2:14	X	X	X				
18	SP6 (2)	G	1			X							17-Sep-14	2:16	X	X	X				
19	SP6 (4)	G	1			X							17-Sep-14	2:18	X	X	X				
20	SP7 (Surface)	G	1			X							17-Sep-14	3:00	X	X	X				

Sampler Relinquished by:

Date 9/17/14

Received By:

E-mail results to: ddominguezepi@gmail.com & bblevins@basspet.com

Relinquished by:

Date 9/17/14

Received By:

NOTES:

& tasavoie@basspet.com

Delivered by:

Date 9/17/14

Received By:

Sample Cool & Intact

Yes

No

Checked By:

#54



# 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.

Bill To

ANALYSIS REQUEST

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 #420H

Location UL-P Sec. 28, T25S, R31E

Project Reference

EPI Sampler Name David Robinson

BOPCO, L.P.  
Attn: Brad Blevins  
522 W. Mermod, Suite 704  
Carlsbad, NM 8820

LAB I.D.

SAMPLE I.D.

H402892

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING		DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl <sup>-</sup> )	SULFATES (SO <sub>4</sub> <sup>2-</sup> )	pH	TCLP	OTHER >>>
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:		ICE/COOL	OTHER									
21	SP7 (2)	G	1			X					X		17-Sep-14	3:02	X	X	X				
22	SP7 (4)	G	1			X					X		17-Sep-14	3:04	X	X	X				
23	SP7 (5)	G	1			X					X		17-Sep-14	3:05	X	X	X				
24	SP8 (Surface)	G	1			X					X		17-Sep-14	3:30	X	X	X				
25	SP8 (2)	G	1			X					X		17-Sep-14	3:32	X	X	X				
26	SP8 (3)	G	1			X					X		17-Sep-14	3:33	X	X	X				
27																					
28																					
29																					
30																					

Sampler Relinquished by:

Date 9/17/14

Received By:

E-mail results to: ddominguezepi@gmail.com & bblevins@basspet.com

Relinquished by:

Date 9/18/14

Received By: (lab staff)

NOTES:

& lasavoie@basspet.com

Delivered by:

Date 9/18/14

Received By:

NOTES:

& lasavoie@basspet.com

LAB Cardinal

Page 31 of 31

**ATTACHMENT III**  
**Copy of Initial NMOCD Form C-141's**  
**Final C-141's**

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**

nHMP1410125196

**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. 575-887-7329
Facility Name: PLU 420 Tank Battery	Facility Type: Exploration and Production

Surface Owner: USA	Mineral Owner: USA	API No. 30-015-39795
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**LOCATION OF RELEASE**

Unit Letter P	Section 28	Township 25S	Range 31E	Feet from the 700	North/South Line South	Feet from the 1300	East/West Line East	County Eddy
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Latitude N 32.096093 Longitude W 103.778400

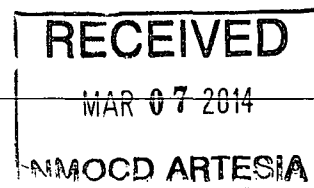
**NATURE OF RELEASE**

Type of Release: Crude oil and produced water	Volume of Release: 5 bbls crude oil and 5 bbls produced water	Volume Recovered: 1 bbl crude oil
Source of Release: Heater-treater fire tube gasket	Date and Hour of Occurrence: 2/28/14 time unknown	Date and Hour of Discovery: 2/28/14 at approximately 9:00 a.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

The gasket on the heater-treater fire tube failed. The production well was shut in and the gasket was replaced.



Describe Area Affected and Cleanup Action Taken.\*

The spill affected approximately 3200 sq.ft. of caliche well pad around the process equipment earthen containment and approximately 4000 sq.ft. of pasture area was lightly misted.

The process equipment and vegetation were washed down with soap and water the day of the release. All of the free standing fluid was picked up with a vacuum truck.

The spill area will be cleaned up in accordance to 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: Tony Savoie	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Tony Savoie	Approved by Environmental Specialist: [Signature]	
Title: Waste Management and Remediation Specialist	Approval Date: 4/11/14	Expiration Date:
E-mail Address: tasavoie@basspet.com	Conditions of Approval: Remediation per OCD Rule & Guidelines. <b>SUBMIT REMEDIATION PROPOSAL NO LATER THAN:</b> 5/11/14	Attached <input type="checkbox"/>
Date: 3/7/14	Phone: 432-556-8730	

\* Attach Additional Sheets If Necessary

2RP-2250

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

Form C-141  
Revised August 8, 2011

SEP 16 2014

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

RECEIVED

Release Notification and Corrective Action

*NAB1425953776* OPERATOR ☒ Initial Report ☐ Final Report  
Name of Company: BOPCO, L.P. *240737* Contact: Tony Savoie  
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 Telephone No. 575-887-7329  
Facility Name: PLU 420 Tank Battery Facility Type: Exploration and Production

Surface Owner: Federal Mineral Owner: Federal API No. 30-015-39795

LOCATION OF RELEASE

Unit Letter P	Section 28	Township 25S	Range 31E	Feet from the 700	North/South Line South	Feet from the 1300	East/West Line East	County Eddy
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Latitude N 32.096093 Longitude W 103.778400

NATURE OF RELEASE

Type of Release: Produced water	Volume of Release: 135 bbls	Volume Recovered: None
Source of Release: 1/2" valve on the free water knockout	Date and Hour of Occurrence: 9/9/14 time unknown	Date and Hour of Discovery: 9/9/14 at approximately 12:50 p.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 #104 and BLM	
By Whom? Tony Savoie	Date and Hour: 9/10/14 at approximately 12:30 p.m.	
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.\*

It appeared that a cow kicked the valve handle on the 1/2" valve to the open position. The valve was shut and handle removed. The area will be completely fenced off after the remediation is completed.

Describe Area Affected and Cleanup Action Taken.\*

All of the fluid soaked into the ground. The spill affected approximately 15,400 sq.ft. around the process equipment earthen containment and well pad area. The release impacted an area previously reported; reference 2RP-2250. The spill area will be cleaned up in accordance to 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: <i>Tony Savoie</i>	OIL CONSERVATION DIVISION	
Printed Name: Tony Savoie	Approved by Environmental Specialist: <i>H. H. H.</i>	
Title: Waste Management and Remediation Specialist	Approval Date: <i>9/16/14</i>	Expiration Date: <i>NA</i>
E-mail Address: <i>tasavoie@basspet.com</i>	Conditions of Approval: Remediation per OCD Rule & Guidelines.	
Date: <i>9/16/14</i> Phone: 432-556-8730	Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary

SUBMIT REMEDIATION PROPOSAL NO  
LATER THAN: *10/16/14*

*2RP-2487*



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

<b>Name of Company:</b> Bopco, L.P.	<b>Contact:</b> Tony Savoie
<b>Address:</b> 522 W. Mermod, Suite 704 Carlsbad, NM 88220	<b>Telephone No.:</b> (575) 887-7329
<b>Facility Name:</b> PLU 420 Tank Battery – Release 1	<b>Facility Type:</b> Exploration and Production

<b>Surface Owner:</b> Federal	<b>Mineral Owner:</b> Federal	<b>API No.:</b> 30-015-39795
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**LOCATION OF RELEASE**

<b>Unit Letter</b> P	<b>Section</b> 28	<b>Township</b> 25S	<b>Range</b> 31E	<b>Feet from the</b> 700	<b>North/South Line</b> South	<b>Feet from the</b> 1300	<b>East/West Line</b> East	<b>County</b> Eddy
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**Latitude:** N 32° 5' 45.94" **Longitude:** W 103° 46' 42.24"

**NATURE OF RELEASE**

<b>Type of Release:</b> Crude oil and produced water	<b>Volume of Release:</b> 5 bbl crude oil and 5 bbls produced water	<b>Volume Recovered:</b> 1 bbl crude oil
<b>Source of Release:</b> Heater-treater fire tube gasket	<b>Date and Hour of Occurrence:</b> 2/28/14 time unknown	<b>Date and Hour of Discovery:</b> 2/28/14 @ ~ 9:00 am
<b>Was Immediate Notice Given?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	<b>If YES, To Whom?</b>	
<b>By Whom?</b>	<b>Date and Hour:</b>	
<b>Was a Watercourse Reached?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If YES, Volume Impacting the Watercourse:</b> Not Applicable	


**Depth to Water.** ~310 ft bgs

**If a Watercourse was Impacted, Describe Fully.\*** Not Applicable

**Describe Cause of Problem and Remedial Action Taken.\*** The gasket on the heater-treater fire tube failed. The production well was shut in and the gasket was replaced.

**Describe Area Affected and Cleanup Action Taken.\*** The spill affected approximately 3,200 sq. ft. of caliche well pad around the process equipment earthen containment and approximately 4,000 sq. ft. of pasture area was lightly misted. The process equipment and vegetation were washed down with soap and water the day of the release. All of the free standing fluid was picked up with a vacuum truck. The contaminated soil was excavated and hauled to a state approved facility for disposal and the excavation has been backfilled with clean soil. The spill area has been cleaned up in accordance to 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.

<b>Signature:</b> 	<b>OIL CONSERVATION DIVISION</b>		
<b>Printed Name:</b> Brad Blevins	<b>Approved by District Supervisor:</b>		
<b>Title:</b> EHS Asst. Remediation Foreman	<b>Approval Date:</b>	<b>Expiration Date:</b>	
<b>E-mail Address:</b> <a href="mailto:bblevins@basspet.com">bblevins@basspet.com</a>	<b>Conditions of Approval:</b>		<b>Attached</b> <input type="checkbox"/>
<b>Date:</b> 10-30-14 <b>Phone:</b> (432) 214-3704			

\* **Attach Additional Sheets If Necessary**

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

<b>Name of Company:</b> Bopco, L.P.	<b>Contact:</b> Tony Savoie	
<b>Address:</b> 522 W. Mermod, Suite 704 Carlsbad, NM 88220	<b>Telephone No.:</b> (575) 887-7329	
<b>Facility Name:</b> PLU 420 Tank Battery – Release 2	<b>Facility Type:</b> Exploration and Production	
<b>Surface Owner:</b> Federal	<b>Mineral Owner:</b> Federal	<b>API No.:</b> 30-015-39795

**LOCATION OF RELEASE**

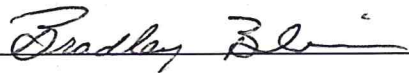
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	28	25S	31E	700	South	1300	East	Eddy

**Latitude:** N 32° 5' 45.94" **Longitude:** W 103° 46' 42.24"

**NATURE OF RELEASE**

<b>Type of Release:</b> Produced water	<b>Volume of Release:</b> 135 bbl	<b>Volume Recovered:</b> none
<b>Source of Release:</b> ½" valve on the free water knockout	<b>Date and Hour of Occurrence:</b> 9/9/14 time unknown	<b>Date and Hour of Discovery:</b> 9/9/14 @ ~ 12:50 pm
<b>Was Immediate Notice Given?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	<b>If YES, To Whom?</b> NMOCD emergency #104 and BLM	
<b>By Whom?</b> Tony Savoie	<b>Date and Hour:</b> 9/10/14 @ ~ 12:30 pm	
<b>Was a Watercourse Reached?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If YES, Volume Impacting the Watercourse:</b> Not Applicable	
<b>Depth to Water.</b> ~310 ft bgs		
<b>If a Watercourse was Impacted, Describe Fully.*</b> Not Applicable		
<b>Describe Cause of Problem and Remedial Action Taken.*</b> It appeared that a cow kicked the valve handle on the ½" valve to the open position. The valve was shut and handle removed. The area will be completely fenced off after the remediation is completed.		
<b>Describe Area Affected and Cleanup Action Taken.*</b> All of the fluid soaked into the ground. The spill affected approximately 15,400 sq. ft. around the process equipment earthen containment and well pad area. The release impacted an area previously reported; reference 2RP-2250. Contaminated soil was excavated and hauled to state approved facility for disposal and the excavation backfilled with clean soil. The spill area has been cleaned up in accordance to 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.		

**OIL CONSERVATION DIVISION**

<b>Signature:</b> 	<b>Approved by District Supervisor:</b>	
<b>Printed Name:</b> Brad Blevins	<b>Approval Date:</b>	<b>Expiration Date:</b>
<b>Title:</b> EHS Asst. Remediation Foreman	<b>Conditions of Approval:</b>	
<b>E-mail Address:</b> <a href="mailto:bblevins@basspet.com">bblevins@basspet.com</a>	<b>Attached</b> <input type="checkbox"/>	
<b>Date:</b> 10-30-14 <b>Phone:</b> (432) 214-3704		

\* Attach Additional Sheets If Necessary