

ENVIRONMENTAL PLUS, INC.

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CLOSURE REPORT

BOPCO, LP
PLU-JV-CVX-Big Sinks #017H
Eddy County, New Mexico
Unit Letter "C", Section 7, Township 25 South, Range 31 East
Area 1: Latitude 32.152162 North, Longitude 103.818873 West
NMOCD Reference #2RP-2403
Area 2: Latitude 32.151831 North, Longitude 103.818964 West
NMOCD Reference #2RP-2402

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

Daniel Dominguez
Project Manager



13 October 2014

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

RE: Final Closure Report
Bopco – PLU-JV-CVX-Big Sinks #017H
UL-C, Section 7, Township 25 South, Range 31 East
Eddy County, New Mexico
NMOCD Reference # 2RP 2403 and # 2RP 2402

Mr. Bratcher:

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

Background Information:

The area 1 release appeared to have come from a relief valve on one of the vessels in the process area. The 1st well was put in production 2-10-13. The area 2 release area was discovered by a BOPCO Lead Pumper. It appeared that the sight glass had been broken and repaired. Area 1 and Area 2 were simultaneously remediated.

Remediation Activities:

EPI personnel mobilized on the site on September 25, 2014 to collect soil samples via sample trench to determine the vertical extent of contamination. A total of twenty-six (26) soil samples were collected from seven (7) sample locations and sent to Cardinal Labs in Hobbs, New Mexico, for testing. Laboratory analytical results indicate the excavation in general is void of Benzene, BTEX, TPH and Chloride concentrations in excess of NMOCD Recommended Remedial Action Levels (RRALs) of 10 mg/Kg, 50 mg/Kg, 5,000 mg/Kg, and 1,000 mg/Kg, respectively. Sample SP4 indicates Chloride concentrations in excess of NMOCD RRALs to a depth of one (1) foot bgs. Sample SP5 indicates TPH concentrations in excess of NMOCD RRALs at surface level (reference *Figure 3* and *Table 2*).

On October 2, 2014 approximately 74 cubic yards of contaminated material that had been excavated and stockpiled on site was transported to Lea Land for disposal. The release area was excavated to a depth of one (1) foot bgs in the areas of SP1 – SP3. The area around SP4 was excavated to a depth of two (2) feet bgs.

Closure Activities:

The excavation was backfilled utilizing stockpiled clean caliche until the entire excavation was brought to grade with the existing pad area to protect against wind/water erosion. The area around SP5, where TPH concentrations were in excess of NMOCD RRALs, has been blended

down, along with the entire overspray area, with clean soil from the immediate vicinity as per NMOCD approval. The disturbed area off the working location and caliche pad will be disced and deep drill seeded with a mixture approved by the property owner. However, it is recommended completing this activity in late spring 2015 when ground conditions are more conducive to vegetative growth.

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 or Mr. Brad Blevins at (432) 214-3704 or via e-mail at 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

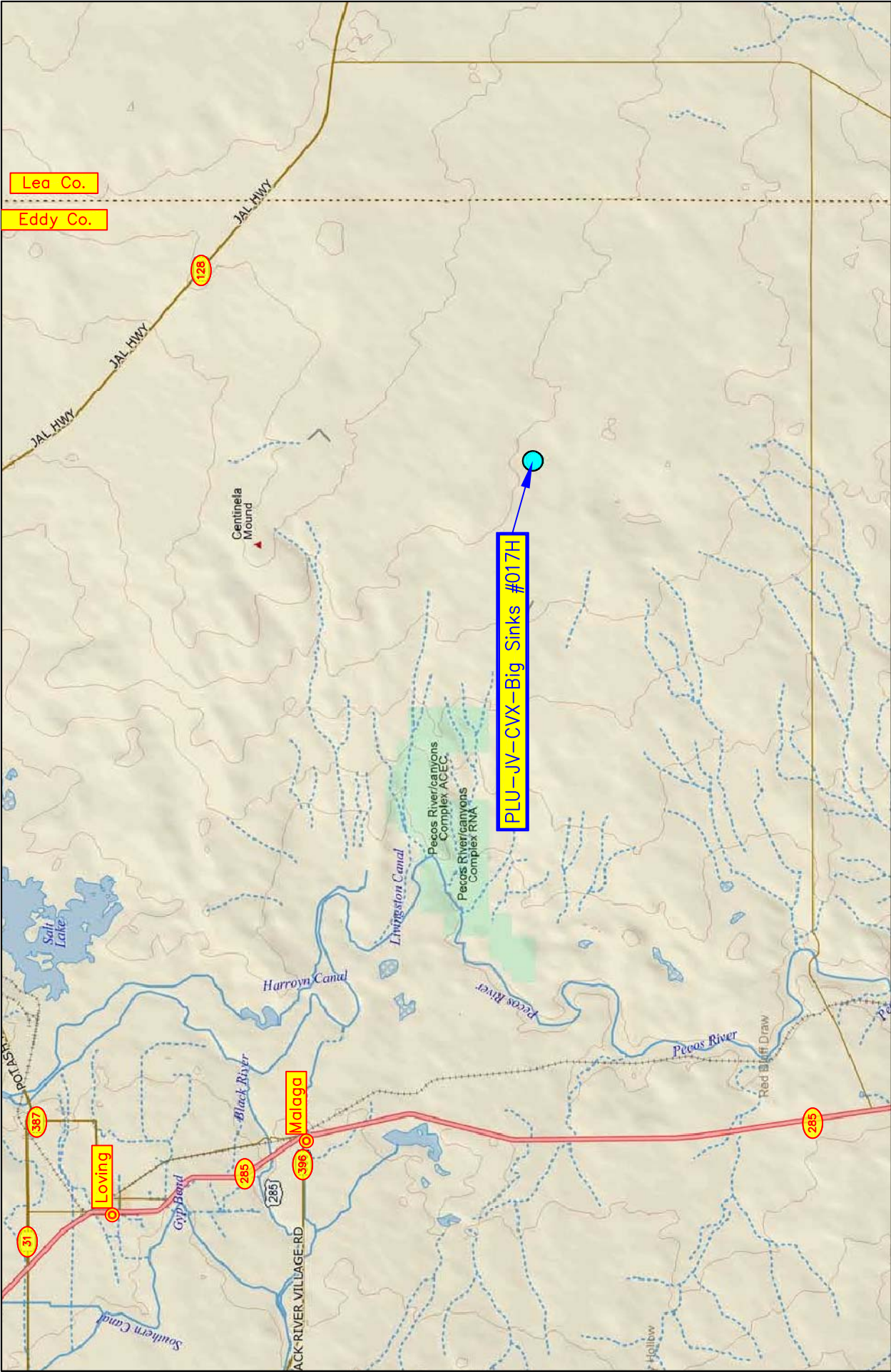
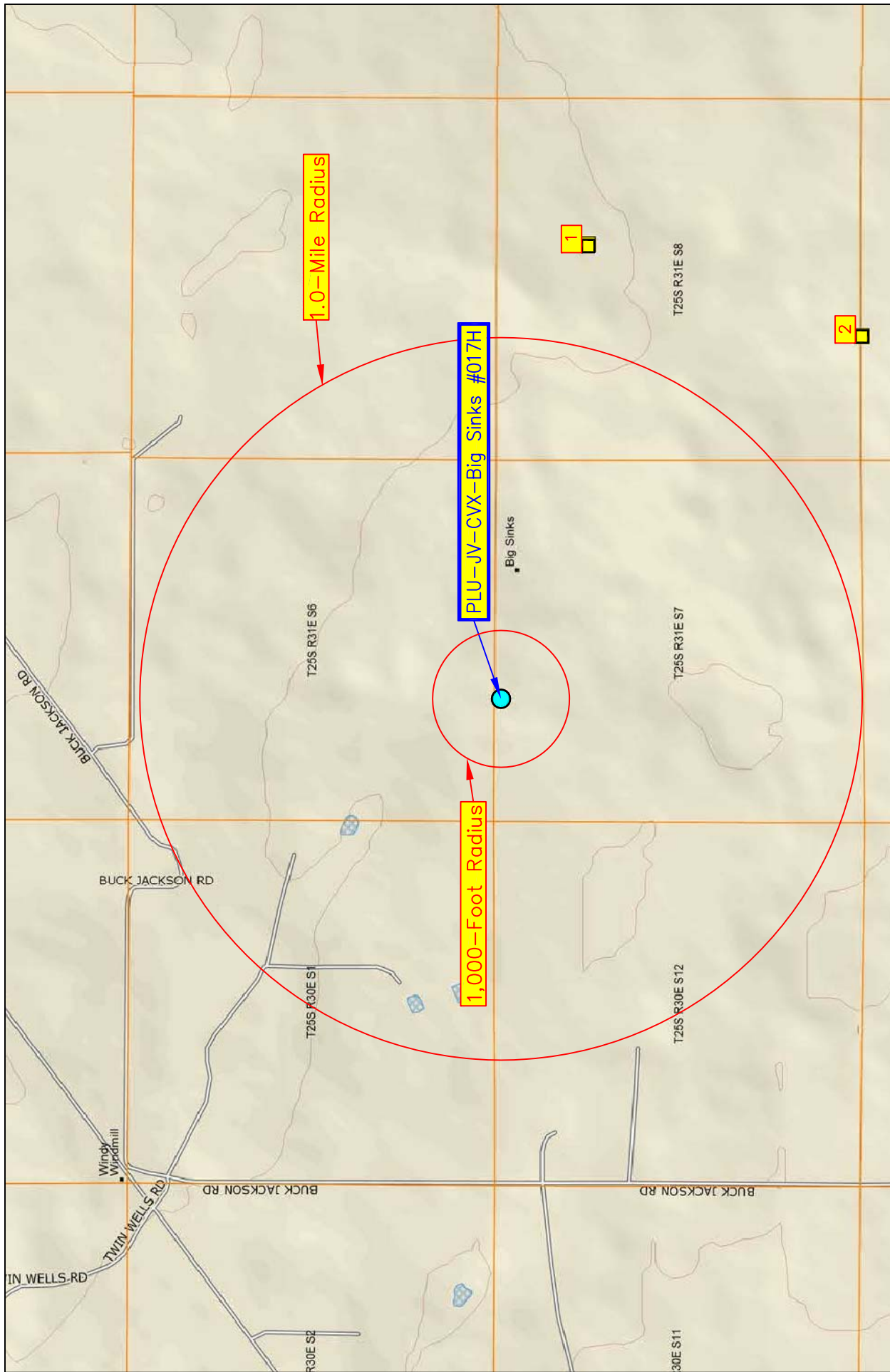


Figure 1 Area Map Bopco, L.P. PLU-JV-CVX-Big Sinks #017H	Eddy County, New Mexico NE 1/4 of NW 1/4, Sec. 7, T25S, R31E N 32° 9' 7.24" W 103° 49' 9.86" Elevation: 3,372 feet amsl	DWG By: D Dominguez October 2014	REVISED:
		0 3 6	SHEET 1 of 1
		 Miles	





	REVISED: DWG By: D Dominguez October 2014	SHEET 1 of 1 0 2,000 4,000 Feet	Eddy County, New Mexico NE 1/4 of NW 1/4, Sec. 7, T25S, R31E N 32° 9' 7.24" W 103° 49' 9.86" Elevation: 3,372 feet amsl	Figure 2 Site Location Map Bopco, L.P. PLU-JV-CVX-Big Sinks #017H



Figure 3 Site/Sample Map Bopco, L.P. PLU-JV-CVX-Big Sinks #017H	Eddy County, New Mexico NE 1/4 of NW 1/4, Sec. 7, T25S, R31E N 32° 9' 7.24" W 103° 49' 9.86" Elevation: 3,372 feet amsl		DWG By: D Dominguez October 2014		REVISED:		
			 Feet		SHEET 1 of 1		

XSP1 Sample Point

TABLES

TABLE 1

Well Data

Bopco - PLU-JV-CVX-Big Sinks #017H

Ref #	Well Number	Use	Diversion ^A	Owner	q64	q16	q4	Sec	Twsp	Rng	Easting	Northing	Date Measured	Surface Elevation ^B	Depth to Water (ft bgs)
1	C 01839	PRO	0	OXY Petroleum, Inc.		3	2	8	25S	31E	613364	3557344		3,405	
2	C 01831	PRO	0	OXY Petroleum, Inc.		2	1	17	25S	31E	612972	3556126		3,381	

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

^A = In acre feet per annum

^B = Elevation interpolated from USGS topographical map based on referenced location.

PRO = 72-12-1 Prospecting or development of natural resource

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 Results
Bopco L.P.
PLU-JV-CVX-Big Sinks #017H

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	25-Sep-14	7.7	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<16.0
	1	Excavated	25-Sep-14	12.9	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<16.0
	2	In Situ	25-Sep-14	2.1	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<16.0
SP2	Surface	Excavated	25-Sep-14	0.7	120	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	2,190	552	2,742	<16.0
	1	Excavated	25-Sep-14	0.0	200	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	25.2	25.2	<16.0
	2	In Situ	25-Sep-14	0.0	320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	192
	3	In Situ	25-Sep-14	0.0	800	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	624
	4	In Situ	25-Sep-14	0.0	800	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	592
	5	In Situ	25-Sep-14	0.0	880	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	912
SP3	6	In Situ	25-Sep-14	0.0	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<16.0
	Surface	Excavated	25-Sep-14	3.7	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	2,370	668	3,038	<16.0
	1	Excavated	25-Sep-14	0.5	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	48
	2	In Situ	25-Sep-14	0.0	640	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	528
	3	In Situ	25-Sep-14	0.0	320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	240
	Surface	Excavated	25-Sep-14	3.8	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	3,830	1,040	4,870	<16.0
SP4	1	Excavated	25-Sep-14	0.0	1,600	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17.3	36.9	54.2	1,600
	2	Excavated	25-Sep-14	0.0	200	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<16.0

TABLE 2
Summary of Soil Sample Field Testing and Laboratory Results
Bopco L.P.
PLU-JV-CVX-Big Sinks #017H

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	In Situ - Rolled/Blended	25-Sep-14	0.0	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	5,620	2,350	7,970	<16.0
	1	In Situ - Rolled/Blended	25-Sep-14	0.0	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<16.0
	2	In Situ - Rolled/Blended	25-Sep-14	0.0	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<16.0
SP6	Surface	In Situ - Rolled/Blended	25-Sep-14	7.0	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	35.3	18.9	54.2	<16.0
	1	In Situ - Rolled/Blended	25-Sep-14	0.0	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<16.0
	2	In Situ - Rolled/Blended	25-Sep-14	0.0	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<16.0
SP7	Surface	In Situ - Rolled/Blended	25-Sep-14	0.0	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	2,090	710	2,800	<16.0
	1	In Situ - Rolled/Blended	25-Sep-14	0.0	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	18.4	32.2	50.6	<16.0
	2	In Situ - Rolled/Blended	25-Sep-14	0.0	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<16.0
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 – Looking south across release area



Photograph #2 – Looking north across release area



Photograph #3 – Looking east across release area



Photograph #4 – Looking north across excavation



Photograph #5 – Looking north across excavation



Photograph #6 – Backfilled area



Photograph #7 – Backfilled area



Photograph #8 – Blended pasture area

ATTACHMENT II
Laboratory Analytical Results



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

October 02, 2014

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: PLU BIG SINKS 017 H

Enclosed are the results of analyses for samples received by the laboratory on 09/26/14 15:55.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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: 09/26/2014
Reported: 10/02/2014
Project Name: PLU BIG SINKS 017 H
Project Number: BOPCO
Project Location: UL-C SEC. 7, T25S, R31E

Sampling Date: 09/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 (SURFACE) (H402952-01)

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	09/29/2014	ND	1.88	94.0	2.00	7.85	
Toluene*	<0.050	0.050	09/29/2014	ND	1.79	89.4	2.00	9.27	
Ethylbenzene*	<0.050	0.050	09/29/2014	ND	1.66	83.2	2.00	8.60	
Total Xylenes*	<0.150	0.150	09/29/2014	ND	4.91	81.9	6.00	8.28	
Total BTX	<0.300	0.300	09/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/29/2014	ND	416	104	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	09/29/2014	ND	168	83.9	200	10.2	
DRO >C10-C28	<10.0	10.0	09/29/2014	ND	178	89.0	200	9.74	
EXT DRO >C28-C35	<10.0	10.0	09/29/2014	ND					

Surrogate: 1-Chlorooctane 88.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.6 % 63.6-154

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: 09/26/2014
Reported: 10/02/2014
Project Name: PLU BIG SINKS 017 H
Project Number: BOPCO
Project Location: UL-C SEC. 7, T25S, R31E

Sampling Date: 09/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 (1') (H402952-02)

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	09/30/2014	ND	1.77	88.6	2.00	7.32		
Toluene*	<0.050	0.050	09/30/2014	ND	1.65	82.3	2.00	8.58		
Ethylbenzene*	<0.050	0.050	09/30/2014	ND	1.53	76.6	2.00	8.91		
Total Xylenes*	<0.150	0.150	09/30/2014	ND	4.54	75.6	6.00	9.56		
Total BTEX	<0.300	0.300	09/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/29/2014	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	09/29/2014	ND	168	83.9	200	10.2	
DRO >C10-C28	<10.0	10.0	09/29/2014	ND	178	89.0	200	9.74	
EXT DRO >C28-C35	<10.0	10.0	09/29/2014	ND					

Surrogate: 1-Chlorooctane 88.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.4 % 63.6-154

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: 09/26/2014
Reported: 10/02/2014
Project Name: PLU BIG SINKS 017 H
Project Number: BOPCO
Project Location: UL-C SEC. 7, T25S, R31E

Sampling Date: 09/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 (2') (H402952-03)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2014	ND	1.77	88.6	2.00	7.32	
Toluene*	<0.050	0.050	09/30/2014	ND	1.65	82.3	2.00	8.58	
Ethylbenzene*	<0.050	0.050	09/30/2014	ND	1.53	76.6	2.00	8.91	
Total Xylenes*	<0.150	0.150	09/30/2014	ND	4.54	75.6	6.00	9.56	
Total BTEX	<0.300	0.300	09/30/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/29/2014	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	09/29/2014	ND	168	83.9	200	10.2	
DRO >C10-C28	<10.0	10.0	09/29/2014	ND	178	89.0	200	9.74	
EXT DRO >C28-C35	<10.0	10.0	09/29/2014	ND					

Surrogate: 1-Chlorooctane 90.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.8 % 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: 09/26/2014
Reported: 10/02/2014
Project Name: PLU BIG SINKS 017 H
Project Number: BOPCO
Project Location: UL-C SEC. 7, T25S, R31E

Sampling Date: 09/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 (SURFACE) (H402952-04)

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	09/30/2014	ND	1.77	88.6	2.00	7.32	
Toluene*	<0.050	0.050	09/30/2014	ND	1.65	82.3	2.00	8.58	
Ethylbenzene*	<0.050	0.050	09/30/2014	ND	1.53	76.6	2.00	8.91	
Total Xylenes*	<0.150	0.150	09/30/2014	ND	4.54	75.6	6.00	9.56	
Total BTX	<0.300	0.300	09/30/2014	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/29/2014	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	09/29/2014	ND	168	83.9	200	10.2	
DRO >C10-C28	2190	10.0	09/29/2014	ND	178	89.0	200	9.74	
EXT DRO >C28-C35	552	10.0	09/29/2014	ND					

Surrogate: 1-Chlorooctane 89.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 141 % 63.6-154

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Analytical Results For:

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

Received: 09/26/2014
Reported: 10/02/2014
Project Name: PLU BIG SINKS 017 H
Project Number: BOPCO
Project Location: UL-C SEC. 7, T25S, R31E

Sampling Date: 09/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 (1') (H402952-05)

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	09/30/2014	ND	1.77	88.6	2.00	7.32		
Toluene*	<0.050	0.050	09/30/2014	ND	1.65	82.3	2.00	8.58		
Ethylbenzene*	<0.050	0.050	09/30/2014	ND	1.53	76.6	2.00	8.91		
Total Xylenes*	<0.150	0.150	09/30/2014	ND	4.54	75.6	6.00	9.56		
Total BTX	<0.300	0.300	09/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/29/2014	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	09/29/2014	ND	168	83.9	200	10.2	
DRO >C10-C28	<10.0	10.0	09/29/2014	ND	178	89.0	200	9.74	
EXT DRO >C28-C35	25.2	10.0	09/29/2014	ND					

Surrogate: 1-Chlorooctane 88.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.6 % 63.6-154

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Received: 09/26/2014
Reported: 10/02/2014
Project Name: PLU BIG SINKS 017 H
Project Number: BOPCO
Project Location: UL-C SEC. 7, T25S, R31E

Sampling Date: 09/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 (2') (H402952-06)

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	09/30/2014	ND	1.77	88.6	2.00	7.32	
Toluene*	<0.050	0.050	09/30/2014	ND	1.65	82.3	2.00	8.58	
Ethylbenzene*	<0.050	0.050	09/30/2014	ND	1.53	76.6	2.00	8.91	
Total Xylenes*	<0.150	0.150	09/30/2014	ND	4.54	75.6	6.00	9.56	
Total BTX	<0.300	0.300	09/30/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/29/2014	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	09/29/2014	ND	168	83.9	200	10.2	
DRO >C10-C28	<10.0	10.0	09/29/2014	ND	178	89.0	200	9.74	
EXT DRO >C28-C35	<10.0	10.0	09/29/2014	ND					

Surrogate: 1-Chlorooctane 98.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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Received: 09/26/2014
Reported: 10/02/2014
Project Name: PLU BIG SINKS 017 H
Project Number: BOPCO
Project Location: UL-C SEC. 7, T25S, R31E

Sampling Date: 09/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 (3') (H402952-07)

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	09/30/2014	ND	1.77	88.6	2.00	7.32		
Toluene*	<0.050	0.050	09/30/2014	ND	1.65	82.3	2.00	8.58		
Ethylbenzene*	<0.050	0.050	09/30/2014	ND	1.53	76.6	2.00	8.91		
Total Xylenes*	<0.150	0.150	09/30/2014	ND	4.54	75.6	6.00	9.56		
Total BTEx	<0.300	0.300	09/30/2014	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	09/29/2014	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	09/29/2014	ND	168	83.9	200	10.2	
DRO >C10-C28	<10.0	10.0	09/29/2014	ND	178	89.0	200	9.74	
EXT DRO >C28-C35	<10.0	10.0	09/29/2014	ND					

Surrogate: 1-Chlorooctane 96.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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Received: 09/26/2014
Reported: 10/02/2014
Project Name: PLU BIG SINKS 017 H
Project Number: BOPCO
Project Location: UL-C SEC. 7, T25S, R31E

Sampling Date: 09/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 (4') (H402952-08)

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	09/30/2014	ND	1.77	88.6	2.00	7.32		
Toluene*	<0.050	0.050	09/30/2014	ND	1.65	82.3	2.00	8.58		
Ethylbenzene*	<0.050	0.050	09/30/2014	ND	1.53	76.6	2.00	8.91		
Total Xylenes*	<0.150	0.150	09/30/2014	ND	4.54	75.6	6.00	9.56		
Total BTX	<0.300	0.300	09/30/2014	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	09/29/2014	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	09/29/2014	ND	168	83.9	200	10.2	
DRO >C10-C28	<10.0	10.0	09/29/2014	ND	178	89.0	200	9.74	
EXT DRO >C28-C35	<10.0	10.0	09/29/2014	ND					

Surrogate: 1-Chlorooctane 86.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.6 % 63.6-154

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Received: 09/26/2014
Reported: 10/02/2014
Project Name: PLU BIG SINKS 017 H
Project Number: BOPCO
Project Location: UL-C SEC. 7, T25S, R31E

Sampling Date: 09/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 (5') (H402952-09)

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	09/30/2014	ND	1.77	88.6	2.00	7.32		
Toluene*	<0.050	0.050	09/30/2014	ND	1.65	82.3	2.00	8.58		
Ethylbenzene*	<0.050	0.050	09/30/2014	ND	1.53	76.6	2.00	8.91		
Total Xylenes*	<0.150	0.150	09/30/2014	ND	4.54	75.6	6.00	9.56		
Total BTEx	<0.300	0.300	09/30/2014	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	09/29/2014	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	09/29/2014	ND	168	83.9	200	10.2	
DRO >C10-C28	<10.0	10.0	09/29/2014	ND	178	89.0	200	9.74	
EXT DRO >C28-C35	<10.0	10.0	09/29/2014	ND					

Surrogate: 1-Chlorooctane 93.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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Received: 09/26/2014
Reported: 10/02/2014
Project Name: PLU BIG SINKS 017 H
Project Number: BOPCO
Project Location: UL-C SEC. 7, T25S, R31E

Sampling Date: 09/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 (6') (H402952-10)

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	09/30/2014	ND	1.77	88.6	2.00	7.32		
Toluene*	<0.050	0.050	09/30/2014	ND	1.65	82.3	2.00	8.58		
Ethylbenzene*	<0.050	0.050	09/30/2014	ND	1.53	76.6	2.00	8.91		
Total Xylenes*	<0.150	0.150	09/30/2014	ND	4.54	75.6	6.00	9.56		
Total BTEx	<0.300	0.300	09/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/29/2014	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	09/29/2014	ND	168	83.9	200	10.2	
DRO >C10-C28	<10.0	10.0	09/29/2014	ND	178	89.0	200	9.74	
EXT DRO >C28-C35	<10.0	10.0	09/29/2014	ND					

Surrogate: 1-Chlorooctane 97.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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Received: 09/26/2014
Reported: 10/02/2014
Project Name: PLU BIG SINKS 017 H
Project Number: BOPCO
Project Location: UL-C SEC. 7, T25S, R31E

Sampling Date: 09/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 (SURFACE) (H402952-11)

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	09/30/2014	ND	1.77	88.6	2.00	7.32	
Toluene*	<0.050	0.050	09/30/2014	ND	1.65	82.3	2.00	8.58	
Ethylbenzene*	<0.050	0.050	09/30/2014	ND	1.53	76.6	2.00	8.91	
Total Xylenes*	<0.150	0.150	09/30/2014	ND	4.54	75.6	6.00	9.56	
Total BTX	<0.300	0.300	09/30/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/29/2014	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	<50.0	50.0	09/29/2014	ND	168	83.9	200	10.2	
DRO >C10-C28	2370	50.0	09/29/2014	ND	178	89.0	200	9.74	
EXT DRO >C28-C35	668	50.0	09/29/2014	ND					

Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 265 % 63.6-154

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Received: 09/26/2014
Reported: 10/02/2014
Project Name: PLU BIG SINKS 017 H
Project Number: BOPCO
Project Location: UL-C SEC. 7, T25S, R31E

Sampling Date: 09/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 (1') (H402952-12)

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	09/30/2014	ND	1.77	88.6	2.00	7.32		
Toluene*	<0.050	0.050	09/30/2014	ND	1.65	82.3	2.00	8.58		
Ethylbenzene*	<0.050	0.050	09/30/2014	ND	1.53	76.6	2.00	8.91		
Total Xylenes*	<0.150	0.150	09/30/2014	ND	4.54	75.6	6.00	9.56		
Total BTEx	<0.300	0.300	09/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/29/2014	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	09/29/2014	ND	168	83.9	200	10.2	
DRO >C10-C28	<10.0	10.0	09/29/2014	ND	178	89.0	200	9.74	
EXT DRO >C28-C35	<10.0	10.0	09/29/2014	ND					

Surrogate: 1-Chlorooctane 95.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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Received: 09/26/2014
Reported: 10/02/2014
Project Name: PLU BIG SINKS 017 H
Project Number: BOPCO
Project Location: UL-C SEC. 7, T25S, R31E

Sampling Date: 09/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 (2') (H402952-13)

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	09/30/2014	ND	1.77	88.6	2.00	7.32		
Toluene*	<0.050	0.050	09/30/2014	ND	1.65	82.3	2.00	8.58		
Ethylbenzene*	<0.050	0.050	09/30/2014	ND	1.53	76.6	2.00	8.91		
Total Xylenes*	<0.150	0.150	09/30/2014	ND	4.54	75.6	6.00	9.56		
Total BTEx	<0.300	0.300	09/30/2014	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	09/29/2014	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	09/29/2014	ND	168	83.9	200	10.2	
DRO >C10-C28	<10.0	10.0	09/29/2014	ND	178	89.0	200	9.74	
EXT DRO >C28-C35	<10.0	10.0	09/29/2014	ND					

Surrogate: 1-Chlorooctane 96.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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Analytical Results For:

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

Received: 09/26/2014
Reported: 10/02/2014
Project Name: PLU BIG SINKS 017 H
Project Number: BOPCO
Project Location: UL-C SEC. 7, T25S, R31E

Sampling Date: 09/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 (3') (H402952-14)

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	09/30/2014	ND	1.77	88.6	2.00	7.32	
Toluene*	<0.050	0.050	09/30/2014	ND	1.65	82.3	2.00	8.58	
Ethylbenzene*	<0.050	0.050	09/30/2014	ND	1.53	76.6	2.00	8.91	
Total Xylenes*	<0.150	0.150	09/30/2014	ND	4.54	75.6	6.00	9.56	
Total BTX	<0.300	0.300	09/30/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/29/2014	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	09/29/2014	ND	168	83.9	200	10.2	
DRO >C10-C28	<10.0	10.0	09/29/2014	ND	178	89.0	200	9.74	
EXT DRO >C28-C35	<10.0	10.0	09/29/2014	ND					

Surrogate: 1-Chlorooctane 95.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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Received: 09/26/2014
Reported: 10/02/2014
Project Name: PLU BIG SINKS 017 H
Project Number: BOPCO
Project Location: UL-C SEC. 7, T25S, R31E

Sampling Date: 09/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 (SURFACE) (H402952-15)

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	09/30/2014	ND	1.77	88.6	2.00	7.32		
Toluene*	<0.050	0.050	09/30/2014	ND	1.65	82.3	2.00	8.58		
Ethylbenzene*	<0.050	0.050	09/30/2014	ND	1.53	76.6	2.00	8.91		
Total Xylenes*	<0.150	0.150	09/30/2014	ND	4.54	75.6	6.00	9.56		
Total BTEX	<0.300	0.300	09/30/2014	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/29/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/29/2014	ND	168	83.9	200	10.2	
DRO >C10-C28	3830	10.0	09/29/2014	ND	178	89.0	200	9.74	
EXT DRO >C28-C35	1040	10.0	09/29/2014	ND					

Surrogate: 1-Chlorooctane 97.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 180 % 63.6-154

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Received: 09/26/2014
Reported: 10/02/2014
Project Name: PLU BIG SINKS 017 H
Project Number: BOPCO
Project Location: UL-C SEC. 7, T25S, R31E

Sampling Date: 09/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 (1') (H402952-16)

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	10/01/2014	ND	1.50	75.1	2.00	0.577	
Toluene*	<0.050	0.050	10/01/2014	ND	1.45	72.6	2.00	2.03	
Ethylbenzene*	<0.050	0.050	10/01/2014	ND	1.36	68.2	2.00	1.90	
Total Xylenes*	<0.150	0.150	10/01/2014	ND	4.05	67.5	6.00	1.60	
Total BTX	<0.300	0.300	10/01/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	09/29/2014	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	09/29/2014	ND	168	83.9	200	10.2	
DRO >C10-C28	17.3	10.0	09/29/2014	ND	178	89.0	200	9.74	
EXT DRO >C28-C35	36.9	10.0	09/29/2014	ND					

Surrogate: 1-Chlorooctane 100 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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Received: 09/26/2014
Reported: 10/02/2014
Project Name: PLU BIG SINKS 017 H
Project Number: BOPCO
Project Location: UL-C SEC. 7, T25S, R31E

Sampling Date: 09/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 (2') (H402952-17)

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	10/01/2014	ND	1.50	75.1	2.00	0.577	
Toluene*	<0.050	0.050	10/01/2014	ND	1.45	72.6	2.00	2.03	
Ethylbenzene*	<0.050	0.050	10/01/2014	ND	1.36	68.2	2.00	1.90	
Total Xylenes*	<0.150	0.150	10/01/2014	ND	4.05	67.5	6.00	1.60	
Total BTX	<0.300	0.300	10/01/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/29/2014	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	09/29/2014	ND	168	83.9	200	10.2	
DRO >C10-C28	<10.0	10.0	09/29/2014	ND	178	89.0	200	9.74	
EXT DRO >C28-C35	<10.0	10.0	09/29/2014	ND					

Surrogate: 1-Chlorooctane 93.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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Received: 09/26/2014
Reported: 10/02/2014
Project Name: PLU BIG SINKS 017 H
Project Number: BOPCO
Project Location: UL-C SEC. 7, T25S, R31E

Sampling Date: 09/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 (SURFACE) (H402952-18)

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	10/01/2014	ND	1.50	75.1	2.00	0.577		
Toluene*	<0.050	0.050	10/01/2014	ND	1.45	72.6	2.00	2.03		
Ethylbenzene*	<0.050	0.050	10/01/2014	ND	1.36	68.2	2.00	1.90		
Total Xylenes*	<0.150	0.150	10/01/2014	ND	4.05	67.5	6.00	1.60		
Total BTEx	<0.300	0.300	10/01/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/29/2014	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	<50.0	50.0	09/29/2014	ND	168	83.9	200	10.2	
DRO >C10-C28	5620	50.0	09/29/2014	ND	178	89.0	200	9.74	
EXT DRO >C28-C35	2350	50.0	09/29/2014	ND					

Surrogate: 1-Chlorooctane 83.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 276 % 63.6-154

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Received: 09/26/2014
Reported: 10/02/2014
Project Name: PLU BIG SINKS 017 H
Project Number: BOPCO
Project Location: UL-C SEC. 7, T25S, R31E

Sampling Date: 09/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 (1') (H402952-19)

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	10/01/2014	ND	1.50	75.1	2.00	0.577		
Toluene*	<0.050	0.050	10/01/2014	ND	1.45	72.6	2.00	2.03		
Ethylbenzene*	<0.050	0.050	10/01/2014	ND	1.36	68.2	2.00	1.90		
Total Xylenes*	<0.150	0.150	10/01/2014	ND	4.05	67.5	6.00	1.60		
Total BTEX	<0.300	0.300	10/01/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/29/2014	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	09/29/2014	ND	190	94.8	200	2.35	
DRO >C10-C28	<10.0	10.0	09/29/2014	ND	208	104	200	2.12	
EXT DRO >C28-C35	<10.0	10.0	09/29/2014	ND					

Surrogate: 1-Chlorooctane 93.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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Received: 09/26/2014
Reported: 10/02/2014
Project Name: PLU BIG SINKS 017 H
Project Number: BOPCO
Project Location: UL-C SEC. 7, T25S, R31E

Sampling Date: 09/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 (2') (H402952-20)

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	10/01/2014	ND	1.50	75.1	2.00	0.577	
Toluene*	<0.050	0.050	10/01/2014	ND	1.45	72.6	2.00	2.03	
Ethylbenzene*	<0.050	0.050	10/01/2014	ND	1.36	68.2	2.00	1.90	
Total Xylenes*	<0.150	0.150	10/01/2014	ND	4.05	67.5	6.00	1.60	
Total BTEx	<0.300	0.300	10/01/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/29/2014	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	09/29/2014	ND	190	94.8	200	2.35	
DRO >C10-C28	<10.0	10.0	09/29/2014	ND	208	104	200	2.12	
EXT DRO >C28-C35	<10.0	10.0	09/29/2014	ND					

Surrogate: 1-Chlorooctane 95.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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Received: 09/26/2014
Reported: 10/02/2014
Project Name: PLU BIG SINKS 017 H
Project Number: BOPCO
Project Location: UL-C SEC. 7, T25S, R31E

Sampling Date: 09/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 6 (SURFACE) (H402952-21)

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	10/01/2014	ND	1.50	75.1	2.00	0.577	
Toluene*	<0.050	0.050	10/01/2014	ND	1.45	72.6	2.00	2.03	
Ethylbenzene*	<0.050	0.050	10/01/2014	ND	1.36	68.2	2.00	1.90	
Total Xylenes*	<0.150	0.150	10/01/2014	ND	4.05	67.5	6.00	1.60	
Total BTEX	<0.300	0.300	10/01/2014	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/29/2014	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	09/29/2014	ND	190	94.8	200	2.35	
DRO >C10-C28	35.3	10.0	09/29/2014	ND	208	104	200	2.12	
EXT DRO >C28-C35	18.9	10.0	09/29/2014	ND					

Surrogate: 1-Chlorooctane 98.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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Received: 09/26/2014
Reported: 10/02/2014
Project Name: PLU BIG SINKS 017 H
Project Number: BOPCO
Project Location: UL-C SEC. 7, T25S, R31E

Sampling Date: 09/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 6 (1') (H402952-22)

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	10/01/2014	ND	1.50	75.1	2.00	0.577		
Toluene*	<0.050	0.050	10/01/2014	ND	1.45	72.6	2.00	2.03		
Ethylbenzene*	<0.050	0.050	10/01/2014	ND	1.36	68.2	2.00	1.90		
Total Xylenes*	<0.150	0.150	10/01/2014	ND	4.05	67.5	6.00	1.60		
Total BTEx	<0.300	0.300	10/01/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/29/2014	ND	384	96.0	400	8.00		

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	09/29/2014	ND	190	94.8	200	2.35	
DRO >C10-C28	<10.0	10.0	09/29/2014	ND	208	104	200	2.12	
EXT DRO >C28-C35	<10.0	10.0	09/29/2014	ND					

Surrogate: 1-Chlorooctane 94.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 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: 09/26/2014
Reported: 10/02/2014
Project Name: PLU BIG SINKS 017 H
Project Number: BOPCO
Project Location: UL-C SEC. 7, T25S, R31E

Sampling Date: 09/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 6 (2') (H402952-23)

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	10/01/2014	ND	1.80	89.9	2.00	2.05		
Toluene*	<0.050	0.050	10/01/2014	ND	1.69	84.5	2.00	2.11		
Ethylbenzene*	<0.050	0.050	10/01/2014	ND	1.61	80.6	2.00	2.05		
Total Xylenes*	<0.150	0.150	10/01/2014	ND	4.81	80.2	6.00	2.07		
Total BTX	<0.300	0.300	10/01/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/29/2014	ND	384	96.0	400	8.00	

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	09/29/2014	ND	190	94.8	200	2.35	
DRO >C10-C28	<10.0	10.0	09/29/2014	ND	208	104	200	2.12	
EXT DRO >C28-C35	<10.0	10.0	09/29/2014	ND					

Surrogate: 1-Chlorooctane 98.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 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: 09/26/2014
Reported: 10/02/2014
Project Name: PLU BIG SINKS 017 H
Project Number: BOPCO
Project Location: UL-C SEC. 7, T25S, R31E

Sampling Date: 09/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 7 (SURFACE) (H402952-24)

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	10/01/2014	ND	1.80	89.9	2.00	2.05		
Toluene*	<0.050	0.050	10/01/2014	ND	1.69	84.5	2.00	2.11		
Ethylbenzene*	<0.050	0.050	10/01/2014	ND	1.61	80.6	2.00	2.05		
Total Xylenes*	<0.150	0.150	10/01/2014	ND	4.81	80.2	6.00	2.07		
Total BTX	<0.300	0.300	10/01/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/29/2014	ND	384	96.0	400	8.00		

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	09/29/2014	ND	190	94.8	200	2.35	
DRO >C10-C28	2090	10.0	09/29/2014	ND	208	104	200	2.12	
EXT DRO >C28-C35	710	10.0	09/29/2014	ND					

Surrogate: 1-Chlorooctane 97.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 147 % 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: 09/26/2014
Reported: 10/02/2014
Project Name: PLU BIG SINKS 017 H
Project Number: BOPCO
Project Location: UL-C SEC. 7, T25S, R31E

Sampling Date: 09/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 7 (1') (H402952-25)

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	10/01/2014	ND	1.80	89.9	2.00	2.05		
Toluene*	<0.050	0.050	10/01/2014	ND	1.69	84.5	2.00	2.11		
Ethylbenzene*	<0.050	0.050	10/01/2014	ND	1.61	80.6	2.00	2.05		
Total Xylenes*	<0.150	0.150	10/01/2014	ND	4.81	80.2	6.00	2.07		
Total BTX	<0.300	0.300	10/01/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/29/2014	ND	384	96.0	400	8.00		

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	09/30/2014	ND	190	94.8	200	2.35	
DRO >C10-C28	18.4	10.0	09/30/2014	ND	208	104	200	2.12	
EXT DRO >C28-C35	32.2	10.0	09/30/2014	ND					

Surrogate: 1-Chlorooctane 93.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 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: 09/26/2014
Reported: 10/02/2014
Project Name: PLU BIG SINKS 017 H
Project Number: BOPCO
Project Location: UL-C SEC. 7, T25S, R31E

Sampling Date: 09/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 7 (2') (H402952-26)

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	10/01/2014	ND	1.80	89.9	2.00	2.05		
Toluene*	<0.050	0.050	10/01/2014	ND	1.69	84.5	2.00	2.11		
Ethylbenzene*	<0.050	0.050	10/01/2014	ND	1.61	80.6	2.00	2.05		
Total Xylenes*	<0.150	0.150	10/01/2014	ND	4.81	80.2	6.00	2.07		
Total BTX	<0.300	0.300	10/01/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/29/2014	ND	384	96.0	400	8.00	

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	09/30/2014	ND	190	94.8	200	2.35	
DRO >C10-C28	<10.0	10.0	09/30/2014	ND	208	104	200	2.12	
EXT DRO >C28-C35	<10.0	10.0	09/30/2014	ND					

Surrogate: 1-Chlorooctane 93.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

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

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 Big Sinks 017H

Location UL-C Sec. 7, T25S, R31E

Project Reference

EPI Sampler Name Kirby Bingham

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

LAB I.D.

SAMPLE I.D.

4402952

SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS																		
			GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl ⁻)	SULFATES (SO ₄ ²⁻)	pH	TCLP	OTHER >>>
1 SP1 (Surface ¹)	G	1			X						X		25-Sep-14	11:20	X	X	X			
2 SP1 (1')	G	1			X						X		25-Sep-14	11:22	X	X	X			
3 SP1 (2')	G	1			X						X		25-Sep-14	11:25	X	X	X			
4 SP2 (Surface ¹)	G	1			X						X		25-Sep-14	1:15	X	X	X			
5 SP2 (1')	G	1			X						X		25-Sep-14	1:18	X	X	X			
6 SP2 (2')	G	1			X						X		25-Sep-14	1:22	X	X	X			
7 SP2 (3')	G	1			X						X		25-Sep-14	1:31	X	X	X			
8 SP2 (4')	G	1			X						X		25-Sep-14	1:32	X	X	X			
9 SP2 (5')	G	1			X						X		25-Sep-14	1:34	X	X	X			
10 SP2 (6')	G	1			X						X		25-Sep-14	1:36	X	X	X			

Sampler Relinquished:

Date 9-26-14

Received By:

Kirby Bingham

Date 9/26/14

Received By: (lab staff)

Checked By:

Relinquished by:

Date 9/26/14

Sample Cool & Intact

Yes

Checked By:

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

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 Big Sinks 017H

Location UL-C Sec. 7, T25S, R31E

Project Reference

EPI Sampler Name Kirby Bingham

Bill To

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

ANALYSIS REQUEST

Company Name		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 Big Sinks 017H		Location		UL-C Sec. 7, T25S, R31E		Project Reference		EPI Sampler Name		Kirby Bingham		BOPCO, L.P. Attn: Brad Blevins 522 W. Mermod, Suite 704 Carlsbad, NM 88220									
LAB I.D.		H402952		SAMPLE I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUND WATER		WASTEWATER		SOIL		CRUDE OIL		SLUDGE		OTHER:		ACID/BASE		ICE/COOL		OTHER		DATE		TIME		BTEX 8021B		TPH 8015M		CHLORIDES (Cl ⁻)		SULFATES (SO ₄ ²⁻)		pH		TCLP		OTHER >>>	
11		SP3 (Surface')		G		1								X								X						25-Sep-14		1:40		X		X		X									
12		SP3 (1')		G		1								X								X						25-Sep-14		1:41		X		X		X									
13		SP3 (2')		G		1								X								X						25-Sep-14		1:42		X		X		X									
14		SP3 (3')		G		1								X								X						25-Sep-14		1:43		X		X		X									
15		SP4 (Surface')		G		1								X								X						25-Sep-14		1:56		X		X		X									
16		SP4 (1')		G		1								X								X						25-Sep-14		1:57		X		X		X									
17		SP4 (2')		G		1								X								X						25-Sep-14		1:59		X		X		X									
18		SP5 (Surface')		G		1								X								X						25-Sep-14		2:15		X		X		X									
19		SP5 (1')		G		1								X								X						25-Sep-14		2:18		X		X		X									
20		SP5 (2')		G		1								X								X						25-Sep-14		2:20		X		X		X									

Sampler Relinquished:

Date 9-26-14

Received By:

Kirby Bingham

Date 9/26/14

Received By: (lab staff)

Relinquished by:

Time 3:55

Checked By: Brad Blevins

Delivered by:

-D.602

Sample Cool & Intact

Yes

No

Checked By:

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

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 Big Sinks 017H

Location UL-C Sec. 7, T25S, R31E

Project Reference

EPI Sampler Name Kirby Bingham

Bill To

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

ANALYSIS REQUEST

Company Name		Daniel Dominguez		<div>BOPCO, L.P. Attn: Brad Blevins 522 W. Mermod, Suite 704 Carlsbad, NM 88220</div>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
EPI Project Manager		P.O. BOX 1558																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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City, State, Zip		575-394-3481 / 575-394-2601																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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Sampler Relinquished:

Kirby Bingham

Relinquished by:

9/26/14

Time 1:00 am

Date 9/26/14

Time 3:55

Received By: [Signature]

Received By: (lab staff)

Sample Cdn & Intact

Checked By: [Signature]

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

#54

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

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

NAB/421039130		OPERATOR	<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> 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-JV-CVX-Big Sinks #017H AKA PLU Big Sinks 7-25-31 USA #1H Area 1		Facility Type: Exploration and Production		
Surface Owner: Federal		Mineral Owner: Federal		API No. 30-015-40447

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	7	25S	31E					Eddy

Latitude N 32.152162 Longitude W 103.818873

NATURE OF RELEASE

Type of Release: Crude Oil	Volume of Release: 8 bbls	Volume Recovered: None
Source of Release: Process relief valve	Date and Hour of Occurrence: Date between 2/10/13 and 2/13/14	Date and Hour of Discovery: 7/10/14 at 10:45 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.	

NM OIL CONSERVATION

If a Watercourse was Impacted, Describe Fully.*

ARTESIA DISTRICT

JUL 18 2014

Describe Cause of Problem and Remedial Action Taken.*

The release appeared to have come from a relief valve on one of the vessels in the process area.
The well 1st well was put on production on 2/10/13. The spill area is visible on a Google imagery dated 2/13/14.

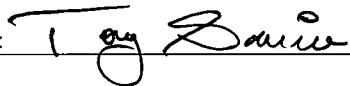
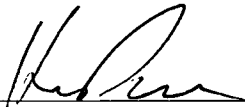
RECEIVED

Describe Area Affected and Cleanup Action Taken.*

The impacted area was discovered while doing a site assessment for a spill reported to EH&S on 6/17/14.
The release impacted approximately 1750 sq. ft. of pasture area that was cleared of vegetation during the tank battery and pad construction.
The spill area will be cleaned up in conjunction to another reportable spill at this location.

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

OIL CONSERVATION DIVISION

Signature: 	Approved by Environmental Specialist: 	
Printed Name: Tony Savoie	Approval Date: 7/29/14	Expiration Date: N/A
Title: Waste Management and Remediation Specialist	Conditions of Approval:	
E-mail Address: tasavoie@basspet.com	Conditions of Approval: Remediation Per O.C.D. Rule & Guidelines and like Approval by B.L.M.	Attached <input type="checkbox"/>
Date: 7/18/14 Phone: 432-556-8730		

* Attach Additional Sheets If Necessary

**SUBMIT REMEDIATION PROPOSAL NO
LATER THAN: 8/29/14**

RP2-2403

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

7AB1421034589		OPERATOR	<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> 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-JV-CVX-Big Sinks #017H AKA PLU Big Sinks 7-25-31 USA #1H Area 2		Facility Type: Exploration and Production		

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-40447
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LOCATION OF RELEASE

Unit Letter C	Section 7	Township 25S	Range 31E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
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Latitude N 32.151831 Longitude W 103.818964

NATURE OF RELEASE

Type of Release: Crude Oil and produced water	Volume of Release: 12 bbls. water and 8 bbls. crude oil	Volume Recovered: None
Source of Release: Free Water Knockout Sight glass	Date and Hour of Occurrence: Prior to 6/17/14	Date and Hour of Discovery: 6/17/14 at 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	

NM OIL CONSERVATION
ARTESIA DISTRICT

If a Watercourse was Impacted, Describe Fully.*

JUL 18 2014

Describe Cause of Problem and Remedial Action Taken.*

The release area was discovered by a BOPCO Lead Pumper. It appeared that the sight glass had been broken and repaired.

RECEIVED

Describe Area Affected and Cleanup Action Taken.*

The spill impacted approximately 900 sq.ft. of tank battery pad. The release also misted approximately 4500 sq.ft. of pasture area that had been cleared of vegetation during the tank battery pad construction.

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		OIL CONSERVATION DIVISION	
Printed Name: Tony Savoie		Approved by Environmental Specialist: H. Savoie	
Title: Waste Management and Remediation Specialist		Approval Date: 7/29/14	Expiration Date: N/A
E-mail Address: tasavoie@basspet.com		Conditions of Approval: Remediation Per O.C.D. Rule & Guidelines and like	
Date: 7/18/14 Phone: 432-556-8730		Approval by B.L.M. <input type="checkbox"/> Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

SUBMIT REMEDIATION PROPOSAL NO
LATER THAN: 8/29/14

RP2-2402

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

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Bopco, L.P.	Contact: Tony Savoie
Address: 522 W. Mermod, Suite 704 Carlsbad, NM 88220	Telephone No.: (575) 887-7329
Facility Name: PLU-JV-CVX-Big Sinks #017H AKA PLU Big Sinks 7-25-31 USA #1H - Area 1	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No.: 30-015-40447
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LOCATION OF RELEASE

Unit Letter C	Section 7	Township 25S	Range 31E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
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Latitude: N 32.152162 **Longitude:** W 103.818873

NATURE OF RELEASE

Type of Release: crude oil	Volume of Release: 8 bbls	Volume Recovered: none
Source of Release: relief valve	Date and Hour of Occurrence: between 2/10/13 and 2/13/14	Date and Hour of Discovery: 7/10/14 @ 10:45 am
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: Not Applicable	

Depth to Water. ~420 ft bgs

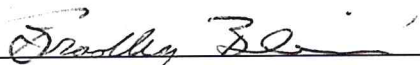
If a Watercourse was Impacted, Describe Fully.* Not Applicable

Describe Cause of Problem and Remedial Action Taken.*

The release appeared to have come from a relief valve on one of the vessels in the process area. The 1st well was put in production 2-10-13.

Describe Area Affected and Cleanup Action Taken.* The release impacted approximately 1,750 sq. ft. of pasture area that was cleared of vegetation during the tank battery and pad construction. The spill area has been cleaned up in conjunction to another reportable spill at this location. The release area was blended with clean soil in the immediate vicinity 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: 	OIL CONSERVATION DIVISION		
Printed Name: Brad Blevins	Approved by District Supervisor:		
Title: EHS Asst. Remediation Foreman	Approval Date:	Expiration Date:	
E-mail Address: bblevins@basspet.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 10-14-14 Phone: (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

Name of Company: Bopco, L.P.	Contact: Tony Savoie
Address: 522 W. Mermod, Suite 704 Carlsbad, NM 88220	Telephone No.: (575) 887-7329
Facility Name: PLU-JV-CVX-Big Sinks #017H AKA PLU Big Sinks 7-25-31 USA #1H - Area 2	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No.: 30-015-40447
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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
C	7	25S	31E					Eddy

Latitude: N 32.151831 **Longitude:** W 103.818964

NATURE OF RELEASE

Type of Release: crude oil and produced water	Volume of Release: 12 bbl water and 8 bbls crude oil	Volume Recovered: none
Source of Release: Free water knockout sight glass.	Date and Hour of Occurrence: prior to 6/17/14	Date and Hour of Discovery: 6/17/14 @ 9:00 am
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: Not Applicable	

Depth to Water. ~420 ft bgs

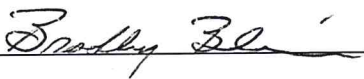
If a Watercourse was Impacted, Describe Fully.* Not Applicable

Describe Cause of Problem and Remedial Action Taken.*

The release area was discovered by a BOPCO Lead Pumper. It appeared that the sight glass had been broken and repaired.

Describe Area Affected and Cleanup Action Taken.* The spill impacted approximately 900 sq. ft. of tank battery pad. The release also misted approximately 4,500 sq. ft. of pasture area that had been cleared of vegetation during the tank battery pad construction. The spill area has been cleaned up in conjunction to another reportable spill at this location. The contaminated soil has been removed and hauled to state approved facility for disposal, and the excavation backfilled with clean soil. The pasture area has been blended with clean soil in the immediate vicinity 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: 		OIL CONSERVATION DIVISION	
Printed Name: Brad Blevins		Approved by District Supervisor:	
Title: EHS.Asst.-Remediation Foreman		Approval Date:	Expiration Date:
E-mail Address: bblevins@basspet.com		Conditions of Approval:	
Date: 10-14-14 Phone: (432) 214-3704		Attached <input type="checkbox"/>	

* **Attach Additional Sheets If Necessary**