

ENVIRONMENTAL PLUS, INC.

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



CLOSURE REPORT

BOPCO, LP
Poker Lake Unit #57
Eddy County, New Mexico
Unit Letter "N", Section 28, Township 25 South, Range 31 East
Latitude 32.094735 North, Longitude 103.785760 West
NMOCD Reference #2RP-1730

Prepared For:

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

Prepared By:

Environmental Plus Inc.
2100 Ave O
Eunice, NM 88231

November 2014

Daniel Dominguez
Project Manager



7 November 2014

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

RE: Final Closure Report
Bopco – Poker Lake Unit #57
UL-N, Section 28, Township 25 South, Range 31 East
Eddy County, New Mexico
NMOCD Reference # 2RP 1730

Mr. Bratcher:

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

Background Information:

The gasket failed on the heater treater fire tube. The gasket was replaced. Approximately 600 square feet of tank battery pad was affected by the release. The free standing fluid was recovered.

Remediation Activities:

EPI personnel mobilized on the site on October 6, 2014 to collect soil samples via hand auger to determine the vertical extent of contamination. A total of twenty-two (22) soil samples were collected from seven (7) sample locations. On October 14, 2014 one (1) soil sample was collected in the area of the pasture release; all samples were 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 SP6 indicates TPH and Chloride concentrations in excess of NMOCD RRALs at surface level with the Chloride level rising just over NMOCD RRALs at two (2) feet bgs then falling below NMOD RRALs at three (3) feet bgs. Sample SP7 indicates TPH concentrations in excess of NMOCD RRALs at surface level (reference *Figure 3* and *Table 2*).

From October 8-24, 2014 approximately 330 cubic yards of contaminated material were excavated and transported to Lea Land for disposal. The release areas were excavated to a depth of one (1) foot bgs.

Closure Activities:

The excavation was backfilled with approximately 188 yards of topsoil, 102 yards of caliche, and 40 yards of chat until the entire excavation was brought to grade with the existing pad area to protect against wind/water erosion. The disturbed area off the working location has been disced



and deep drill seeded with a mixture approved by the property owner.

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,

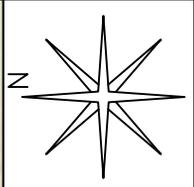
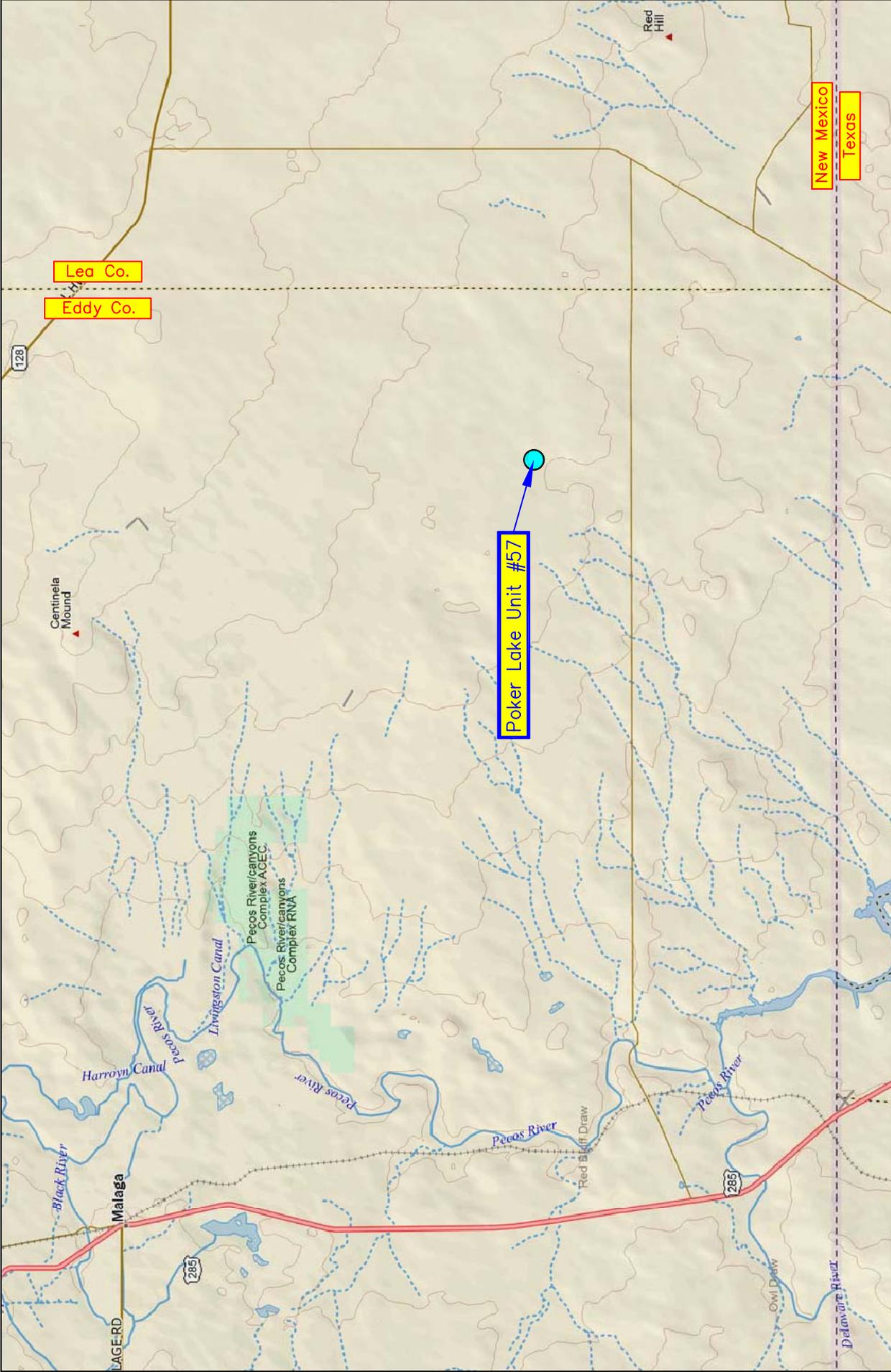
ENVIRONMENTAL PLUS, INC.

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, Final C-141

FIGURES



REVISED:

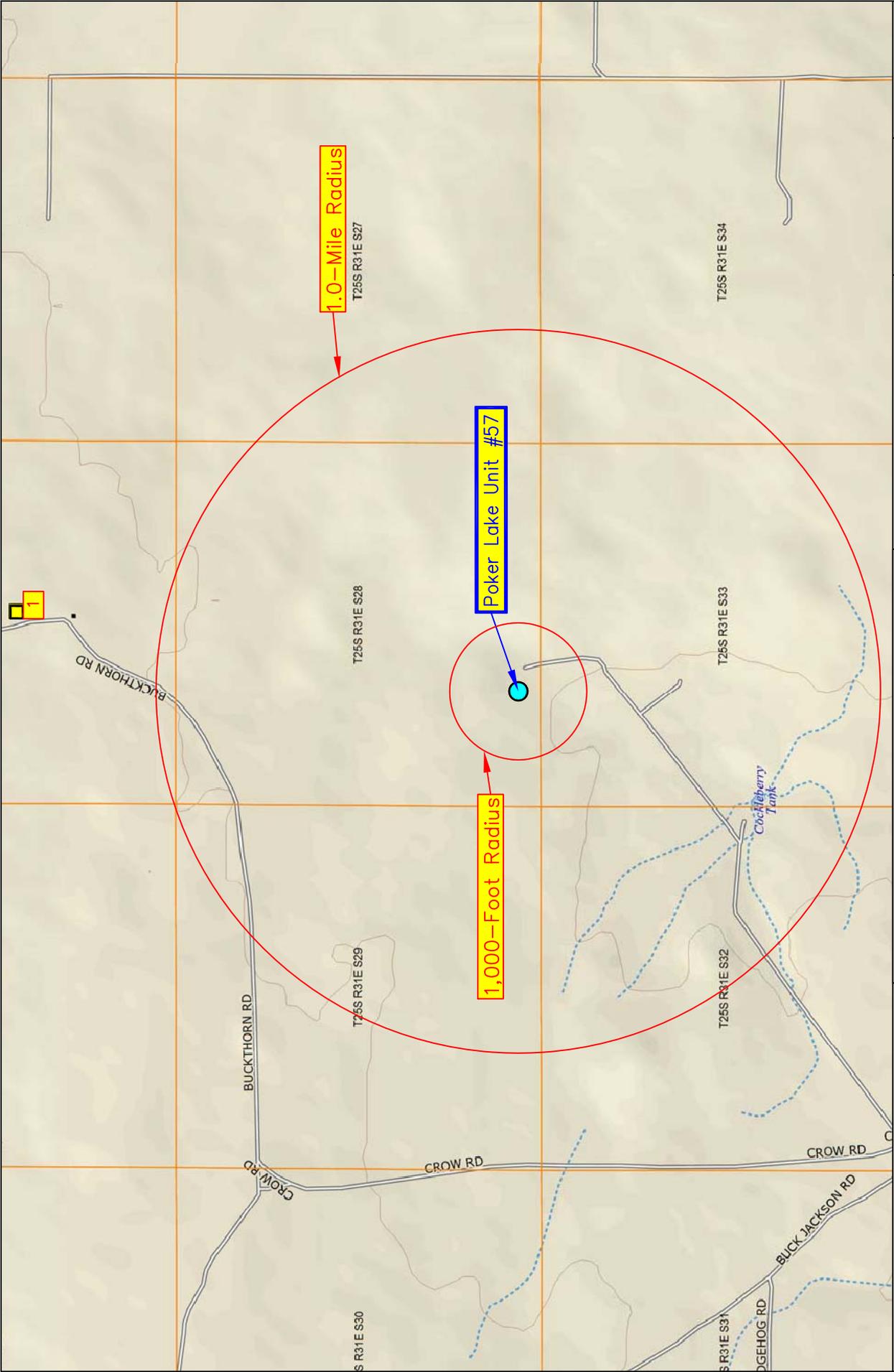
DWG By: D Dominguez
November 2014

0 3 6
Miles

SHEET
1 of 1

Eddy County, New Mexico
SE 1/4 of SW 1/4, Sec. 28, T25S, R31E
N 32° 5' 41.05" W 103° 47' 8.74"
Elevation: 3,316 feet amsl

Figure 1
Area Map
Bopco, L.P.
Poker Lake Unit #57



REVISED:

DWG By: D Dominguez
November 2014

0 2,000 4,000 SHEET
1 of 1

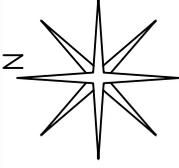
Feet

Eddy County, New Mexico
SE 1/4 of SW 1/4, Sec. 28, T25S, R31E
N 32° 5' 41.05" W 103° 47' 8.74"
Elevation: 3,316 feet amsl

Figure 2
Site Location Map
Bopco, L.P.
Poker Lake Unit #57



LEGEND	
XSP1	Sample Point

REVISED:	
DWG By: D Dominguez November 2014	SHEET 1 of 1
	60 Feet

Eddy County, New Mexico
 SE 1/4 of SW 1/4, Sec. 28, T25S, R31E
 N 32° 5' 41.05" W 103° 47' 8.74"
 Elevation: 3,316 feet amsl

Figure 3
 Site/Sample Map
 Bopco, L.P.
 Poker Lake Unit #57

TABLES

TABLE 1

Well Data

Bopco - Poker Lake Unit #57

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 02250	STK	3	Buck Jackson Trust	3	1	4	21	25S	31E	614912	3553620	31-Dec-41	3,372	390

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

^A = In acre feet per annum

^B = 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
Popco L.P.
Poker Lake Unit #57

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	06-Oct-14	1.4	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	16
	1	Excavated	06-Oct-14	1.1	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	32
	2	In Situ	06-Oct-14	1.7	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<16.0
SP2	Surface	Excavated	06-Oct-14	20.7	560	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	3,320	703	4,023	256
	1	Excavated	06-Oct-14	15.5	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1,070	247	1,317	16
	2	In Situ	06-Oct-14	1.8	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	128
SP3	Surface	Excavated	06-Oct-14	3.6	120	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	341	262	603	64
	1	Excavated	06-Oct-14	2.3	560	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	480
	2	In Situ	06-Oct-14	2.5	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	96
SP4	Surface	Excavated	06-Oct-14	3.3	--	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1,820	919	2,739	720
	1	Excavated	06-Oct-14	3.6	600	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	104	58.1	162.1	768
	2	In Situ	06-Oct-14	3.1	480	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	816
SP5	Surface	Excavated	06-Oct-14	3.3	800	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	516	289	805	832
	1	Excavated	06-Oct-14	2.7	320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	128
	2	In Situ	06-Oct-14	2.2	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	176
SP6	Surface	Excavated	06-Oct-14	6.0	1,120	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	8,120	4,040	12,160	1,180
	1	Excavated	06-Oct-14	4.4	620	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	170	120	290	608
	2	In Situ	06-Oct-14	2.8	620	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	1,070
SP7	3	In Situ	06-Oct-14	2.0	520	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	864
	Surface	Excavated	06-Oct-14	89.7	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	4,820	900	5,720	80
	1	Excavated	06-Oct-14	5.9	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	16
SP8	2	In Situ	06-Oct-14	2.4	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	336
	1.5	In Situ	14-Oct-14	--	360	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	80.1	84.3	164.4	<16.0
	NMOCD Recommended Remedial Action Levels			100	10						50				5,000

-- = 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 east across release area



Photograph #2 – Looking north-east across release area



Photograph #3 – Looking north across release area



Photograph #4 – Looking north across pasture area release



Photograph #5 – Excavated pasture area



Photograph #6 – Excavated area



Photograph #7 – Excavated area



Photograph #8 – Excavated area



Photograph #9 – Backfilled area



Photograph #10 – Backfilled area



Photograph #11 – Backfilled area



Photograph #12 – Backfilled pasture area

ATTACHMENT II
Laboratory Analytical Results

October 10, 2014

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: PLU #57

Enclosed are the results of analyses for samples received by the laboratory on 10/06/14 16:03.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/06/2014	Sampling Date:	10/06/2014
Reported:	10/10/2014	Sampling Type:	Soil
Project Name:	PLU #57	Sampling Condition:	Cool & Intact
Project Number:	BOPCO	Sample Received By:	Celey D. Keene
Project Location:	UL-N SEC. 28, T25S, R31E		

Sample ID: SP 1 (SURFACE) (H403059-01)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2014	ND	1.83	91.7	2.00	7.05	
Toluene*	<0.050	0.050	10/08/2014	ND	1.75	87.7	2.00	7.28	
Ethylbenzene*	<0.050	0.050	10/08/2014	ND	1.69	84.5	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/08/2014	ND	5.04	84.1	6.00	8.18	
Total BTEX	<0.300	0.300	10/08/2014	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	10/08/2014	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	10/07/2014	ND	176	88.2	200	4.12	
DRO >C10-C28	<10.0	10.0	10/07/2014	ND	180	90.2	200	3.18	
EXT DRO >C28-C35	<10.0	10.0	10/07/2014	ND					

Surrogate: 1-Chlorooctane 91.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.0 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/06/2014
 Reported: 10/10/2014
 Project Name: PLU #57
 Project Number: BOPCO
 Project Location: UL-N SEC. 28, T25S, R31E

 Sampling Date: 10/06/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP 1 (1') (H403059-02)

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	10/08/2014	ND	1.83	91.7	2.00	7.05	
Toluene*	<0.050	0.050	10/08/2014	ND	1.75	87.7	2.00	7.28	
Ethylbenzene*	<0.050	0.050	10/08/2014	ND	1.69	84.5	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/08/2014	ND	5.04	84.1	6.00	8.18	
Total BTEX	<0.300	0.300	10/08/2014	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	32.0	16.0	10/08/2014	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	10/07/2014	ND	176	88.2	200	4.12	
DRO >C10-C28	<10.0	10.0	10/07/2014	ND	180	90.2	200	3.18	
EXT DRO >C28-C35	<10.0	10.0	10/07/2014	ND					

Surrogate: 1-Chlorooctane 91.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 95.1 % 52.1-176

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/06/2014
 Reported: 10/10/2014
 Project Name: PLU #57
 Project Number: BOPCO
 Project Location: UL-N SEC. 28, T25S, R31E

 Sampling Date: 10/06/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP 1 (2') (H403059-03)

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	10/08/2014	ND	1.83	91.7	2.00	7.05	
Toluene*	<0.050	0.050	10/08/2014	ND	1.75	87.7	2.00	7.28	
Ethylbenzene*	<0.050	0.050	10/08/2014	ND	1.69	84.5	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/08/2014	ND	5.04	84.1	6.00	8.18	
Total BTEX	<0.300	0.300	10/08/2014	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	10/08/2014	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	10/10/2014	ND	176	88.2	200	4.12	
DRO >C10-C28	<10.0	10.0	10/10/2014	ND	180	90.2	200	3.18	
EXT DRO >C28-C35	<10.0	10.0	10/10/2014	ND					

Surrogate: 1-Chlorooctane 97.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 110 % 52.1-176

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/06/2014
 Reported: 10/10/2014
 Project Name: PLU #57
 Project Number: BOPCO
 Project Location: UL-N SEC. 28, T25S, R31E

 Sampling Date: 10/06/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP 2 (SURFACE) (H403059-04)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2014	ND	1.83	91.7	2.00	7.05	
Toluene*	<0.050	0.050	10/08/2014	ND	1.75	87.7	2.00	7.28	
Ethylbenzene*	<0.050	0.050	10/08/2014	ND	1.69	84.5	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/08/2014	ND	5.04	84.1	6.00	8.18	
Total BTEX	<0.300	0.300	10/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	256	16.0	10/08/2014	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	<50.0	50.0	10/07/2014	ND	176	88.2	200	4.12	
DRO >C10-C28	3320	50.0	10/07/2014	ND	180	90.2	200	3.18	
EXT DRO >C28-C35	703	50.0	10/07/2014	ND					

Surrogate: 1-Chlorooctane 102 % 47.2-157

Surrogate: 1-Chlorooctadecane 166 % 52.1-176

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*=Accredited Analyte

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 Received: 10/06/2014
 Reported: 10/10/2014
 Project Name: PLU #57
 Project Number: BOPCO
 Project Location: UL-N SEC. 28, T25S, R31E

 Sampling Date: 10/06/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP 2 (1') (H403059-05)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2014	ND	1.83	91.7	2.00	7.05	
Toluene*	<0.050	0.050	10/08/2014	ND	1.75	87.7	2.00	7.28	
Ethylbenzene*	<0.050	0.050	10/08/2014	ND	1.69	84.5	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/08/2014	ND	5.04	84.1	6.00	8.18	
Total BTEX	<0.300	0.300	10/08/2014	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	10/08/2014	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	10/07/2014	ND	176	88.2	200	4.12	
DRO >C10-C28	1070	10.0	10/07/2014	ND	180	90.2	200	3.18	
EXT DRO >C28-C35	247	10.0	10/07/2014	ND					

Surrogate: 1-Chlorooctane 89.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 117 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/06/2014	Sampling Date:	10/06/2014
Reported:	10/10/2014	Sampling Type:	Soil
Project Name:	PLU #57	Sampling Condition:	Cool & Intact
Project Number:	BOPCO	Sample Received By:	Celey D. Keene
Project Location:	UL-N SEC. 28, T25S, R31E		

Sample ID: SP 2 (2') (H403059-06)

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	10/08/2014	ND	1.83	91.7	2.00	7.05	
Toluene*	<0.050	0.050	10/08/2014	ND	1.75	87.7	2.00	7.28	
Ethylbenzene*	<0.050	0.050	10/08/2014	ND	1.69	84.5	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/08/2014	ND	5.04	84.1	6.00	8.18	
Total BTEX	<0.300	0.300	10/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	128	16.0	10/08/2014	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	10/07/2014	ND	176	88.2	200	4.12	
DRO >C10-C28	<10.0	10.0	10/07/2014	ND	180	90.2	200	3.18	
EXT DRO >C28-C35	<10.0	10.0	10/07/2014	ND					

Surrogate: 1-Chlorooctane 92.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 97.4 % 52.1-176

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 Received: 10/06/2014
 Reported: 10/10/2014
 Project Name: PLU #57
 Project Number: BOPCO
 Project Location: UL-N SEC. 28, T25S, R31E

 Sampling Date: 10/06/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP 3 (SURFACE) (H403059-07)

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	10/08/2014	ND	1.83	91.7	2.00	7.05	
Toluene*	<0.050	0.050	10/08/2014	ND	1.75	87.7	2.00	7.28	
Ethylbenzene*	<0.050	0.050	10/08/2014	ND	1.69	84.5	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/08/2014	ND	5.04	84.1	6.00	8.18	
Total BTEX	<0.300	0.300	10/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	64.0	16.0	10/08/2014	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	<100	100	10/07/2014	ND	176	88.2	200	4.12	
DRO >C10-C28	341	100	10/07/2014	ND	180	90.2	200	3.18	
EXT DRO >C28-C35	262	100	10/07/2014	ND					

Surrogate: 1-Chlorooctane 80.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 141 % 52.1-176

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 Received: 10/06/2014
 Reported: 10/10/2014
 Project Name: PLU #57
 Project Number: BOPCO
 Project Location: UL-N SEC. 28, T25S, R31E

 Sampling Date: 10/06/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP 3 (1') (H403059-08)

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	10/08/2014	ND	1.83	91.7	2.00	7.05	
Toluene*	<0.050	0.050	10/08/2014	ND	1.75	87.7	2.00	7.28	
Ethylbenzene*	<0.050	0.050	10/08/2014	ND	1.69	84.5	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/08/2014	ND	5.04	84.1	6.00	8.18	
Total BTEX	<0.300	0.300	10/08/2014	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	480	16.0	10/08/2014	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	<50.0	50.0	10/07/2014	ND	184	91.9	200	0.0919	
DRO >C10-C28	<50.0	50.0	10/07/2014	ND	191	95.3	200	1.02	
EXT DRO >C28-C35	<50.0	50.0	10/07/2014	ND					

Surrogate: 1-Chlorooctane 94.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 99.3 % 52.1-176

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Received:	10/06/2014	Sampling Date:	10/06/2014
Reported:	10/10/2014	Sampling Type:	Soil
Project Name:	PLU #57	Sampling Condition:	Cool & Intact
Project Number:	BOPCO	Sample Received By:	Celey D. Keene
Project Location:	UL-N SEC. 28, T25S, R31E		

Sample ID: SP 3 (2') (H403059-09)

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	10/08/2014	ND	1.83	91.7	2.00	7.05	
Toluene*	<0.050	0.050	10/08/2014	ND	1.75	87.7	2.00	7.28	
Ethylbenzene*	<0.050	0.050	10/08/2014	ND	1.69	84.5	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/08/2014	ND	5.04	84.1	6.00	8.18	
Total BTEX	<0.300	0.300	10/08/2014	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	96.0	16.0	10/08/2014	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	<50.0	50.0	10/07/2014	ND	184	91.9	200	0.0919	
DRO >C10-C28	<50.0	50.0	10/07/2014	ND	191	95.3	200	1.02	
EXT DRO >C28-C35	<50.0	50.0	10/07/2014	ND					

Surrogate: 1-Chlorooctane 87.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 89.7 % 52.1-176

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 Received: 10/06/2014
 Reported: 10/10/2014
 Project Name: PLU #57
 Project Number: BOPCO
 Project Location: UL-N SEC. 28, T25S, R31E

 Sampling Date: 10/06/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP 4 (SURFACE) (H403059-10)

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	10/08/2014	ND	1.83	91.7	2.00	7.05	
Toluene*	<0.050	0.050	10/08/2014	ND	1.75	87.7	2.00	7.28	
Ethylbenzene*	<0.050	0.050	10/08/2014	ND	1.69	84.5	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/08/2014	ND	5.04	84.1	6.00	8.18	
Total BTEX	<0.300	0.300	10/08/2014	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	720	16.0	10/08/2014	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	<200	200	10/07/2014	ND	184	91.9	200	0.0919	
DRO >C10-C28	1820	200	10/07/2014	ND	191	95.3	200	1.02	
EXT DRO >C28-C35	919	200	10/07/2014	ND					

Surrogate: 1-Chlorooctane 84.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 146 % 52.1-176

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 Received: 10/06/2014
 Reported: 10/10/2014
 Project Name: PLU #57
 Project Number: BOPCO
 Project Location: UL-N SEC. 28, T25S, R31E

 Sampling Date: 10/06/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP 4 (1') (H403059-11)

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	10/08/2014	ND	1.83	91.7	2.00	7.05	
Toluene*	<0.050	0.050	10/08/2014	ND	1.75	87.7	2.00	7.28	
Ethylbenzene*	<0.050	0.050	10/08/2014	ND	1.69	84.5	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/08/2014	ND	5.04	84.1	6.00	8.18	
Total BTEX	<0.300	0.300	10/08/2014	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	768	16.0	10/08/2014	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	<50.0	50.0	10/08/2014	ND	184	91.9	200	0.0919	
DRO >C10-C28	104	50.0	10/08/2014	ND	191	95.3	200	1.02	
EXT DRO >C28-C35	58.1	50.0	10/08/2014	ND					

Surrogate: 1-Chlorooctane 93.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 103 % 52.1-176

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Received:	10/06/2014	Sampling Date:	10/06/2014
Reported:	10/10/2014	Sampling Type:	Soil
Project Name:	PLU #57	Sampling Condition:	Cool & Intact
Project Number:	BOPCO	Sample Received By:	Celey D. Keene
Project Location:	UL-N SEC. 28, T25S, R31E		

Sample ID: SP 4 (2') (H403059-12)

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	10/08/2014	ND	1.83	91.7	2.00	7.05	
Toluene*	<0.050	0.050	10/08/2014	ND	1.75	87.7	2.00	7.28	
Ethylbenzene*	<0.050	0.050	10/08/2014	ND	1.69	84.5	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/08/2014	ND	5.04	84.1	6.00	8.18	
Total BTEX	<0.300	0.300	10/08/2014	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	816	16.0	10/08/2014	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	10/08/2014	ND	184	91.9	200	0.0919	
DRO >C10-C28	<10.0	10.0	10/08/2014	ND	191	95.3	200	1.02	
EXT DRO >C28-C35	<10.0	10.0	10/08/2014	ND					

Surrogate: 1-Chlorooctane 99.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 96.9 % 52.1-176

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 Received: 10/06/2014
 Reported: 10/10/2014
 Project Name: PLU #57
 Project Number: BOPCO
 Project Location: UL-N SEC. 28, T25S, R31E

 Sampling Date: 10/06/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP 5 (SURFACE) (H403059-13)

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	10/08/2014	ND	1.83	91.7	2.00	7.05	
Toluene*	<0.050	0.050	10/08/2014	ND	1.75	87.7	2.00	7.28	
Ethylbenzene*	<0.050	0.050	10/08/2014	ND	1.69	84.5	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/08/2014	ND	5.04	84.1	6.00	8.18	
Total BTEX	<0.300	0.300	10/08/2014	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	832	16.0	10/08/2014	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	<100	100	10/08/2014	ND	184	91.9	200	0.0919	
DRO >C10-C28	516	100	10/08/2014	ND	191	95.3	200	1.02	
EXT DRO >C28-C35	289	100	10/08/2014	ND					

Surrogate: 1-Chlorooctane 84.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 123 % 52.1-176

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 Received: 10/06/2014
 Reported: 10/10/2014
 Project Name: PLU #57
 Project Number: BOPCO
 Project Location: UL-N SEC. 28, T25S, R31E

 Sampling Date: 10/06/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP 5 (1') (H403059-14)

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	10/08/2014	ND	1.82	90.9	2.00	7.96	
Toluene*	<0.050	0.050	10/08/2014	ND	1.73	86.7	2.00	8.96	
Ethylbenzene*	<0.050	0.050	10/08/2014	ND	1.67	83.5	2.00	9.71	
Total Xylenes*	<0.150	0.150	10/08/2014	ND	5.00	83.4	6.00	9.86	
Total BTEX	<0.300	0.300	10/08/2014	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	128	16.0	10/08/2014	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	10/08/2014	ND	184	91.9	200	0.0919	
DRO >C10-C28	<10.0	10.0	10/08/2014	ND	191	95.3	200	1.02	
EXT DRO >C28-C35	<10.0	10.0	10/08/2014	ND					

Surrogate: 1-Chlorooctane 94.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 96.9 % 52.1-176

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Analytical Results For:

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 Received: 10/06/2014
 Reported: 10/10/2014
 Project Name: PLU #57
 Project Number: BOPCO
 Project Location: UL-N SEC. 28, T25S, R31E

 Sampling Date: 10/06/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP 5 (2') (H403059-15)

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	10/09/2014	ND	1.82	90.9	2.00	7.96	
Toluene*	<0.050	0.050	10/09/2014	ND	1.73	86.7	2.00	8.96	
Ethylbenzene*	<0.050	0.050	10/09/2014	ND	1.67	83.5	2.00	9.71	
Total Xylenes*	<0.150	0.150	10/09/2014	ND	5.00	83.4	6.00	9.86	
Total BTEX	<0.300	0.300	10/09/2014	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	176	16.0	10/08/2014	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	10/08/2014	ND	184	91.9	200	0.0919	
DRO >C10-C28	<10.0	10.0	10/08/2014	ND	191	95.3	200	1.02	
EXT DRO >C28-C35	<10.0	10.0	10/08/2014	ND					

Surrogate: 1-Chlorooctane 96.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 102 % 52.1-176

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 Received: 10/06/2014
 Reported: 10/10/2014
 Project Name: PLU #57
 Project Number: BOPCO
 Project Location: UL-N SEC. 28, T25S, R31E

 Sampling Date: 10/06/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP 6 (SURFACE) (H403059-16)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	10/09/2014	ND	1.82	90.9	2.00	7.96	
Toluene*	<0.100	0.100	10/09/2014	ND	1.73	86.7	2.00	8.96	
Ethylbenzene*	<0.100	0.100	10/09/2014	ND	1.67	83.5	2.00	9.71	
Total Xylenes*	<0.300	0.300	10/09/2014	ND	5.00	83.4	6.00	9.86	
Total BTEX	<0.600	0.600	10/09/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	1180	16.0	10/08/2014	ND	416	104	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	<200	200	10/08/2014	ND	184	91.9	200	0.0919		
DRO >C10-C28	8120	200	10/08/2014	ND	191	95.3	200	1.02		
EXT DRO >C28-C35	4040	200	10/08/2014	ND						

Surrogate: 1-Chlorooctane 80.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 353 % 52.1-176

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 Received: 10/06/2014
 Reported: 10/10/2014
 Project Name: PLU #57
 Project Number: BOPCO
 Project Location: UL-N SEC. 28, T25S, R31E

 Sampling Date: 10/06/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP 6 (1') (H403059-17)

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	10/09/2014	ND	1.82	90.9	2.00	7.96	
Toluene*	<0.050	0.050	10/09/2014	ND	1.73	86.7	2.00	8.96	
Ethylbenzene*	<0.050	0.050	10/09/2014	ND	1.67	83.5	2.00	9.71	
Total Xylenes*	<0.150	0.150	10/09/2014	ND	5.00	83.4	6.00	9.86	
Total BTEX	<0.300	0.300	10/09/2014	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	608	16.0	10/08/2014	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	<50.0	50.0	10/08/2014	ND	184	91.9	200	0.0919	
DRO >C10-C28	170	50.0	10/08/2014	ND	191	95.3	200	1.02	
EXT DRO >C28-C35	120	50.0	10/08/2014	ND					

Surrogate: 1-Chlorooctane 87.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 120 % 52.1-176

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 Received: 10/06/2014
 Reported: 10/10/2014
 Project Name: PLU #57
 Project Number: BOPCO
 Project Location: UL-N SEC. 28, T25S, R31E

 Sampling Date: 10/06/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP 6 (2') (H403059-18)

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	10/09/2014	ND	1.82	90.9	2.00	7.96	
Toluene*	<0.050	0.050	10/09/2014	ND	1.73	86.7	2.00	8.96	
Ethylbenzene*	<0.050	0.050	10/09/2014	ND	1.67	83.5	2.00	9.71	
Total Xylenes*	<0.150	0.150	10/09/2014	ND	5.00	83.4	6.00	9.86	
Total BTEX	<0.300	0.300	10/09/2014	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	1070	16.0	10/08/2014	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	10/08/2014	ND	184	91.9	200	0.0919	
DRO >C10-C28	<10.0	10.0	10/08/2014	ND	191	95.3	200	1.02	
EXT DRO >C28-C35	<10.0	10.0	10/08/2014	ND					

Surrogate: 1-Chlorooctane 96.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 95.6 % 52.1-176

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 Received: 10/06/2014
 Reported: 10/10/2014
 Project Name: PLU #57
 Project Number: BOPCO
 Project Location: UL-N SEC. 28, T25S, R31E

 Sampling Date: 10/06/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP 6 (3') (H403059-19)

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	10/09/2014	ND	1.82	90.9	2.00	7.96	
Toluene*	<0.050	0.050	10/09/2014	ND	1.73	86.7	2.00	8.96	
Ethylbenzene*	<0.050	0.050	10/09/2014	ND	1.67	83.5	2.00	9.71	
Total Xylenes*	<0.150	0.150	10/09/2014	ND	5.00	83.4	6.00	9.86	
Total BTEX	<0.300	0.300	10/09/2014	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	864	16.0	10/08/2014	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	10/08/2014	ND	184	91.9	200	0.0919	
DRO >C10-C28	<10.0	10.0	10/08/2014	ND	191	95.3	200	1.02	
EXT DRO >C28-C35	<10.0	10.0	10/08/2014	ND					

Surrogate: 1-Chlorooctane 93.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 97.1 % 52.1-176

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 Received: 10/06/2014
 Reported: 10/10/2014
 Project Name: PLU #57
 Project Number: BOPCO
 Project Location: UL-N SEC. 28, T25S, R31E

 Sampling Date: 10/06/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP 7 (SURFACE) (H403059-20)

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	10/09/2014	ND	1.82	90.9	2.00	7.96	
Toluene*	<0.050	0.050	10/09/2014	ND	1.73	86.7	2.00	8.96	
Ethylbenzene*	<0.050	0.050	10/09/2014	ND	1.67	83.5	2.00	9.71	
Total Xylenes*	<0.150	0.150	10/09/2014	ND	5.00	83.4	6.00	9.86	
Total BTEX	<0.300	0.300	10/09/2014	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	80.0	16.0	10/08/2014	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	<50.0	50.0	10/08/2014	ND	184	91.9	200	0.0919	
DRO >C10-C28	4820	50.0	10/08/2014	ND	191	95.3	200	1.02	
EXT DRO >C28-C35	900	50.0	10/08/2014	ND					

Surrogate: 1-Chlorooctane 92.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 170 % 52.1-176

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 Received: 10/06/2014
 Reported: 10/10/2014
 Project Name: PLU #57
 Project Number: BOPCO
 Project Location: UL-N SEC. 28, T25S, R31E

 Sampling Date: 10/06/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP 7 (1') (H403059-21)

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	10/09/2014	ND	1.82	90.9	2.00	7.96	
Toluene*	<0.050	0.050	10/09/2014	ND	1.73	86.7	2.00	8.96	
Ethylbenzene*	<0.050	0.050	10/09/2014	ND	1.67	83.5	2.00	9.71	
Total Xylenes*	<0.150	0.150	10/09/2014	ND	5.00	83.4	6.00	9.86	
Total BTEX	<0.300	0.300	10/09/2014	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	10/08/2014	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	10/08/2014	ND	184	91.9	200	0.0919	
DRO >C10-C28	<10.0	10.0	10/08/2014	ND	191	95.3	200	1.02	
EXT DRO >C28-C35	<10.0	10.0	10/08/2014	ND					

Surrogate: 1-Chlorooctane 99.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 105 % 52.1-176

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 Received: 10/06/2014
 Reported: 10/10/2014
 Project Name: PLU #57
 Project Number: BOPCO
 Project Location: UL-N SEC. 28, T25S, R31E

 Sampling Date: 10/06/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP 7 (2') (H403059-22)

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	10/09/2014	ND	1.82	90.9	2.00	7.96	
Toluene*	<0.050	0.050	10/09/2014	ND	1.73	86.7	2.00	8.96	
Ethylbenzene*	<0.050	0.050	10/09/2014	ND	1.67	83.5	2.00	9.71	
Total Xylenes*	<0.150	0.150	10/09/2014	ND	5.00	83.4	6.00	9.86	
Total BTEX	<0.300	0.300	10/09/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	336	16.0	10/08/2014	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	10/08/2014	ND	184	91.9	200	0.0919	
DRO >C10-C28	<10.0	10.0	10/08/2014	ND	191	95.3	200	1.02	
EXT DRO >C28-C35	<10.0	10.0	10/08/2014	ND					

Surrogate: 1-Chlorooctane 100 % 47.2-157

Surrogate: 1-Chlorooctadecane 100 % 52.1-176

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- 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



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 Bleivins
 522 W. Mermod, Suite 704
 Carlsbad, NM 88220

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 #57
 Location: UL- N Sec. 28, T25S, R31E
 Project Reference:
 EPI Sampler Name: David Robinson

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl ⁻)	SULFATES (SO ₄ ²⁻)	pH	TCLP	OTHER >>>	PAH
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL										
H403059																					
11	SP4 (1')	G	1			X					X		06-Oct-14	10:26	X	X	X				
12	SP4 (2')	G	1			X					X		06-Oct-14	10:27	X	X	X				
13	SP5 (Surface)	G	1			X					X		06-Oct-14	10:55	X	X	X				
14	SP5 (1')	G	1			X					X		06-Oct-14	10:56	X	X	X				
15	SP5 (2')	G	1			X					X		06-Oct-14	10:57	X	X	X				
16	SP6 (Surface)	G	1			X					X		06-Oct-14	11:45	X	X	X				
17	SP6 (1')	G	1			X					X		06-Oct-14	11:46	X	X	X				
18	SP6 (2')	G	1			X					X		06-Oct-14	11:47	X	X	X				
19	SP6 (3')	G	1			X					X		06-Oct-14	12:25	X	X	X				
20	SP7 (Surface)	G	1			X					X		06-Oct-14	12:40	X	X	X				

Sampler Relinquished by: *David Robinson*

Relinquished by: *David Robinson*

Delivered by: *#54*

Date: *10/6/14* Time: *2:50 pm*

Received By: *David Robinson*

Date: *10/6/14* Time: *4:03*

Received By: *David Robinson*

Sample-Cool & Intact: Yes No

Checked By: *David Robinson*

NOTES: E-mail results to: ddominguezepi@gmail.com & bbleivins@basspet.com & tasavoie@basspet.com



October 17, 2014

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

RE: PLU #57

Enclosed are the results of analyses for samples received by the laboratory on 10/15/14 9:35.

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 style with a large, flowing "C" and "K".

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:	10/15/2014	Sampling Date:	10/14/2014
Reported:	10/17/2014	Sampling Type:	Soil
Project Name:	PLU #57	Sampling Condition:	Cool & Intact
Project Number:	AFE# 25932 PPO# 912103	Sample Received By:	Celey D. Keene
Project Location:	UL-N SEC. 28, T25S, R31E		

Sample ID: SP #8 [18"] (H403156-01)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2014	ND	1.82	90.9	2.00	6.29	
Toluene*	<0.050	0.050	10/16/2014	ND	1.70	85.1	2.00	6.51	
Ethylbenzene*	<0.050	0.050	10/16/2014	ND	1.60	80.1	2.00	6.78	
Total Xylenes*	<0.150	0.150	10/16/2014	ND	4.74	79.0	6.00	7.31	
Total BTEX	<0.300	0.300	10/16/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	10/15/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/17/2014	ND	178	88.8	200	2.04	
DRO >C10-C28	80.1	10.0	10/17/2014	ND	183	91.3	200	4.55	
EXT DRO >C28-C35	84.3	10.0	10/17/2014	ND					

Surrogate: 1-Chlorooctane 97.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 111 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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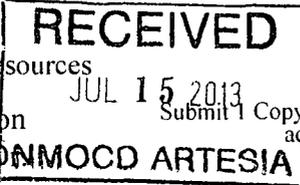


Celey D. Keene, Lab Director/Quality Manager

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
Santa Fe, NM 87505



Form C-141
Revised August 8, 2011

Release Notification and Corrective Action

nJMW 131984-7781

OPERATOR Initial Report Final Report

Name of Company: BOPCO, L.P. <i>260737</i>	Contact: Tony Savoie
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: PLU-57 Tank Battery	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-24269
------------------------	------------------------	----------------------

LOCATION OF RELEASE

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

Latitude N 32.094735 Longitude W 103.785760

NATURE OF RELEASE

Type of Release: Crude oil and produced water	Volume of Release: 3 bbls of crude oil and 15 bbls produced water	Volume Recovered: 2 bbls water
Source of Release: Heater Treater	Date and Hour of Occurrence: 6/7/13 time unknown	Date and Hour of Discovery: 6/7/13 1:00 p.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 failed on the heater treater fire tube. The gasket was replaced.		
Describe Area Affected and Cleanup Action Taken.* Approximately 600 sq.ft. of tank battery pad was affected by the release. The free standing fluid was recovered. The spill area will be remediated in accordance to the NMOCD and BLM 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>Mike Benavidez</i>	
Title: Waste Management and Remediation Specialist	Approval Date: JUL 17 2013	Expiration Date:
E-mail Address: <i>tasavoie@basspet.com</i>	Conditions of Approval: Remediation per OCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION	Attached <input type="checkbox"/>
Date: 7/14/13	Phone: 432-556-8730	

* Attach Additional Sheets If Necessary

PROPOSAL NO LATER THAN:
August 17, 2013

2RP-1730

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-57 Tank Battery	Facility Type: Exploration and Production
Surface Owner: Federal	Mineral Owner: Federal
API No.: 30-015-24269	

LOCATION OF RELEASE

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

Latitude: N 32.094735 Longitude: W 103.785760

NATURE OF RELEASE

Type of Release: crude oil and produced water	Volume of Release: 3 bbls of crude oil and 15 bbls produced water	Volume Recovered: 2 bbls water
Source of Release: heater treater	Date and Hour of Occurrence: 6/7/13 time unknown	Date and Hour of Discovery: 6/7/13 @ 1:00 pm
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. ~300 ft bgs		
If a Watercourse was Impacted, Describe Fully.* Not Applicable		
Describe Cause of Problem and Remedial Action Taken.* The gasket failed on the heater treater fire tube. The gasket was replaced.		
Describe Area Affected and Cleanup Action Taken.* Approximately 600 sq. ft. of tank battery pad was affected by the release. The free standing fluid was recovered. Contaminated soil has been excavated and hauled to a state approved disposal facility and the excavation has been backfilled with clean soil. The spill area has been remediated in accordance to the NMOCD and BLM guidelines.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: 	<u>OIL CONSERVATION DIVISION</u>	
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: <u>11-12-14</u> Phone: (432) 214-3704		

* Attach Additional Sheets If Necessary