Basin Environmental Service Technologies, LLC

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REMEDIATION SUMMARY & RISK-BASED SITE CLOSURE REQUEST

BOPCO, LP
POKER LAKE UNIT DELAWARE "C" TANK BATTERY
Eddy County, New Mexico
Unit Letter "G" (SW/NE), Section 6, Township 24 South, Range 30 East
Latitude 32.18191° North, Longitude 103.91429° West

Prepared For:

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

Prepared By:
Basin Environmental Service Technologies, LLC
3100 Plains Highway
Lovington, New Mexico 88260

August 2011

Ben J. Arguijo Project Manager

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1.0 INTRODUCTION

Basin Environmental Service Technologies, LLC (Basin Environmental), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary & Risk-Based Site Closure Request* for the release site known as Poker Lake Unit (PLU) Delaware "C" Tank Battery. The legal description of the release site is Unit Letter "G" (SW/NE), Section 6, Township 24 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.18191° North latitude and 103.91429° West longitude. The property affected by the release is owned by The United States Department of the Interior - Bureau of Land Management (BLM). Please reference Figure 1 for a "Site Location Map".

On September 28, 2009, BOPCO discovered a release had occurred at the PLU Delaware "C" Tank Battery. The transfer pump on the produced water tank malfunctioned, resulting in a release of produced water and crude oil. The release was contained inside the tank battery. The free-standing fluids were removed via the use of a vacuum truck. The release was reported to the New Mexico Oil Conservation Division (NMOCD) Artesia District Office on September 28, 2009. The Release Notification and Corrective Action (Form C-141) indicated approximately sixty barrels (60 bbls) of produced water and less than five barrels (<5 bbls) of crude oil were released. Approximately fifty barrels (50 bbls) of produced water and crude oil were recovered.

On May 13, 2010, BOPCO discovered an additional release had occurred at the PLU Delaware "C" Tank Battery. A transfer pump malfunctioned, resulting in a release of produced water and crude oil. The release was confined inside the tank battery. The free-standing fluids were removed via the use of a vacuum truck. The release was reported to the NMOCD Artesia District Office on May 13, 2010. The Form C-141 indicated approximately three hundred and twenty barrels (320 bbls) of produced water and approximately eight barrels (8 bbls) of crude oil were released. Approximately three hundred barrels (300 bbls) of produced water and approximately eight barrels (8 bbls) of crude oil were recovered.

The Forms C-141 for both the September 28, 2009, and May 13, 2010, releases are provided as Appendix A. Remediation activities for both releases were conducted simultaneously. General photographs are provided as Appendix B.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information was unavailable for Section 6, Township 24 South, Range 30 East. A depth-to-groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately one hundred and seventy five feet (175') below ground surface (bgs). Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of the depth-to-groundwater criterion.

A search of the NMWRRS database indicated there are no water wells within one thousand feet (1,000') of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

There are no surface water bodies within one thousand feet (1,000') of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

NMOCD guidelines indicate the PLU Delaware "C" Tank Battery release site has an initial ranking score of zero (0). The soil remediation levels for a site with a ranking score of zero (0) points are as follows:

- Benzene 10 mg/kg (ppm)
- BTEX -50 mg/kg (ppm)
- TPH 5,000 mg/kg (ppm)

The New Mexico Administrative Code (NMAC) does not currently specify a remediation level for chloride concentrations in soil. Chloride remediation levels are set by the NMOCD on a site-specific basis.

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On September 30, 2009, three (3) soil samples (#7, #8, and #13) were collected from inside the containment area of the PLU Delaware "C" Tank Battery and submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis. Soil sample #7 was analyzed for concentrations of chlorides and benzene, toluene, ethylbenzene, and xylene (BTEX) using EPA Methods 4500 Cl-B and SW-846 8021b, respectively. Soil samples #8 and #13 were analyzed for concentrations of total petroleum hydrocarbons (TPH) using EPA Method SW-846 8015M. Laboratory analytical results indicated the chloride concentration in soil sample #7 was 2,480 mg/Kg, the benzene concentration was 0.101 mg/Kg, and the BTEX concentration was 10.441 mg/Kg. TPH concentrations ranged from 7,670 mg/Kg in soil sample #8 to 13,140 mg/Kg in soil sample #13. Table 1 summarizes the "Concentrations of Benzene, BTEX, TPH & Chlorides in Soil". A "Site & Sample Location Map" is provided as Figure 2. Laboratory analytical reports are provided as Appendix D.

On May 24, 2010, one (1) soil boring (SB-1) was advanced to evaluate the vertical extent of contamination at the site. Soil samples were collected at five foot (5') drilling intervals and field screened using a Photo-Ionization Detector (PID) and chloride test kit. Selected soil samples were submitted to Cardinal Laboratories for analysis of TPH, BTEX, and/or chloride concentrations. The soil boring log is provided as Appendix C.

Soil boring SB-1 was located inside the containment area, on the southeast side of the tank battery. The soil boring was advanced to a total depth of approximately eighty feet (80') bgs. Soil samples collected at five feet (5'), ten feet (10'), twenty feet (20'), thirty (30'), forty feet (40'), fifty feet (50'), sixty feet (60'), seventy feet (70'), seventy-five feet (75') and eighty feet (80') bgs were submitted to the laboratory for determination of concentrations of BTEX, TPH, and/or chlorides. Laboratory analytical results indicted BTEX constituent concentrations were less than the appropriate laboratory method detection limit (MDL) for each of the submitted soil samples, with the exception of SB-1 @ 5', which exhibited a BTEX concentration of 1.096 mg/Kg. TPH concentrations ranged from less than the appropriate laboratory MDL in soil samples SB-1 @ 30', SB-1 @ 70', and SB-1 @ 75' to 2,049 mg/Kg in soil sample SB-1 @ 5'. Chloride concentrations ranged from 80 mg/Kg in soil sample SB-1 @ 75' to 2,200 mg/Kg in soil sample

SB-1 @ 60'. Review of laboratory analytical results indicated benzene, BTEX, and TPH concentrations are less than the NMOCD regulatory standard.

A background soil sample (Background) was also collected in order to establish the baseline concentration of chlorides in the area. Laboratory analytical results indicated the chloride concentration was less than the laboratory MDL in soil sample Background.

On February 16, 2011, excavation of impacted soil commenced at the site. Pursuant to the *Remediation Summary and Risk-Based Closure Strategy* dated August 2010, from February 16 through April 8, 2011, approximately twelve (12) to eighteen inches (18") of heavily saturated soil was removed from inside the containment area of the tank battery. Final dimensions of the excavated area measured approximately four thousand and one hundred square feet (4,100 ft²). The excavated soil was stockpiled on-site, pending final disposition.

Clean, crushed caliche was used to backfill and level the excavated area to a depth approximately six inches (6") below the original ground surface. A new, larger containment area was constructed, which measures approximately eight thousand square feet (8,000 ft²) and includes steel perimeter walls extending approximately two feet (2') above ground surface.

The on-site production tanks were also emptied, cleaned, sandblasted, and inspected for holes.

On February 22, 2011, two (2) soil samples (#2 and #5) were collected from the floor of the excavation and submitted to the laboratory for analysis of TPH concentrations. Laboratory analytical results indicated TPH concentrations ranged from 7,498 mg/Kg in soil sample #5 to 17,110 mg/Kg in soil sample #2.

On February 24, 2011, five (5) soil samples (#1, #3, #4, #5, and #7) were collected from the floor of the excavation and submitted to the laboratory for analysis of TPH concentrations. Soil sample #4 was also submitted for analysis of BTEX concentrations. Laboratory analytical results indicated TPH concentrations ranged from 13.8 mg/Kg in soil sample #5 to 17,674 mg/Kg in soil sample #1. The benzene concentration in soil sample #4 was less than the laboratory MDL, while the BTEX concentration was 3.815 mg/Kg.

On March 2, 2011, one (1) soil sample (Stockpile) was collected from the stockpiled material onsite and submitted for analysis of TPH concentrations. Laboratory analytical results indicated the TPH concentration was 33,960 mg/Kg in soil sample Stockpile.

From April 10 through April 15, 2011, Titan Liner (Carlsbad, New Mexico) installed an impervious Titan[©] liner in the new containment area of the PLU Delaware "C" Tank Battery. The interiors of the on-site production tanks were also coated with an impermeable Titan[©] polyurethane coating.

From June 17 to June 20, 2011, approximately two hundred and twenty cubic yards (220 cy) of impacted soil was transported to Lea Land, Inc. (NMOCD Permit # WM-01-035) for disposal.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil samples were delivered to Cardinal Laboratories, Inc., of Hobbs, New Mexico, for BTEX, TPH, and/or chloride analyses using the methods described below:

- BTEX concentrations in accordance with EPA Method SW-846 8021b
- TPH concentrations in accordance with modified EPA Method SW-846 8015M
- Chloride concentrations in accordance with EPA Method SM 4500 Cl-B

4.2 Decontamination of Equipment

Cleaning of the sampling equipment was the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment was cleaned with Liqui-Nox® detergent and rinsed with distilled water.

4.3 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody form(s). These procedures were either transmitted with the laboratory reports or are on file at the laboratory

5.0 SITE CLOSURE REQUEST

Remediation activities conducted at the PLU Delaware "C" Tank Battery release site met the objectives set forth in the *Remediation Summary and Risk-Based Closure Strategy* dated August 2010. Basin Environmental recommends BOPCO provide the NMOCD Artesia District Office and the BLM a copy of this *Remediation Summary & Risk-Based Site Closure Request* and request the NMOCD grant site closure to the PLU Delaware "C" Tank Battery release site.

6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary & Risk-Based Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin Environmental has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Basin Environmental has not conducted an independent examination of the facts contained in referenced materials and statements. Basin Environmental has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Basin Environmental has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin Environmental notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of BOPCO, LP. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Service Technologies, LLC, and/or BOPCO, LP.

7.0 **DISTRIBUTION:**

Copy 1: Mike Bratcher

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division (District 2)

1301 E. Grand Avenue Artesia, NM 88210

Copy 2 James Amos

Bureau of Land Management

602 E. Greene Street Carlsbad, NM 88220

Copy 3: Tony Savoie

BOPCO, LP

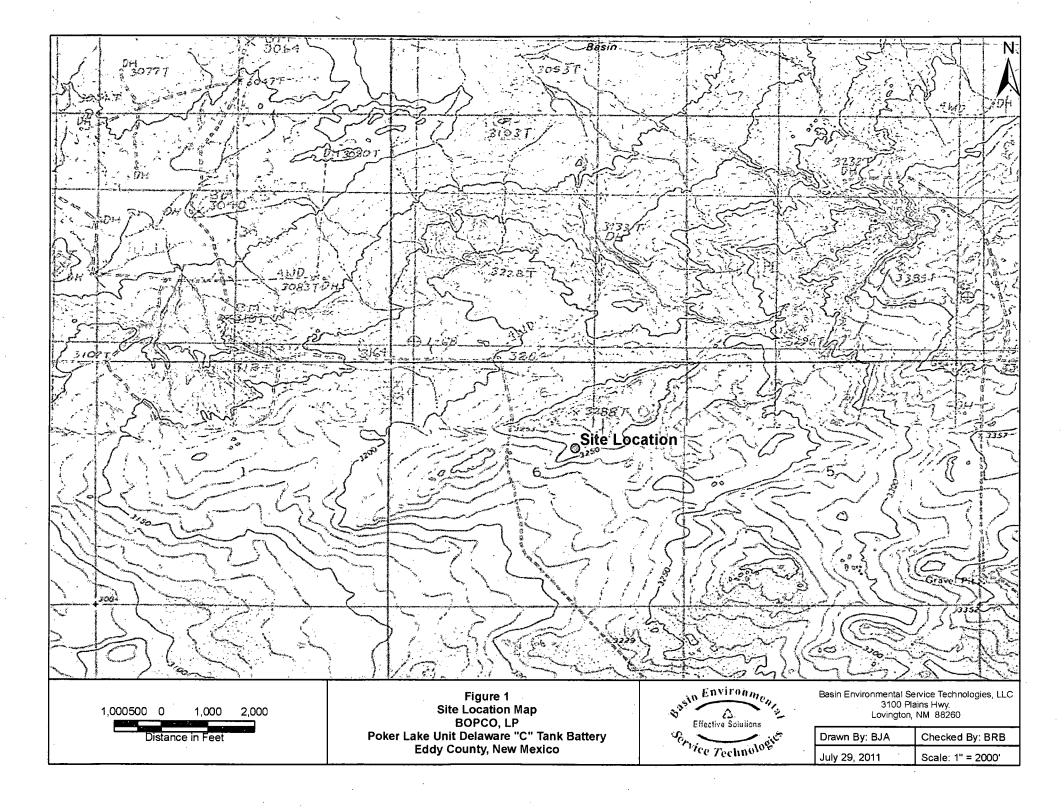
522 W. Mermod, Suite 704 Carlsbad, NM 88220

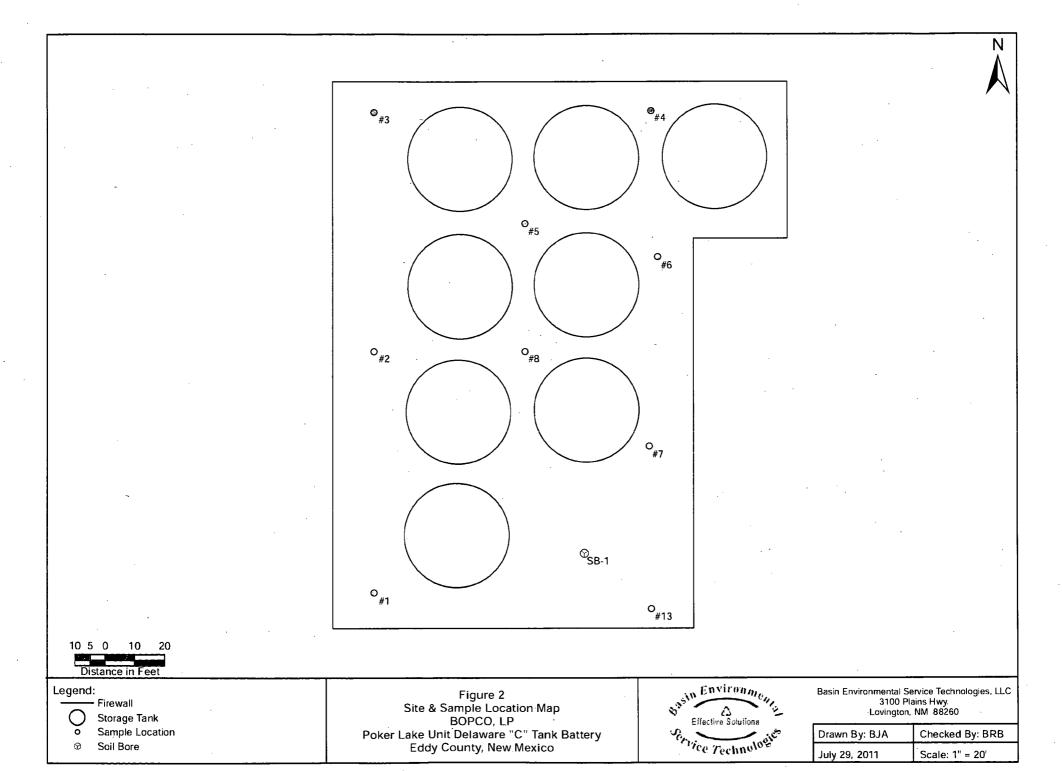
Copy 4: Basin Environmental Service Technologies, LLC

P.O. Box 301

Lovington, NM 88260

Figures





Tables

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDES IN SOIL

BOPCO, LP POKER LAKE UNIT DELAWARE "C" BATTERY EDDY COUNTY, NEW MEXICO

	SAMPLE				METHOD: EI	A SW 846-80	21B, 5030		ME	THOD: 801	5M	-0 -20 -0 -30	TOTAL	E 300
SAMPLE LOCATION	DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)		CHLORIDE (mg/Kg)	
#7	2'	9/30/2009	In-Situ	0.101	1.1	2.01	7.23	10.441	-	-	-	-	-	2,480
#8	1'	9/30/2009	In-Situ	-	-	-	-	-	1,000	6,670	-	7,670	-	-
#13	Surface	9/30/2009	In-Situ	-	-	-	-	-	4,150	8,990	-	13,140	-	-
1.10 内侧外侧侧 1.10 网络1.15kg·3		The same	BANGA X	-5700AC#88	. A	14 Th 12 1	陈某等数 45				\$10.50To	Sec. 325.36		A KIND
Background	Surface	5/24/2010	In-Situ	-	-	-	-	_	-	-	-	-	-	<16.0
SB-1 @ 5'	5'	5/24/2010	In-Situ	<0.050	<0.050	0.246 .	0.85	1.096	95.9	1,940	12.9	-	2,049	-
SB-1 @ 10'	10'	5/24/2010	In-Situ	-	-	-	-	-	-	-	-	-	-	1,090
SB-1 @ 20'	20'	5/24/2010	In-Situ	-	-	-	-	-	-	-	-	-	-	1,460
SB-1 @ 30'	30'	5/24/2010	In-Situ	<0.050	<0.050	<0.050	< 0.300	< 0.300	<10.0	<10.0	<10.0	-	<10.0	976
SB-1 @ 40'	40'	5/24/2010	In-Situ	-	-	-	-	-	-	-	-	-	-	1,040
SB-1 @ 50'	50'	5/24/2010	In-Situ	-		-	-	-	-	-	-	-	-	1,860
SB-1 @ 60'	60'	5/24/2010	In-Situ	-	-	-	-	-	-	-	-	-	-	2,200
SB-1 @ 70'	70'	5/24/2010	In-Situ	<0.050	<0.050	< 0.050	<0.300	< 0.300	<10.0	<10.0	<10.0	-	<10.0	368
SB-1 @ 75'	75'	5/24/2010	In-Situ	<0.050	<0.050	< 0.050	<0.300	< 0.300	<10.0	<10.0	<10.0	-	<10.0	80
SB-1 @ 80'	80'	5/24/2010	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	11.6	<10.0	-	11.6	256
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#2	1'	2/22/2011	In-situ	-	-	_	-	-	1,490	14,100	1,520	-	17,110	-
#5	1'	2/22/2011	In-situ	-	-	-	-		1,050	5,750	698	-	7,498	-
		S 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	以新了的证据。		WAND OF C	M. C. 1343.55		144 1	S Maria	17	68175	S 1 7 40	7 to 10 to 15.	14774.5%
#1	7'	2/24/2011	In-situ	-	-	-	-	-	3,880	12,900	894	-	17,674	-
#3	3'	2/24/2011	In-situ	-	-		-	-	593	4,180	327	-	5,100	-
#4	8'	2/24/2011	In-situ	<0.05	0.176	0.649	2.99	3.815	380	4,380	381	-	5,141	-
#5	6'	2/24/2011	In-situ	_	-	-	-	-	<10.0	13.8	<10.0	-	13.8	-
#7	6.5'	2/24/2011	In-situ	-	_	-	-	-	2,060	7,840	522	-	10,422	-
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- = Not analyzed.

Appendices

Appendix A Release Notification & Corrective Action (Form C-141)

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

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance

Form C-141

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

1220 S. St. Francis Dr., Santa Fc, NM 87505 **Release Notification and Corrective Action OPERATOR** Final Report Name of Company BOPCO, L.P. Contact Tony Savoie Telephone No. 432-556-8730 Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 Facility Name Poker Lake Delaware "C" Tank Battery Facility Type E&P Surface Owner Federal Mineral Owner Federal Lease No. LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County 248 30E Eddy 6 G Latitude_N 32.18191__ Longitude W 103.91429___ NATURE OF RELEASE Type of Release: Produced water and crude oil Volume of Release: 60 bbls Volume Recovered: 50 bbls total volume produced water and less than 5 bls' crude oil Source of Release: Tank Failure Date and Hour of Occurrence Date and Hour of Discovery 9/28/09, Hour unknown 9/28/09 8:00 a.m. If YES, To Whom? Was Immediate Notice Given? Artesia Emergency Phone Msg. System Msg. to Sherry Bonham and Mike Bratcher By Whom? Tony Savoie Date and Hour 9/28/09 11:55 a.m. Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* The produced water transfer pump electrical service had been damaged the day before, the produced water tank overflowed inside the earthen containment. All of the standing fluid was removed with a vacuum truck and placed back into the facility tankage, Describe Area Affected and Cleanup Action Taken.* An area measuring approximately 6,700 sq.ft. inside the tank containment was affected by the produced water and crude oil. A crew was dispatched to the site on 9/30/09 to collect soil samples to try and delineate the vertical extent of the spill. The equipment on hand couldn't obtain samples deeper than 2 ft. below ground surface. Another sampling event will be scheduled for delineation purposes. The Site remediation for the produced water and crude oil spill will follow the NMOCD guidelines for leaks and spills. The facility will be retrofitted with a rhino-liner containment following the remediation. 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 District Supervisor: Printed Name: Tony Savoie Title: Waste Mgmt.& Remediation Specialist Approval Date: **Expiration Date:** E-mail Address: TASavoie@BassPet.com Conditions of Approval: Attached [

Phone:432-556-8730

Date: 10/12/09

^{*} Attach Additional Sheets If Necessary

District 1
1625 N. French Dr., Hobbs, NM 88240
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District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe. NM 87505

* Attach Additional Sheets If Necessary

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

			Rele	ease Notifica	atioi	n and Co	orrective A	ction	1			
						OPERA'	TOR		Initi	al Report		Final Report
Name of Co	ompany BO	OPCO, L.P.			T	Contact Tor						
			04 Carlsb	ad, N.M. 88220			No. 432-556-87	30				
				Tank Battery		Facility Typ	e E&P					
									T			
Surface Ow	mer Federa	ıl		Mineral O	wner l	ederal			Lease 1	No.		
				LOCA	TIO	N OF RE	LEASE					
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By Whom? 1	By Whom? Tony Savoic						lour 5/13/10 10:2	la.m.				
Was a Water	Was a Watercourse Reached?						lune Impacting t		ercourse.			
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I hereby certi	fy that the i	nformation gi	ven abovo	is true and comple	ete to ti	he best of my	knowledge and u	ndersta	nd that purs	suant to NM(OCD ru	les and
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Date: 5/27/10	١			Dhona(422 556 97	,,,,							
Date: 5/27/10	,			Phone:432-556-87	.50					1		

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State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 RECEIVED
Form C-141
Revised October 10, 2003
Submit 2 Copies to appropriate
District Office in accordance
NMOCD ARTESIAwith Rule 116 on back
side of form

Release Notification and Corrective Action

				·	OPE	RATOR		Initia	Report	X Final Report		
Name of Co	mpany	BOPCO, LI	· · · · · · · · · · · · · · · · · · ·	· ·		Contact To	ony Savoie					
				sbad, NM 8822	0		No. (432)556-87	730				
				Tank Battery		Facility Typ						
				·								
Surface Ow	ner Fede	ral		Mineral O	wner	Federal	<u> </u>	Lease	No.			
				LOCA	TIO	N OF REI	LEASE			· · · · · · · · · · · · · · · · · · ·		
Unit Letter	Section	·Township	Range	Feet from the	Nort	h/South Line	Feet from the	East/West Line	,			
G	6	24S	30E			•			Eddy			
			L.ati	tude 32.18191°	North		Longitude 103	R 01420° West				
		· .	Dau					5. 71427 WCSI				
T	Dd	- J J	1	NAI	UKE	C OF RELI		C 17/1	D 1	FO 1-1-4-4-1 -1		
1 ype of Refe	ase Produc	ed water and	crude on				Release 60 bbls water and <5 bbls		Recovered	50 bbls total volume		
						crude oil	vater and 5 oors					
Source of Re	lease Tank	c failure					lour of Occurrenc	e Date an	d Hour of Di	scovery '		
						9/28/09, U		9/28/20	09, 8:00 AM			
Was Immediate Notice Given?						If YES, To						
	X Yes No Not Required						nergency Phone M					
By Whom?	Tony Savoi	e .				Msg. to Sherry Bonham and Mike Bratcher Date and Hour 9/28/2009, 11:55 AM						
Was a Water					•		olume Impacting t					
			Yes >	K No				•		*		
If a Watercou	irse was lm	pacted, Descr	ibe Fully.	*								
			·						1			
Describe Cau	se of Proble	em and Remei	dial Action	1 Taken								
				vice had been dam	aged t	the day before,	and the produced	water tank over	lowed inside	the earthen		
containment.	All of the s	tanding fluid	was remov	ved with a vacuum								
		and Cleanup A										
				side the tank conta						on Summary & Risk-		
		est for remedi			as pei	тимось арр	iovai. Ficase ieie	rence the attach	м кетешин	on Summary & Risk-		
	•											
I hereby cert	ify that the	information g	given abov	e is true and com	plete	to the best of	my knowledge ar	nd understand th	at pursuant t	o NMOCD rules and		
regulations a	ll operators	are required	to report	and/or file certain	relea	se notification	s and perform con	rrective actions	for releases,	which may endanger		
should their	or the env operations b	ronment. In	e acceptar adequatel:	ice oi a C-141 rep v investigate and r	emed	y the NMOCD	marked as "Fina	u Report" does r vreat to ground v	iot relieve th	e operator of liability water, human health		
										iance with any other		
		ws and/or regu			·				,	J		
4	,		_				OIL CONS	SERVATIO	N DIVISI	<u>ON</u>		
Ciamatura	1	000	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	•					•			
Signature: 1 Day 2000						,	D :					
Printed Name: Tony Savoie						Approved by	District Superviso	or:				
Tid. W	M 0 D					A 1 Po -			D /			
Title: Waste	ivigmt. & R	temediation S	pecialist			Approval Dat	e: .	Expiratio	n Date:			
E-mail Addre	ess: TASavo	oie@BassPet.c	com			Conditions of Approval:						
Date: 12/6/20	011		P	hone: (432)556-87	30							

<u>District I</u> 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 RECEIVED

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

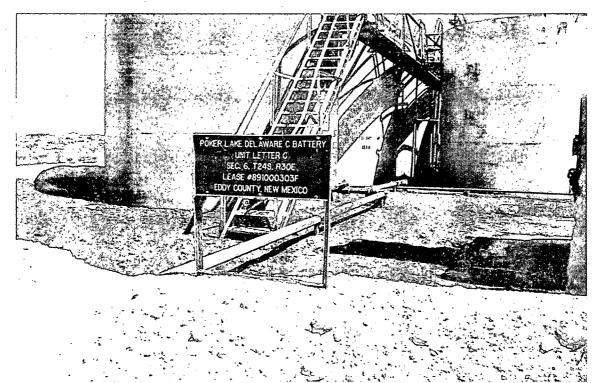
Form C-141 Revised October 10, 2003

DEC 21 2011 Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back side of form NMOCD ARTESIA

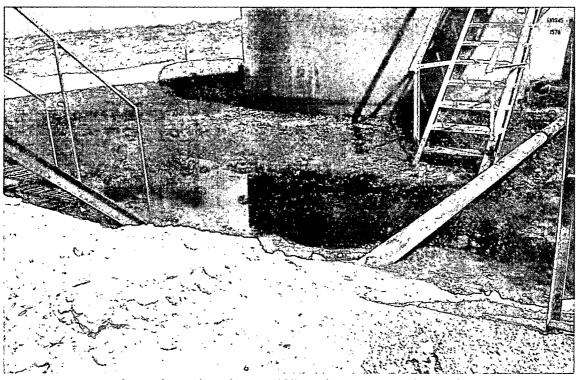
Release Notification and Corrective Action

					∩ DE	DATOD			T 1/2 1 T		W Eta	-1 D
Nama of Co		BOPCO, LI			OPE	Cantact To	my Cavaia		Initial I	ceport	X Fin	al Report
Name of Co Address 5				lsbad, NM 8822	_	Contact To	No. (432)556-8'	720				
				Tank Battery	.0	Facility Typ		/30	· · · · · · · · · · · · · · · · · · ·			
Facility Nan	ne rokei	Lake Delay	vale C	Talik Battery		racility Typ	e ear					
Surface Own	ner Feder	ral		Mineral O	wner	Federal			Lease N	lo.		
				LOCA	OIT	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the		h/South Line	Feet from the	East/V	Vest Line	County		
G	6	248	30E							Eddy		
							·					
	<u></u>		Latit	ude 32.248735°	North		Longitude 103	3. 9186′	71° West			
						E OF REL		.,,,,,,,	, , , , , , , , , , , , , , , , , , , ,			
Type of Relea	ase Produc	ed water and	crude oil	11121	OIG	Volume of		1	Volume F	Recovered		
Type of Rela	100 110000	ou water and	nade on				f produced water	i		of produced	d water	
				<u>. </u>		8 bbls of c			8 bbls of			
Source of Rel	ease 300	bbl produced	water tank	overflow		Date and I- Unknown	lour of Occurrenc	e		Hour of Di	scovery	
11, 1	Was Immediate Notice Given?						,		5/13/10, 8	3:00 AM		
was immedia	X Yes No Not Required					If YES, To Whom? Randy, NMOCD on-call operator						
By Whom?	Tony Savoi	ie		•	•		Hour 5/13/10, 10:	_				
	By Whom? Tony Savoie Was a Watercourse Reached?						olume Impacting t		ercourse			
Yes X No						125,						
If a Watercou	rse was Im	pacted, Descr	ibe Fully.	*		. I				-		
		•	•									
	CD 11		11 1 4									
		em and Remed		n Taken: imp malfunction. [The m	ain water trans	for numn foiled to	come o	n The nun	an was rese	at	
The produced	water tank	. Overnowed c	iuc to a pu	mp manunction.		ain water trails	iei pump ianed to	come o	ii. The pun	np was rest	<i>5</i> 1.	
Describe Area	Affected a	and Cleanup A	Action Tal	cen.		· · · · · · · · · · · · · · · · · · ·			· · ·			
The released	fluid affecte	ed an area app	roximatel	y 6,700 sq. ft insic	de the	earthen contair	ment around the	tanks. T	he free-sta	nding fluid	s were re	moved.
				was remediated as	per N	MOCD approv	val. Please referen	ce the a	ttached Rea	mediation S	Summary	& Risk-
Based Site Cl	osure Requ	est for remedi	ation deta	ils.								
L horoby corti	fu that the	information (riven abo	ve is true and com	anlete	to the best of	my knowlodgo o	ad unda	ratand that	nurcuont t	o NIMOC	"D miles and
				and/or file certain								
				nce of a C-141 rep								
should their o	perations h	nave failed to	adequatel	y investigate and i	remed	iate contamina	tion that pose a th	reat to	ground wa	ter, surface	water, h	uman health
				ceptance of a C-14	41 rep	ort does not re	elieve the operato	r of res	ponsibility	for compl	iance wi	th any other
federal, state,	or local lav	vs and/or regu	lations.									
			_				OIL CONS	SERV	<u>ATION</u>	DIVISI	<u>ON</u>	i
Signature:	1 201	m Za										
Approved by District Supervisor:									•			
Printed Name	: Tony Sa	ioie				Approved by		<i></i>			·	
Title: Waste	Mgmt. & R	temediation S	pecialist			Approval Dat	te:	I	Expiration	Date:		
E-mail Addre	ss: TASavo	oie@BassPet.o	com			Conditions of	Approval:					
Date: 12/6/20	11		Р	hone: (432)556-87	730							

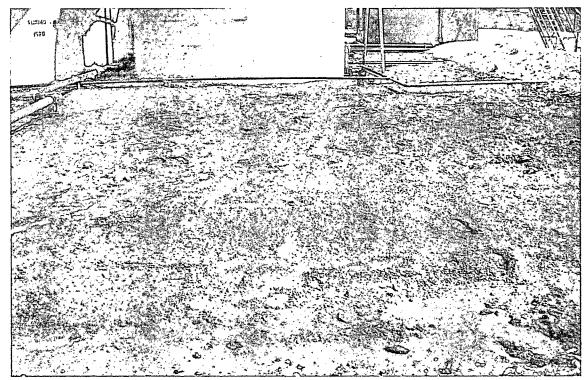
Appendix B Photographs



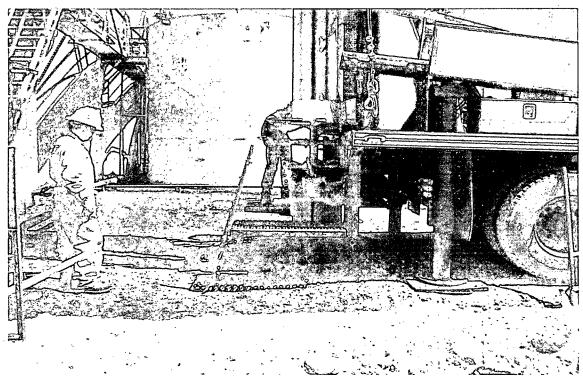
Poker Lake Unit Delaware "C" Tank Battery - Release Site



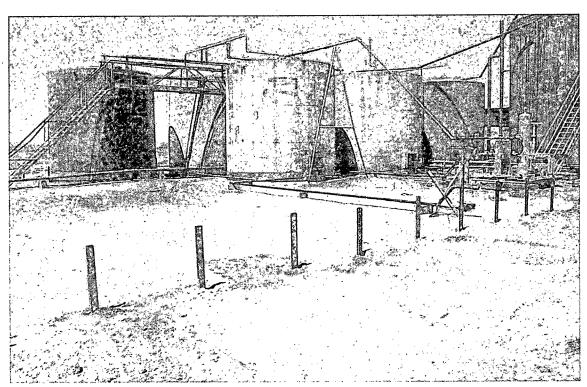
Poker Lake Unit Delaware "C" Tank Battery - Release Site



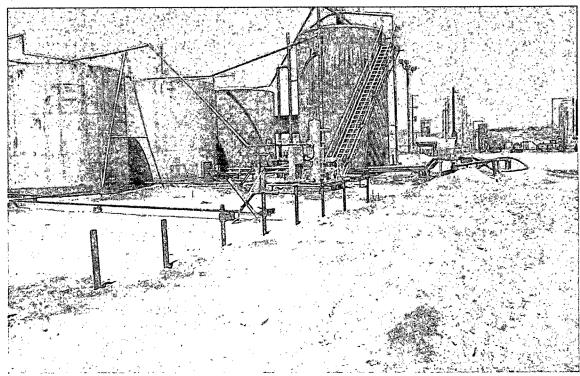
Poker Lake Unit Delaware "C" Tank Battery - Release Site



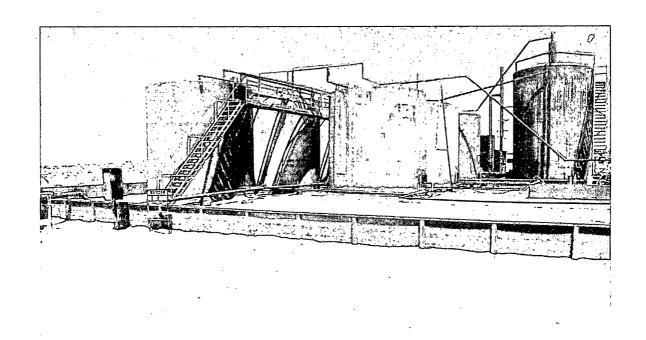
Poker Lake Unit Delaware "C" Tank Battery - Advancement of Soil Bore SB-1



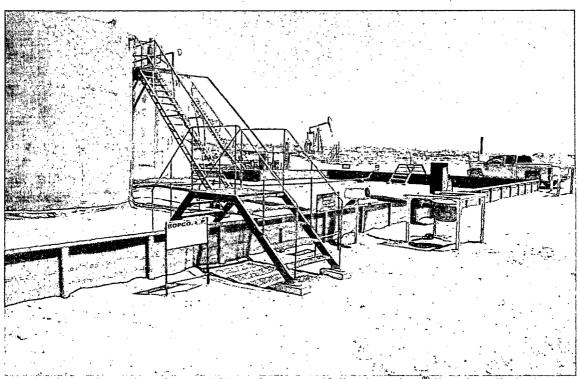
Poker Lake Unit Delaware "C" Tank Battery - Release Site (following removal of heavily saturated material)



Poker Lake Unit Delaware "C" Tank Battery - Release Site (following removal of heavily saturated material)



Poker Lake Unit Delaware "C" Tank Battery (following Titan® liner installation)



Poker Lake Unit Delaware "C" Tank Battery (following Titan® liner installation)

Appendix C Soil Boring Logs

Soil Boring SB-1

Depth						•		
below	٠							
ground	Soil	CI-			Petroleum	Call Dagariation		, ,
<u>surface</u>	Columns	Field Test	Reading	<u>Odor</u>	<u>Stain</u>	Soil Description		Boring SB-1
L,	26862	>2,500	1,359	Heavy	Heavy		Date I	Orflied May 24, 2010 .
į.	3.53			Heavy	Heavy	0-5' - Sand, brown, very fine grained, damp		ness of Bentonite Seal 80 Ft
<u>_</u> 5	2.23	848	<u>(417)</u>					of Exploratory Boring 80 Ft bgs
E				Slight	Heavy	•		to Groundwater
- 10		(1,000)	74.2	3			Groun	d Water Elevation
F	2.23			Slight	Moderate			•
15	350	924	89.9	Oligin	Wilderale		又	Indicates the PSH level measured
E	123	324	05.5	Oli-Fr	Madaala		y	on Indicates the groundwater level
.		(1700)	00.0	Slight	Moderate			measured on
- ™		(1,788)	90.9				0	Indicates samples selected for Laboratory Analysis.
E				None	Slight		PID	Head-space reading in ppm obtained with a photo-lonization detector.
- 25		368	61.9					
E			_	None	None			
30		(368)	(44.8)					
Ė				None	None			
35		280	44.6					
E	N. S			None	None	5-80' - Sand, reddish brown, very fine grained,		
40		(520)	41.7			damp		
F				None	None			
45		1,352	42.9		None			
- E	3	1,002	42.3	Nana	Mana			
F		(1.000)	40.0	None	None			
50 		1,668	40.2					
E				None	None			•
- 55	823	1,556	38.9					
E		_		None	None	,		
-60		(2,196)	32.2					
į.	13.23			None	None	•		•
65		2,532	116					
E				None	None			
L ₇₀	1223	280	79.7					
E				None	None			
E,75		(<100)	(68.0)	.10.10	110110			
ļ	88			None	None			
ŧ		100	(50.2)	None	none			
L-80		(188)	(58.2)					

Completion Notes

- The soil boring was advanced on date using air relary drilling techniques.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.



Prep By: BJA Checked By: BRB
December 6, 2011

Appendix D Laboratory Analytical Reports



October 7, 2009

Tony Savoie B.O.P.C.O. LP 522 West Mermod, Suite 704 Carlsbad, NM 88220

Re: CLP-09-05

Enclosed are the results of analyses for sample number H18374, received by the laboratory on 09/30/09 at 4:23 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though 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 524.2

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 5 (includes Chain of Custody)

Sincerely

Celey D/Keene

Laboratory Director



ANALYTICAL RESULTS FOR B.O.P.C.O. LP

ATTN: TONY SAVOIE

522 WEST MERMOD, SUITE 704

CARLSBAD, NM 88220

Receiving Date: 09/30/09

Sampling Date: 09/30/09

Reporting Date: 10/05/09

Sample Type: SOIL

Project Number: CPL-09-05

Project Name: NOT GIVEN

Sample Condition: COOL & INTACT @ 6°C

Sample Received By: ML

Project Location: POKER LAKE DELAWARE C BATTERY

Analyzed By: AB

GRO DRO (C_6-C_{10}) (>C₁₀-C₂₈) LAB NUMBER SAMPLE ID (mg/kg) (mg/kg)

ANALYSIS D	ATE:	10/01/09	10/03/09
H18374-1	#13 SUR	4,150	8,990
H18374-2	#8 1 FOOT BGS	1,000	6,670
Quality Contro	ol ·	508	595
True Value Q	C	500	500
% Recovery		102	119
Relative Perc	ent Difference	<0.1	0.1

METHOD: SW-846 8015 M. Reported on wet weight.

Not accredited for GRO/DRO.



ANALYTICAL RESULTS FOR B.O.P.C.O. LP ATTN: TONY SAVOIE 522 WEST MERMOD, SUITE 704 CARLSBAD, NM 88220

Receiving Date: 09/30/09 Reporting Date: 10/05/09

Project Number: CPL-09-05

Project Name: NOT GIVEN

Project Location: POKER LAKE DELAWARE C BATTERY

Analysis Date: 10/01/09 Sampling Date: 09/30/09

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 6°C

CI

Sample Received By: ML

Analyzed By: HM

SAMPLE ID	(mg/kg)
#7 2 FOOT BGS	2,480
-	
	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
·	
	490
QC	500
	98.0
rcent Difference	. 2.0
	SAMPLE ID #7 2 FOOT BGS trol QC freent Difference

METHOD: Standard Methods 4500-CIB

Note: Analysis performed on a 1:4 w:v aqueous extract. Not accredited for Chloride.

Chemist/`

Date

H18374 BOPCO



ANALYTICAL RESULTS FOR

B.O.P.C.O. LP

ATTN: TONY SAVOIE

522 WEST MERMOD, SUITE 704

CARLSBAD, NM 88220

Receiving Date: 09/30/09 Reporting Date: 10/02/09

Project Owner: BOPCO L.P.

Project Name: CPL-09-05

Project Location: POKER LAKE DELAWARE C BATTERY

Sampling Date: 09/30/09

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 6%

Sample Received By: ML

Analyzed By: ZL

ETHYL TOTAL

LAB NO. SAMPLE ID

BENZENE TOLUENE BENZENE XYLENES

(mg/kg) (mg/kg) (mg/kg)

(mg/kg)

ANALYSIS DATE;	10/01/09	10/01/09	10/01/09	10/01/09
H18374-3 #7 2FOOT BGS	0.101	1.10	2.01	7.23
		andronomic property and property and the second of the second		and the contract of a special accounts and the special accounts.
				is shirtness to an extensive section of the section
Quality Control	0.052	0.050	0.047	0.158
True Value QC	0.050	0.050	0.050	0.150
% Recovery	104	100	94.0	105
Relative Percent Difference	2.1	2.2	4.2	5.1

METHODS: BTEX - SW-846 8021B

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES. Reported on wet weight.

Lab Directo

Date



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

Company Name: BOPCO	BILL TO	ANALYSIS REQUEST			
Project Manager: TONY SQVDIE	P.O. #:				
Address: 522 W. Mermod Suite 704	Company:				
City: Carlsbad State: 7771 Zip: 8822C	Attn:				
Phone #: 432-556-8730 Fax#: 575-887-747	Address:				
Company Name: B O PCO Project Manager: Tony SQ VOIR Address: 522 W. Mermod Suite 704 City: Carlsbad State: 7771 Zip: \$8220 Phone #: 432-556-8730 Fax#: 575-887-747 Project #: CPL. 09-05 Project Owner: BO PCO L	City:				
Project Name: E-Mail tasavuiele basspet	State: Zip:				
Project Location: Poker Lake Delaware C Batter	Phone #:				
Sampler Name: Jody Walters	Fax #:				
Tap I de la containers GONTAINERS GROUNDWATER WASTEWATER	PRESERV. SAMPLING OTHER: ACIDINA ACI	8015M BETEX Chloride			
1-118374-1 #13 Sur G	X 9:30.09 14:00				
118314-1 #13 Sur -2 #8 1 Foot B6S G 3 # 7 2 Foot B6S G	X 9-30-09 1470	and an experience of the control of			
3 #7 2 Foot 86S G	X 9.30-09 14:20	<u> </u>			
to the second of					
PLEASE NOTE: Unbliny and Damages. Caudina's liability and client's exclusive remody for any clarin straing whether to analyses. All claims including those for negligence and any other cause whotspever shall be deserted waved unless ms service. In no overn shall Cardinal be liable for enjoymental or consequental damages, including without similation, business		of the applicable			
affiliates or successors erising out of or related to the performance of services hereunder by Cardinal, regardless of whe		wise.			
Relinquished: Date: Received By: Page 1930-09 Time: 423P Received By: Date: Received By:	REMARK	ult: D No Add'l Fax#:			
	CONDITION CHECKED BY:				
Coo	tact (Initials) Ves (Initials)				

[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



· June 2, 2010

Camille Bryant
Basin Environmental Consulting, LLC.
P.O. Box 381
Lovington, NM 88260

Re: Delaware C (BOPCO)

Enclosed are the results of analyses for sample number H19995, received by the laboratory on 05/28/10 at 8:20 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though 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 524.2

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 5 (includes Chain of Custody)

Sincerely

Celey D. Keene

Laboratory Director



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC

ATTN: CAMILLE BRYANT

P.O. BOX 381

LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 05/28/10
Reporting Date: 06/02/10
Project Owner: BOPCO

Project Owner: BOPCO
Project Name: DELAWARE C

Project Location: EDDY CO., NM

Analysis Date: 06/01/10 Sampling Date: 05/24/10 Sample Type: SOIL

Sample Condition: COOL & INTACT @ -4°C

Sample Received By: JH

Analyzed By: HM

		CIT				
LAB NO.	SAMPLE ID	(mg/kg)				
H19995-1	BACKGROUND	< 16				
H19995-3	SB-1 @ 10'	1,090				
H19995-4	SB-1 @ 20'	1,460				
H19995-5	SB-1 @ 30'	976				
H19995-6	SB-1 @ 40'	1,040				
H19995-7	SB-1 @ 50'	1,860				
H19995-8	SB-1 @ 60'	2,200				
H19995-9	SB-1 @ 70'	368				
H19995-10	SB-1 @ 75'	80				
H19995-11	SB-1 @ 80'	256				
Quality Cont	rol	500				
True Value (2C	500				
% Recovery	% Recovery					
Relative Per	cent Difference	< 0.1				

METHOD: Standard Methods 4500-CIB

Note: Analyses performed on 1:4 w.v aqueous extracts.

Not accredited for Chloride.

Chemis

Date



ANALYTICAL RESULTS FOR

BASIN ENVIRONMENTAL CONSULTING, LLC

ATTN: CAMILLE BRYANT

P.O. BOX 381

LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 05/28/10 Reporting Date: 06/02/10 Project Owner: BOPCO

Project Name: DELAWARE C Project Location: EDDY CO., NM Sampling Date: 05/24/10

Sample Type: SOIL

Sample Condition: COOL & INTACT @ -4 °C

Sample Received By: JH Analyzed By: AB/ZL

GRO DRO DRO ext. **ETHYL TOTAL** SAMPLE ID (C6-C10) (>C10-C28) (>C28-C36) BENZENE TOLUENE BENZENE XYLENES LAB NO. (ma/ka) (ma/ka) (ma/ka) (ma/ka) (ma/ka) (ma/ka) (ma/ka)

	(mg/kg)	(1119/119)	(1119/119)	(1119/119)	(1119/119)	(1119/119)	(1119/1197
ANALYSIS DATE:	05/28/10	05/28/10	05/28/10	06/01/10	06/01/10	06/01/10	06/01/10
H19995-2 SB-1 @ 5'	95.9	1,940	12.9	<0.050	<0.050	0.246	0.850
H19995-5 SB-1 @ 30'	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
H19995-9 SB-1 @ 70'	<10.0	<10.0	<10.0	<0.050	<0.050	< 0.050	<0.300
H19995-10 SB-1 @ 75'	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	< 0.300
H19995-11 SB-1 @ 80'	<10.0	11.6	<10.0	<0.050	<0.050	<0.050	<0.300
t							
Quality Control	469	435		0.019	0.020	0.019	0.060
True Value QC	500	500	-	0.020	0.020	0.020	0.060
% Recovery	93.8	87.0	-	95.0	100	95.0	100
Relative Percent Difference	0.5	7.2	-	<1.0	<1.0	<1.0	<1.0

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES. Reported on wet weight. Not accredited for GRO/DRO/DRO ext.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476 BILL TO Company Name: ANALYSIS REQUEST Project Manager: Paulle P.O. #: BOPCO Address: D.O. Bar Company: State: IVM Zip: 80260 City: Louington Attn: Town Savine Phone #: 575 · 605 - 7210 Fax #: Address: Project Owner: BOPCO City: Project #: Project Name: Dolaware C State: Zip: FXH Project Location: Gdd Collum Phone #: Camine Sampler Name: Fax #: 4500 FOR LAB USE ONLY MATRIX PRESERV SAMPLING 8021 G)RAB OR (C)OMP GROUNDWATER WASTEWATER 2010 Sample I.D. Lab I.D. ACID/BASE: ICE / COOI SLUDGE OTHER: OTHER: EX ž SOIL 둳 DATE TIME H19995-1 Bucharound 6 400 5/24 915 5/24 920 5/24 930 X 945 1015 b 1040 X 6 1055 X X 1115 analyses. All claims including those for negligence and any other cause whatspever thall be deemed wrived unless made in writing and received by Cardinal writin 30 days after completion of the applicability

affiliates or cuccessors anding out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise Relinquished By: D Yes U No |Add'l Phone #: Received By: Phone Result: Fax Result: ☐ Yes D No Add'I Fax #: REMARKS: Relinquished By: Delivered By: (Circle One) Cool Intact
Ves Ves Sampler - UPS - Bus - Other:

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

service. In no event shall Cardinal be Bable for incidental or consequental damages, including without Builtairon, budiness interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

#26



101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

Company Name: Basin Consulting Project Manager: Camille Bryand Address: P.O. Box 381 City: Louington State: MU Zip: 88260 Phone #: 575 405 Dadie Fax#:							T			B	LL TO			POSSIBILITY OF	**************************************		ANA	LYSI	S RE	QUE	ST			2000 a 300 000 a
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analyses. All claims includi service, in no event shall C	nd Damages. Cardinal's liability and client's exclusive comeay for oig those for negligence and any other cause extratories with all ardinal be sable for incidental or onsequential damages, includin ing out of or retated to the performance of services hereunder by	deemaa g vilhou	i waru d henita	d unless ilon, bud	made B ness in	painnta Deimine	g and n ons, kn	s of us	d by C se, or l	oss of p	wanin 30 days at wolts incurred by	er completion of the client, its subsidia	ne appacas nes.	te	ł.,		4			A.,	 	·····		
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#26



February 23, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE DELAWARE C BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/22/11 17:20.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated 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 (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

Celey D. Keine



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To:

(575) 396-1429

Received:

02/22/2011

Sampling Date:

02/22/2011

Reported:

02/23/2011

Sampling Type:

Soil

Project Name:

POKER LAKE DELAWARE C BATTERY

Sampling Condition:

Cool & Intact

Project Number:

AFE # 24737

Sample Received By:

Jodi Henson

Project Location:

EDDY, NEW MEXICO

Sample ID: SP 2 (H100358-01)

TPH 8015M	mg/i	(g	Analyze	d By: AB					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1490	50.0	02/23/2011	ND	207	103	200	2.48		
DRO >C10-C28	14100	50.0	02/23/2011	ND	199	99.6	200	7.32		
EXT DRO >C28-C35	1520	50.0	02/23/2011							
Surrogate: 1-Chlorooctane	137 %	5 70-130)							
Surrogate: L-Chloropotadecane	107 %	5 70-130)							

Sample ID: SP 5 (H100358-02)

TPH 8015M	mg/k	cg	Analyze	d By: AB					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1050	50.0	02/23/2011	ND	207	103	200	2.48	
DRO >C10-C28	5750	50.0	02/23/2011	ND	199	99.6	200	7.32	
EXT DRO >C28-C35	698	50.0	02/23/2011						
Surrogate: 1-Chlorooctane	135 %	6 70-130)						
Surrogate: 1-Chlorooctadecane	102 %	5 70-130)						

Cardinal Laboratories

*=Accredited Analyte

any other cause wholsoever shall be deemed waited unless made in writing and received by Cardinal willin thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential clamages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, difficulties 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.



Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contact or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitsoever shall be deemed waited unless made in withing 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, difflictes 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 within approval of Cardinal Jaboratories.

Celey D. Kune



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

Company Name	ompany Name: _{Basin} Environmental Service Technologies, LL roject Manager: _{Ben J.} Arguijo					LLO		****	ALIEN-PA	BI	LL 70			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-	ANA	LYSIS	s RE	QUE	ST			
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City: Lovingto	מי	State: NM	Zip	39	260			Attn	: т	опу	Savoie													
Phone #: (575)		Fax #: (575)39	96-1	429				Add	ress	522	w. Mer	nod												
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	okerlake Delan							State	e: M	4	Zip; \$822	3												
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Sampler - UPS - Bus - Other: Cool Intact Yes U-Yes No N			act .	t (initials)				u 166	avol		5 <i>75</i>		4/:	330	っつ、	ليوه ل)							



March 02, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE DELAWARE C BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/25/11 16:14.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated 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 (V2, V3)

Accreditation applies to public drinking water matrices.

Celeg & Keine

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



Basin Environmental Service BEN J. ARGUIJO

P.O. Box 301

Lovington NM, 88260

Fax To:

(575) 396-1429

Received:

02/25/2011

Sampling Date:

02/24/2011

Reported:

03/02/2011

Sampling Type:

Soil

Project Name:

POKER LAKE DELAWARE C BATTERY

Sampling Condition:

Cool & Intact

Project Number:

AFE # 24737

Sample Received By:

Jodi Henson

Project Location:

EDDY, NEW MEXICO

Sample ID: SP #1 7' BGS (H100389-01)

TPH 8015M	mg /	/kg	Analyze	d By: AB					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3880	50.0	03/01/2011	ND	198	98.8	200	3.49	
DRO >C10-C28	12900	50.0	03/01/2011	ND	202	101	200	3.04	
EXT DRO >C28-C35	894	50.0	03/01/2011	ND					
Surrogate: 1-Chlorooctane	151	% 70-130)						
Surrogate: 1-Chlorooctadecane	112	% 70-130)						

Sample ID: SP #3 3' BGS (H100389-02)

TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	593	50.0	03/01/2011	ND	198	98.8	200	3.49	
DRO >C10-C28	4180	50.0	03/01/2011	ND	202	101	200	3.04	
EXT DRO >C28-C35	327	50.0	03/01/2011	ND					•
Surrogate: 1-Chlorooctane	129 %	6 70-130					· · · · · · · · · · · · · · · · · · ·		
Surrogate: 1-Chlorooctadecane	116%	6 70-130)				•		

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Likelity and Chamages. Cardinals likelity and clients 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 whiteseeve shall be decined writed unless made in withing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or correspondited damages, including, without limitation, business interruptions, loss of use, or loss of profits incured by client, its substituties, affiliates or successors arising out of or related to the potormance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reviews, Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Keena



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260 (575) 396-1429

Fax To:

Received: Reported:

Project Name:

02/25/2011

03/02/2011

POKER LAKE DELAWARE C BATTERY

Project Number: Project Location: AFE # 24737

EDDY, NEW MEXICO

Sampling Date:

02/24/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP #4 8' BGS (H100389-03)

BTEX 8021B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2011	ND	1.87	93.7	2.00	0.847	
Toluene*	0.176	0.050	02/28/2011	ND	1.91	95.6	2.00	1.92	
Ethylbenzene*	0.649	0.050	02/28/2011	ND	1.97	98.4	2.00	2.11	
Total Xylenes*	2.99	0.150	02/28/2011	ND	5.77	96.1	6.00	2.87	
Surrogate: 4-Bromofluorobenzene (PIL	115 9	% 70-130)						
TPH 8015M	mg/	kg	Analyze	d By: AB					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	380	50.0	03/01/2011	ND	198	98.8	200	3.49	
DRO >C10-C28	4380	50.0	03/01/2011	ND	202	101	200	3.04	
EXT DRO >C28-C35	381	50.0	03/01/2011	ND					
Surrogate: 1-Chlorooctane	140 9	% 70-130)						
Surrogate: 1-Chlorooctadecane	121 9	% 70-130)						

Cardinal Laboratories

*=Accredited Analyte

This is the second of the above stated reasons or otherwise. Results relate only to the samples into the sample of the applicable service. In no event shall claims, including those for inequipence and any other cause whatsoever shall be deemed waited unless made in witing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or corresponditely damages, including, without limitation, business interruptions, loss of use, or loss of profits incured by client, its substituties, aditables or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

02/25/2011

Sampling Date:

02/24/2011

Reported:

03/02/2011

Sampling Type:

Soil

Project Name:

POKER LAKE DELAWARE C BATTERY

Sampling Condition:

Cool & Intact

Project Number:

AFE # 24737

Sample Received By:

Jodi Henson

Project Location:

EDDY, NEW MEXICO

Sample ID: SP #5 6' BGS (H100389-04)

TPH 8015M	mg/k	(g	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/01/2011	ND	198	98.8	200	3.49	
DRO >C10-C28	13.8	10.0	03/01/2011	ND	202	101	200	3.04	
EXT DRO >C28-C35	<10.0	10.0	03/01/2011	ND					
Surrogate: 1-Chlorooctane	101 %	5 70-130)						
Surrogate: 1-Chlorooctadecane	105 %	70-130							

Sample ID: SP #7 6 1/2' BGS (H100389-05)

PH 8015M mg/kg			Analyze	d By: AB					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2060	50.0	03/01/2011	ND	198	98.8	200	3.49	
DRO >C10-C28	7840	50.0	03/01/2011	ND	202	101	200	3.04	
EXT DRO >C28-C35	522	50.0	03/01/2011	ND				*	
Surrogate: 1-Chlorooctane	137 %	6 70-130)						
Surrogate: 1-Chlorooctadecane	108 %	6 70-130)						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Lidolity and Damages. Cardinal's liability and clients exclusive remedy for any claim arising, whether based in contract or text, 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 walved 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, inclusing, 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

Celley Tistrana



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

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 whistoever 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 heremptions, 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 claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be exproduced except in full with written approval of Cardinal abovatories.

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

Company Name:	Basin Environmental Ser	vice Technologies	BILL TO				Д	NALY	SIS RE	QUEST	ann ar ann an an an Tallace		
Project Manager	Ben J. Arguijo		P.O. #:										
Address: j	D. Box 30/	here West dissipation in which and characters according to	Company: BOPCO,	LP.		Ì		ľ					1
City: Lo	vinstan State: NM	Zip: 88260	Attn: Tony Sauce										
Phone #: (575)	396.2378 Fax #(575).	396-1429	Address: 527 W. I					•					-
Project #: Af	FR # 24737 Project Owner	BORCO LT	City: Carlsba	9									1
Project Name:	Poker Lake Delaware C Ba	Hay	State: NM Zip: 88	3220	.								
Project Location	EDDY New Mexico		Phone #(432)556.	8730		以							
Sampler Name:	Jody Walters		Fax #:			H							1
FOR LAB USE ONLY		MATRIX	PRESERV SAMPL	ING	0	W.							
Lab I.D.	Sample I.D. S.P. #1 7'865	TO (G)RAB OR (C)OMF ###################################	X 2-24-11	TIME	× 8015M	18年3							
. 2	SP.#3 3'BGS	G I X X	X 2-24-11 X 2-24-11	10:30AM	\times				_ _				
3	S.P.#3 3'B6S S.P.#4 8'B6S S.P.#5 6'B6S S.P.#7 672 B6S	G. T. X	X 22411	11:00 AM	XI.	X							ba
4	SP. #5 6 B6S	G J X		11:30AM	<u>.</u>								
5	S.T.#7 6/2 B65	G / Y	× 2-24-1)	12:00	^								
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March 08, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE DELAWARE C BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/02/11 15:35.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated 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 (V2, V3)

Accreditation applies to public drinking water matrices.

Celeg & Keine

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



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

03/02/2011

Sampling Date:

03/02/2011

Reported:

03/08/2011

Sampling Type:

Soil

Project Name:

POKER LAKE DELAWARE C BATTERY

Sampling Condition:

Cool & Intact

Project Number:

AFE # 24737

Sample Received By:

Jodi Henson

Project Number: Project Location:

EDDY, NEW MEXICO

Sample ID: STOCKPILE (H100421-01)

TPH 8015M	mg/	kg	Analyze	d By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	3010	100	03/04/2011	ND	192	96.0	200	1.89		
DRO >C10-C28	28400	100	03/04/2011	ND	189	94.5	200	4.31		
EXT DRO >C28-C35	2550	100	03/04/2011	ND	,					
Surrogate: 1-Chlorooctane	206 %									
Surrogate: 1-Chlorooctadecane	101 %	% 70-130)							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Libbility and Damages. Cardinal's liability and clients 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 whetsoever 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 claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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Notes and Definitions

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-8 does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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 increander by Cardinal, regardless of whether such claims 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 aboratories.

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

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						Attn: Toky Savoi C																
						Address: 522 Willermod																
Project Name: Poker Lake Delaware C Batter					- 1	State: //m Zip: 88220																
Project Location: EDDY Nm.					Р	Phone #: 432-556-8730																
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