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REMEDIATION SUMMARY

AND SITE

CLOSURE REQUEST

BOPCO, L.P. Poker Lake Unit #227 Eddy County, New Mexico BOPCO Job # CPL-09-02 UNIT LTR "P" (SE ¼ /SE ¼), Section 30, Township 24 South, Range 30 East Latitude 32.18191° North, Longitude 103.91429° NMOCD Reference # 2RP-348

Prepared For:

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

Prepared By:

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May 2010

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Project Manager

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1.0 INTRODUCTION AND BACKGROUND INFORMATION

Basin Environmental Consulting, LLC (Basin), on behalf of BOPCO, L.P. (BOPCO), has prepared this Remediation Summary and Site Closure Request for the release site known as Poker Lake Unit #227 (BOPCO Job # CPL-09-02). The legal description of the release site is Unit Letter "P" (SE ¼ SE ¼), Section 30, Township 24 South; Range 30 East, in Eddy County, New Mexico. The property affected by the release is owned and administered by the United States Department of the Interior, Bureau of Land Management (BLM). The release site GPS coordinates are 32.18191° North and 103.91429° West. Please reference Figure 1 for a Site Location Map and Figures 2 and 3 for a Site and Sample Location Maps.

On July 30, 2009, BOPCO discovered a produced water and crude oil release from a produced water tank at the Poker Lake Unit #227 tank battery facility. The produced water tank was struck by lightning, resulting in the partial failure of the tank and a short duration fire. Approximately two-hundred (200) barrels (bbls) of produced water and less than five (5) bbls of crude oil were released, with no recovery. Produced water remaining in the tank was removed using a vacuum truck. Due to the volume of the release, a portion of the secondary containment berm failed allowing the produced to travel across a previously closed temporary pit, a lease road, and into the pasture. The Release Notification and Corrective Action (Form C-141) is provided as Appendix D.

Remediation activities of the impacted area, which traveled across the temporary pit, was conducted during soil remediation of the temporary pit, please reference the Basin Environmental Consulting *Remediation Summary and Site Closure Request*, dated March 2010.

2.0 NMOCD SITE CLASSIFICATION

According to data obtained from the New Mexico Office of the State Engineer (NMOSE), no water wells are registered in Section 30, Township 24 S, Range 30 E. A depth to groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately two-hundred seventy five (275) feet below ground surface (bgs). The inferred depth to groundwater in this area results in a score of zero (0) being assigned to the site based on the NMOCD depth to groundwater criteria.

The water well database, maintained by the NMOSE, indicated there are no water wells less than 1,000 feet from the release, resulting in zero (0) points being assigned to this site as a result of this criteria.

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

The NMOCD guidelines indicate the Poker lake Unit #227 release site has an initial ranking score of zero (0). Based on this score, 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)

NMOCD chloride clean-up level concentrations are site specific and are set by the NMOCD and will be 250 mg/Kg for the Poker Lake Unit # 227 release site.

3.0 SUMMARY OF SOIL ACTIVITIES

On August 6, 2009, using a hand auger, sixteen (16) soil samples (#1 @ 6 inches, #1 @ 2 ft, #2 surface, #3 surface, #4 surface, #4 @ 1 ft, #5 surface, #5 @ 1 ft, #6 surface, #6 @ 1 ft, #7 surface, #7 @ 1 ft, #8 surface, #8 @ 1 ft, #9 surface and #9 @ 6 inches) were collected and submitted to Cardinal Laboratories of Hobbs, New Mexico for analysis. All soil samples were analyzed for concentrations of chlorides using EPA method 4500. The analytical results indicated chlorides concentrations ranged from 48 mg/Kg in soil sample "#6 @ 1 ft" to 19,600 mg/Kg in soil sample "#2 surface". Soil samples "#1 @ 6 inches", "#1 @ 2 ft ", "#5 surface", "#5 @ 1 ft" and "#9 surface" were submitted to the laboratory for total petroleum hydrocarbon (TPH) analysis using EPA SW 846-8015M. The analytical results indicated TPH concentrations ranged from less than the laboratory method detection limit (MDL) of 10 mg/Kg in soil sample "#5 @ 1 ft" and "#9 surface" to 7,860 mg/Kg in soil sample "#1 @ 2 ft". Soil samples "#1 @ 2 ft" and "#9 surface" were submitted to the laboratory for benzene, toluene, ethylbenzene and xylenes (BTEX) analysis using EPA SW 846-8021b. The analytical results indicated all BTEX constituent concentrations were below the laboratory MDL for soil sample "#9 surface". Soil sample "#1 @, 2ft" exhibited a benzene concentration of 1.30 mg/Kg and a BTEX concentration of 19.51 mg/Kg. Table 1 summarizes the concentrations of BTEX, TPH and Chlorides in Soil. Analytical reports are provided as Appendix B.

On August 27, 2009, using a hand auger, sixteen soil samples (Pit 1 Surface, Pit 1 1 ft, Pit 2 Surface, Pit 2 9 inches, Pit 3 Surface, Pit 3 1 ft, Pit 4 Surface, Pit 4 14 inches, Pit 5 Surface, Pit 5 1 ft, Pit 6 Surface, Pit 6 6 inches, Pit 7 Surface, Pit 7 6 inches, Pit 8 Surface and Pit 8 6 inches) were collected and submitted to the laboratory for chloride analysis. The analytical results indicated chloride concentrations ranged from 80 mg/Kg in soil sample "Pit 2 9 inches" to 44,400 mg/Kg in soil sample "Pit 6 Surface".

On October 1, 2009, using a hand auger, ten (10) soil samples (Pit Baseline, Road Baseline, Run off Baseline, Run off #1 Sample #6, Run off #1 Sample #2, Run off #1 Sample #10, TB #7 1 ft bgs, TB #7 2 ft bgs, TB #7 3 ft bgs and Run off #2 Sample #1) were collected and submitted for analysis. All soil samples were analyzed for concentrations of chlorides using EPA method 4500. The analytical results indicated chlorides concentrations ranged from less than the laboratory MDL of 16 mg/Kg in soil samples "Pit Baseline" and "Run off Baseline" to 27,600 mg/Kg in soil sample "Run off #1 Sample #2". Soil samples "TB #1 1 ft bgs", "TB #7 2 ft bgs" and "TB #7 3 ft bgs" were submitted to the laboratory for TPH analysis. The analytical results indicated TPH concentrations ranged from 548 mg/Kg in soil sample "TB #7 1 ft bgs" to 3,960 mg/Kg in soil sample "TB #7 3 ft bgs". Soil sample "TB #7 3 ft"bgs was submitted to the laboratory for BTEX analysis. The analytical results indicated soil sample "TB #7 1 ft"exhibited a benzene concentration of 0.609 mg/Kg and a BTEX concentration of 19.589 mg/Kg.

On October 21, 2009, using a backhoe, four (4) background soil samples (Background 2 ft, Background 5 ft, Background 9 ft and Background 11 ft) were collected and submitted for

chloride analysis. The analytical results indicated chloride concentrations ranged from 16 mg/Kg in soil samples "Background 2 ft" and "Background 5 ft" to 96 mg/Kg in soil sample "Background 11 ft".

On December 15, 2009, six (6) soil samples (BF-1, BF-2, BF-3, BF-4, BF-5 and BF-6) were collected from the locally obtained soil and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated the chloride concentrations ranged from 32 mg/Kg for soil samples BF-1, BF-3 and BF-4 to 208 mg/Kg for soil sample BF-6. Based on the analytical results the soil was deemed suitable for use as backfill material.

On January 20 and 21, 2010, Basin began soil delineation activities of the impacted area located inside the tank battery containment area and across the caliche pad. Six (6) soil borings (SB-1 through SB-6) were advanced on the caliche pad of the tank battery to vertically and horizontally investigate the extent of soil impact. Soil boring logs are provided as Appendix A. Soil samples were collected at five (5) foot drilling intervals and field screened for chloride concentrations using a chloride field screening kit. Selected soil samples were submitted to the laboratory for determination of BTEX, TPH and chloride concentrations.

Soil boring SB-1 was located inside the containment area in the northeast corner of the tank battery and was advanced to a total depth of approximately twenty five (25) feet bgs. Soil samples collected at the surface, five (5) feet bgs, ten (10) feet bgs and fifteen (15) feet bgs were submitted to the laboratory. The analytical results indicated benzene concentrations were less than the appropriate laboratory method detection limit (MDL) for all the submitted soil samples. BTEX concentrations ranged from less than the appropriate laboratory MDL for the soil samples collected at ten (10) feet bgs and fifteen (15) feet bgs to 0.608 mg/Kg for the soil sample collected at the surface. TPH concentrations ranged from 81.9 mg/Kg in the soil sample collected at the surface. Chloride concentrations ranged from 48 mg/Kg in the soil sample collected at fifteen (15) feet bgs to 4,160 mg/Kg in the soil sample collected at the surface.

Soil boring SB-2 was located in the pooling area at the north end of the caliche tank battery pad and was advanced to a total depth of approximately fifteen (15) feet bgs. Soil samples collected at two (2) feet bgs and five (5) feet bgs were submitted to the laboratory. The analytical results indicated benzene, BTEX and TPH concentrations were less than the appropriate laboratory MDL for both soil samples. Chloride concentrations ranged from 416 mg/Kg in the soil sample collected at five (5) feet bgs to 5,360 mg/Kg in the soil samples collected at two (2) feet bgs.

Soil boring SB-3 was located approximately eighty (80) feet south of SB-2 on the west side of the caliche tank battery pad and was advanced to a total depth of approximately fifteen (15) feet bgs. Soil samples collected at two (2) and five (5) feet bgs were submitted to the laboratory. The analytical results indicated benzene, BTEX and TPH concentrations were less than the appropriate laboratory MDL for both soil samples. Chloride concentrations ranged from 32 mg/Kg in the soil sample collected at five (5) feet bgs to 160 mg/Kg in the soil sample collected at two (2) feet bgs.

Soil boring SB-4 was located approximately eighty two (82) feet south of SB-3 on the west side of the caliche tank battery pad and was advanced to a total depth of approximately fifteen (15) feet bgs. Soil samples collected at two (2) feet bgs and five (5) feet bgs were submitted to the

laboratory. The analytical results indicated benzene, BTEX and TPH concentrations were less than the appropriate laboratory MDL for both soil samples. Chloride concentrations ranged from 112 mg/Kg in the soil sample collected at five (5) feet bgs to 1,470 mg/Kg in the soil sample collected at two (2) feet bgs.

Soils boring SB-5 was located on the south end of the caliche pad approximately twenty two (22) feet north of a direct bury electric cable. The direct bury electric cable travels from the power pole across the caliche pad to the tank battery. The soil boring was advanced to a total depth of approximately fifteen (15) feet bgs. Soil samples collected at two (2) feet bgs and five (5) feet bgs were submitted to the laboratory. The analytical results indicated benzene, BTEX and TPH concentrations were less than the appropriate laboratory MDL for both soil samples. Chloride concentrations ranged from less than the laboratory MDL in the soil sample collected at five (5) feet bgs to 1,100 mg/Kg in the soil sample collected at two (2) feet bgs.

Soil boring SB-6 was located approximately forty two (42) feet east of SB-4 and was advanced to a total depth of approximately fifteen (15) feet bgs. Soil samples collected at two (2) feet bgs and five (5) feet bgs were submitted to the laboratory. The analytical results indicated benzene, BTEX and TPH concentrations were less than the appropriate laboratory MDL for both soil samples. Chloride concentrations ranged from 176 mg/Kg in the soil sample collected at five (5) feet bgs to 3,440 mg/Kg in the soil sample collected at two (2) feet bgs.

On January 22, 2010, during a meeting with NMOCD Artesia District Office and BOPCO representatives it was determined the impacted soil located on the caliche pad would be excavated and backfilled based on chloride field test results due to the area being located on an active tank battery pad with numerous vehicles traveling across the location.

On January 26, 2010, Basin commenced soil excavation activities in the areas defined by and including soil borings SB-2 through SB-6. Excavation activities were not conducted in the area represented by soil boring SB-1 due to it being located inside the containment area of an active tank battery. Excavation activities commenced on the south side of the caliche pad approximately twenty (20) feet north of the direct bury cable. Eight (8) soil samples (Sample 101 @ 2.5', Sample 102 @ 2.5', Sample 103 @ 2.5', Sample 104 @ 2.5', Sample 105 @ 2', Sample 106 @ 3', Sample 107 @ 2.5' and Sample 108 @ 6.5') were collected from the excavated area and field screened for concentrations of chlorides. The soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Chloride field tests were conducted on the above referenced soil samples and the excavation was backfilled. Chloride field tests indicated the chloride concentrations ranged from less than 100 mg/Kg for soil samples Sample 102 @ 2.5', Sample 105 @ 2', Sample 107 @ 2.5' and Sample 108 @ 6.5' to 220 mg/Kg for soil samples Sample 103 @ 2.5' and Sample 103 @ 2.5' and Sample 106 @ 3'. Based on the chloride field tests results the excavation was backfilled with locally obtained, non-impacted soil represented by the soil samples collected on December 15, 2009.

The eight (8) soil samples (Sample 101 @ 2.5', Sample 102 @ 2.5', Sample 103 @ 2.5', Sample 104 @ 2.5', Sample 105 @ 2', Sample 106 @ 3', Sample 107 @ 2.5' and Sample 108 @ 6.5') were submitted to the laboratory for determination of BTEX, TPH and chloride constituent concentrations. Laboratory analytical results indicated benzene, BTEX and TPH concentrations were less than the appropriate laboratory MDL for all the submitted soil samples. Chloride concentrations ranged from 16 mg/Kg for soil sample 102 @ 2.5' to 400 mg/Kg for soil

sample Sample 106 @ 3'. Review of the analytical results indicated all the soil samples were less than the NMOCD regulatory standards for concentrations of benzene, BTEX and chlorides with the exception of soil sample Sample 106 @ 3' which exceeded chloride concentrations.

The final dimensions of the excavation located on the caliche pad measured approximately two hundred fifty four (254) feet in length, ranging from approximately twenty three (23) feet to fifty eight (58) feet in width and approximately two (2) to six and a half (6.5) feet in depth. Approximately 1,620 cubic yards of soil was transported to Controlled Recovery, Inc. (CRI) (NMOCD Order # R9166) for disposal.

On January 26, 2010, Basin commenced delineation activities of the runoff area that traveled from the tank battery across the temporary closed pit and on to the pasture. Nine (9) soil samples (6B Surface, 6B @ 1', 7B Surface, 7B @ 1', 7B @ 2', 8B Surface, 8B @ 1', 9B Surface and 9B 1') were collected from the runoff area adjacent to the temporary pit. The soil samples were submitted to the laboratory for analysis of chloride concentration. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory MDL for soil samples 8B Surface, 9B Surface and 9B @ 1' to 2,960 mg/Kg for soil sample 7B @ 2'.

Pursuant to a NMOCD request, further delineation was conducted in the runoff area as defined by soil samples 6B, 7B, 8B and 9B.

On February 1, 2010, four (4) delineation trenches were advanced in the area of soil samples 6B, 7B, 8B and 9B to investigate the vertical extent of impacted soil at the site. Sixteen (16) soil samples (6B @ 2', 6B @ 3', 6B @ 4', 7B @ 3', 7B @ 4', 7B @ 5', 7B @ 6', 8B @ 2', 8B @ 3', 8B @ 4', 8B @ 5', 8B @ 6', 8B @ 7', 9B @ 2', 9B @ 3' and 9B @4') were collected from the delineation trenches and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 64 mg/Kg for soil sample 9B @ 4' to 1,700 mg/Kg for soil sample 6B @ 2'.

On February 15, 2010, Basin commenced excavation activities in the runoff area as defined by the above referenced delineation trenches. Approximately 1,760 cubic yards (cy) of soil was transported to Lea Land, LLC (NMOCD Permit # WM-01-035) for disposal. The final dimensions of the excavation were approximately two hundred forty (240) feet in length and ranging from approximately twenty six (26) to fifty five (55) feet in width and approximately three (3) to seven (7) feet in depth.

On February 15 through 19, 2010, twenty (20) soil samples (West Wall 3.5', 9 Floor @ 3.5', 9 South Side Wall @ 3.5', 9 North Side Wall @ 3.5', 8 Floor @ 7', 8 North Side Wall @ 6.5', 8 South Side Wall @ 6.5', 8 West Side Wall @ 6.5', 8 Northeast Corner @ 6.5', 8 Northeast Corner @ 4.5', 8 southeast Floor @ 5', 7 Floor @ 5.5', 7 South Side Wall @ 5', 7 North Side Wall @ 4', 6 Floor @ 3.5', 6 South Side Wall @ 3', 6 North Side Wall @ 3', Northeast Floor @ 4.5', North Side Wall @ 3.5' and South Side Wall @ 4 were collected from the excavation and submitted to the laboratory for determination of BTEX, TPH and chloride constituent concentrations. Laboratory analytical results indicated benzene, BTEX and TPH concentrations were less than the appropriate laboratory MDL for all the submitted soil samples. Laboratory analytical results indicated chloride concentrations ranged from 16 mg/Kg for soil sample 8 Northeast Corner @ 4.5' to 240 mg/Kg for soil sample 8 West Side Wall @ 6.5'. A review of the analytical results indicated benzene, BTEX, TPH and chloride concentrations were less than the appropriate NMOCD regulatory standards for the site.

On February 18, 2010, two (2) soil samples (Topsoil-1 and Topsoil-2) were collected from the stockpiled overburden soil and submitted to the laboratory for determination of BTEX, TPH and chloride constituent concentrations. Laboratory analytical results indicated BTEX and TPH concentrations were less than the laboratory MDL for both soil samples. Chloride concentrations were 80 mg/Kg for soil sample Topsoil-1 and 96 mg/Kg for soil sample Topsoil-2. Based on the analytical results, the soil was deemed suitable for use as backfill material.

On February 26, 2010, Basin commenced backfilling activities at the site. The excavation was backfilled with the stockpiled soil represented by soil samples Topsoil-1 and Topsoil-2 and with locally purchased non-impacted soil. The excavation was backfilled and compacted in twelve (12) inch lifts. Following the backfilling activities the site was contoured to fit the surrounding topography. On May 14, 2010, the site was seeded with BLM #1 and #2 seed mixture, as approved by the BLM.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil Samples were delivered to Cardinal Laboratories, in Hobbs, New Mexico, for BTEX, TPH and/or chloride analyses using the methods described below. Soil samples were analyzed for BTEX and/or TPH concentrations within fourteen (14) days following the collection date using the methods described below. Soil samples were analyzed for chloride concentrations within twenty-eight (28) days following the collection date using the method below.

The soil samples were analyzed as follows:

- BTEX concentrations in accordance with EPA Method 8021B, 5030
- TPH concentrations in accordance with modified EPA Method 8015M GRO/DRO
- Chloride concentrations in accordance with EPA Method 4500

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-ofcustody (COC) form. These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

5.0 SOIL CLOSURE REQUEST

Based on the analytical results of confirmation soil samples, Basin recommends BOPCO provide the NMOCD Artesia District Office and the BLM Carlsbad Office a copy of this Remediation Summary and Site Closure Request and request the NMOCD grant closure to the Poker Lake Unit 227 release site.

LIMITATIONS

Basin Environmental Consulting, LLC has prepared this Remediation Summary and Soil Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

Basin Environmental Consulting, LLC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Basin Environmental Consulting, LLC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. Basin Environmental Consulting, LLC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin Environmental Consulting, LLC also 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. 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 Consulting, LLC and/or BOPCO.

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Figure 1 Site Location Map

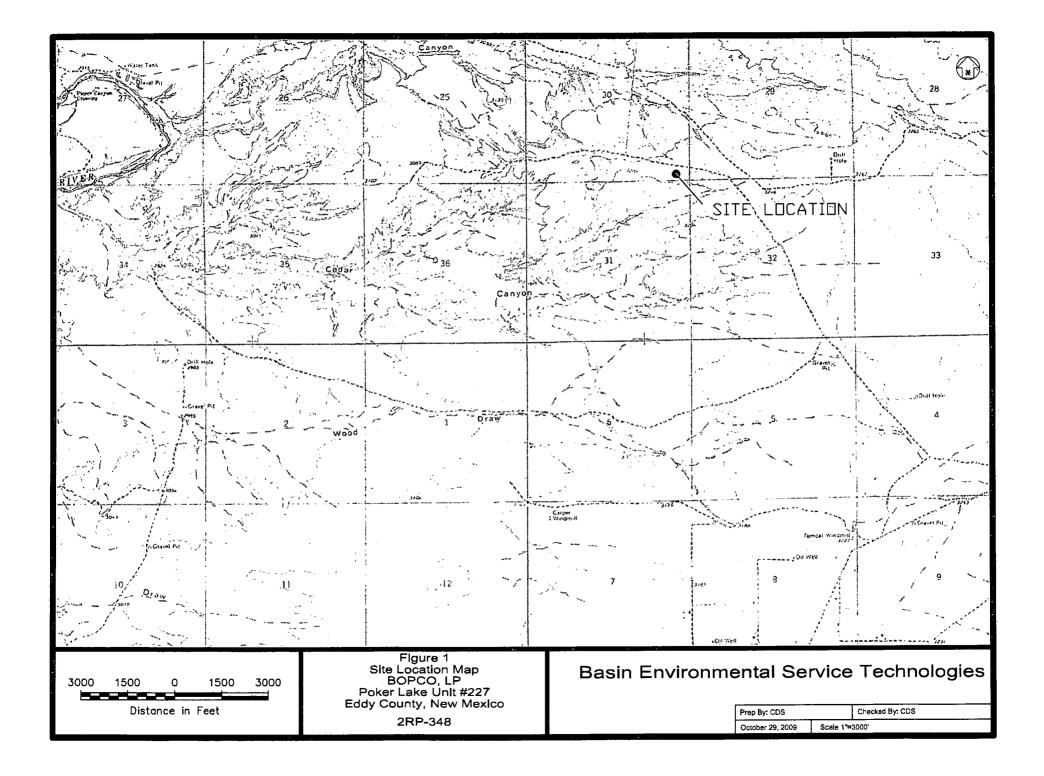


Figure 2 Site and Sample Location Map (Tank Battery)

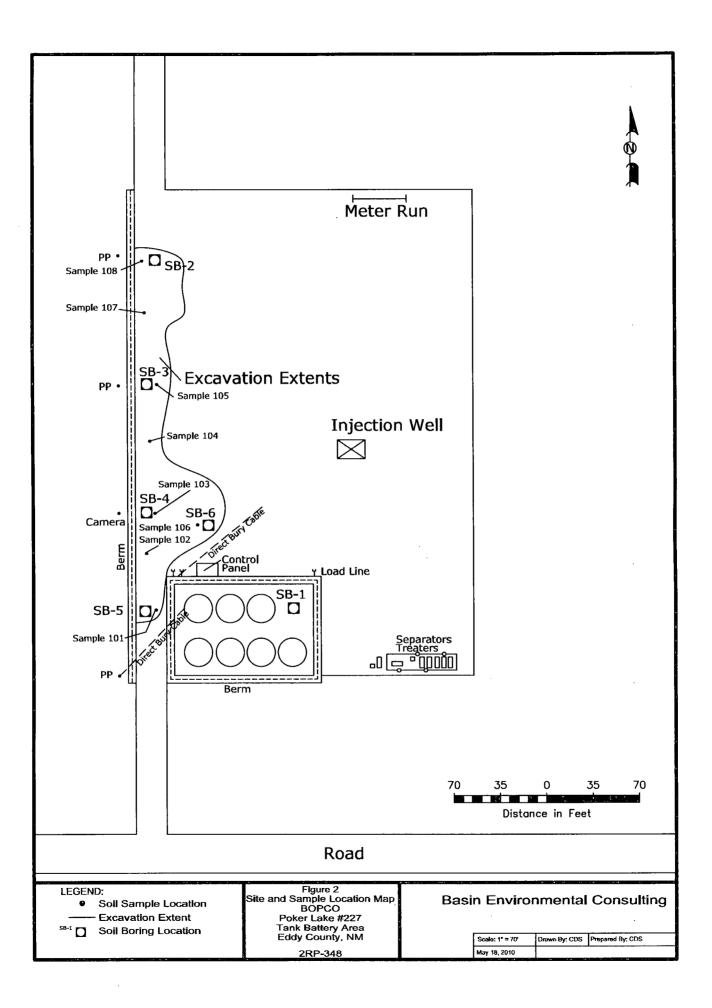


Figure 3 Site and Sample Location Map (Runoff Area)

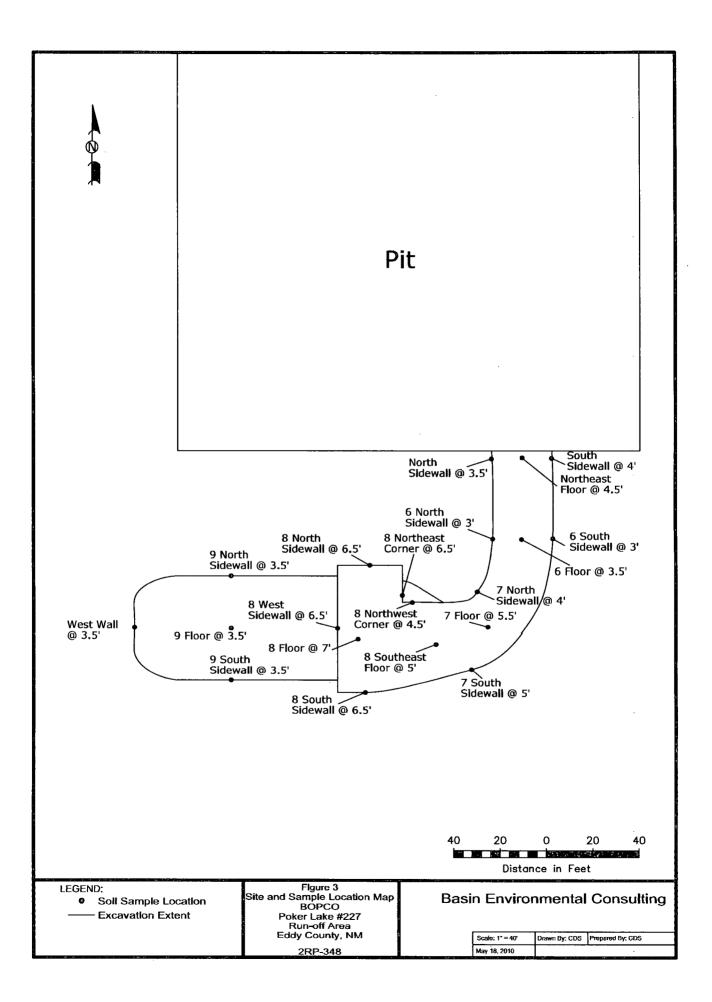


Table 1 Concentrations of Benzene, BTEX, TPH and Chlorides in Soil

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDES IN SOIL

Г <u></u>	Τ			METHOD: E	EPA SW 846-	8021B, 5030		I		W 848-80	15M	· · · · · · · · · · · · · · · · · · ·	4500 CI B
SAMPLE LOCATION	SAMPLE DEPTH (Below Grade Surface)	SAMPLE DATE	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆₋ C ₁₀ (mg/Kg)	DRO C ₁₀ -C ₂₈ (mg/Kg)	DRO •EXT. C ₂₈ -C ₃₅ (mg/Kg)	TOTAL TPH C ₆ -C ₂₈ (mg/Kg)	TOTAL TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
#1 @ 6"	6 Inches	08/06/09	-	-	-	-	-	905	2,990	-	3,895	-	2,080
#1 @ 2 FT.	2 Feet	08/06/09	1.3	3.99	3.22	11	19.51	1,260	6,600	-	7,860	-	2,520
#2 SURFACE	Surface	08/06/09	-	-	-	-	-		-	-	-	-	19,600
#3 SURFACE	Surface	08/06/09	-	-	- *	-	-	-	-	-	-	-	13,000
#4 SURFACE	Surface	08/06/09	-	-	-	-		-	-	-	-	-	11,600
#4 @ 1'	1 Foot	08/06/09	-	-	-	-	-		- 1	-	-	-	3,040
#5 SURFACE	Surface	08/06/09	-	-	-	-	-	<50.0	3,430	-	3,430	-	9,700
#5 @ 1'	1 Foot	08/06/09	-	-	-	-	-	<10.0	<10.0	-	<10.0	-	2,840
#6 SURFACE	Surface	08/06/09		-	-	-	-	-	- 1	-	-	-	18,000
#6 @ 1'	1 Foot	08/06/09	-	-	-	-	-	-	-	-	-	-	48
#7 SURFACE	Surface	08/06/09	-	-	-	-	-		-	-	-	-	12,400
#7 @ 1'	1 Foot	08/06/09	-	-	-	-	-	-		-	-	-	832
#8 SURFACE	Surface	08/06/09	-	-	-	-	-	-	-	-	-	-	19,000
#8 @ 1'	1 Foot	08/06/09	-	-	-	-	-	-		-	-	-	288
#9 SURFACE	Surface	08/06/09	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	-	<10.0	-	16,600
#9 @ 6"	6 Inches	08/06/09	-	-	-	-	-	-	-	-	-	-	320
and a strange of the second						200 ⁰			ster -	Min and a			
PIT 1 SURFACE	Surface	08/27/09	-	-	-	-	-		-	-	-	-	31,200
PIT 1 1'	1 Foot	08/27/09	-	-	-	-	-	-	-	-	-	-	10,600
PIT 2 SURFACE	Surface	08/27/09	-	-	-	-	-	-	-	-	-	-	880
PIT 2 9"	9 Inches	08/27/09	-	-	-	-	-	-	-	-	-		80
PIT 3 SURFACE	Surface	08/27/09	-	-	-	-	-		-	-	-	-	10,800
PIT 3 1'	1 Foot	08/27/09	-	-	-	-	-		-	-	-	-	3,920
PIT 4 SURFACE	Surface	08/27/09	-	-	-	-	-	-	-	-	-	-	4,240
PIT 4 14"	14 Inches	08/27/09	-	-	-	-	-	-	-	-	-		5,280
PIT 5 SURFACE	Surface	08/27/09	-	-	-	-	-	-	-	-	-	-	16,800
PIT 5 1'	1 Foot	08/27/09	-	-	-	-	-	-	-	-	-	-	9,600
PIT 6 SURFACE	Surface	08/27/09	-	-	-	-	-	-	-	-	-	-	44,400
PIT 6 6"	6 Inches	08/27/09	-	-	-	-	-		- 1	-	•	-	10,400
PIT 7 SURFACE	Surface	08/27/09	-	-	•	-	-	-		-	-	-	4,560
PIT 7 6"	6 Inches	08/27/09		-		-	-		-		-	-	16,800
PIT 8 SURFACE	Surface	08/27/09	-	-	-	-	-	-	- 1	-	-	-	9,400

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDES IN SOIL

			{	METHOD: E	PA SW 846-	8021B, 5030			S	W 848-801	5M		4500 CI B
SAMPLE LOCATION	SAMPLE DEPTH (Below Grade Surface)	SAMPLE DATE	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆₋ C ₁₀ (mg/Kg)	DRO C ₁₀ -C ₂₈ (mg/Kg)	DRO EXT. C ₂₈ -C ₃₅ (mg/Kg)	TOTAL TPH C ₆ -C ₂₈ (mg/Kg)	TOTAL TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
PIT 86"	6 Inches	08/27/09	-	-	-	-	-	-	-	-	-	-	4,400
ALL ALL AND ALL	A. 1. 32. 60			1. 12 . 19	A	1. 19 8 19		Star March	they they is the	15 18 24	1. S.	San Printer	in the second
PIT BASE LINE	Surface	10/01/09	-	-	-	-	-	-	-	-	-	-	<16
ROAD BASE LINE	Surface	10/01/09	-	-	-	-	· -	-	-	-	-	-	4,960
RUN OFF BASE LINE	Surface	10/01/09	-	-	-	-	-	- 1	-	-	-	-	<16
RUN OFF #1 SAMPLE #6	Surface	10/01/09	-	-	-	-	-	-	-	-	-	-	6,480
RUN OFF #1 SAMPLE # 2	Surface	10/01/09	-	-	-	-	-	-	-	-	-	-	27,600
RUN OFF #1 SAMPLE #10	Surface	10/01/09	-	-	-	-	-	-	-	-	-	-	13,800
TB# 7 1' BGS	1 Foot	10/01/09	-	-	-	-	-	128	420	-	548	-	
TB #7 2' BGS	2 Feet	10/01/09	-	-	-	-	-	875	2,400	-	3,275	-	-
TB #7 3' BGS	3 Feet	10/01/09	0.609	3.4	3.68	11.9	19.589	1,150	2,810	-	3,960	-	1,380
RUN OFF #2 SAMPLE #1	Surface	10/01/09	-	-	-	-		-	-	-	-	-	10,400
RUN OFF #2 SAMPLE #5	Surface	10/01/09	-	-	-	-	-	-	-	-	-	-	7,800
RUN OFF #2 SAMPLE #10	Surface	10/01/09	-	-	-	-	-	-	-	-	-	-	6,500
Constanting States and States	34. A. A.	8、第六部3		2		12.		THE REAL	ية المحمد المراجع المراجع المحمد ا محمد المحمد ا	387.68			and he are the
BACKGROUND 2'	2 Feet	10/21/09	-	-	-	-	-	-	-	-	•	-	16
BACKGROUND 5'	5 Feet	10/21/09	-		-	-	-	-	-	-	-	-	16
BACKGROUND 9'	9 Feet	10/21/09	-	-	•	-	-	-	-	-	-	-	32
BACKGROUND 11'	11 Feet	10/21/09	-	-	-	-	-	-	-	-	-	-	96
WALK STATES TO A FOR	and the states of	要这些 (A) (A)		Strate States	14. A. C. P. C.			Barris (1924)	Y PAS	Ser Carles	S. 17. 198.	. 98 (and) :	E. Corato de
BF 1	Backfill	12/15/09	-	-	-	-	-	-	-	-	-	-	32
BF 2	Backfill	12/15/09	-	•	-	-	-	-	-	-	-	-	48
BF 3	Backfill	12/15/09	-	-	-	-	-	-	-	-	-	-	32
BF 4	Backfill	12/15/09	-	-	-	-	-	-	-	-	-	-	32
BF 5	Backfill	12/15/09	-	-	-	-	-	-	-	-	-	-	128
BF 6	Backfill	12/18/09	-	-	-	-	-		-	-	-	-	208
CAR BELLAND AND AND AND AND AND AND AND AND AND			all the second second		St. 18. 976	CARE SOCO	·教育、499743	CT STOR	THE REAL				
SB-1 Surface	Surface	01/20/10	<0.050	<0.050	0.779	0.608	1.387	81	1,470	188		1,739	4,160
SB-1@5'	5 Feet	01/20/10	<0.050	<0.050	0.199	0.389	0.588	18.1	614	65.4	-	697.5	2,800
SB-1@10	10 Feet	01/20/10	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	115	<10.0	-	115	192
SB-1@15	15 Feet	01/20/10	< 0.050	<0.050	<0.050	<0.300	<0.300	<10.0	81.9	<10.0	-	81.9	48
SB-2 @ 2'	2 Feet	01/20/10	<0.050	<0.050	<0.050	< 0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	5,360

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDES IN SOIL

l		SAMPLE DATE		METHOD: E	EPA SW 846-	8021B, 5030			S	W 848-80 [.]	15M		4500 CI B
SAMPLE LOCATION	SAMPLE DEPTH (Below Grade Surface)		BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆₋ C ₁₀ (mg/Kg)	DRO C ₁₀ -C ₂₈ (mg/Kg)	DRO EXT. C ₂₈ -C ₃₅ (mg/Kg)	TOTAL TPH C ₆ -C ₂₈ (mg/Kg)	TOTAL TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
SB-2 @ 5'	5 Feet	01/20/10	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	416
SB-3 @ 2'	2 Feet	01/21/10	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	160
SB-3 @ 5'	5 Feet	01/21/10	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	32
SB-4 @ 2'	2 Feet	01/21/10	<0.050	<0.050	<0.050	< 0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	1,470
SB-4 @ 5'	5 Feet	01/21/10	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	112
SB-5 @ 2'	2 Feet	01/21/10	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	1,100
SB-5 @ 5'	5 Feet	01/21/10	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	<16
SB-6 @ 2'	2 Feet	01/21/10	<0.050	<0.050	< 0.050	<0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	3,440
SB-6 @ 5'	5 Feet	01/21/10	<0.050	<0.050	<0.050	< 0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	176
THE FRENCH CONTRACTOR	A Star and in Store of	N. 1. 2 .	1 Barris	183 S. C. S.		A. A. A.	SALVAR.	Sec. Prest	200-363	20033	1.0	1. S.	1.664 4.3
Sample 101 @ 2.5'	2.5 Feet	01/25/10	<0.050	<0.050	< 0.050	< 0.300	< 0.300	<10.0	<10.0	<10.0	-	<10.0	80
Sample 102 @ 2.5	2.5 Feet	01/25/10	<0.050	<0.050	< 0.050	<0.300	< 0.300	<10.0	<10.0	<10.0	-	<10.0	16
Sample 103 @ 2.5'	2.5 Feet	01/25/10	<0.050	<0.050	<0.050	< 0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	224
Sample 104 @ 2.5'	2.5 Feet	01/25/10	<0.050	<0.050	<0.050	< 0.300	< 0.300	<10.0	<10.0	<10.0	-	<10.0	128
Sample 105 @ 2'	2 Feet	01/25/10	<0.050	<0.050	<0.050	< 0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	32
Sample 106 @ 3'	3 Feet	01/27/09	<0.050	< 0.050	<0.050	< 0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	400
Sample 107 @ 2.5'	2.5 Feet	01/29/09	<0.050	<0.050	<0.050	< 0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	80
Sample 108 @ 6.5'	6.5 Feet	01/29/09	<0.050	<0.050	<0.050	< 0.300	< 0.300	<10.0	<10.0	<10.0	-	<10.0	64
			A . Share	18 18 A & A	New York	N. A. State	54. A. M.	14 (and 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The Art State	Rock	23.32	DE CASEN	Sat in the
6B Surface	Surface	01/26/10	-	-	-	-	-	-	-	-	-	-	176
6B @ 1'	1 Foot	01/26/10	-	-	-	-	-	-	-	-	-	-	560
7B Surface	Surface	01/26/10	-	-	-	-	-	-	-	-	-	-	816
7B @ 1'	1 Foot	01/26/10		-	-	-	-	-	-	-	-	-	736
7B @ 2'	2 Feet	01/26/10	-	-	-	-	-	-	- 1	-	-	-	2,960
8B Surface	Surface	01/26/10	-	-	-	-	-	-	-	-	-	-	<16
8B @ 1'	1 Foot	01/26/10	-	-	-	-	-	-	-	-	-	-	64
9B Surface	Surface	01/26/10	-	-	-	-		-	-		-	-	<16
9B @ 1'	1 Foot	01/26/10	-	-	-	-	-	-	-	-		-	<16
	S. State States	1. M 1. A. 18	SCOLANN'S	NATES AND		ALC: SOTIST	N. K. Market		382 AL.D.S.	lon olas	我被规?	9. FY 2000	
6B @ 2'	2 Feet	02/01/10	-	-	-	-	-	-	-	-	-	-	1,700
6B @ 3'	3 Feet	02/01/10	-		-		-	-	· -	-	- .	-	592
6B @ 4'	4 Feet	02/01/10	-	-	-	-	-		-	-	-	-	128

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDES IN SOIL

				METHOD: E	EPA SW 846-	-8021B, 5030			S	SW 848-801	I5M		4500 CI B
SAMPLE LOCATION	SAMPLE DEPTH (Below Grade Surface)	SAMPLE DATE	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆₋ C ₁₀ (mg/Kg)	DRO C ₁₀ -C ₂₈ (mg/Kg)	DRO EXT. C ₂₈ -C ₃₅ (mg/Kg)	TOTAL TPH C ₆ -C ₂₈ (mg/Kg)	TOTAL TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
7B @ 3'	3 Feet	02/01/10	-	-	-	-	-	-	-	-	-	-	992
7B @ 4'	4 Feet	02/01/10	-	-	-	-	-	-	-	-	-	-	1,580
7B@5'	5 Feet	02/01/10	-	-	-	-	-	-	-	-	-	-	176
7B@6'	6 Feet	02/01/10	-	-	-	-	-	-	-	-	-	-	80
8B @ 2'	2 Feet	02/01/10	-	. .	-	-	-	-	-	-	-	-	672
8B @ 3'	3 Feet	02/01/10	-	-	-	-	-	-	-	-	-	-	1,470
8B @ 4'	4 Feet	02/01/10	-	-	-	-	-	-	-	-	-	-	144
8B @ 5'	5 Feet	02/01/10	-	-	-	-	-	-	-	-	-	-	640
8B @ 6'	6 Feet	02/01/10	-	-	-	-	-	-	-	-	-	-	304
8B @ 7'	7 Feet	02/01/10	-	-	-	-	-	-	-	-	-	-	160
9B @ 2'	2 Feet	02/01/10	-	-	-	-	-	-	-	-	-	-	528
9B @ 3'	3 Feet	02/01/10		-	-	-	-	- ·	-	-	-	-	272
9B @ 4'	4 Feet	02/01/10		-	-	-	-	-	-	-	-	-	64
CAR & BARRATER PARTY			and the state of the	1. 19 19 19		Minister Historica		12 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		to Oke Str	NA SA	1. 2.18 10	A State State
West Wall 3.5'	3.5 Feet	02/15/10	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	80
9 Floor @ 3.5'	3.5 Feet	02/15/10	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	96
9 South Side Wall @ 3.5'	3.5 Feet	02/15/10	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	176
9 North Side Wall @ 3.5'	3.5 Feet	02/15/10	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	112
8 Floor @ 7'	7 Feet	02/16/10	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	48
8 North Side Wall @ 6.5'	6.5 Feet	02/16/10	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	48
8 South Side Wall @ 6.5'	6.5 Feet	02/16/10	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	64
8 West Side Wall @ 6.5	6.5 Feet	02/16/10	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	240
8 Northeast Corner @ 6.5	6.5 Feet	02/16/10	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	144
8 Northeast Corner @ 4.5	4.5 Feet	02/16/10	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0		<10.0	16
8 Southeast Floor @ 5'	5 Feet	02/17/10	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	192
7 Floor @ 5.5'	5.5 Feet	02/17/10	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	176
7 South Side Wall @ 5'	5 Feet	02/17/10	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	128
7 North Side Wall @ 4'	4 Feet	02/17/10	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	96
6 Floor @ 3.5'	3.5 Feet	02/18/10	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	•	<10.0	112
6 South Side Wall @ 3'	3 Feet	02/18/10	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	80
6 North Side Wall @ 3'	3 Feet	02/18/10	<0.050	< 0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0		<10.0	64
Northeast Floor @ 4.5'	4.5 Feet	02/19/10	< 0.050	<0.050	<0.050	< 0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	32

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDES IN SOIL

				METHOD: EPA SW 846-8021B, 5030						SW 848-8015M				
SAMPLE LOCATION	SAMPLE DEPTH (Below Grade Surface)	H SAMPLE DATE	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆₋ C ₁₀ (mg/Kg)	DRO C ₁₀ -C ₂₈ (mg/Kg)	U29-U25	TOTAL TPH C ₆ -C ₂₈ (mg/Kg)	TOTAL TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)	
North Side Wall @ 3.5'	3.5 Feet	02/19/10	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	128	
South Side Wall @ 4'	4 Feet	02/19/10	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	48	
Topsoil - 1	N/A	02/18/10	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	80	
Topsoil - 2	N/A	02/18/10	<0.050	<0.050	<0.050	< 0.300	<0.300	<10.0	<10.0	<10.0	-	<10.0	96	
Shading a start the start of the		Ser States 14	12 Marting		a the state of the		Acta Anti Anti Anti	August and the second	the state	16 8 (17		57 68° 51		

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Appendices

Appendix A Soil Boring Logs

Depth below		o di Marada (di)	1	gene in a service a	Sc	oil Boring SB-1	1997 <u>3</u> - 1 ₈ 96739	n an
ground	Soil	Chloride	PID	Petroleum	Petroleum			Soil Boring SB-1
surface	<u>Columns</u>	s Field Test	Reading	Odor	Stain	Soil Description	Date	Drilled January 20, 2010
۲°	233	2,424	183	Slight	None	Surface - Sand, brown with gravel, moist	Thick	ness of Bentonite Seal 25 Fi
-5		1,976	410	Heavy	Heavy	0 - 5' - Sand, brown, fine grathed with caliche nodules, moist with organics	Depti	n of Exploratory Boring <u>25 Fl bgs</u> n to Groundwater nd Water Elevation
Ē.	К	(770)	DC C	Slight	None	5 - 10' - Callche, tan, soft, dry		
	<u>S</u>	(220)	96.5 15 . 7	None	None	10 - 15' - Sand, tan, fine grained with caliche nodules, dry	.⊽. ∑	Indicates the PSH level measured on Indicates the groundwater level
		220	8.2	None	None	15 - 20' - Sand, tan, fine grained with sandstone, dry	O PID	measured on indicates samples selected for Laboratory Analysis. Head-space reading in ppm obtained
L 25		396	4.6	None	None	20 - 25' - Sand, tan, very fine grained with sandstone, dry		with a photo-konization detector.

Completion Notes

The monitor well was advanced on date using air rolary drilling techniques.
 The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be graduat.

Soil Boring SB-1

BOPCO Poker Lake #227 Eddy County, New Mexico

Basin Environmental Consulting

Prep By: CDS April 30, 2010

Checked By: CJB

Depth													
ground surface	Soil <u>Co</u> lumns	Chloride Field Test	PID Reading	Petroleum F Odor	Petroleum <u>Stain</u>				Date (
Ε°	E	(1,976)	15.8	None None	None None	Surface - 2' - Sand, brown and 2 - 5' - Caliche, white, dry	d calliche, dry			ess of Bentonite Seat <u>15 Ft</u> of Exploratory Boring <u>15 Ft bgs</u>			
		356	8.7	NUTE	NOTE	2 - 5 - Gallere, write, ory				to Groundwator d Water Elevation			
/ 10		160	5.0	None	None	5 - 15' - Sand, tan, very fine g	rained with cali	iche	_				
	ý			None	None	nodules, dry			꼬	Indicates the PSH level measured on Indicates the groundwater level			
□ 15		188	4.6						0	measured on Indicates samples selected for Laboratory Analysis,			
									PID	Head-space reading in ppm obtained with a photo-ionization detector.			
1													
3													
-													
9 .													
									C	Completion Notes			
2 19										The monitor well was advanced on date using air rolary drilling techniques.			
									2.) 1	The lines between material types shown in the profile log represent approximate			
									5 9	oundarles. Actual transitions may be radual.			
		e ar stor ave a	v				a standard and a standard and a standard a st	N. Marshall I a said		et in the second se			
						PCO	Basi	n Environ	me	ntal Consultin			
S	oil Bor	ring SB	-2			ake #227 y, New Mexico		Prep By; CDS		Checked By: CJB			
1				Jount	y, INGW IVICXICO		April 30, 2010						

	2 Y Y Y 197			· · · · · · · · · · · · · · · · · · ·		ار ایک ایک ۲۰۰۰ معادی به مربور به ۲۰۰۰ <u>د و ۲۰۰۰ ا</u>		a the second state in the	
Depth below					Sc	oil Boring SB-3			
around	Soil	Chloride	PID	Petroleum Pet	roleum			Soil Boring SB-3	
ground surface		Field Test	-	Odor S None M	<u>Stain</u> None None	Soil Description Surface - 2' - Sand, brown, fine grained and caliche, dry with some organics 2 - 5' - Sand, tan with caliche nodules, dry	Date Drilled. January 20, 2010 Thickness of Bentonitie Seat. 15 FL Depth of Exploratory Boring <u>15 FL br</u> Depth to Forundwater Ground Water Bevellon		
- - - - - - - - - - - - - - - - - - -		188 132	6.2 23.7		None None	5 - 15' - Sand, tan, very fine grained with caliche nodules, dry	⊽ ₹	Indicates the PSH level measured on	

adysis. eading in ppm obtained in the second second

Completion Notes

1.) The monitor well was advanced on date using air rotary drilling techniques.

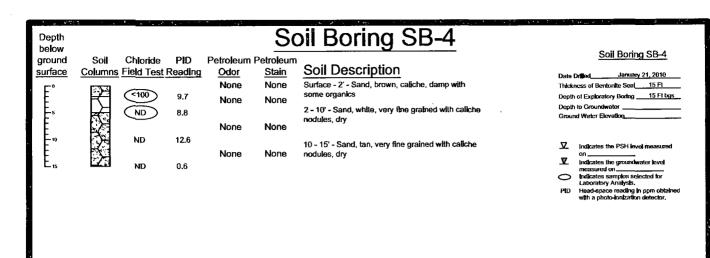
The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be

BOPCO Soil Boring SB-3 Poker Lake #227 Eddy County, New Mexico

1.00

Basin Environmental Consulting

Prep By: CDS Apr**il** 30, 2010



Completion Notes

1.) The monitor well was advanced on date using air rotary drilling tochniques. The lines between material types shown on the profile tog represent approximate boundaries. Actual transitions may be gradual.

BOPCO Poker Lake #227 Eddy County, New Mexico

Soil Boring SB-4

Basin Environmental Consulting

Checked By: CJB

Prep By: CDS Aprll 30, 2010

Depth										
below ground	Soil	Chloride	PID	Petroleum I	Petroleum					Soil Boring SB-5
surface	<u>Columns</u>	Field Test	Reading	<u>Odor</u> None	<u>Stain</u> None	Soil Description Surface - 5' - Sand, brown, find	e grained, with	h		DrilledJanuary 21, 2010 ness of Bentonite Seat15 Fi
Ē	R	856	24.9	None	None	caliche, dry with some organic 5 - 10' - Sand, white to tan, ver		d with		n of Exploratory Boring <u>15 Ft bgs</u> n to Groundwater
	<u>s</u>		26.5	None	None	caliche nodules, dry	, <u>3</u>			nd Water Elevation
- 10	\sum	ND	17.2			10 - 15' - Sand, tan, very fine g	grained with ca	aliche	⊻	Indicates the PSH level measured
Ē.	2	ND	18.5	None	None	nodules, dry			.₩.	on Indicates the groundwater level measured on
a a									O PID	Indicates samples selected for Laboratory Analysis, Head-space reading in ppm obtained
										with a photo-ionization detector.
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S	oil Bor	ing SB	8-5		oker L	.ake #227	Dasi	Prep By: CDS	me	Checked By: CJB
4				Eddy (Count	y, New Mexico		April 30, 2010		

Depth								
below ground	Soil Chlo		Petroleum Petrol	leum			Soil Boring SB-6	
surface	Columns Field	Test Reading	<u>Odor</u> <u>Sta</u> None Nor	ain Soil Description			DrilledJanuary 21, 2010 mess of Bentonite Seat15 Fi	
Ē		<	None No None No	some organics Ne 2 - 5' - Sand, white, fine gra		Dept	h of Exploratory Boring <u>15 Ft bgs</u> h to Groundwater	
			None No	nodules, dry Ne 5 - 15' - Sand, tan, very fine	e grained with caliche	Grou	nd Water Elevstion	
	ND	20.6	None No	nodules, dry	· ····	<u>v</u>	Indicates the PSH level measured	
) E ₁₅	ND	22.3					Indicates the groundwater level measured on Indicates samples selected for	
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s s	oil Boring	SB-6	Poke	er Lake #227	Prep By		Checked By: CJB	
			Eddy Cou	unty, New Mexico			4 ,	

Appendix B Analytical Reports

,



PHONE (575) 393-2328 . 101 E. MARLAND . HOBBS, NM 88240

August 12, 2009

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

Re: CPL-09-02 (Unit 227)

Enclosed are the results of analyses for sample number H17934, received by the laboratory on 08/06/09 at 3:20 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Method SW-846 8260 Method TX 1005 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes Total Petroleum Hydrocarbons

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

Total Number of Pages of Report: 6 (includes Chain of Custody)

Sincerely

Celey D. Keene Laboratory Director

This report conforms with NELAP requirements.



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

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

Receiving Date: 08/06/09 Reporting Date: 08/07/09 Project Number: CPL-09-02 Project Name: UNIT 227 Project Location: WEST OF CARLSBAD Analysis Date: 08/07/09 Sampling Date: 08/06/09 Sample Type: SOIL Sample Condition: COOL & INTACT @ 5°C Sample Received By: ML Analyzed By: HM

		CI
LAB NO.	SAMPLE ID	(mg/kg)
H17934-1	#1 @ 6"	2,080
H17934-2	#1 @ 2 FT.	2,520
H17934-3	#2 SURFACE	19,600
H17934-4	#3 SURFACE	13,000
H17934-5	#4 SURFACE	11,600
H17934-6	#4 @ 1'	3.040
H17934-7	#5 SURFACE	9,700
H17934-8	#5 @ 1'	2,840
H17934-9	#6 SURFACE	18,000
H17934-10	#6 @ 1'	48
H17934-11	#7 SURFACE	. 12,400
H17934-12	#7 @ 1'	832
H17934-13	#8 SURFACE	• 19,000
H17934-14	#8 @ 1'	288
H17934-15	#9 SURFACE	16,600
H17934-16	#9 @ 6"	320
Quality Cont	rol	490
True Value (20	500
% Recovery		98.0
Relative Per	cent Difference	< 0.1

METHOD: Standard Methods

Note: Analyses performed on 1:4 w:v aqueous extracts. Not accredited for Chloride.

1661 Chemist

4500-CFB

Date

H17934 BOPCO

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's erclusive runnedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyse. All claims, including those for negligence and any other clusse whatsoever shall be deemed waived unless made in writing and received by Cardinal writin thirty (30) days after completion of the applicable service, to no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiable affiliates or successors ansing out of or related to the performance of services harounder by Cardinal, regardless of whother such claim is based upon any of the above-stated reasons or otherwise. Result rolate only to the samples klamited above, this report shall not be reproduced except in full with written approval of Cardinal Lateratores.



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

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

Receiving Date: 08/06/09 Reporting Date: 08/11/09 Project Number: CPL-09-02 Project Name: UNIT 227 Project Location: WEST OF CARLSBAD, NM Sampling Date: 08/06/09 Sample Type: SOIL Sample Condition: COOL & INTACT @ 5°C Sample Received By: ML Analyzed By: AB

GRO	DRO
(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₃)
(ma/ka)	(mo/ka)

LAB NUMBER SAMPLE ID

(mg/kg) (mg/kg)

ANALYSIS D	ATE:	08/10/09	08/10/09	
H17934-1	#1 @ 6"	905	2,990	
H17934-2	#1 @ 2 FT	1,260	6,600	
H17934-7	#5 SURFACE	<50.0	3,430	
H17934-8	#5 @ 1'	<10.0	<10.0	
H17934-15	#9 SURFACE*	<10.0	<10.0	
Quality Contr	ol	590	584	
True Value Q	С	500	500	
% Recovery		118	117	
Relative Perc	ent Difference	1.1	0.5	

METHOD: SW-846 8015 M. Reported on wet weight. Not accredited for GRO/DRO. *Surrogate for DRO outside historical limits due to matrix interference.

hemis

H17934 T BOPCO

PLEASE NOTE. Lisbility and Damages. Cardinal's vahility and cleant's exclusive remedy for any claim arising, whether based in contract in fort, shall be intified to the amount paid by clean for analyses All claims, including those for might encode whatsoever shall be deemed waived unless made in writing and leceived by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential diamages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsolutions affiliates or successors arising 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. Result relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

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

Receiving Date: 08/06/09 Reporting Date: 08/10/09 Project Number: CPL-09-02 Project Name: UNIT 227 Project Location: WEST OF CARLSBAD Sampling Date: 08/06/09 Sample Type: SOIL Sample Condition: COOL & INTACT @ 5°C Sample Received By: ML Analyzed By: ZL

LAB NO. SAMPLE ID

ETHYL TOTAL BENZENE TOLUENE BENZENE XYLENES (mg/kg) (mg/kg) (mg/kg) (mg/kg)

ANALYSIS DATE:	08/07/09	08/07/09	08/07/09	08/07/09
H17934-2 #1@2FT	1.30	3.99	3.22	11.0
H17934-15 #9 SURFACE	<0.050	<0.050	<0.050	<0.300
		alaan ah u katalaan ah ah ti ti ti ti ta ta sa ah	. Mars	• .,
Quality Control	0.047	0.048	0.048	0.145
True Value QC	0.050	0.050	0.050	0.150
% Recovery	94.0	96.0	96.0	96.7
Relative Percent Difference	5.1	1.6	11.4	9.2

METHODS: BTEX - SW-846 8021B.

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

Chemist

116/119 Date

H17934 BTEX BOPCO

PLEASE NOTE Liability and Damages. Cardinal's liability and client's exclusive remody for any claim arising, whether based in contract or licit, shall be indiced 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 the event shall Cardinal to incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidianes, affinities or successory ansing out of or related to the performance of services terewarker by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Pesults relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories. DONNAL I AROPATORIES

101 East Marland, Hobbs, NM 88240 (575) 393-2326 Fax (575) 393-2476	e-mail tasavoie	3 basspet.com	Page of
Pempany Name: B.C.P.C.O.KP	BILL TO		NALYSIS REQUEST
Ojoct Manager: TONY SULVOIC	P.Q. #:		
Idress: 922 WISL MARMOR SULA 704	Company:		
ty: CARLSDAR State: NMZip: 88224			
10ne #: 575-631-7110 Fax #:	Address:		
oject #: $C. PL - 0^{\circ} - 0^{\circ}$ Project Owner.	City:		
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oject Location: West AF Car Libba R	Phone #:		
Impler Name: Tex; Southand	Fax #:	21	
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	F 11:40	rn	
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101 East Marland, Hobbs, NM 88240

(575) 393-2326 Fax (575) 393-2	\$76			Page	of
	· P	BILL TO		ANALYSIS REQU	EST
Project Manager: TONY SAVEIC	, , , , , , , , , , , , , , , , , , ,	P.O. #:			
Address: 522 W. Mermol		Company:			
City: CarLoba & State: NW	ZID: 555220	Attn:			
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August 30, 2009

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

Re: UNIT 227 TEMP. PIT

Enclosed are the results of analyses for sample number H18103, received by the laboratory on 08/27/09 at 1:15 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Method SW-846 8260 Method TX 1005 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes 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 Method EPA 524.2 Method EPA 524.2 Haloacetic Acids (HAA-5) Total Trihalomethanes (TTHM) Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 4 (includes Chain of Custody)

Sincerel

Celey D. Keene Laboratory Director

This report conforms with NELAP requirements.

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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Page____ of ____

(575) 393-2326 Fax (575) 393-2476

(575) 393-2326 Fax (575) 393-2476		° v€ °
Company Name: 3.0.P.C.O. LP	BILL TO	ANALYSIS REQUEST
Project Manager: TONY Savoic	P.O. #:	
Address: 522 W. Mermod, Suite 704	Company:	
City: CArLobad State: NM Zip: 88220	Attn:	
Phone #: 432-556-8730 Fax #: 575-887-7473	Address:	
Project #: Project Owner:	City:	
Project Name: Unit 227 Temp. P: +	State: Zip:	
Project Location: - tors Fast OF Carlsbad	Phone #:	a
Sampler Name: Tay Sauce	Fax #:	
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-4 Pi+ Z 9" GI V	r r 0825	
-5 Pit 3 SUFFACE GIL	r - 0830	
-4 Pit 3 1' GI M	- 0833	
-7 Pit 4 SurFace GI	F F 0833	
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affiliates or successors arising out of or related to the performance	of cervices hereunder by C	ardinal, regardless of whether such claim is based up	oon any of the above stated re-	isons of otherwise			
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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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PLEASE NOTE: Liability and Damages. Catchear's kability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All chains including those for negligence and sity other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or tass of profits incurred by client, its subsidiaries,

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ANALYTICAL RESULTS FOR B.O.P.C.O. LP ATTN: TONY SAVOIE 522 WEST MERMOD, SUITE 704 CARLSBAD, NM 88220 FAX TO: (575) 887-7473

Receiving Date: 08/27/09 Reporting Date: 08/28/09 Project Number: NOT GIVEN Project Name: UNIT 227 TEMP. PIT Project Location: EAST OF CARLSBAD Analysis Date: 08/28/09 Sampling Date: 08/27/09 Sample Type: SOIL Sample Condition: COOL & INTACT @ 4°C Sample Received By: ML Analyzed By: NF/HM

~ ~ ~

		C
LAB NO.	SAMPLE ID	(mg/kg)
H18103-1	PIT 1 SURFACE	31,200
H18103-2	PIT 1 1'	10,600
H18103-3	PIT 2 SURFACE	880
H18103-4	PIT 2 9"	80
H18103-5	PIT 3 SURFACE	10,800
H18103-6	PIT 3 1'	3,920
H18103-7	PIT 4 SURFACE	4,240
H18103-8	PIT 4 14"	5,280
H18103-9	PIT 5 SURFACE	16,800
H18103-10	PIT 5 1'	9,600
H18103-11	PIT 6 SURFACE	44,400
H18103-12	PIT 6 6"	10,400
H18103-13	PIT 7 SURFACE	4,560
H18103-14	PIT 7 6"	16,800
H18103-15	PIT 8 SURFACE	9,400
H18103-16	PIT 8 6"	4,400
Quality Cont	rol	500
True Value (20	500
% Recovery		100
Relative Per	cent Difference	2.0

METHOD: Standard Methods

4500-CI'B

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

lohi Chemist

Date

H18103 BOPCO

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 walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shell 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 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.



October 7, 2009

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

Re: CLP-09-02

Enclosed are the results of analyses for sample number H18381, received by the laboratory on 10/01/09 at 5:35 pm.

Cardinal Laboratories is accredited through Texas NELAP for

Method SW-846 8021 Method SW-846 8260 Method TX 1005 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes 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 Tribalomethanes (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..

Celev 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: 10/01/09 Reporting Date: 10/05/09 Project Number: CLP-09-02 Project Name: POKER LAKE UNIT 227 Project Location: POKER LAKE UNIT 227 Analysis Date: 10/02/09 Sampling Date: 10/01/09 Sample Type: SOIL Sample Condition: INTACT @ 9°C Sample Received By: HM Analyzed By: HM

		сГ
LAB NO.	SAMPLE ID	(mg/kg)
H18381-1	PIT BASE LINE	< 16
H18381-2	ROAD BASE LINE	4,960
H18381-3	RUN OFF BASE LINE	< 16
H18381-4	RUN OFF #1 SAMPLE #6	6,480
H18381-5	RUN OFF #1 SAMPLE #2	27,600
H18381-6	RUN OFF #1 SAMPLE #10	13,800
H18381-9	TB #7 3' BGS	1,380;
H18381-10	RUN OFF #2 SAMPLE #1	10,400
H18381-11	RUN OFF #2 SAMPLE #5	7,800
H18381-12	RUN OFF #2 SAMPLE #10	6,500
		· · · · · · · · · · · · · · · · · · ·
<u>Augustine Const</u>		500
Quality Cont	and a second and the second and the second and second and the second secon	500
True Value (ی در ویوارد این اور اور اور این اور استارین در در بازی بر بایستان اور ایر استان اینان در این این اور	100
% Recovery	and the second	2.0
relative rel	cent Difference	4.9)
METHOD: Sta	ndard Methods	4500-CI'B.

Note: Analyses performed on 1:4 w:v aqueous extracts. Not accredited for Chloride.

Chemist

Date

H18381 BOPCO

PLEASE MOTE Liability and Damagos. Condinal's bability and client's exclusive remony for any clean assume, whether based in contract or roll shall be institute (or the amount baild by clean for analyzes At cleans, including those for negligence and any other close whatspever shall be deamed waived unless made in writing and received by Cardinal within they (39) days after completion of the applicable service in no event shall Cardinal be hand for unidential or consequential damages. Including, without imitation, business instructions, loss of task, or loss of brokes incurred by Client, re-subsidiates as subservices are right and of or related by Client, re-subsidiates of whether business are under used of or related to the performance of whether deviced by Cardinal behaved in a subservices are using as intervalents in the entities of whether business of whether business of whether based upon any of the above-stated reasons or otherwise. Results within written approval of Cardinal Laborations.



ANALYTICAL RESULTS FOR B.O.P.C.O. LP ATTN: TONY SAVOIE 522 WEST MERMOD, SUITE 704 CARLSBAD, NM 38220

Receiving Date: 10/01/09 Reporting Date: 10/05/09 Project Number: CPL-09-02 Project Name: POKER LAKE UNIT 227 Project Location: POKER LAKE UNIT 227 Sampling Date: 10/01/09 Sample Type: SOIL Sample Condition: INTACT @ 90C Sample Received By: HM Analyzed By: AB

	GRO	DRO
(C_{6} - C_{10})	(>C ₁₀ -C ₂₆)
, ¹	ma/ka)	(ma/ka)

LAB NUMBER SAMPLE ID

ANALYSIS DA	an an ang ang ang ang ang ang ang ang an	10/03/09	10/03/09
H18381-7*	TB #7 1' BGS	128	420
H18381-8	TB #7 2' BGS	875	2,400
H18381-9	TB #7 3' BGS	1,150	2,810
Quality Contro		567	595
True Value Q0	NA CONTRACTOR AND	500	500
% Recovery	in a second and a second s	113	119
Relative Perci	ent Ditference	1.8	0.11

METHOD: SW-846 8015 M. Reported on wet weight. Not accredited for GRO/DRO.

*TPH surrogates out of historical limits due to matrix interference.

Chemist

Dale

H18381 T BOPCO

FLEASE NOTE: Liability and Damages. Cardinal's lobsity and clienc's exclusive remedy for any claim unsing, whether based in contract or tod, shall be leveled to the amount pair by client for androsci. All claims, including those for negligance and any other cause whitesenia whether waved unless made in writing indirectived by Cardinal within terry 150 days effect comparish of consequential demographic including, without finitesenia to a syntable service in no event shall be leveled to the produced by client for any other cause whitesenia demographic including, without finitesenia to an explicitly and part of consequential demographic demographic including, without finitesenia burnetices and explicitly of under the advective of provide sources bereated by Cardinal, together such claims is based upon any of the above-stated reasons or otherwise. Results and only other samples identified is the performance of generals bereated or capital of provide or capital or consequential or consequential or consequential or consequential demographic including, without finitesenia or cliences and any other sectors bereated by client in the sectors are clienced or cause of provide or cause of control of provide a sectors bereated or consequential or consequential demographic or cliences or cliences



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

Receiving Date: 10/01/09 Reporting Date: 10/06/09 Project Owner: BOPCO L.P. (CLP-09-02) Project Name: POKER LAKE UNIT 227 Project Location: POKER LAKE UNIT 227 Sampling Date: 10/01/09 Sample Type: SOIL Sample Condition: INTACT @ 9°C Sample Received By: HM Analyzed By: ZL

ETHYL TOTAL

LAB NO. SAMPLE ID

BENZENE TOLUENE BENZENE XYLENËS (mg/kg) (mg/kg) (mg/kg) (mg/kg)

ANALYSIS DATE:	10/05/09.	10/05/09.	10/05/09	10/05/09
H18331-9 TB #7 3' BGS	0.609	3.40	3.68	11.9
	· · · · · · · · · · · · · · · · · · ·	ہ میں میں ہے ا	· · · · · ·	
Quality Control	0.060	0.052	0.048	0.165
a a na serie a serie de la companya de la companya Mana de la Carlo de la companya de la	0.050	0.050	0.050	0 150
True Value QC	المحادية فيلا	100 m 100 m 100 m	A. 1. 10 A. 44	
% Recovery	120	104	96.0	109

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

Date

Lab Director

H18381 BTEX BOPCO

PLEASE NOTE: Liability and Damages. Cardinal's balaxy and clent's exclusive remedy for any claim ansing, whether based in contract or tert, shall be limited to the emount paid by clent for enalyses. All cleans, inducing these for neglogence and any other cause whatsoever shall be deemed waived duless made in writing and received by Cardinal within thirty (30) days after completion of the opplicable service, in no event shall Cardinal be highle for incidents or consequences, including, without limited to business interceptions, loss of use, or loss of profils incurred by cleant is subsidiaries, activate water and classes, including, without limited to business interceptions, loss of use, or loss of profils incurred by cleant is subsidiaries a value of an event shall be the approval of the explicitly incurred by cleant, is subsidiaries and indicated by cleant is subsidiaries or successive and and or cleant and the provide the portion and cleant or provide the portion and cleants a value of the explicitly and the portional be indicated by a portional be tended to the portion and the indicated by a portional be tended to the portion and the indicated here portion and an area of the provide accepted by a cleant damage. Received and a service of the approval of cardinal belant in a power-stated reasons or otherwise. Receive reliable only to the samples identified above-stated reasons or otherwise. Receive the approval of Cardinal Laboratones.

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

(575) 393-2326 Fax (575) 393-2	476	Fourof								
Company Name: BDPCD		BILL TO	ANALYSIS REQUEST							
Project Manager: Tony Savare		P.O. #:								
Address: 522 W. Marnob Switch Do	Q.A.	Company:								
City: Carlsbad State: N.M.		Attn:								
Phone #: 432-556 8730 Fax #: 575	887-7473	Address:								
Project #: (PL-09-02 Project Owne	n BOPCO, L.P.	City:								
Project Name: Wast 227 Envirit to saver	Rebaus peter Com.	State: Zip:								
Project Location Pake Lake and 227		Phone #:								
Sampler Name: Joby Walters	ֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈ	Fax #:								
FOR GRUDE DRIV	MATRIX	PRESERV. SAMPLING								
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- 2 Row Base ling		X. 10.01.09 14:30								
3 Par off Baseline	6 · · · · · · · · · · · · · · · · · · ·	X 10.01-05 14:35								
TY Run off #1 SAMPLE #16	X X	X 10-01-09 1440 X 10-01-09 14:45								
Sanoff # 1 Sample 200	Ğ	X 10-01-09 14750								
-? TB #7 1'345	G Y	X 10:01.09 15:00								
X - TBH 7 - 21 BHS -	G	X 10+01-09 15:10								
-4 TB +12 3' B65		X 10-01-07 15:20								
- 10 Rimoff #1 Z Sa - 7/2 # /	1611 - X an ann marchaithe bhain a contra	X 10-31-69 15:25								

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Sample/Relinquished: Date: 10-D1 Time:	-D9 Received By:	Phone Result: C No Add'I Phone #: Fax Result: C No Add'I Fax #: REMARKS:
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Delivered By: [Circle One]	Temp. Sample Condition CHECKED BY:	
Sampler - UPS - Bus - Other:	$\begin{array}{ccc} Cool & Intact & (Initials) \\ \hline \gamma & \Box & Yes & Yes & +f_{SL} \\ \hline & No & No & No \end{array}$	

+ Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

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(575) 393-2326 Fax (575) 393-2476

(0/0) 000-Z0Z0 F8X (0/0) 090-Z4/0		Fage us									
Company Name: BOPCO	BILL TO	ANALYSIS REQUEST									
Project Manager: Tony Sausie	P.O. #										
Address: 52200 mermed Suite 204	Company:										
City: Carlisbad State: 777 Zip: 88270	Attn:										
Phone #: 132 551. 8750 Fax #: 575-887.7473	Address:										
Project #: CP1-09-02 Project Owner: BOPCO, L.P.	City:										
Project Name: Pela Lake Unil 227 Emert, tesa vor: @ basspela											
Project Location: Dake take weed 227	Phone #:										
Sampler Name: 563. Walters	Fax #:										
PORCHAUSE ONLY MATELY	PRESERV. SAMPLING										
Lab I.D. Sample I.D. HING Sample 4.5	OTHER CONCERSE CONCE										
His 381-11 Runshi H2 Sample # 5 G X 1000 -12 Runoff #2 Sample #10 G X	× 10.01 15:30 × × 10.01 15:35 F										
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Sampler - UPS - Bus - Other:	90	Pres Pres k			
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"PROFILE PROFILE STATES AND ADDRESS AND ADDRESS AND ADDRESS ADDRES

+ Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



October 26, 2009

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

Re: Poker Lake Unit #227 (CPL-09-02)

Enclosed are the results of analyses for sample number H18571, received by the laboratory on 10/26/09 at 8:40 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Method SW-846 8260 Method TX 1005 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes 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 Method EPA 524.2 Method EPA 524.2 Haloacetic Acids (HAA-5) Total Trihalomethanes (TTHM) Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely,

Celey D/ Reene Laboratory Director



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

ANALYTICAL RESULTS FOR B.O.P.C.O. LP ATTN: TONY SAVOIE 522 WEST MERMOD, SUITE 704 CARLSBAD, NM 88220 FAX TO: (575) 887-7473

Receiving Date: 10/26/09 Reporting Date: 10/26/09 Project Number: CPL-09-02 (BOPCO, LP) Project Name: POKER LAKE UNIT #227 Project Location: EDDY CO., NM Analysis Date: 10/26/09 Sampling Date: 10/21/09 Sample Type: SOIL Sample Condition: INTACT @ 14.5°C Sample Received By: ML Analyzed By: HM

сĒ

		CI
LAB NO.	SAMPLE ID	(mg/kg)
H18571-1	BACKGROUND 2'	16
H18571-2	BACKGROUND 5'	16
H18571-3	BACKGROUND 9'	32
H18571-4	BACKGROUND 11'	96
Quality Co	ntrol	500
True Value	QC	500
% Recover		100
Relative P	ercent Difference	< 0.1

METHOD: Standard Methods 4500-CI'B Note: Analyses performed on 1:4 w:v aqueous extracts. Not accredited for Chloride.

len

10/26/09 Date

H18571 BOPCO

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 profils incurred by client, its subsidiaries, affiliates or successors arising 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. Results relate only to the samptes identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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101 East Marland, Hobbs, NM 88240		i 1
(575) 393-2326 Fax (575) 393-2476		Page_fof
Company Name: 604 CO	BILL TO	ANALYSIS REQUEST
Project Manager: Tony SAVoie	P.O. #:	
Address: 522 W: Mermal Suite 704	Company:	
city: CArlsbacl State: NMZip: 88520	Attn:	
Phone # (432) 556 - 8730 Fax #: (575) 887 - 7473	Address:	
Project #: CP - 09 - 02 Project Owner: BOPCO, LP	City:	
Project Name: POKET Lake Unit #227	State: Zip:	and the second s
Project Location: Eduly Co, MM	Phone #:	
Sampler Name: TRoy Nahn	Fax #:	
FOR LAB USE ONLY	PRESERV. SAMPLING	
	And	
CCJOMP ATER ER	1001	parid
Lab I.D. Sample I.D.	ASE:	
Tap I'D Samble I'D Recound wastewater If containers Soll OIL	OTHER: ACID/BASE: OTHER: BWILL BLAC	5
	10/21 0836	
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- 4 Brekgourd II' & X	10/2/ 0950	┦┻┟─┼─┼─┼─┼─┼─┼─┼─┼─
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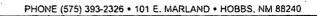
PLEASE NOTE: Liability and Damages. Carolinats itability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the

analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unloss made to writing and received by Cardinal within 30 days after completion of the applicable

service. In no event stall Cardinal be liable for inclusively or consequential damages, including without limitation, business interruptions, loss of use, or loss of profile incurred by client, its subcititaries, difficults or successors of sime out of or related to the performance of services hereunder or Cardinal reparties of whother such stating is based upon any of the above stated respons or otherwise.

Sampler Relinquished:	Date:/ / Received By:	Phone Result	Ő	No	Add'l Phone #:	
	10/26/09	Fax Result:	۵	No	Add'l Fax #:	
TRoy Nahm	Time 0900	REMARKS:				
Relinquishad By:	Dato: WALCA Time: G.H. Moto Long	4 · · · · · · · · · · · · · · · · · · ·				
Delivered By: (Circle One)	Temp. Sample Condition CHECKED B	Y:				
Sampler - UPS - Bus - Other:	Cool Intact (Initials)	B				

+ Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.





December 16, 2009

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

Re: BOPCO (Poker Lake 227)

Enclosed are the results of analyses for sample number H18886, received by the laboratory on 12/16/09 at 8:45 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Method SW-846 8260 Method TX 1005 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes 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 Method EPA 524.2 Method EPA 524.2 Haloacetic Acids (HAA-5) Total Trihalomethanes (TTHM) Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (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: 12/16/09 Reporting Date: 12/16/09 Project Number: CPL-09-02 (BOPCO) Project Name: POKER LAKE 227 Project Location: EDDY CO., NM Analysis Date: 12/16/09 Sampling Date: 12/15/09 Sample Type: SOIL Sample Condition: INTACT @ 10.5°C Sample Received By: AB Analyzed By: HM

		CI
LAB NO. SAMPLE I	D	(mg/kg)
H18886-1 BF 1		32
H18886-2 BF 2		48
H18886-3 BF 3		32
H18886-4 BF 4		32
H18886-5 BF 5		128
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Differe	nce	< 0.1

METHOD: Standard Methods4500-CI'BNote: Analyses performed on 1:4 w:v aqueous extracts.

0 Chemist

12/11/129

Date

H18886 Basin Environmental

PLEASE NOTE: Liability and Damagos. 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 profils incurred by client, its subsidiaries, affiliates or successors arising 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. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

101 East Marland, Hobbs, NM 88240

(575) 393-2326 Fax (575) 393-2476

Page_____ of_____

Company Name: BASIN					811	L TO			 ****	ANA	LYSIS	S REC	QUEST	r	
Project Manager: CAMILLE BCHANT				P.O. #:					T		T		T		
Address: JOIDD PLAINS HWY	ddress: DOLO PLAINS HWY			Co	mpany: 🔊	rca_									
City: LOUINDETON State: NM	Zip:	. 8	18260		IN: TONY		Ę								
Phone #: 575 394-2378 Fax #: 575				1	dress:										
Project #: CPL-09-02 Project Owner:				Cit	у:										
Project Name: POLER LAKE 237				Sta	nte: Z	lip:									
Project Location: EDBY NM				Ph	one #:										
Sampler Name: JOPY WALTERS				Fax	ĸ #:			(125/7						-	
For LAB USE CHLY Lab 1.D. H18886-1 BF 1 -L BF 2 -3 RF 3 -4 BF 4 -5 RF5	COMP.		GROUNDWATER WASTEWATER Soll SLUDGE	OTHER:		DATE	TIME 2:00 2:10 2:20 2:20 2:20 2:20	XXXX CHLORINES &							

PLEASE NOTE: Vability and Damages, Carolinal's liability and client's exclusive remady for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the

analyses. All chains including these for negligence and any other cause whatseever shall be deemed wated unless made in writing and received by Caudatal within 30 days after completion of the applicable

service. In no event shall Cardinal be libble for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

anisation of successors arising out of or related to the portorman	ce of services hereunder by Cardinal, re	gardless of whether such claim is based upon any c	if the above stated reasons or otherwise).				
Sampler Relinquished:	Date:	Received By:		Phone Result:	0	No	Add'l Phone #:	
	12/Kol09			Fax Result:	0	No	Add'l Fax #:	
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Relinquished By:	Date:	Received By:	Non-Specific Colorestic Section 11	I AN U	1 VERISA	25	Email to Camilie	14
	12/16/19			Griff				
D ROL	Time:	NF (D)	2				Elo.	
Una	8:45		2°	- Rus	4			
Delivered By: (Circle One)		Temp. Sample Condition	CHECKED BY:		7			
	JE 26	10.5° Intact	¥B					
			<i>w</i> 1					



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

December 23, 2009

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

Re: BOPCO (Poker Lake 227)

Enclosed are the results of analyses for sample number H18919, received by the laboratory on 12/21/09 at 11:00 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Method SW-846 8260 Method TX 1005 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes 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 Method EPA 524.2 Method EPA 524.2 Haloacetic Acids (HAA-5) Total Trihalomethanes (TTHM) Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely

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: 12/21/09 Reporting Date: 12/22/09 Project Number: CPL-09-02 (BOPCO) Project Name: POKER LAKE 227 Project Location: EDDY CO., NM Analysis Date: 12/21/09 Sampling Date: 12/18/09 Sample Type: SOIL Sample Condition: COOL & INTACT @ 3°C Sample Received By: AB Analyzed By: HM

			СГ
LAB NO.	SAMPLE ID		(mg/kg)
H18919-1	BF 6		208
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		•	
Quality Contr	ol	ĺ	500
True Value Q			500
% Recovery			100
	ent Difference		< 0.1
L	· · · · · · · · · · · · · · · · · · ·	1	

METHOD: Standard Methods4500-CI'BNote: Analysis performed on a 1:4 w:v aqueous extract.

m Chemist

12/23/09

Date

H18919 Basin Environmental

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101 East Marland, Hobbs, NM 88240

101 East Marland, Hobbs, NM 88240 (575) 393-2326 Fax (575) 393-2														Page_	of	4		
Company Name: BAS & ENY.				BILL TO				ANALYSIS REQUEST										
Project Manager: CAMILE BRYANT				P.O. #: CP2-09-02														
Address: 2900 PLAINS NWY				Company: Bofco														
City: LOUINGTON State: NM	Zip):	88265		tn: Towi		1052]						1				
City: DUINETON State: NM Zip: 88265 Phone #:575 396 - 2378 Fax #: 575 396 - 1929					ldress:													
Project #: CP2 · 09-01 Project Owned	er: 🔏	00	c0	Ci	ty:													
Project Name: POKER LATE 227		and the set where		St	ate:	Zip:												
Project Location: EDDY ~~				Ph	ione #:													
Sampler Name: JODY WATTERS				Fa	x #:													
FOR LAB USE ONLY			MATRIX		PRESERV	SAMPL	NG											
Lab I.D. Sample I.D.	C (G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	THER:	ACID/BASE: ICE / COOL OTHER :	DATE	TIME	CHIORIOES										
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PLEASE NOTE: Liability and Damages. Candinal's liability and client's exclusive re- analyses. All claims including those for negligence and any other cause whatsoever shall be de- service. In owner shall Certinal be able for incidental or consequental damages, including w officatos or successors anismo out of or related to the performance of services horsunder by Ca	emad wain thata limat	neo unia aliron, b	sas mata in writing and receive usiness interruptions, loss of u	sa by (sa, or	Cardinal within 30 o loss of profils inco	lays alter complet ered by client, its	ion of the applicabl lubsidiaries,		I the clien	for the			<u></u>		L	L	L	1
Sampler Relinquished: Ja/18/09 Time: S:45 Refinquished By: Date:	Re	iceiv El	red By:				Phone Resul Fax Resul REMARKS	t:	0		No No	Add'l Phone Add'l Fax #:	#:					

CHECKED BY:

A (Initials)

CALL ER W/DER BARS

575 8 408-3450

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

#26

Date: 12/21/09 Time: 11-00

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Temp.

300

Sample Condition

Yes X Yes

Cool Intact



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

February 1, 2010

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

Re: Poker Lake #227 (BOPCO CPL-09-02)

Enclosed are the results of analyses for sample number H19139, received by the laboratory on 01/25/10 at 12:25 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Method SW-846 8260 Method TX 1005 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes 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 Method EPA 524.2 Method EPA 524.2 Haloacetic Acids (HAA-5) Total Trihalomethanes (TTHM) Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 6 (includes Chain of Custody)

Sincerely

Laboratory Director



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

ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC ATTN: CAMILLE BRYANT P.O. BOX 381 LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 01/25/10 Reporting Date: 01/27/10 Project Number: CPL-09-02 (BOPCO) Project Name: POKER LAKE #227 Project Location: EDDY CO., NM Analysis Date: 01/26/10 Sampling Date: 01/20/10 & 01/21/10 Sample Type: SOIL Sample Condition: COOL & INTACT @ 2.5°C Sample Received By: CK Analyzed By: HM

		CI
LAB NO.	SAMPLE ID	(mg/kg)
H19139-1	SB-1 @ SURFACE	4,160
H19139-2	SB-1 @ 5'	2,800
H19139-3	SB-1 @ 10'	192
H19139-4	SB-1 @ 15'	48
H19139-5	SB-2 @ 2	5,360
H19139-6	SB-2 @ 5'	416
H19139-7	SB-3 @ 2'	160
H19139-8	SB-3 @ 5'	32
H19139-9	SB-4 @ 2'	1,470
H19139-10	SB-4 @ 5'	112
H19139-11	SB-5 @ 2'	1,100
H19139-12	SB-5 @ 5'	< 16
H19139-13	SB-6 @ 2'	3,440
H19139-14	SB-6 @ 5'	176
Quality Cont	irol	510
True Value (2C	500
% Recovery		102
Relative Per	cent Difference	< 0.1

METHOD: Standard Methods 4500-CI'B

Note: Analyses performed on 1:4 w:v aqueous extracts. Not accredited for Chloride.

hemis

02/01/10

Date

H19139 Basin Environmental

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ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING ATTN: CAMILLE BRYANT 2800 PLAINS HWY LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 01/25/10 Reporting Date: 02/01/10 Project Owner: BOPCO (CPL-09-02) Project Name: POKER LAKE #227 Project Location: EDDY COUNTY, NM Sampling Date: 01/20/10 - 01/21/10 Sample Type: SOIL Sample Condition: COOL & INTACT @ 2.5⁰C Sample Received By: CK Analyzed By: AB

GRO	DRO	DRO ext.
(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	(>C ₂₈ -C ₃₅)
(mg/kg)	(mg/kg)	(mg/kg)

LAB NUMBER SAMPLE ID

	·			
ANALYSIS D	ATE	01/30/10	01/30/10	01/30/10
H19139-1	SB-1 @ SURFACE	81.0	1,470	188
H19139-2	SB-1 @ 5'	18.1	614	65.4
H19139-3	SB-1 @ 10'	<10.0	115	<10.0
H19139-4	SB-1 @ 15'	<10.0	81.9	<10.0
H19139-5	SB-2 @ 2'	<10.0	<10.0	<10.0
H19139-6	SB-2 @ 5'	<10.0	<10.0	<10.0
H19139-7	SB-3 @ 2'	<10.0	<10.0	<10.0
H19139-8	SB-3 @ 5'	<10.0	<10.0	<10.0
H19139-9	SB-4 @ 2'	<10.0	<10.0	<10.0
H19139-10	SB-4 @ 5'	<10.0	<10.0	<10.0
H19139-11	SB-5 @ 2'	<10.0	<10.0	<10.0
H19139-12	SB-5 @ 5'	<10.0	<10.0	<10.0
H19139-13	SB-6 @ 2'	<10.0	<10.0	<10.0
H19139-14	SB-6 @ 5'	<10.0	<10.0	<10.0
Quality Contro		535	546	
True Value Q	C	500	500	-
% Recovery		107	109	
Relative Perc	ent Difference	10.9	0.6	-

METHODS: TPH GRO & DRO: EPA SW-846 8015 M extended Reported on wet weight. Not accredited for GRO/DRO/DRO Ext.

Directo

H19139 TPHEXT BASIN

02/01/10 Date

Date

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ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING ATTN: CAMILLE BRYANT 2800 PLAINS HWY LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 01/25/10 Reporting Date: 01/27/10 Project Number: CPL-09-02 (BOPCO) Project Name: POKER LAKE #227 Project Location: EDDY CO., NM Sampling Date: 01/20/10 - 01/21/10 Sample Type: SOIL Sample Condition: COOL & INTACT @ 2.5 °C Sample Received By: CK Analyzed By: ZL

	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES
LAB NUMBE SAMPLE ID				
LAD NOMBE SAMIFLE ID	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DATE	01/26/10	01/26/10	01/26/10	01/26/10
H19139-1 SB-1@SURFACE	< 0.050	< 0.050	0.779	0.608
H19139-2 SB-1 @ 5'	<0.050	<0.050	0.199	0.389
H19139-3 SB-1 @ 10'	< 0.050	<0.050	<0.050	<0.300
H19139-4 SB-1 @ 15'	<0.050	<0.050	<0.050	<0.300
H19139-5 SB-2 @ 2'	<0.050	<0.050	<0.050	<0.300
H19139-6 SB-2 @ 5'	<0.050	<0.050	<0.050	<0.300
H19139-7 SB-3 @ 2	<0.050	<0.050	<0.050	< 0.300
H19139-8 SB-3 @ 5'	<0.050	<0.050	<0.050	<0.300
H19139-9 SB-4 @ 2'	<0.050	<0.050	<0.050	< 0.300
H19139-10 SB-4 @ 5'	<0.050	<0.050	<0.050	< 0.300
H19139-11 SB-5 @ 2'	< 0.050	<0.050	<0.050	< 0.300
H19139-12 SB-5 @ 5'	<0.050	<0.050	<0.050	<0.300
H19139-13 SB-6 @ 2'	<0.050	<0.050	<0.050	<0.300
H19139-14 SB-6 @ 5'	< 0.050	<0.050	<0.050	<0.300
Quality Control	0.044	0.042	0.043	0.126
True Value QC	0.050	0.050	0.050	0.150
% Recovery	88.0	84.0	86.0	. 84.0
Relative Percent Difference	<1.0	<1.0	<1.0	<1.0

METHOD: EPA SW-846 8021B

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

Chemist

02/01/10

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(575) 393-2326 Fax (575) 393-2476	Page of	
Company Name: SASIN S.N.V. CORISCUTING	BILL TO ANALYSIS REQUEST	
Project Manager: (Amile SRMANT	P.O. #:	
Address: 2800 PLAINS Huy	Company: BEPCO	
City: LENINGTON State: NM ZID: ERZLOO	AtIN: TOAY SEAUDIES	
Phone #: 575-Las-7210 Fax #: 57.5-396-1429		
Project #: CPL-09-02 Project Owner: BOPCO		
Project Name: POKERLAKE#227	City: State: Zip: Phone #:	
Project Location: EDD/CO, NiM	Phone #:	
Sampler Name: Cut Struly for Amules Bicular	Phone #: DEFBX #: PRESERV. SAMPLING PRESERV. SAM	
FOP LAB USE ONLY	PRESERV. SAMPLING	
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Tap I.D. Sample I.D. H.10138- Scontainers		
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353-1 € 101		
433-12151		
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9 -33-4@2'		
1053-405' VN N	N V 1020 V V	

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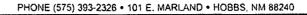
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† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476. + 26

101 East Marland, Hobbs, NM 88240				Page Zor Z	
(575) 393-2326 Fax (575) 393-2476			والمتنبي ويستعدها فتحرج بمستنا فالتشري ويسترو فليتها والمراج		
Company Name: KARSIN ZNUL CASILTING	BILL TO		ANALYSIS RE	QUEST	
Project Manager: (Am ILLE SkilAnt)	P.O. #:				
Address: 2800 RAINS Huy	Company: ROPCO				
City: LOLINGTON State: NM Zip: 88260	Attn: TONEL SAUDIE				
Phone #525-65-7210 Fax #: 575-396-1429	Address:	Q 4			
Project #: UP1-09-02 Project Owner: BOPCO	City:				
Project Name: POKERLARE #2.27	State: Zip:				
Project Location: EDD Co NM	Phone #:	R F D			
	Fax #:	8 8 8			
FOR LAB USE ONLY	PRESERV. SAMPLING				
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analyses. All claims including topsel for noglyporce and any other cause whatsoers while be deemed waiwed unase mode in writing and receive analyses. All claims including topsel for noglyporce and any other cause whatsoers while be deemed waiwed unases mode in writing and receive annote. In no event shall Cardinal be lable for inclonation or correspondent damages, including validout limitation, business interruptions, loss of	ed by Cardinal within 30 days after comptellion of the applicab				
atfiliates or successors arising out of or related to the performance of services repounder by Cardinal, regardless of whether such claim is bas	ed upon any of the above stated ressons or otherwise.				
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Sampler Relinquished:	Date Received By:	Phone Result:	D	No	Add'I Phone #:
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Sampler - UPS - Bus - Other:	$\begin{array}{c} Cogl [intact \\ Yes \ \Box \ Yes \ Unitial \ Yes \ $				

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





February 1, 2010

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

Re: Poker Lake 227 Battery (BOPCO)

Enclosed are the results of analyses for sample number H19149, received by the laboratory on 01/26/10 at 3:15 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Method SW-846 8260 Method TX 1005 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes 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 ATTN: CAMILLE BRYANT 2800 PLAINS HWY LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 01/26/10 Reporting Date: 02/01/10 Project Owner: BOPCO Project Name: POKER LAKE 227 BATTERY Project Location: EDDY COUNTY, NM Sampling Date: 01/25/10 Sample Type: SOIL Sample Condition: COOL & INTACT @ 3⁰C Sample Received By: JH Analyzed By: AB

GRO	DRO	DRO ext.
(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	(>C ₂₈ -C ₃₅)
(mg/kg)	(mg/kg)	(mg/kg)

LAB NUMBER SAMPLE ID

ANALYSIS D	DATE	01/30/10	01/30/10	01/30/10
H19149-1	SAMPLE 101 2 1/2'	<10.0	<10.0	<10.0
H19149-2	SAMPLE 102 2 1/2'	<10.0	<10.0	<10.0
H19149-3	SAMPLE 103 2 1/2'	<10.0	<10.0	<10.0
H19149-4	SAMPLE 104 2 1/2'	<10.0	<10.0	<10.0
H19149-5	SAMPLE 105 2'	<10.0	<10.0	<10.0
	generation approxim approxim sectors papers meterics and its analysis approximate transmission approximate transmission approximate approx			
Quality Contr	ol	535	546	-
True Value C	2C	500	500	-
% Recovery		107	109	-
Relative Perc	cent Difference	10.9	0.6	-
				a server constant server.

METHODS: TPH GRO & DRO: EPA SW-846 8015 M extended Reported on wet weight. Not accredited for GRO/DRO/DRO Ext.

Directo ah

Inlin

H19149 TPHEXT BASIN

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ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING ATTN: CAMILLE BRYANT 2800 PLAINS HWY LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 01/26/10 Reporting Date: 01/29/10 Project Number: BOPCO Project Name: POKER LAKE 227 BATTERY Project Location: EDDY CO., NM Sampling Date: 01/25/10 Sample Type: SOIL Sample Condition: COOL & INTACT @ 3 °C Sample Received By: JH Analyzed By: ZL

LAB NUMBE SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE	01/28/10	01/28/10	01/28/10	01/28/10
H19149-1 SAMPLE 101 2-1/2 '	<0.050	<0.050	<0.050	<0.300
H19149-2 SAMPLE 102 2-1/2 '	<0.050	<0.050	<0.050	<0.300
H19149-3 SAMPLE 103 2-1/2 '	<0.050	<0.050	<0.050	<0.300
H19149-4 SAMPLE 104 2-1/2 '	<0.050	<0.050	<0.050	<0.300
H19149-5 SAMPLE 105 2 '	<0.050	<0.050	<0.050	<0.300
Quality Control	0.050	0.049	0.049	0.145
True Value QC	0.050	0.050	0.050	0.150
% Recovery	100	98.0	98.0	96.7
Relative Percent Difference	2.1	2.4	2.7	3.0

METHOD: EPA SW-846 8021B

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

Ozloilio

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim 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 thirly (30) days after completion of the applicable service. IHAQ14Q2EBIESCONTINE is 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 or related to the performance of services hereunder by Cardinal, regardless of whether euch 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.



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC ATTN: CAMILLE BRYANT P.O. BOX 381 LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 01/26/10 Reporting Date: 01/27/10 Project Owner: BOPCO Project Name: POKER LAKE 227 BATTERY Project Location: EDDY CO., NM Analysis Date: 01/27/10 Sampling Date: 01/25/10 Sample Type: SOIL Sample Condition: COOL & INTACT @ 3°C Sample Received By: JH Analyzed By: HM

		CI
LAB NO.	SAMPLE ID	(mg/kg)
H19149-1	SAMPLE 101 2 ¹ / ₂ '	80
H19149-2	SAMPLE 102 2 ¹ /2	16
H19149-3	SAMPLE 103 2 ¹ /2'	224
H19149-4	SAMPLE 104 21/2'	128
H19149-5	SAMPLE 105 2'	32
	na 411116 - 1990 Mai 1997 - 1997 - 1997 - 1997 - 1997 Mai 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997	
Quality Cor	ntrol	510
True Value	QC	500
% Recover	y	102
Relative Pe	rcent Difference	< 0.1

METHOD: Standard Methods 4500-CI'B

Note: Analyses performed on 1:4 w:v aqueous extracts. Not accredited for Chloride.

Chemist

<u>02/01</u>

Date

H19149 Basin Environmental

PLEASE NOTE. Liability and Damages. Cardinal's tisbility and client's exclusive remedy for any claim arising, whether based in contract or lort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deamad walved 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, affiliates or successors arising out of or related to the performance of services herounder by Cardinal, regardless of whother 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.

101 East Marland, Hobbs, NM 88240 (575) 303-2326 Eav (575) 303-2476

Page 1 of 1

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



February 5, 2010

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

Re: Poker Lake 227 Battery (BOPCO)

Enclosed are the results of analyses for sample number H19204, received by the laboratory on 02/02/10 at 10:50 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Method SW-846 8260 Method TX 1005 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes 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: 4 (includes Chain of Custody)

Sincerely, Keene

Laboratory Director



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING ATTN: CAMILLE BRYANT 2800 PLAINS HWY LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 02/02/10 Reporting Date: 02/05/10 Project Number: BOPCO, LP Project Name: POKER LAKE 227 BATTERY Project Location: EDDY CO., NM Sampling Date: 01/27/10 & 01/29/10 Sample Type: SOIL Sample Condition: COOL & INTACT @ 3.5⁰C Sample Received By: JH Analyzed By: AB/ZL

		GRO	DRO	DRO ext.			ETHYL	TOTAL
LAB NO.	SAMPLE ID	(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	(>C ₂₈ -C ₃₅)	BENZENE	TOLUENE	BENZENE	XYLENES
		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)

ANALYSIS DATE:	02/04/10	02/04/10	02/04/10	02/03/10	02/03/10	02/03/10	02/03/10
H19204-1 SAMPLE 106 @ 3'	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	< 0.300
H19204-2 SAMPLE 107 @ 2.5'	<10.0	<10.0	<10.0	< 0.050	<0.050	<0.050	<0.300
H19204-3 SAMPLE 108 @ 6.5'	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
a general second and a second s		·			upprose, - gang peperkendelanan		
							an ann an ann an an ann an an an an an a
Quality Control	527	522	-	0.050	0.053	0.057	0.162
True Value QC	500	500	-1	0.050	0.050	0.050	0.150
% Recovery	105	104	-	100)	106	114	108
Relative Percent Difference	0.6	1.7,	-	1.2	<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.

Directo

H19204 TPHextBTEX BASIN

PLEASE NOTE: Liability and Damages. Cardinal's hability and client's exclusive remedy for any claim arising, whether based in contract or fort, 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 profils incurred by client, its subsidiaries, affiliates or successors arising 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. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC ATTN: CAMILLE BRYANT 2800 PLAINS HWY. LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 02/02/10 Reporting Date: 02/03/10 Project Owner: BOPCO, LP Project Name: POKER LAKE 227 BATTERY Project Location: EDDY CO., NM Analysis Date: 02/03/10 Sampling Date: 01/27/10 & 01/29/10 Sample Type: SOIL Sample Condition: COOL & INTACT @ 3.5°C Sample Received By: JH Analyzed By: HM

- ·····

		CI
LAB NO.	SAMPLE ID	(mg/kg)
H19204-1	SAMPLE 106 @ 3'	400
H19204-2	SAMPLE 107 @ 2.5'	80
H19204-3	SAMPLE 108 @ 6.5'	64
	NELLON FORM "I VARIE AT VARIE LEINANCE AR DE MANNEL MET MENNELLON OF MENNELLON AR ENVIRONMENT AND MENNELLON AR M	
Quelity Con	· **** ** ****************************	E10
Quality Con	n 20 10 19 10 10 10 10 10 10 10 10 10 10 10 10 10	510
True Value	QC	500
% Recover	V	102
Relative Pe	rcent Difference	2.0

METHOD: Standard Methods 4500-CI'B Note: Analyses performed on 1:4 w:v aqueous extracts. Not accredited for Chloride.

line Chemis

02/05/10

Date

H19204 Basin Environmental

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 walved unless made in writing and received by Cardinal within thirty (30) days aftor completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, toss of use, or loss of profits incurred by client, its subsidianter affiliates or successors arising out or or related to the performance or services nercounder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Result relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories. 101 East Marland, Hobbs, NM 88240 (575) 393-2326 Fax (575) 393-2476

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Project Manager:	Camille K	xuant	5 841 - 1410 - 141 - 1410 - 1410 - 1410 - 1410 - 1410 - 1410 - 1410 - 1410 - 1410 - 1410 - 1410 - 1410 - 1410		P.O. #:			and the second second			T			ΤΤ	
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† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



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

January 29, 2010

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

Re: Poker Lake 227 Tank Battery (BOPCO)

Enclosed are the results of analyses for sample number H19162, received by the laboratory on 01/28/10 at 9:00 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Method SW-846 8260 Method TX 1005 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes 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 Method EPA 524.2 Method EPA 524.2 Haloacetic Acids (HAA-5) Total Trihalomethanes (TTHM) Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely, Celey D'

Celey D. Keene Laboratory Director



Receiving Date: 01/28/10 Reporting Date: 01/29/10 Project Owner: BOPCO Project Name: POKER LAKE 227 TANK BATTERY Project Location: EDDY CO., NM Analysis Date: 01/29/10 Sampling Date: 01/26/10 Sample Type: SOIL Sample Condition: COOL & INTACT @ 1°C Sample Received By: JH Analyzed By: HM

CL

	01		
SAMPLE ID	(mg/kg)		
6B SURFACE	176		
6B @ 1'	560		
7B SURFACE	816		
7B @ 1'	736		
7B @ 2'	2,960		
8B SURFACE	< 16		
8B @ 1'	64		
9B SURFACE	< 16		
9B @ 1'	< 16		
itrol	500		
QC	500		
% Recovery			
ercent Difference	< 0.1		
	6B SURFACE 6B @ 1' 7B SURFACE 7B @ 1' 7B @ 2' 8B SURFACE 8B @ 1' 9B SURFACE 9B @ 1' trol QC		

METHOD: Standard Methods 4500-CI'B Note: Analyses performed on 1:4 w:v aqueous extracts.

01/29/10

H19162 Basin Environmental

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 anelyees. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirdy (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 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. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories. ARDINAL LABORATORIES

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Project Manager	: Camille Bryant				P.O. #: F	a <u>an an a</u>	Γ		T						,
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† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476. # 26



February 4, 2010

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

Re: Poker Lake 227 Battery (BOPCO)

Enclosed are the results of analyses for sample number H19189, received by the laboratory on 02/01/10 at 3:15 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Method SW-846 8260 Method TX 1005 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes 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 Method EPA 524.2 Method EPA 524.2 Haloacetic Acids (HAA-5) Total Trihalomethanes (TTHM) Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 4 (includes Chain of Custody)

Sincerely,

Laboratory-Director



Receiving Date: 02/01/10 Reporting Date: 02/02/10 Project Owner: BOPCO Project Name: POKER LAKE 227 BATTERY Project Location: EDDY CO., NM Analysis Date: 02/02/10 Sampling Date: 02/01/10 Sample Type: SOIL Sample Condition: INTACT @ 22°C Sample Received By: JH Analyzed By: HM

		CI
LAB NO.	SAMPLE ID	(mg/kg)
H19189-1	6B @ 2'	1,700
H19189-2	6B @ 3'	592
H19189-3	6B @ 4'	128
H19189-4	7B @ 3'	992
H19189-5	7B @ 4'	1,580
H19189-6	7B @ 5'	176
H19189-7	7B @ 6'	80
H19189-8	8B @ 2'	672
H19189-9	8B @ 3'	1,470
H19189-10	8B @ 4'	144
H19189-11	8B @ 5'	640
H19189-12	8B @ 6'	304
H19189-13	8B @ 7'	160
H19189-14	9B @ 2'	528
H19189-15	9B @ 3'	272
H19189-16	9B @ 4'	64
Quality Conl	trol	500
True Value	QC	500
% Recovery		100
Relative Per	rcent Difference	2.0

METHOD: Standard Methods

4500-CI'B

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

MAR hemist

pilio

H19189 Basin Environmental

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 deamed 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, including, without limitation, business Interruptions, loss of use, or loss of profits incurred by client, its subsidiartes, attiliates or successors arising 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. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 86240					Page of Z	7	
(575) 393-2326 Fax (575) 393-2476		0111 20				an a	1
Project Manager GW: 10 BULK II +	- der frank and a second and a second a	BILL TO		ANALYSIS	REQUEST		
Address: 2800 Plainz HW4	÷	Company: BRO					
City: Lo(1, M3 F) State: N Mip: 882 Phone # 575 60.5 - 721 DFax # 575 396 - 1		Attn: DAy D	VOIC				
Project #: () Project Owner: ()	Ď	City:					[
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† Cardinal cannot accept verbal changes. Please fax written changes to 575-393 476.

Company Name: Basin Fuv Casulfing		BILL T	0		and an entry of the second second	ANALYS	Page	Z of Z) 	
Project Manager: Camille Bryant		P.O. #:						T	1	
Address: 2900 Plains Hiwy		Company: BOPCC) LP							
City: Lawiacton State: IVM Zip: 682/11			voie							
Address: 2800 Plains Hwy City: Louington State: IVM zip: 88261 Phone #: (515) 605 7210 Fax #: (575) 396 -1426		Address:		$ \mathbf{x} $						
Project #: Project Owner: BOP(0, L)	i	City:		12					4	
Project Name: Poller Lake Battery #229		State: Zip:		14						
Project Location: Eddy Po NM		Phone #;			-					
Project Location: Eddy Co, NM Sampler Name: Camille Bryant		Fax #:		2						
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PLEASE NOTE: Labority and Damages. Cardinal's labolity und cuents exclusive remedy far any claim ansing wha analysis. Air Darma, incrucing broke for negligence and any other cause vinalsoever shall be deemed wolved unle					30 obys (nasi due al ine raie :	rest will be charged of 24% per ennum h	om the original d		
senses in so event shall Cardinal be bable for inoxiental or consequental tempoes including without limitation, b <u>senses</u> is <u>secondary anality of or related</u> to the performance of services-hereunder by Cardinal, regardless is					and sli co		scluding attorney's h	es.		
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amilee ayuit 1315			REMARK							
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† Cardinal cannot accept verbal changes. Please fax writter	- 1	1								

H26



March 2, 2010

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

Re: Poker Lake 227 Tank Battery (BOPCO)

Enclosed are the results of analyses for sample number H19314, received by the laboratory on 02/22/10 at 8:40 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Method SW-846 8260 Method TX 1005 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes 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 Method EPA 524.2 Method EPA 524.2

Haloacetic Acids (HAA-5) Total Trihalomethanes (TTHM) Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 10 (includes Chain of Custody)

Sincerely,

Celey D(Keene Laboratory Director



Receiving Date: 02/22/10 Reporting Date: 02/22/10 Project Number: BOPCO Project Name: POKER LAKE 227 TANK BATTERY Project Location: EDDY CO., NM Analysis Date: 02/22/10 Sampling Date: 02/15/10 & 02/16/10 Sample Type: SOIL Sample Condition: COOL & INTACT @ 1.5°C Sample Received By: JH Analyzed By: HM

		CI
LAB NO.	SAMPLE ID	(mg/kg)
H19314-1	WEST WALL 3.5'	80
H19314-2	9 FLOOR @ 3.5'	96
H19314-3	9 SOUTH SIDE WALL @ 3.5'	176
H19314-4	9 NORTH SIDE WALL @ 3.5'	112
H19314-5	8 FLOOR @ 7'	48
H19314-6	8 NORTH SIDE WALL @ 6.5'	48
H19314-7	8 SOUTH SIDE WALL @ 6.5'	64
H19314-8	8 WEST SIDE WALL @ 6.5'	240
H19314-9	8 NORTHEAST CORNER @ 6.5'	144
H19314-10	8 NORTHEAST CORNER @ 4.5'	16
0		
Quality Cont		500
True Value (500
% Recovery		100
Relative Per	cent Difference	< 0.1

METHOD: Standard Methods 4500-CI'B

Note: Analyses performed on 1:4 w:v aqueous extracts. Not acgredited for Chloride.

VONS Chemisi

03/02/10

Date

H19314 Basin Environmental

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Receiving Date: 02/22/10 Reporting Date: 02/22/10 Project Number: BOPCO Project Name: POKER LAKE 227 TANK BATTERY Project Location: EDDY CO., NM Analysis Date: 02/22/10 Sampling Date: 02/17/10, 02/18/10 & 02/19/10 Sample Type: SOIL Sample Condition: COOL & INTACT @ 1.5°C Sample Received By: JH Analyzed By: HM

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		CI
LAB NO.	SAMPLE ID	(mg/kg)
H19314-11	8 SOUTHEAST FLOOR @ 5'	192
H19314-12	7 FLOOR @ 5.5'	176
H19314-13	7 SOUTH SIDE WALL @ 5'	128
H19314-14	7 NORTH SIDE WALL @ 4'	96
H19314-15	6 FLOOR @ 3.5'	112
H19314-16	6 SOUTH SIDE WALL @ 3'	80
H19314-17	6 NORTH SIDE WALL @ 3'	64
H19314-18	NORTHEAST FLOOR @ 4.5'	32
H19314-19	NORTH SIDE WALL @ 3.5'	128
H19314-20	SOUTH SIDE WALL @ 4.0'	48
H19314-21	TOPSOIL - 1	80
H19314-22	TOPSOIL - 2	96
Quality Con	trol	500
True Value	QC	500
% Recovery		100
Relative Per	rcent Difference	< 0.1

METHOD: Standard Methods4500-Cl'BNote: Analyses performed on 1:4 w:v aqueous extracts.

Not accredited for Chloride.

Kene

03/02/10

Date

H19314 Basin Environmental

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Receiving Date: 02/22/10 Reporting Date: 02/26/10 Project Owner: BOPCO Project Name: POKER LAKE 227 TANK BATTERY Project Location: EDDY CO., NM Sampling Date: 02/15/10 - 02/17/10 Sample Type: SOIL Sample Condition: COOL & INTACT @ 1.5°C Sample Received By: JH Analyzed By: ZL

				ETHYL	TOTAL
		BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBE SAMPLE ID		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS E	DATE	02/24/10	02/24/10	02/24/10	02/24/10
H19314-1	WEST WALL 3.5'	<0.050	<0.050	<0.050	<0.300
H19314-2	9 FLOOR @ 3.5'	< 0.050	<0.050	<0.050	<0.300
H19314-3	9 SOUTH SIDEWALL @ 3.5'	< 0.050	<0.050	<0.050	<0.300
H19314-4	9 NORTH SIDEWALL @ 3.5'	<0.050	<0.050	<0.050	< 0.300
H19314-5	8 FLOOR @ 7'	<0.050	<0.050	<0.050	<0.300
H19314-6	8 NORTH SIDEWALL @ 6.5'	<0.050	<0.050	<0.050	<0.300
H19314-7	8 SOUTH SIDEWALL @ 6.5'	<0.050	<0.050	<0.050	<0.300
H19314-8	8 WEST SIDEWALL @ 6.5'	<0.050	<0.050	<0.050	<0.300
H19314-9	8 NORTHEAST CORNER @ 6.5'	<0.050	<0.050	<0.050	<0.300
H19314-10	8 NORTHEAST CORNER @ 4.5'	<0.050	<0.050	<0.050	<0.300
H19314-11	8 SOUTHEAST FLOOR @ 5'	<0.050	<0.050	<0.050	<0.300
Quality Cont	trol	0.048	0.047	0.047	0.139
True Value (anna ann an a	0.050	0.050	0.050	0.150
% Recovery		96.0	94.0	94.0	92.7
Relative Per	cent Difference	2.4	2.5	2.4	2.8

METHOD: EPA SW-846 8021B

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

Kene Chemist

3/02/10

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Receiving Date: 02/22/10 Reporting Date: 02/26/10 Project Owner: BOPCO Project Name: POKER LAKE 227 TANK BATTERY Project Location: EDDY CO., NM Sampling Date: 02/17/10 - 02/19/10 Sample Type: SOIL Sample Condition: COOL & INTACT @ 1.5°C Sample Received By: JH Analyzed By: ZL

			ETHYL	TOTAL
	BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBE SAMPLE ID	(m g /kg)	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DATE	02/25/10	02/25/10	02/25/10	02/25/10
H19314-12 7 FLOOR @ 5.5'	<0.050	<0.050	< 0.050	< 0.300
H19314-13 7 SOUTH SIDEWALL @ 5'	< 0.050	<0.050	< 0.050	<0.300
H19314-14 7 NORTH SIDEWALL @ 4'	<0.050	<0.050	<0.050	< 0.300
H19314-15 6 FLOOR @ 3.5'	<0.050	<0.050	<0.050	< 0.300
H19314-16 6 SOUTH SIDEWALL @ 3'	<0.050	<0.050	<0.050	<0.300
H19314-17 6 NORTH SIDEWALL @ 3'	<0.050	<0.050	<0.050	< 0.300
H19314-18 NORTHEAST FLOOR @ 4.5	<0.050	<0.050	<0.050	<0.300
H19314-19 NORTH SIDEWALL @ 3.5'	<0.050	<0.050	<0.050	<0.300
H19314-20 SOUTH SIDEWALL @ 4.0'	<0.050)	<0.050	<0.050	<0.300
H19314-21 TOPSOIL-1	<0.050	<0.050	<0.050	<0.300
H19314-22 TOPSOIL-2	<0.050	<0.050	<0.050	<0.300
Quality Control	0.056	0.056	0.056	0.165
True Value QC	0.050	0.050	0.050	0.150
% Recovery	112	112	112	110
Relative Percent Difference	2.3	1.7	1.2	0.8

METHOD: EPA SW-846 8021B

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

Cen Chemist

Uate

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Receiving Date: 02/22/10 Reporting Date: 03/01/10 Project Owner: BOPCO Project Name: POKER LAKE 227 TANK BATTERY Project Location: EDDY CO., NM Sampling Date: 02/15/10 - 02/19/10 Sample Type: SOIL Sample Condition: COOL & INTACT @ 1.5^oC Sample Received By: JH Analyzed By: AB/CK

		GRO	DRO	DRO ext.
		(C ₆ -C ₁₀)	(>C10-C28)	(>C ₂₈ -C ₃₅)
LAB NUMBER	SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DA	\TE	02/27/10	02/27/10	
H19314-1*	WEST WALL 3.5'	<10.0	<10.0	<10.0
H19314-2	9 FLOOR @ 3.5'	<10.0	<10.0	<10.0
H19314-3*	9 SOUTH SIDEWALL @ 3.5'	<10.0	<10.0	<10.0
H19314-4*	9 NORTH SIDEWALL @ 3.5'	<10.0	<10.0	<10.0
H19314-5*	8 FLOOR @ 7'	<10.0		<10.0
H19314-6	8 NORTH SIDEWALL @ 6.5'	<10.0	<10.0	<10.0
H19314-7	8 SOUTH SIDEWALL @ 6.5'	<10.0	<10.0	<10.0
H19314-8	8 WEST SIDEWALL @ 6.5'	<10.0	<10.0	<10.0
H19314-9	8 NORTHEAST CORNER @ 6.5'	<10.0	<10.0	<10.0
H19314-10	8 NORTHEAST CORNER @ 4.5'	<10.0	<10.0	<10.0
H19314-11*	8 SOUTHEAST FLOOR @ 5'	<10.0	<10.0	<10.0
H19314-12*	7 FLOOR @ 5.5'	<10.0	<10.0	<10.0
H19314-13	7 SOUTH SIDEWALL @ 5'	<10.0	<10.0	<10.0
H19314-14	7 NORTH SIDEWALL @ 4'	<10.0	<10.0	<10.0
H19314-15	6 FLOOR @ 3.5'	<10.0	<10.0	<10.0
H19314-16*	6 SOUTH SIDEWALL @ 3'	<10.0	<10.0	<10.0
H19314-17	6 NORTH SIDEWALL @ 3'	<10.0	<10.0	<10.0
H19314-18	NORTHEAST FLOOR @ 4.5'	<10.0	<10.0	<10.0
H19314-19	NORTH SIDEWALL @ 3.5'	<10.0	<10.0	<10.0
H19314-20	SOUTH SIDEWALL @ 4.0'	<10.0	<10.0	<10.0
Quality Contro)	459	530	-
True Value Q0	2	500	500	-
% Recovery		91.8	106	
Relative Perce	ent Difference	9.4	8.3	-

METHODS: TPH GRO & DRO: EPA SW-846 8015 M extended

/Reported on wet weight. Not accredited for GRO/DRO/DRO Ext.

10 me Lab Director H19314 TPHEXT BASIN

Black

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Receiving Date: 02/22/10 Reporting Date: 03/01/10 Project Owner: BOPCO Project Name: POKER LAKE 227 TANK BATTERY Project Location: EDDY CO., NM Sampling Date: 02/18/10 Sample Type: SOIL Sample Condition: COOL & INTACT @ 1.5°C Sample Received By: JH Analyzed By: AB/CK

	GRO	DRO	DRO ext.
	$(C_{6}-C_{10})$	(>C ₁₀ -C ₂₈)	(>C ₂₈ -C ₃₅)
LAB NUMBER SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DATE	02/26/10	02/26/10	02/26/10
H19314-21 TOPSOIL-1	<10.0	<10.0	<10.0
H19314-22 TOPSOIL-2	<10.0	<10.0	<10.0
	n or with a sub-second data to sub-second a	avitationentop, averaginational rad	a an angan ungan parta a a
Quality Control	392	476	• • • • • • • • • • • • • • • • • • •
True Value QC	500	500	-
% Recovery	78.4	95.2	
Relative Percent Difference	1.9	4.8	-

METHODS: TPH GRO & DRO: EPA SW-846 8015 M extended Reported on wet weight. Not accredited for GRO/DRO/DRO Ext. *TPH second surrogate outside historical limits due to matrix interference.

Lab Director

H19314 TPHEXT BASIN

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101 East Marland, Hobbs, NM 88240		1 2				
(575) 393-2326 Fax (575) 393-2476		Pageof				
Company Name: BASIN ENVLORSELFING	BILL TO	ANALYSIS REQUEST				
Project Manager: TIAMille Brught	P.O. #:					
Address: 2800 Plains HWY	Company: DOPC-0					
City: LOVINGTON State: MMZip: 88260	Atm: TCALLSALOIG					
Phone # 575 205-72 (U Fax # 575) 396-1429	Address:					
Project #: Project Owner: BOACO						
Project Name: LOKO, LEEKO 227 TANK BAttery	State: Zip: Phone #: Image: Comparison of the state					
Project Location; Eclily Co, MM	State: Zip: Phone #:					
Sampler Name: Com 100 151464	Fax #:					
FOR LAB USE CHLY	PRESERV. SAMPLING					
dWa	290 + 3					
Lab I.D. Sample I.D.						
Lab I.D. Sample I.D.						
Containers Sample I'D' Recound wastewater Stouder						
H19314-1 West WALL 3.5' GI X	× 2/15 0900 X X X					
-29 Floor @ 3.5'	215 0930 1 1					
-39 South Sicewall C35'	2 15 1000					
-497 orth sidewall C3.5'	2/15 1030					
-58 FOOC @ F	2/16 0900					
-6 8 Torthsidewalle 6.5	2/16 0930					
-7 8 Southsidewall @ 6.5 1 1	2/16/000					
-8 8 West sidewall 06.5'	2 16 1030					
-9 Bhathoust Cornere 6.5'	2/16/10D					
-10 Bnorthoust Corner e 45 WW W	1 z/16 1130 N X V					

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service. In no event shell Cardinal be lable for incidental or consequental demoges, including without limitation, business interruptione, loss of use, or loss of prolifs incurred by client, its subelifiaries.

atifiates or subcessors arising out of an related to the performance of services hereunder by Cardinal regardless of whether such claims based upon any of the above stated reasons or otherwise. O Add'l Phone #: Sampler Relinguished: Phone Result: No **Received By:** D Add'l Fax #: Fax Result: No 2100 REMARKS: 0700 Relinquished By: **Received By:** A 2-6 Delivered By: (Circle One) CHECKED BY: Sample Condition Tam n Cool Intact Yes Yes No No No (Initials) Sampler - UPS - Bus' - Other: .50

 \dagger Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476. #26

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101 East Marland, Hobbs, NM 88240

Page Zol 2

(675) 393-2326 Fax (575) 393-2476	Page of Lor	
Company Name THENERU. COSIT/10C	BILL TO	ANALYSIS REQUEST
Project Manager: CAMILLE DRUMNI	P.O. #:	
Address: ZOO PLAINS HWU	Company: *RPCO	
City: (DUNCTON State NM Zip: 80260	Attn: Kony Soldie	
Phone # 575 605-7210 Fax #575-396-14-29	Address:	
Project #: Project Owner: BORCO	City:	
Project Name: KUERLAKE ZZT DWK BATTER	State: Zip:	
Project Location: EDDY Co, NM	Phone #:	A SOLY O
Sampler Name:	Fax #:	
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	
a a		
Lab I.D. Sample I.D.	2010	
Lab I.D. Sample I.D.		
Tap I.D. Sample I.D. (G)RAB OR (C)O A STEWATER WASTEWATER Soll.	OTHER:	
H19314-11 8 Southoast Floor 0.5' E11 X	X 217 1200	
-12 7 Floor @ 5.5'	1 217 1230	
-137 Suthsidewall @ 5'	2/18/0900	· · · · · · · · · · · · · · · · · · ·
-147 Marth Stdewall 041	2/17-1300	
15 10 FLODE 0 3.5'	2/18 0930	
-16 to Southardewall @ 3'	2/18 1100	
-17 lotothsidewalle3'	2/18 1200	
-18 of heast Floor @ 4.5	2/19 0930	┨╼╂╌┤╌┨╼┨╾╋╌╍╾┫╼╍╍╎╾╌╌┨╼╌╌╢╼╌╍╎╾╌╸┨╍╌╸╢
-19 Month Sidewalle 3.51	219 1030	<u> _</u> ↓ <u>↓</u> <u>↓</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u>
-20 South Station @ 4 2' NN IN	N 2114 1130	

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analyses. All claims including trace for negligence and any other cause whatseever shall be userned waived writess made in writing and reserved by Cardinal within 30 days after completion of the applicable

service. In no event snall Cardinal be liable for incidental or consequental demages, including values interruptions, less of use, or loss of profits incurred by clarit, its substitution,

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+ Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 Fax (575) 393-2476					
Company Name: BADIN 2NV. CONTRELING	BILL TO	ANALYSIS REQUEST			
Project Manager: CHON, ILE BUULINT	P.O. #:				
Address: 2300 Plains HWW	Company: BORCO				
City: LOVINXTON State: NM Zip: 83260	Attn: TONY SAVA'E				
Phone #575/005-7210 Fax # 575806-1429	Address:				
Project #: Project Owner: 60900	City:				
Project Name: DRer Lake 227 Baffery	State: Zip:	extended			
Project Location: Eller AM Sampler Name: (Cample Reycust	Phone #:				
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Page 3 of 3

PLEASE NOTE: Liability and Damages. Cardinars ilability and client's exclusive remedy for any calm arising whether based in contract or tort, shall be limited to the amount baild by the client for the

analyses. All claims including those for negligence and any other cause whateoever singlify deemod waved unters mode in writing and reaving by Cardinal water 30 days after completion of the applicable

service. In no event shell Cardinates tables for incidental or consequental damages, inclusing a Strout kinistion, 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 services have not a Control, leased uses and other shows stated reasons or infravise.

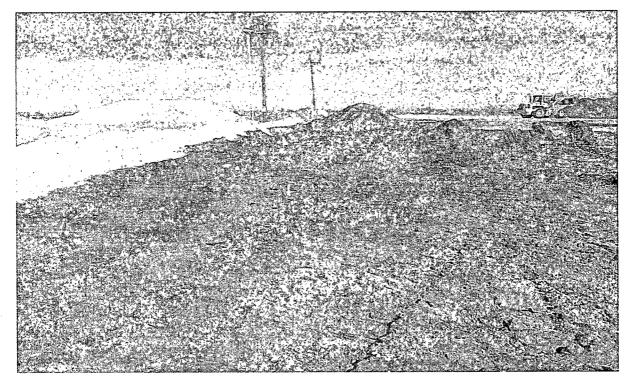
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† Cardinal cannot accept verbal changes. Please fax written changes to 5ζ5-393-2476.

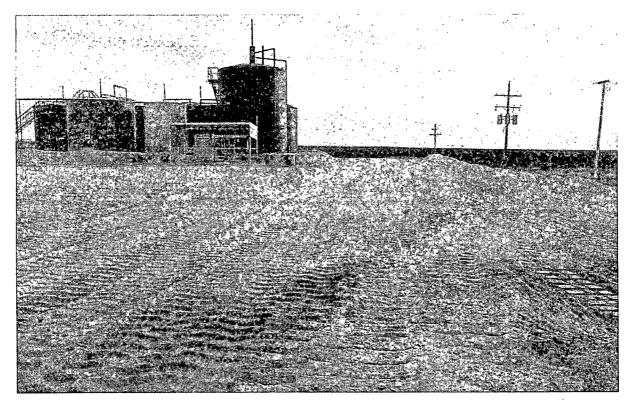
Appendix C Photographs

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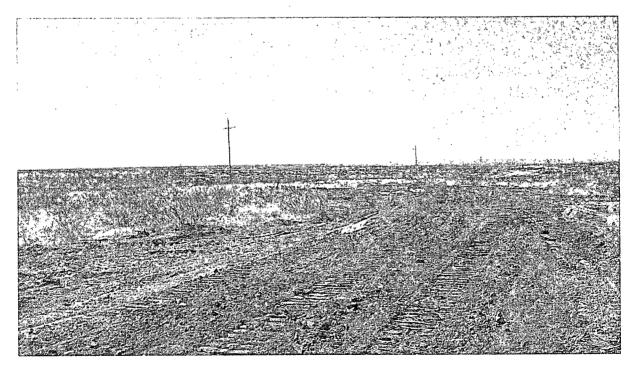
Excavation Activities on the Tank Battery at the Poker Lake 227 Release Site



Completion of Remediation Activities on the Tank Battery at the Poker Lake 227 Release Site



Excavation Activities in the Runoff Area at the Poker Lake 227 Release Site



Completion of Remediation Activities in the Runoff Area at the Poker Lake 227 Release Site

Appendix D Release Notification and Corrective Action (Form C-141)

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

NSEB 092.8648481 SEB 092.8649.105	Release Notificat	ion and Corrective Action	n	
SED0978649268	·····	OPERATOR	Initial Report	Final Report
Name of Company BOPCO, L.P.	260737	Contact Tony Savoie		
Address 522 W. Mermod, Suite 70	4 Carlsbad, N.M. 88220	Telephone No. 432-556-8730		
Facility Name Poker Lake Unit #23	27	Facility Type E&P		
30-015-38929				Land and the second
30-015-38929 Surface Owner Federal	Mineral Own	er Federal	Lease No.	
	LOCATI	ION OF RELEASE		
Unit Letter Section Township	Range Feet from the No	orth/South Line Feet from the Fas	t/West Line County]

-	Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County	
	P	30	24S	30E	(Eddy	
		•							-	

Latitude_N 32.18191___ Longitude W 103.91429___

NATURE OF RELEASE

Type of Release: Produced water and crude oil	Volume of Release: 200 bbls produced water and less than 5 bls crude oil	Volume Recovered: none						
Source of Release: Tank Failure	Date and Hour of Occurrence 7/30/09, Hour unknown	Date and Hour of Discovery 7/30/09 8:00 a.m.						
Was Immediate Notice Given?	If YES, To Whom?							
By Whom?	Date and Hour							
Was a Watercourse Reached?	If YES, Volume Impacting the Wate	ercourse.						
If a Watercourse was Impacted, Describe Fully.*	uk							
· ·								
Describe Cause of Problem and Remedial Action Taken.* The Produced water tank at the facility was struck by lightning, the fire be affected tank was removed with a vacuum truck. A portion of the berm wa								
Describe Area Affected and Cleanup Action Taken.* The produced water traveled across a lease road, approximately 30 ft wide the pasture. The area affected in the pasture land covered approximately 4, on 8/6/09. The temporary pit area was sampled 8/27/09. The Site remediation for the produced water spill will follow the NMOCD Remediation of the temporary pit area will follow the NMOCD guidelines	.700 Sq. Ft. Samples were collected fre guidelines for leaks and spiils.	vas approximately 200 ft. wide, and into in the surface and 1 ft. below the surface						
Thereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediate or the environment. In addition, NMOCD acceptance of a C-141 report do federal, state, or local laws and/or regulations.	otifications and perform corrective action NMOCD marked as "Final Report" do contamination that pose a threat to pro-	ons for releases which may endanger bes not relieve the operator of liability bund water, surface water, human health						
	OIL CONSERV/	ATION DIVISION						
Signature ong Danie		Remachation Actions to be completed and						
Printed Name: Tony Savoie	approved by District Supervisor:	Final C 141 submitted with continuation analyses/documentation interfactore the Explanation Date						
1		Spiration Date: 12-13-05						
E-mail Address; TASavoie@BassPet.com C	onditions of Approval:	Attached						
Date: 9/1/09 Phone:432-556-8730	SEE ATTACHED							
Attach Additional Sheets If Necessary		2RP-348						

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

1220 0. 01. 114		,			Santa F	e, NM 875	005					
•• • •			Rele	ease Notif	icatio	n and Co	orrective A	Action	1			
						OPER			Initial Report X Final Report			
Name of Co		BOPCO, L				Contact	Tony Savoie	······································				
				sbad, NM 88	220	Telephone No. (432) 556-8730						
Facility Nat	me Poke	r Lake Unit	#227			Facility Type E&P						
Surface Ow	Surface Owner Federal Mineral Owner								Lease 1	No.		
	_		_	IOC		N OF RE	FASE				_	
Unit Letter	Section	Township	Range	Feet from the		1/South Line	Feet from the	East/	West Line	County		
Р	30	248	30E							Eddy		
]											
		L	atitude <u>N</u>	. 32.18191		Longitu	de <u>W 103.914</u>	29.				
				NA	TURF	OF REL	EASE					
Type of Rele	ase Produ	ced Water and	l crude oil			1 ********	f Release 200 bb	ls	Volume	Recovered r	one	
						•	water and less th	an 5				
						bbls crude	011					
Source of Re	elease Tank	failure					lour of Occurrer	nce		Hour of Disc	overy	
Was Immedi	iate Notice (Tiven?				7/30/09, h	our unknown Whom?		7/30/09 8	3:00 a.m.		
was minicul			es 🗌 N	o 🛛 Not Req	quired		whom:					
By Whom?						Date and H	Hour					
Was a Water	course Read					If YES, Volume Impacting the Watercourse.						
		L	Yes 🛛	No								
If a Waterco	urse was Im	pacted, Descr	ibe Fully.'	k								
Describe Ca	use of Probl	em and Reme	dial Actio	n Taken * The	e produce	d water tank a	at the facility wa	s struck l		The fire bu	med it	self out after
a few minute	es. All of the	e produced wa	ter that wa	is left in the affe	ected tan	k was removed	d with a vacuum	truck. A	portion of	the berm was	wash	ed out due to
		was released								<u> </u>		
temporary pi	ea Affected it (approxim	and Cleanup I ately 200 ft. v	Action Tai vide), and	into an adjacent	ced wate	r travelled acr The area affe	oss a lease road cted in the pastu	(approxi re measu	mately 30 t red approxi	t. wide), acro imately 4,700	ssaci so.ft	osed The affected
areas were re	emediated p	er NMOCD g	uidelines.	Please see the a	ttached <i>k</i>	Remediation St	ummary & Site (Closure F	Request (pre	pared by Bas		
Consulting &	k dated May	$\frac{2010}{10}$ for de	tails of ren	nediation activit	ties and la	aboratory anal	ytical results fro knowledge and	m confir	mation soil	samples.		
regulations a	Il operators	are required t	o report ar	d/or file certain	i release	notifications a	nd perform corre	ective act	ions for rel	leases, which	may e	ndanger
public health	or the envi	ronment. The	acceptant	e of a C-141 re	port by tl	ne NMOCD m	arked as "Final	Report"	does not rel	ieve the oper	ator of	liability
should their of	operations h	ave failed to a	adequately	investigate and tance of a C-14	l remedia	te contaminati	ion that pose a the operator o	reat to g	round wate	r, surface wa	ter, hu	man health
federal, state	, <u>or local la</u>	ws and/or regi	ilations.		rieponi		te the operator o	respons	ability for c		itii airy	y other
		//				OIL CONSERVATION DIVISION						
Signature:		hy									.e~	
						Approved by	District Superv	isor:				
Printed Nam	e: Ben J. A	rguijo (agent	on behalf o	of BOPCO, LP)			·					
Title: Project Manager, Basin Environmental						Approval Da	te:		Expiration	Date:		
						0					_	
E-mail Address: bjarguijo@basinenv.com						Conditions o	f Approval:			Attached 2RP-348		
Date: 2/7/20	013	Phone: (5 <u>75) 396-2</u>	378						2.0. 5.10		
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