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REMEDIATION SUMMARY & RISK-BASED SITE CLOSURE REQUEST

BOPCO, LP
POKER LAKE UNIT #158 FLOWLINE
Eddy County, New Mexico
UNIT LTR "A" (NE/NE), Section 7, Township 24 South, Range 30 East
Latitude 32.237274° North, Longitude 103.914835° West

Prepared For:

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

FEB 14 2013

NMOCD ARTES!A

Prepared By:

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June 2011

Ben J. Arguijo

Project Manager

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1.0 INTRODUCTION AND BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary & Risk-Based Site Closure Request* for the release site known as Poker Lake Unit #158 Flowline. The legal description of the release site is Unit Letter "A" (NE/NE), Section 7, Township 24 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.237274° North latitude and 103.914835° West longitude. The property affected by the release is owned by The United States Department of the Interior - Bureau of Land Management (BLM). Please reference Figure 1 for a "Site Location Map".

On May 8, 2010, BOPCO discovered a release had occurred at the Poker Lake Unit #158 site. Failure of a two and three-eighths inch (2 3/8") flowline resulted in a release of crude oil and produced water. During initial response activities, a temporary line clamp was installed on the flowline to mitigate the release. The release was reported to the New Mexico Oil Conservation Division (NMOCD) Artesia District Office on May 8, 2010. The Release Notification and Corrective Action (Form C-141) indicated approximately ten (10) barrels of crude oil and approximately five (5) barrels of produced water were released, with no recovery. The release impacted an area of pasture land measuring approximately one hundred and twenty-five feet (125") in length and approximately two feet (2") in width. The release also impacted approximately eight hundred square feet (800 ft²) of the caliche access road. Heavily impacted soil was removed and stockpiled on-site, pending final disposition.

On July 5, 2010, BOPCO discovered an additional release had occurred at the Poker Lake Unit #158 site. Failure of a two and three-eighths inch (2 3/8") flow line resulted in a release of crude oil and produced water. During initial response activities, a temporary line clamp was installed on the flowline to mitigate the release. The release was reported to the NMOCD Artesia District Office on July 5, 2010. The Form C-141 indicated approximately ten (10) barrels of crude oil and ten (10) barrels of produced water was released, with no recovery. The release impacted an area of pasture land measuring approximately three hundred feet (300') in length and approximately two feet (2') in width. The release also impacted approximately two hundred square feet (200 ft²) of the caliche access road. The release followed the same pathway as the May 8, 2010, release. Heavily impacted soil was removed and stockpiled on-site, pending final disposition.

The Form C-141 for both the May 8, 2010, and July 5, 2010, releases are provided as Appendix A. Remediation activities for both releases were conducted simultaneously.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information was unavailable for Section 7, Township 24 South, Range 30 East. A depth-to-groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately one hundred and fifty feet (150') to one hundred and seventy-five feet (175') below ground surface (bgs). Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

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

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

NMOCD guidelines indicate the Poker Lake Unit #158 Flowline release site has an initial ranking score of zero (0) points. The soil remediation levels for a site with a ranking score of zero (0) points are as follows:

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

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

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

Following initial response activities, from July 14 through 16, 2010, twenty-nine (29) soil samples (Sample 1 @ Surface, Sample 1 @ 1', Sample 2 @ 6", Sample 2 @ 4', Sample 2 @ 8', Sample 3 @ 1', Sample 4 @ 1', Sample 5 @ 1', Sample 6 @ 1', Sample 8 @ 6", Sample 8 @ 4', Sample 8 @ 8', Sample 9 @ 1', Sample 9 @ 3', Sample 9 @ 5', Sample 12 @ 1', Sample 18 @ 1', Sample 18 @ 3', Sample 22 @ 6", Sample 22 @ 4', Sample 22 @ 8', Sample 24 @ 6", Sample 24 @ 4', Sample 24 @ 6", Sample 25 @ 1', Sample 27 @ 1', Sample 30 @ 1', Sample 32 @ 1', and Sample 33 @ 1') were collected to delineate the vertical and horizontal extent of contamination at the site. The soil samples were submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis of chloride concentrations using EPA Method 4500 Cl-B. Selected soil samples (Sample 2 @ 6", Sample 2 @ 8', Sample 8 @ 6", Sample 8 @ 4', Sample 8 @ 8', Sample 18 @ 1', Sample 24 @ 6") were also analyzed for total petroleum hydrocarbon (TPH) concentrations using EPA Method SW-846 8015M. Table 1 summarizes the "Concentrations of TPH & Chlorides in Soil". A "Site & Sample Location Map" is provided as Figure 2. Laboratory analytical reports are provided as Appendix C.

Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory method detection limit (MDL) soil samples Sample 5 @ 1', Sample 6 @ 1', Sample 25 @ 1', Sample 27 @ 1', Sample 30 @ 1', and Sample 32 @ 1' to 28,400 mg/Kg in soil sample Sample 8 @ 8'. TPH concentrations ranged from less than the laboratory MDL in Sample 18 @ 1' to 9,227 mg/Kg in soil sample Sample 8 @ 6".

Based on laboratory analytical results, further delineation was required in the areas defined by soil samples Sample 2, Sample 8, Sample 9, Sample 22, and Sample 24, as documented in the *Remediation Summary and Risk-Based Closure Strategy* dated August 2010.

On February 14, 2011, delineation of the areas defined by soil samples Sample 2, Sample 8, Sample 9, Sample 22, and Sample 24 commenced at the site. Hach Quantab Chloride Titrators and a Photo-Ionization Detector (PID) were used to field-screen the horizontal and vertical extent of impacted soil at the site. Results of field-testing are summarized in Table 2, "Field-Test Results".

Based on results of field-tests, the release site was divided into two sections: North Excavation and South Excavation. The North Excavation (N Exc) was advanced in the area defined by soil samples Sample 8, Sample 9, and Sample 10. The South Excavation (S Exc) was advanced in the area defined by soil samples Sample 24 and Sample 32. In an effort to mitigate damage to surface topography and vegetation, the South Excavation was further divided into three subsections: Section 1, Section 2, and Section 3. Field tests indicated no further remediation would be required in the area defined by soil sample Sample 22.

Impacted soil in the area defined by soil sample Sample 2 was removed during excavation of the road-crossing(s) of four (4) of the on-site flowlines.

From February 23 through February 28, 2011, approximately one hundred (100) cy of impacted material was excavated from the North Excavation and transported to Lea Land, Inc. (NMOCD Permit #WM-01-035), for disposal. Approximately three hundred (300) cubic yards (cy) of impacted material was excavated and stockpiled on-site, pending final disposition. Final dimensions of the North Excavation were approximately eighty-five feet (85') in length, approximately thirty feet (30') in width, and approximately five feet (5') in depth.

On February 25, 2011, excavation commenced in Section 1 of the South Excavation (S Exc Sec 1). Excavated soil was stockpiled on-site, pending final disposition.

Four (4) soil samples (Stockpile 'A', N Exc Floor, N Exc N Wall, and N Exc W Wall) were also submitted to Cardinal Laboratories for analysis of chloride and TPH concentrations. Chloride concentrations ranged from 240 mg/Kg in soil sample N Exc W Wall to 2,320 mg/Kg in soil sample N Exc Floor. TPH concentrations ranged from less than the laboratory MDL in soil samples N Exc N Wall and N Exc W Wall to 178 mg/Kg in soil sample Stockpile 'A'. Soil represented by soil sample Stockpile 'A' was deemed suitable for use as backfill.

On February 28, 2011, seven (7) soil samples (S Exc Sec 1 Stockpile 'C', N Exc E Wall, N Exc S Wall, S Exc Sec 1 Floor, S Exc Sec 1 N Wall, S Exc Sec 1 S Wall, and S Exc Sec 1 E Wall) were submitted to Cardinal Laboratories for analysis of chloride and TPH concentrations. Chloride concentrations ranged from 32.0 mg/Kg in soil samples S Exc Sec 1 S Wall and S Exc Sec 1 E Wall to 288 mg/Kg in soil sample S Exc Sec 1 Stockpile 'C'. TPH concentrations ranged from less than the laboratory MDL for soil samples N Exc E Wall, N Exc S Wall, S Exc Sec 1 Floor, S Exc Sec 1 N Wall, S Exc Sec 1 S Wall, and S Exc Sec 1 E Wall to 148.1 mg/Kg in soil sample S Exc Sec 1 Stockpile 'C'. Soil represented by soil sample S Exc Sec 1 Stockpile 'C' was deemed suitable for use as backfill.

On March 1, 2011, based on results of laboratory analyses and field-screens, Section 1 of the South Excavation was backfilled in eighteen-inch (18") lifts, and excavation of Section 2 (S Exc Sec 2) commenced. Excavated soil was stockpiled on-site, pending final disposition.

On March 2, 2011, four (4) soil samples (S Exc Sec Stockpile D, S Exc Sec 2 Floor, S Exc Sec 2 N Wall, and S Exc Sec 2 S Wall) were submitted to Cardinal Laboratories for analysis of chloride and TPH concentrations. Chloride concentrations ranged from 16.0 mg/Kg in soil sample S Exc Sec 2 N Wall to 272 mg/Kg in soil sample S Exc Sec 2 Floor. TPH concentrations ranged from less than the laboratory MDL in soil samples S Exc Sec 2 N Wall and S Exc Sec 2 S Wall to 435.6 mg/Kg in soil sample S Exc Sec Stockpile D. Soil represented by soil sample S Exc Sec Stockpile D was deemed suitable for use as backfill.

On March 3, 2011, based on results of laboratory analyses and field-screens, Section 2 of the South Excavation was backfilled in eighteen-inch (18") lifts, and excavation of Section 3 (S Exc Sec 3) commenced. Excavated soil was stockpiled on-site, pending final disposition.

On March 4, 2011, two (2) soil samples (S Exc Sec 3 Stockpile and S Exc Sec 3 West Wall) were submitted to Cardinal Laboratories for analysis of chloride and TPH concentrations. Chloride concentrations ranged from 80.0 mg/Kg in soil sample S Exc Sec 3 West Wall to 112 mg/Kg in soil sample S Exc Sec 3 Stockpile. TPH concentrations ranged from less than the laboratory MDL in soil sample S Exc Sec 3 West Wall to 396.1 mg/Kg in soil sample S Exc Sec 3 Stockpile. Soil represented by soil sample S Exc Sec 3 Stockpile was deemed suitable for use as backfill.

From March 4 through March 7, 2011, based on results of laboratory analyses and field screens, the North Excavation and Section 3 of the South Excavation were backfilled in eighteen-inch (18") lifts, compacted, and contoured to fit the surrounding topography. Prior to backfilling, a 20 mil polyurethane liner was installed in the floor of the North Excavation at approximately five feet (5') bgs. Approximately six inches (6") of non-impacted pad sand was installed both above and below the liner to protect the liner from damage during installation and backfilling activities.

Reseeding of the Poker Lake Unit #158 Flowline release site with vegetation acceptable to the BLM will occur prior to the close of the 2011 calendar year.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

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

- TPH concentrations in accordance with EPA Method SW-846 8015M
- Chloride concentrations in accordance with EPA Method 4500 Cl-B

4.2 Decontamination of Equipment

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

4.3 Laboratory Protocol

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

5.0 SITE CLOSURE REQUEST

Remediation activities conducted at the Poker Lake Unit #158 Flowline release site met the objectives set forth in the *Remediation Summary and Risk-Based Closure Strategy* dated August 2010. Soil samples collected from the floors and sidewalls of the North and South Excavations were analyzed by an NMOCD-approved laboratory, and concentrations of TPH and chloride were below the remediation action levels established for the site. Based on these analytical results, Basin recommends BOPCO provide the NMOCD Artesia District Office and the BLM a copy of this *Remediation Summary & Risk-Based Site Closure Request* and request the NMOCD grant site closure to the Poker Lake Unit #158 Flowline release site.

6.0 LIMITATIONS

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

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

7.0 DISTRIBUTION:

Copy 1: Mike Bratcher

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division (District 2)

1301 E. Grand Avenue Artesia, NM 88210

Copy 2: James Amos

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BOPCO, LP

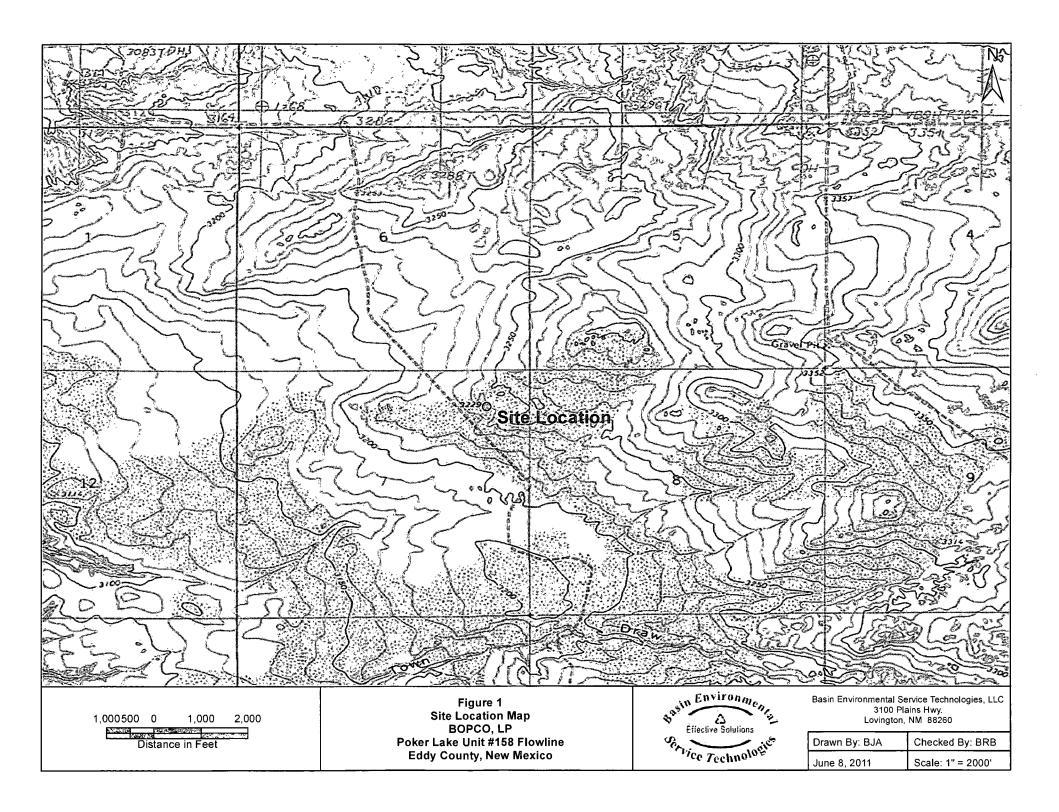
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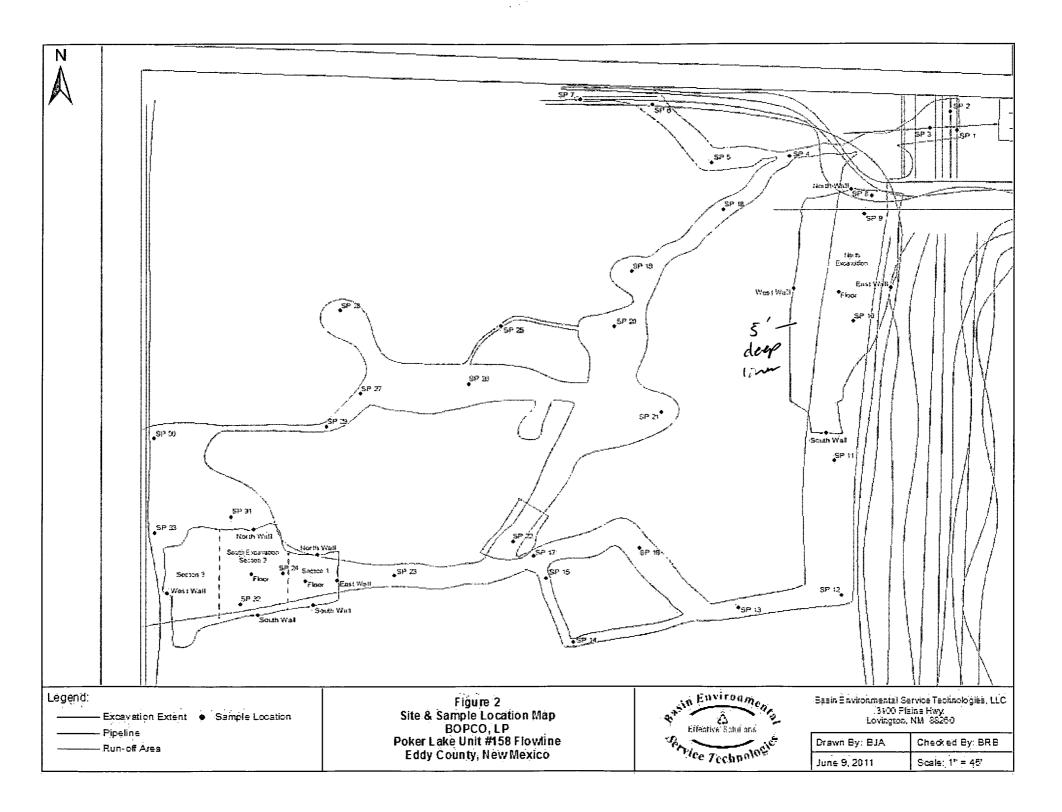
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Figures





Tables

TABLE 1 CONCENTRATIONS OF TPH & CHLORIDES IN SOIL

	CAMPUE			ME	THOD: 801	TOTAL	4500 CI-B	
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
Sample 1 @ Surface	Surface	07/14/10	In-Situ	_	<u> </u>	-	_	48
Sample 1 @ 1'	1 Foot	07/14/10	In-Situ	-	-	-	_	80
Sample 2 @ 6"	6 Inches	07/14/10	In-Situ	1650	4280	18.2	5,948	80
Sample 2 @ 4'	4 Feet	07/15/10	In-Situ	-	_	-	_	912
Sample 2 @ 8'	8 Feet	07/15/10	In-Situ	<10.0	85.1	27.3	112	5,040
Sample 3 @ 1'	1 Foot	07/14/10	In-Situ	_	-	-	-	64
Sample 4 @ 1'	1 Foot	07/14/10	In-Situ	-	-	-	-	48
Sample 5 @ 1'	1 Foot	07/14/10	In-Situ	-	-	-	-	<16
Sample 6 @ 1'	1 Foot	07/14/10	In-Situ	-	-	-	-	<16
Sample 8 @ 6"	6 Inches	07/14/10	In-Situ	1660	7500	67	9,227	208
Sample 8 @ 4'	4 Feet	07/16/10	In-Situ	69.6	491	<10.0	561	4,960
Sample 8 @ 8'	8 Feet	07/16/10	In-Situ	25.6	282	<10.0	308	28,400
Sample 9 @ 1'	1 Foot	07/14/10	In-Situ	-	-	-	-	1,070
Sample 9 @ 3'	3 Feet	07/15/10	In-Situ	_	-	-	-	10,500
Sample 9 @ 5'	5 Feet	07/16/10	In-Situ	-	_	-	_	5,360
Sample 12 @ 1'	1 Foot	07/14/10	In-Situ	-	-	-	-	32
Sample 18 @ 1'	1 Foot	07/14/10	In-Situ	<10.0	<10.0	<10.0	<10.0	32
Sample 18 @ 3'	3 Feet	07/16/10	In-Situ	-	_	-	_	32
Sample 22 @ 6"	6 Inches	07/14/10	In-Situ	_	-	-	-	416
Sample 22 @ 4'	4 Feet	07/16/10	In-Situ	-	-	-	-	528
Sample 22 @ 8'	8 Feet	07/16/10	In-Situ	-	_	-	-	1,060
Sample 24 @ 6"	6 Inches	07/15/10	In-Situ	<50.0	4270	<50.0	4,270	496
Sample 24 @ 4'	4 Feet	07/16/10	In-Situ	-	-	-	-	576
Sample 24 @ 8'	8 Feet	07/16/10	In-Situ	-	-	-	•	3,200
Sample 25 @ 1'	1 Foot	07/15/10	In-Situ	_	_	-	-	<16
Sample 27 @ 1'	1 Foot	07/15/10	In-Situ	-	-	-	-	<16
Sample 30 @ 1'	1 Foot	07/15/10	In-Situ	-	-	-	-	<16
Sample 32 @ 1'	1 Foot	07/15/10	In-Situ	-	-	-	-	<16
Sample 33 @ 1'	1 Foot	07/15/10	In-Situ	-	-	-	-	32

TABLE 1 CONCENTRATIONS OF TPH & CHLORIDES IN SOIL

A 2/25 2/25 2/25 2/25	MPLE ATE 5/2011 5/2011 5/2011	SOIL STATUS In-situ In-situ In-situ	GRO C ₆ -C ₁₂ (mg/Kg) <10 <10	DRO C ₁₂ -C ₂₈ (mg/Kg) 151 14.0 <10	ORO C ₂₈ -C ₃₅ (mg/Kg) 27.0 <10	TPH C ₆ -C ₃₅ (mg/Kg) 178 14.0	CHLORIDE (mg/Kg) 512 2,320
2/25 2/25 2/25	5/2011 5/2011	In-situ In-situ	<10 <10	14.0	<10		
2/2! 2/2!	5/2011	In-situ	<10			14.0	2.320
2/2				<10			-,
	5/2011	In-situ			<10	<10	304
2/28			<10	<10	<10	<10	240
2/28							
1 2/2	8/2011	In-situ	<10	<10	<10	<10	240
2/28	8/2011	In-situ	<10	<10	<10	<10	192
A 2/28	8/2011	In-situ	<10	128	20.1	148.1	288
2/28	8/2011	In-situ	<10	<10	<10	<10	160
2/28	8/2011	In-situ	<10	<10	<10	<10	48.0
2/28	8/2011	In-situ	<10	<10	<10	<10	32.0
2/28	8/2011	In-situ	<10	<10	<10	<10	32.0
3/2	/2011	In-situ	<10	367	68.6	435.6	96.0
3/2	/2011	In-situ	<10	304	50.7	354.7	272
3/2	/2011	In-situ	<10	<10	<10	<10	16.0
3/2	/2011	In-situ	<10	<10	<10	<10	32.0
3/4	/2011	In-situ	22.0	320	54.1	396.1	112
3/4	/2011	In-situ	<10	<10	<10	<10	80.0
	A 2/26 2/26 2/26 2/26 2/26 2/26 A 3/2 3/2 3/2 A 3/4	2/28/2011 A 2/28/2011 2/28/2011 2/28/2011 2/28/2011 2/28/2011 2/28/2011 3/2/2011 3/2/2011 3/2/2011 3/2/2011	2/28/2011 In-situ A 2/28/2011 In-situ 2/28/2011 In-situ 2/28/2011 In-situ 2/28/2011 In-situ 2/28/2011 In-situ 2/28/2011 In-situ A 3/2/2011 In-situ 3/2/2011 In-situ 3/2/2011 In-situ 3/2/2011 In-situ A 3/2/2011 In-situ 3/2/2011 In-situ In-situ A 3/4/2011 In-situ In-situ	2/28/2011 In-situ <10	2/28/2011 In-situ <10	2/28/2011 In-situ <10	2/28/2011 In-situ <10

SAMPLE LOCATION	SAMPLE DEPTH (Below Ground Surface)	SAMPLE DATE	CHLORIDE (mg/Kg)	PID (mg/Kg)	
Sample 1 @ Surface	Surface	7/14/2010	<128	37.9	
Sample 1 @ 6"	6"	7/14/2010	<128	22.5	
Sample 1 @ 1'	1'	7/14/2010	<128	42.1	
Sample 2 @ Surface	Surface	7/14/2010	<128	82.0	
Sample 2 @ 6"	6"	7/14/2010	<128	117.0	
Sample 2 @ 1'	1'	7/15/2010	1,082	32.0	
Sample 2 @ 2'	2'	7/15/2010	>2468	34.8	
Sample 2 @ 3'	3'	7/15/2010	880	6.9	
Sample 2 @ 4'	4'	7/15/2010	356	22.4	
Sample 2 @ 5'	- 5'	7/16/2010	1,664	25.9	
Sample 2 @ 6'	6'	7/16/2010	924	42.5	
Sample 2 @ 7'	7'	7/16/2010	2,244	79.0	
Sample 2 @ 8'	8'	7/18/2010	>2535	236.0	
Sample 3 @ 6"	6"	7/14/2010	<128	9.8	
Sample 3 @ 1'	1'	7/14/2010	<112	21.0	
Sample 4 @ 6"	6"	7/14/2010	<128	68.1	
Sample 4 @ 1'	1'	7/14/2010	<112	16.0	
Sample 5 @ 6"	6"	7/14/2010	<112	29.1	
Sample 5 @ 1'	1'	7/14/2010	<112	8.4	
Sample 6 @ 6"	6"	7/14/2010	<112	19.8	
Sample 6 @ 1'	1'	7/14/2010	<112	3.9	
Sample 7 @ 6"	6"	7/14/2010	<112	13.8	
Sample 7 @ 1'	1'	7/14/2010	<112	29.1	
Sample 8 @ 6"	6"	7/14/2010	152	948.0	
Sample 8 @ 1'	1'	7/14/2010	180	1,200.0	
Sample 8 @ 2'	2'	7/16/2010	320	156.0	
Sample 8 @ 3'	3'	7/16/2010	>2532	74.7	
Sample 8 @ 4'	4'	7/16/2010	>2532	255.0	
Sample 8 @ 5'	5'	7/16/2010	>2532	102.0	
Sample 8 @ 6'	6'	7/16/2010	>2532	40.1	
Sample 8 @ 7'	7'	7/16/2010	>2532	215.0	
Sample 8 @ 8'	8'	7/16/2010	>2532	219.0	
Sample 9 @ 6"	6"	7/14/2010	<112	30.0	
Sample 9 @ 1'	1'	7/14/2010	1,256_	36.3	
Sample 9 @ 2'	2'	7/15/2010	>2468	43.1	
Sample 9 @ 3'	3'	7/15/2010	>2468	4.7	
Sample 9 @ 4'	4'	7/15/2010	>2468	10.3	
Sample 9 @ 5'	5'	7/16/2010	>2532	59.8	

SAMPLE LOCATION	SAMPLE DEPTH (Below Ground Surface)	SAMPLE DATE	CHLORIDE (mg/Kg)	PID (mg/Kg)	
Sample 10 @ 6"	6"	7/14/2010	<128	27.0	
Sample 10 @ 1'	1'	7/14/2010	<128	96.0	
Sample 11 @ 6"	6"	7/14/2010	<128	117.0	
Sample 11 @ 1'	1'	7/14/2010	188	26.5	
Sample 12 @ 6"	6"	7/14/2010	<128	6.5	
Sample 12 @ 1'	1'	7/14/2010	<128	6.9	
Sample 13 @ 6"	6"	7/14/2010	<128	62.0	
Sample 13 @ 1'	1'	7/14/2010	<128	13.2	
Sample 14 @ 6"	6"	7/14/2010	<128	52.6	
Sample 14 @ 1'	1'	7/14/2010	<128	1.7	
Sample 15 @ 6"	6"	7/14/2010	<128	6.3	
Sample 15 @ 1'	1'	7/14/2010	<128	3.9	
Sample 16 @ 6"	6"	7/14/2010	<128	22.5	
Sample 16 @ 1'	1'	7/14/2010	<128	8.4	
Sample 17 @ 6"	6"	7/14/2010	<128	67.0	
Sample 17 @ 1'	1'	7/14/2010	<128	7.9	
Sample 18 @ 6"	6"	7/14/2010	<128	10.5	
Sample 18 @ 1'	1'	7/14/2010	<128	185.0	
Sample 18 @ 2'	2'	7/16/2010	<128	23.3	
Sample 18 @ 3'	3'	7/16/2010	<128	71.3	
Sample 19 @ 6"	6"	7/14/2010	<128	34.8	
Sample 19 @ 1'	1'	7/14/2010	<128	46.0	
Sample 20 @ 6"	6"	7/14/2010	1,636	101.0	
Sample 20 @ 1'	1'	7/14/2010	<128	54.8	
Sample 21 @ 6"	6"	7/14/2010	<128	3.4	
Sample 21 @ 1'	1'	7/14/2010	<128	25.8	
Sample 22 @ 6"	6"	7/14/2010	248	63.0	
Sample 22 @ 1'	1'	7/14/2010	440	53.9	
Sample 22 @ 2'	2'	7/16/2010	520	12.0	
Sample 22 @ 3'	3'	7/16/2010	<128	133.0	
Sample 22 @ 4'	4'	7/16/2010	324	77.8	
Sample 22 @ 5'	5'	7/16/2010	324	45.1	
Sample 22 @ 6'	6'	7/16/2010	368	17.0	
Sample 22 @ 7'	7'	7/16/2010	1,556	24.8	
Sample 22 @ 8'	8'	7/16/2010	1,084	35.8	
Sample 23 @ 6"	6"	7/15/2010	<112	9.6	
Sample 23 @ 1'	1'	7/15/2010	<112	4.7	

SAMPLE LOCATION	SAMPLE DEPTH (Below Ground Surface)	SAMPLE DATE	CHLORIDE (mg/Kg)	PID (mg/Kg)		
Sample 24 @ 6"	6"	7/15/2010	440	97.0		
Sample 24 @ 1'	1'	7/15/2010	536	33.7		
Sample 24 @ 2'	2'	7/16/2010	368	20.9		
Sample 24 @ 3'	3'	7/16/2010	212	52.3		
Sample 24 @ 4'	4'	7/16/2010	468	25.0		
Sample 24 @ 5'	5'	7/16/2010	1,556	8.0		
Sample 24 @ 6'	6'	7/16/2010	1,668	7.7		
Sample 24 @ 7'	7'	7/16/2010	2,052	48.9		
Sample 24 @ 8'	8'	7/16/2010	>2532	8.3		
Sample 25 @ 6"	6"	7/15/2010	<112	38.6		
Sample 25 @ 1'	1'	7/15/2010	<112	23.0		
Sample 26 @ 6"	6"	7/15/2010	<112	9.8		
Sample 26 @ 1'	1'	7/15/2010	<112	35.3		
Sample 27 @ 6"	6"	7/15/2010	<112	16.0		
Sample 27 @ 1'	1'	7/15/2010	<112	5.2		
Sample 28 @ 6"	6"	7/15/2010	<112	27.0		
Sample 28 @ 1'	1'	7/15/2010	<112	36.0		
Sample 29 @ 6"	6"	7/15/2010	<112	5.8		
Sample 29 @ 1'	1'	7/15/2010	<112	8.2		
Sample 30 @ 6"	6"	7/15/2010	<112	5.2		
Sample 30 @ 1'	1'	7/15/2010	<112	19.0		
Sample 31 @ 6"	6"	7/15/2010	<112	15.1		
Sample 31 @ 1'	1'	7/15/2010	<112	31.5		
Sample 32 @ 6"	6"	7/15/2010	<112	42.6		
Sample 32 @ 1'	1'	7/15/2010	<112	31.0		
Sample 33 @ 6"	6"	7/15/2010	<112	6.2		
Sample 33 @ 1'	1'	7/15/2010	<112	14.3		
Sample #24 Floor	6'	2/15/2011	2,288	<u>-</u>		
Sample #24 North Wall	6'	2/15/2011	1,476	-		
Sample #24 South Wall	6'	2/15/2011	748	-		
Sample #24 East Wall	6'	2/15/2011	688	-		
Sample #2 (Road Crossing)	4'	2/17/2011	256	-		
Sample #9	6'	2/17/2011	4,444	-		

SAMPLE LOCATION	SAMPLE DEPTH (Below Ground Surface)	SAMPLE DATE	CHLORIDE (mg/Kg)	PID (mg/Kg)
Sample #22 @ 10'	10'	2/21/2011	1,836	-
Sample #22 @ 12'	12'	2/21/2011	808	-
Sample #22 @ 14'	14'	2/21/2011	532	-
Sample #24 @ 8'	8'	2/21/2011	1,392	-
Sample #24 @ 10'	10'	2/21/2011	3,164	-
Sample #24 @ 12'	12'	2/21/2011	5,232	-
Sample #24 @ 14'	14'	2/21/2011	3,452	-

Appendices

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

1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

1220 S. St. Francis Dr., Santa Fc, NM 87505

Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources ECEIVED

Oil Conservation Division 1220 South St. Francis Dr.

Form C-141 Revised October 10, 2003

MAY 13 2010 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

2RP-539

NMOCD ARTESIA Santa Fe, NM 87505

30-015-31690 **Release Notification and Corrective Action** nXnw 1035747001 **OPERATOR** Final Report Initial Report Name of Company BOPCO, L.P. 260137 Contact Tony Savoie Telephone No. 432-556-8730 Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 Facility Name Poker Lake Unit 158 Tank Battery Facility Type E&P Surface Owner Federal Mineral Owner Federal Lease No. LOCATION OF RELEASE Feet from the Unit Letter Section **Township** Range Feet from the North/South Line East/West Line County 248 30F Eddy Α **Latitude** N 32.237274 **Longitude** W 103.914835 NATURE OF RELEASE Type of Release: Produced water and crude oil Volume of Release: 5 Bbls of Volume Recovered: none Produced water and 10 Bbls of Crude oil Source of Release: a 2 3/8" flow line under the facility entrance road Date and Hour of Occurrence Date and Hour of Discovery 5/8/10 10:43 a.m. Unkown Was Immediate Notice Given? If YES, To Whom? Randy with the NMOCD By Whom? Tony Savoie Date and Hour 5/8/10 12:24 p.m. Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* The flow line delivering produced fluid from the well to the tank battery developed a leak; the temporary repair clamp was placed on the affected area. Describe Area Affected and Cleanup Action Taken.*The released fluid affected approximately 250 sq. ft of pasture land and approximately 800 sq.ft. of caliche entrance road. The oil saturated soil in the pasture measured approximately 125 ft. long by 2 ft. wide, approximately 6 cubic yards of the saturated soil was removed with shovels and a backhoe and stockpiled on the well pad location The Site remediation for the produced water and crude oil spill will follow the NMOCD guidelines for leaks and spills. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Approved by District Supervisor: Signed By Mily Printed Name: Tony Savoie Title: Waste Mgmt.& Remediation Specialist Approval Date: **Expiration Date:** E-mail Address: TASavoie@BassPet.com Conditions of Approval: Attached Remediation per OCD Rules & Date: 5/13/10 Phone:432-556-8730 Guidelines. SUBMIT REMEDIATION

PROPOSAL NOT LATER THAN:

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

State of New Mexico Energy Minerals and Natural Resources

JUL 15 2010

Form C-141 Revised October 10, 2003

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

Submit 2 Copies to appropriate

NMOCD ARTESIA

Submit 2 Copies to appropriate

NMOCD ARTESIA

Side of form

			Rele	ease Notification			ction			
	·				OPERA'		🛛 Initi	al Report		
Name of Co					Contact Tony Savoie					
				ad, N.M. 88220	Telephone No. 432-556-8730 Facility Type E&P					
Facility Nai	ne Poker I	Lake Unit 15	o ank E	sattery	Facility 1 y	e E&P				
Surface Ow	ner Federa	al		Mineral Owner	Federal		Lease 1	Vo.		
				LOCATIO	ON OF RE	LEASE				
Unit Letter	Section	Township	Range	Feet from the Nor	County					
A	7	248	30E					Eddy		
	1			_atitude_N 32.23727	4 Longity	da W 103 9148	235	<u> </u>		
			ā	_			555			
Tumo of Dalo	ngo: Produc	ed water and	oruda oil	NATUR	Volume of	Release: 10 Bbls	of Volume I	Recovered: none		
Type of Refe	asc. Frounc	ica water and	crade on			water and 10 Bbls	1	recevered. Hone		
					Crude oil					
	····		under the	acility entrance road	Unkown	dour of Occurrent	Date and 7/5/10 8:	Hour of Discovery 00 a.m.		
Was Immedi	ate Notice (Yes [] No 🔲 Not Require	If YES, To Whom? Left message on NMOCD emergency number.					
By Whom?						four 7/5/10 10:30				
Was a Water	course Read		Yes 🗵	7 N.	If YES, Ve	olume Impacting	the Watercourse.			
				Ī <u></u>						
If a Watercon	irse was Im	pacted, Descr	ibe Fully.	•						
Describe Car	ise of Probl	em and Reme	dial Actio	n Taken.* The flow line	delivering pro	duced fluid from	the well to the tank	battery developed a leak; the		
temporary re	pair clamp	was placed on	the affect	ed area.						
								nd approximately 200 sq.ft. of		
								d along the same pathway as a		
total vertical			ted to an	ipparent instorical spin	area. The area	was mapped out a	no sampies were co	ollected on 7/14/10 to determine		
The Site rem	ediation for	the produced		crude oil spill will folk						
I hereby cert	fy that the	information g	iven above	is true and complete to	the best of my	knowledge and u	inderstand that pur	suant to NMOCD rules and		
								cases which may endanger		
								ieve the operator of liability r, surface water, human health		
								ompliance with any other		
		ws and/or regi		valles of a G 1 tt (appoin	2000	o mo operant or	rosponosomi, ros e	omphance will any viller		
						OIL CON	SERVATION	DIVISION		
Cionatura	F FA	- - - -	223							
Signature: (au Danie						District Supervis	or:			
Printed Name	e: Tony Sav	roie				· · · · · · · · · · · · · · · · · · ·				
Title: Waste	Mgmt.& Re	emediation Sp	ecialist		Approval Da	te:	Expiration	Date:		
E-mail Addre	ess: TASavo	oie@BassPet.	com		Conditions of	f Approval:		Attached		
Date: 7/14/10)			Phone:432-556-8730	30					

^{*} Attach Additional Sheets If Necessary

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

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

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

FEB 1 4 2013

NMOCD ARTESIA

Release Notification and Corrective Action

OPERATOR Initial Report X											X Final Report	
Name of Co	mpany	BOPCO, LI)			Contact Tony Savoie						
				sbad, NM 88220)	Telephone No. (432)556-8730						
		r Lake Unit #				Facility Type E&P						
Surface Ow	ner Fede	ral		Mineral O	wner	Federal			N/R A	Lease N		
				LOCA	TIO	N OF R	FI	FASE				
Unit Letter	Section	Township	Range	Feet from the		h/South Line		Feet from the	East/\	West Line	County	
A	7	24S	30E			Eddy						
Latitude 32.237274° North Longitude 103. 914835° West												
			Datit			OF RE	Ι.1),)1 10	155 W CSt		
Type of Rele	ase Produc	ed water and	crude oil	IVAL	OIL			Release 5 bbls o		Volume I	Recovered	None
Type of itele	uso i roduc	valor and	J1 440 511			produced water and 10 bbls of crude oil					1000,000	. vone
Source of Re	lease A 2	3/8" flow line	under the	facility entrance r	oad		d H	lour of Occurrence	e		Hour of Di 10:43 AM	
Was Immedia	ate Notice (es No	Not Required				Whom? n the NMOCD				
By Whom?	Tony Savo	ie				Date and Hour 5/8/10, 12:24 PM						
Was a Water								lume Impacting t		ercourse.	 	
			Yes X	K No								
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.'	k								
		lem and Remo			ow lir	ne delivering	g pı	roduced fluid from	m the w	vell to the t	ank battery	developed a leak. A
caliche entra release was i	nce road. T emediated	The oil-saturat as per NMOC	ed soil in CD approv	the pasture measu	ired a	pproximatel attached Re	ly 1 eme	125 ft. long by 2	ft. wid	e. Followir	ng initial re	ximately 800 sq.ft. of esponse activities, the <i>Request</i> for details of
								mv knowledge a	nd unde	erstand that	pursuant t	to NMOCD rules and
regulations a	ll operators	are required	to report	and/or file certain	relea	se notificati	ion	s and perform co	rrective	actions fo	r releases,	which may endanger
public health	or the env	rironment. Th	e acceptai	nce of a C-141 rep	ort b	y the NMO	CD	marked as "Fina	ıl Repo	rt" does no	t relieve th	e operator of liability
or the enviro	operations i	nave failed to	adequatei	y investigate and free tance of a C-14	emea 11 ren	iate contami	inai	tion that pose a the	ireat to	ground wa sponsibility	ter, surface	water, human health liance with any other
		ws and/or regi			ч тор	ore does no		eneve the operation	01 10	эронзюни	ioi comp	nance with any other
		177.0	. • .			OIL CONSERVATION DIVISION						ON
6:	15/	h										
Signature: Printed Nam	J	Ben	FOL	Approved	bу	District Supervis	or:					
Title: Approval Date: Expiration Date:												
E-mail Addr	ess: TASav	oie@BassPet.	زم com	agnizo Chasmen	1 <i>v.c gj</i> r	Condition	s of	f Approval:				
Date: 3/1	4/13	Pho	ne: (432)5	, ,	क्लंड 							
	·	_		549-9597								
			ر د دی	,						RE(CEIV	ED
\									- 1) 1 4 00	1

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

State of New Mexico Energy Minerals and Natural Resources

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

Form C-141 Revised October 10, 2003

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

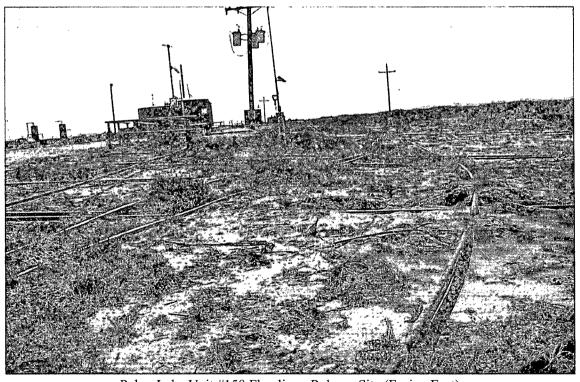
and the second s			Rele	ease Notific	atio	on and Co	orrective A	ction	• FEB	1 4 2013		
					OPF	RATOR			NMQQ	Q _P APTES!A	nal Report	
Name of Co	mpany	BOPCO, LI		-		Contact Tony Savoie						
				sbad, NM 8822	20		No. (432)556-87	730				
Facility Na		Lake Unit #				Facility Typ						
									1			
Surface Ow	ner Fede	ral		Mineral C)wner	Federal			Lease N	No.		
	Ta			y		N OF RE						
Unit Letter A	Section 7	Township 24S	Range 30E	Feet from the	Nort	h/South Line	Feet from the	East/	West Line	County Eddy		
L	Latitude 32.237274° North Longitude 103, 914835° West											
				NAT	URI	E OF REL	EASE					
Type of Rele	ease Produc	ed water and	crude oil				Release 10 bbls water and 10 bbls		Volume I	Recovered None		
Source of Re	elease A 2	3/8" flow line	under the	facility entrance	road				Hour of Discovery 0, 8:00 AM			
Was Immedi	ate Notice (7 N	Net Desciond		If YES, To Whom? Left message on NMOCD emergency number						
D 1111 0			es No	Not Required					cy number			
By Whom? Was a Water				 .			Hour 7/5/10, 10:30 clume Impacting t					
was a water	Course Read		Yes Z	K No		11 123, V	nume impacting t	ne wai	ercourse.			
If a Waterco	urse was Im	pacted, Descr	ibe Fully.'	k					 .			
Dagariha Ca	use of Drob	lam and Dam	adial Aati	n Takanik Tha f	1 1:.	4-1		(1	.11 (1 . 4	ank battery develo	1l. A	
		was placed on			10W 11I	ie delivering p	roduced fluid froi	m the v	ven to the t	ank battery develo	рец а теак. А	
Describe Are	ea Affected	and Cleanup	Action Ta	ken.* The release	ed fluid	d affected appr	oximately 600 sq.	. ft of p	asture land	and approximately	200 sq.ft. of	
caliche entra	nce road. T	he affected ar	ea in the p	asture measured	approx	imately 300 ft	. long by 2 ft. wid	le. This	spill travel	led along the same	pathway as a	
spill reporte	d on 5/8/10	and also con	nnected to	an apparent hist	torical	spill area. Th	e area was mapp	ed out,	and sampl	es were collected	on 7/14/10 to	
the attached	tai verticai : Remediatio	and norizonta on Summary	i extent. F & Risk₋R	ollowing initial re ased Site Clasur	espons e Rea	e activities, the	e release was remo	ediated activit	as per NM ies and lak	OCD approval. Ple poratory analytical	ease reference	
confirmation			a mon b	useu sue ciosur	e neg	nest for actain	5 of Temediation	activit	ics and iac	soratory analytical	results from	
I hereby cer	tify that the	information	given abo	ve is true and cor	nplete	to the best of	my knowledge ar	nd unde	erstand that	pursuant to NMC	CD rules and	
regulations a	all operators	are required	to report	and/or file certain	n relea	se notification	s and perform co	rrective	actions fo	r releases, which	may endanger	
										t relieve the opera- ter, surface water,		
or the enviro	operations in	addition, NM	10CD acc	eptance of a C-1	41 ren	ort does not r	elieve the operato	or of re	ground wa sponsibility	for compliance v	ith any other	
federal, state	; or local la	ws and/or regu	ılations.									
, . "	10	/					OIL CON	<u>SERV</u>	ATION	DIVISION		
Signature:	Dh	le l		•								
Printed Nam	e: 1	Ben	J. Acqu	170 (Agent of	(P)	Approved by	District Supervis	or:				
767 Title: Wasse		Project Al	na 400	Bran Environm	iental	Approval Da	te:		Expiration	Date:		
E-mail Addr	ess: TASavo	oie@BassPet.	com b	in cymigo A basine	nvices	Conditions o	f Approval:					
Date: 2	14/13		Phone	e: (432)556-8730								
				1001 -014-6	CAT	-		_				

Phone: (432)556-8730 (806) 549-9597

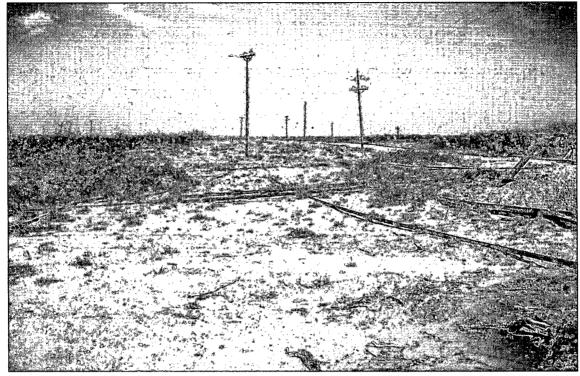
Appendix B Photographs



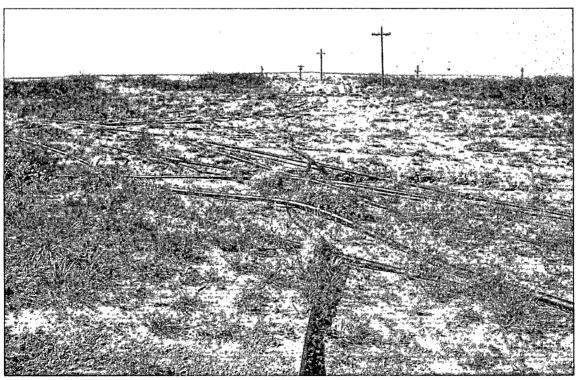
Poker Lake Unit #158 Flowline - Release Point



Poker Lake Unit #158 Flowline - Release Site (Facing East)



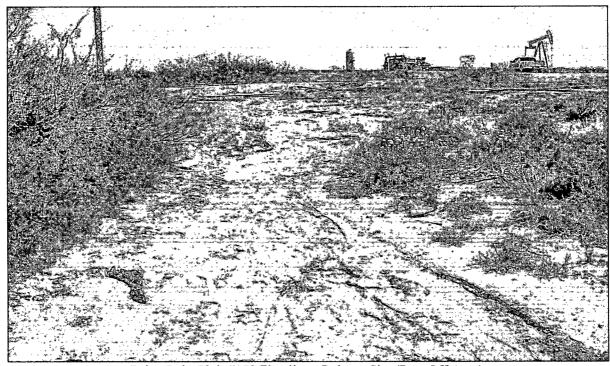
Poker Lake Unit #158 Flowline - Release Site (Facing West)



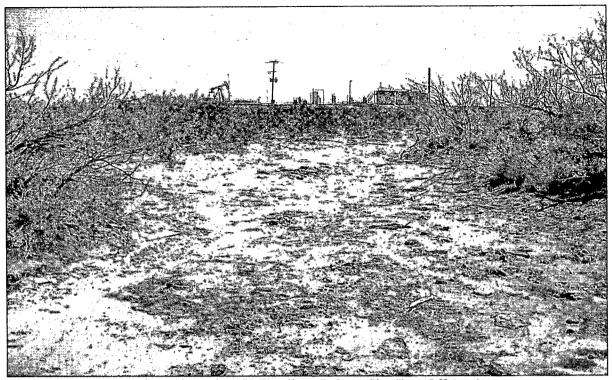
Poker Lake Unit #158 Flowline - Release Site (Facing South)



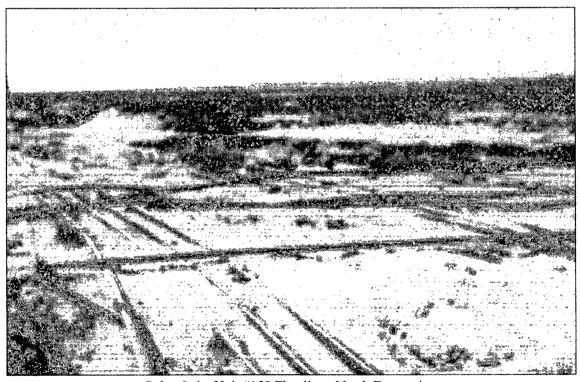
Poker Lake Unit #158 Flowline - Release Site (Run-Off Area)



Poker Lake Unit #158 Flowline - Release Site (Run-Off Area)



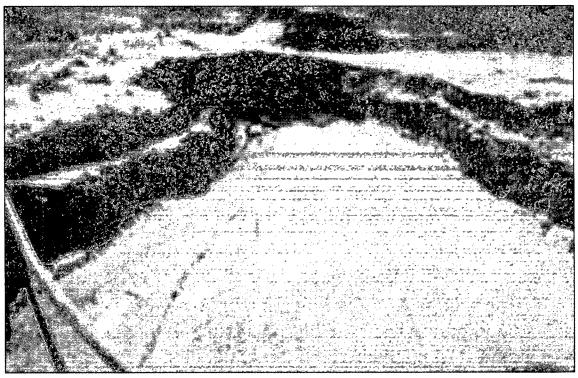
Poker Lake Unit #158 Flowline - Release Site (Run-Off Area)



Poker Lake Unit #158 Flowline - North Excavation



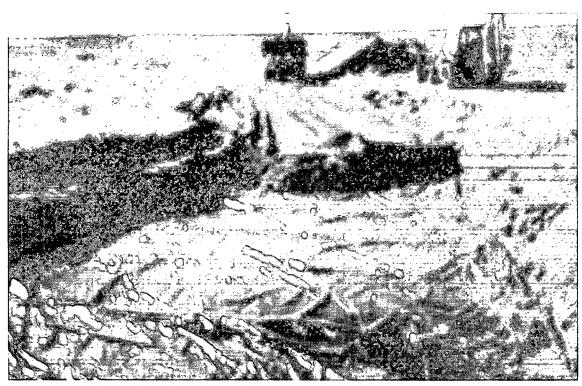
Poker Lake Unit #158 Flowline - North Excavation



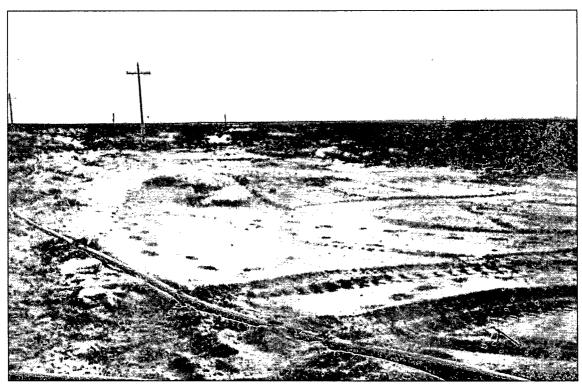
Poker Lake Unit #158 Flowline - North Excavation



Poker Lake Unit #158 Flowline - North Excavation (Liner Installation)



Poker Lake Unit #158 Flowline - North Excavation (During Backfilling)



Poker Lake Unit #158 Flowline - North Excavation (Following Backfilling)



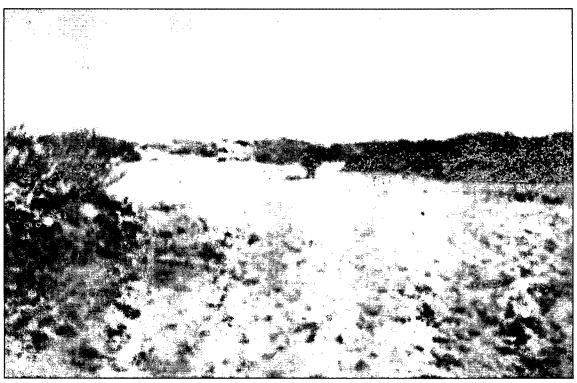
Poker Lake Unit #158 Flowline - South Excavation



Poker Lake Unit #158 Flowline - South Excavation



Poker Lake Unit #158 Flowline - South Excavation (During Backfilling)



Poker Lake Unit #158 Flowline - South Excavation (Following Backfilling)

Appendix C Laboratory Analytical Reports



July 28, 2010

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

Re: PLU 158 Flowline (BOPCO)

Enclosed are the results of analyses for sample number H20383, received by the laboratory on 07/20/10 at 3:50 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydrocarbons

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

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

Method EPA 552.2 Haloacetic Acids (HAA-5)

Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.2 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 7 (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: 07/20/10

Reporting Date: 07/24/10
Project Owner: BOPCO

Project Name: PLU 158 FLOWLINE

Project Location: EDDY CO., NM

Analysis Date: 07/23/10

Sampling Date: 07/14/10 THRU 07/16/10

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 2.5°C

Sample Received By: JH Analyzed By: HM/CK

_	•
	1
~	2

LAB NUMBER	SAMPLE ID	(mg/kg)
H20383-1	SAMPLE 1 @ SURFACE	48
H20383-2	SAMPLE 1 @ 1'	80
H20383-3	SAMPLE 2 @ 6"	80
H20383-4	SAMPLE 2 @ 4'	912
H20383-5	SAMPLE 2 @ 8'	5,040
H20383-6	SAMPLE 3 @ 1'	64
H20383-7	SAMPLE 4 @ 1'	48
H20383-8	SAMPLE 5 @ 1'	< 16
H20383-9	SAMPLE 6 @ 1'	< 16
H20383-10	SAMPLE 8 @ 6"	208
H20383-11	SAMPLE 8 @ 4'	4,960
H20383-12	SAMPLE 8 @ 8'	28,400
H20383-13	SAMPLE 9 @ 1'	1,070
H20383-14	SAMPLE 9 @ 3'	10,500
H20383-15	SAMPLE 9 @ 5'	5,360
Quality Control		510
True Value QC		500
% Recovery		102
Relative Percen	t Difference	< 0.1

METHOD: Standard Methods 4500-CIB

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

Chemist

Date



ANALYTICAL RESULTS FOR

BASIN ENVIRONMENTAL CONSULTING, LLC

ATTN: CAMILLE BRYANT

P.O. BOX 381

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

Receiving Date: 07/20/10

Reporting Date: 07/24/10

Project Owner: BOPCO

Project Name: PLU 158 FLOWLINE

Project Location: EDDY CO., NM

Analysis Date: 07/23/10

Sampling Date: 07/14/10 THRU 07/16/10

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 2.5°C

Sample Received By: JH

Analyzed By: CK

		Cl_
LAB NUMBER	SAMPLE ID	(mg/kg)
H20383-16	SAMPLE 12 @ 1'	32
H20383-17	SAMPLE 18 @ 1'	32
H20383-18	SAMPLE 18 @ 3'	32
H20383-19	SAMPLE 22 @ 6"	416
H20383-20	SAMPLE 22 @ 4'	528
H20383-21	SAMPLE 22 @ 8'	1,060
H20383-22	SAMPLE 24 @ 6"	496
H20383-23	SAMPLE 24 @ 4'	576
H20383-24	SAMPLE 24 @ 8'	3,200
H20383-25	SAMPLE 25 @ 1'	< 16
H20383-26	SAMPLE 27 @ 1'	< 16
H20383-27	SAMPLE 30 @ 1'	< 16
H20383-28	SAMPLE 32 @ 1'	< 16
H20383-29	SAMPLE 33 @ 1'	32
Quality Control		510
True Value QC	The state of the s	500
% Recovery		102
Relative Percer	nt Difference	< 0.1

METHOD: Standard Methods 4500-CI'B

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

Chemist

Date

07/28/10



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING

ATTN: CAMILLE BRYANT

P.O. BOX 381

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

Receiving Date: 07/20/10

FAX TU: (575) 396-14.

Reporting Date: 07/28/10 Project Owner: BOPCO

OPCO Sample Condition:

Project Name: PLU 158 FLOWLINE

Project Location: EDDY COUNTY, NM

Sampling Date: 07/14/10 - 07/16/10

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 2.5°C

Sample Received By: JH

Analyzed By: AB

			GRU	DRO	DRO ext.
			(C_6-C_{10})	(>C ₁₀ -C ₂₈)	$(>C_{28}-C_{35})$
MRFR	SAMPLE)	(ma/ka)	(ma/ka)	(ma/ka)

		(-0 - 10)	(-10 -20)	(-20 -33)
LAB NUMBE	R SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS D	ATE	07/24/10	07/24/10	07/24/10
H20383-3*	SAMPLE 2 @ 6"	1,650	4,280	18.2
H20383-5	SAMPLE 2 @ 8'	<10.0	85.1	27.3
H20383-10	SAMPLE 8 @ 6"	1,660	7,500	67.0
H20383-11	SAMPLE 8 @ 4'	69.6	491	<10.0
H20383-12	SAMPLE 8 @ 8'	25.6	282	<10.0
H20383-17	SAMPLE 18 @ 1'	<10.0	<10.0	<10.0
H20383-22	SAMPLE 24 @ 6"	<50.0	4,270	<50.0
Quality Contr	ol	438	429	-
True Value Q	C	500	500	-
% Recovery		87.6	85.8	-
Relative Perc	ent Difference	1.1	1.1	-

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

*One or more TPH surrogates outside historical limits due to matrix interference.

Lab Directo

Date

H20383 TPHEXT BASIN

SOFT CEU 50FT CEU 575-707-3476 CHAIN-OF-CUSTODY AND ANALYSIS REQUEST 101 Fort Merland Visited Visi

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

Company Name	Basin Environmental "Cauxille Bryant	Musieltina	BILL TO		Transportation of the Control of the		*******	ANA	LYSIS	RE	QUES	ST.	a te los mentos encid		***************************************
Project Manage	": Camille Bryant		P.O. #:											T	
Address: P.O.	BOX 381		Company: BOFCO LA												
City: Louina	tou State: Viv	Zip: <i>8</i> 8260	Attn: Tony Savois	0											
Phone #: 525	-1005-7210 Fax#:		Address:]										
Project #:	Project Owne	er:	City:			1									
Project Name:	PLU 158 Flowline		State: Zip:			نا						1			
Project Location	n: Eddy Collum		Phone #:		0	EXT						1			
Sampler Name:	J. Lowy		Fax #:		005/1	-	30					1		1	
FOR LAB USE ONLY		MATRIX	PRESERV SAMPLIN	iG .	2	٤	\overline{a}							Ì	
		O R R			9	5108	- Z.OB							1	
1 10		VAT TER			.5	2	×							- 1	
Lab I.D.	Sample I.D.	B B O B B O B B O B B O B B O B B B O B	R: 000 SAS		اف	7	0					1	ļ		
		(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER: ACID/BASE: ICE / COOL OTHER:	TIME	Chiloside	1 PH	-Se					1			
H20383-1	Sample 10 Sarface Sample 101' Sample 206' Sample 204' Sample 201' Sample 301' Sample 401' Sample 601' Sample 806'		1 7/14/10		χ					chestory) co				**********	
2	Supple 10 sarrace		7/14/10	8:10					-						
3	544.010 2 P/0"		7/14/10 8	8:15	11	X						1			
4	Samole 204'		7/15/10	Bior											
5	Sample 2 PB'		7/18/10 8	3:05		X									
6	bangle 301'		7/24/10	B:30											
7	Banple 401'		7/14/10 3	3:4C	$\perp \perp$										
8	Sample 501'		7/14/10 €		14										
<u> </u>	Bample Gel'		7/14/10 6		-										
PLEASE NOTE: Usbikly at	5000 (866 " Basingles, Cardinal's Rabbing and client's exclusive remedy for	rany diam araing whether based in contra-	or ton, shall be landed to the amount pard	1:00 by the client for th	TARREST TO SERVICE	시			J.,				rose monde		
the party of the same of the same of	ng lituse for negligenoe and any other sause whatsoever shall be ardinal be lipble for incidental or consequental damages, includin	o deemed waived unless made in writing ar													
Relinguished By	ng out of or related to the performance of services hemunder by	Cardinal, regardess of whether such dains Received BV:	is bosed upon any of the above stated map	em er sherwise Phone Resu		□ Yes	UN	o Add	Phone	#:	e.a::::::::::::::::::::::::::::::::::::	3007E 70E0	n capacitations of the		-
500710	1 1 1 2 1 2 2 2			Fax Result: REMARKS:		□ Yes		o Add	Fax#:	****	*************			***************************************	
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Relinguished B	7/20/10	Received By:	A												
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Sampler - UPS	- Bus - Other:	2.50 Good Intact	5 7 7												
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-24#6



ARDINAL LABORATORIES

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

Company Name	Basin Environment	Consulting	BILL TO	ANALYSIS REQUEST
Project Manage	Camille Bryant		P.O. #:	
Address: P.O.	BON 381		Company: BDPCO LP	
city: Laving	Hora State: JUM	Zip: 88260	Attn: Tony Savoie	
Phone #: 5.25	-1005-7210 Fax#:		Address:	
Project #:	Project Owne	? r :	City:	
Project Name:	PLU 158 Florting	territorio de la constitución de l	State: Zip:	EXT.
Project Location	n:		Phone #:	
Sampler Name:			Fax #:	1 2 N N C C C C C C C C C C C C C C C C C
FOR LAB USE ONLY		MATRIX	PRESERV SAMPLING	
		O W		8015 M 8021 B
lahin	Samuel D	S S S S S S S S S S S S S S S S S S S		
Lab I.D.	Sample I.D.	P S S S S S S S S S S S S S S S S S S S	R: SOO S	10 7 XX
	ALCOHOL:	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	ACID/BASE: ICE/COOL OTHER: BMIL BLAD	Chlevide 17PH 8012 87EX 80
U20882-11	Sample 8 @40			X X
17	Kanala & O &		1/10/10 4:00	
13	Sample B @ 8' Sample 9 @ 1'		7/14/10 9:10	
14	Sample 9 @ 3'		7/15/10 8:10	
15	Banple 9 Q 5'		7/16/10 9:20	
16	Banole 12@1		7/14/10 9:30	
17	Sample 18@1' Sample 18@3' Sample 2206'		7/14/10 6:50	
18	Sanple 18@3'		7/10/10 9:55	
19	Sample 2206"	11111	7/14/10 10:05	
PLEASE NOTE: Liability pr	Bauple 2284!	any claim arising whether based in contra:	g or fort, shall be tanded to the antiquet paid by the open to	ar the
analyses. All claims include	ing those for negligence and any other cause whatsoever shall be tardinal be liable for incidental or consequental damages, includin	ra griffey di abom eastru bevisiv bemeab s	nd reserved by Cordinal within 30 days after completion of t	
	ing out of or related to the performance of services horsender by (
Reiniquianea a	I and the second	Received by.	Fax Resul	ilt. 🛘 Yes 🗘 No Add'l Fax#:
	Time:		REMARK	S:
Relinguished B	* * * * * * * * * * * * * * * * * * *	Received By:		
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Delivered By	: (Circle One)	Sample Condi		
Sampler - UPS	- Bus - Other:	2.50 Good Intact	as (Indials)	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-24/6

#26



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	Basin Fruiron	moutal (20LL	うい	11.	WG.		7			81	LL T	0						AN	ALY:	SIS	RE	QUES	ST		
Project Manage	r: Camille Brye	int				フ			P.0	. #:											T	Ĭ				
Address: P.O.	BON 381								Cor	npa	ny: f	OPCO	L	ρ												
City: LOWING	tous	State: JUM	Zip	: <i>E</i>	82	60		H				y 590														
Phone #: 5 25	-1005-7210	Fax #:						9	Add			1			1											
Project #:		Project Owner	:			,			City	<i>/</i> :					1											
Project Name:	PLU 158 F100	Ulian	•						Staf	te:		Zip:				4									i	
Project Location			***************************************				************		Pho	ne i	#:					EX										
Sampler Name:		errore erroriem erite erite unt erroriem erroriem erite erroriem erite erroriem erite erroriem erite erroriem	******				*******		Fax	#:		·····			4500		1 0	اد								
FOR LAB USE ONLY			Ĭ.			MA	TRIX	(PRE	SERV	SAM	PLI	NG	7		-	_								
Lab I.D.	Sample I.I	D .	(G)RABOR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL OTHER:	DAT	E	TIME	Chiloride	TPH BOIS	1 %									
H20383-2	Sample 2208	1	6			X				,	•	¥	0	10:20	X											
	Sample 2406'	,										7/15/11				X										
23	Sample 2404'			Ш								2/16/1				<u> </u>									 	
	Eample 2408'		1	Ш	Щ	1	1	<u> </u>		_	<u> </u>	7/10/10			Щ											
25	Sample 25@1'	···		Ш		4						7/15/14				<u> </u>	<u> </u>				_ _				 	
26	Banple 2701'		Ц	Ш	Ш		\perp		_			7./15/1	0_	a:20		<u> </u>										
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28	Banolo 3201!		Ц	Ш			$\perp \perp$	\sqcup	_	\bot	<u> </u>	2/15/10		a:50	$oldsymbol{\perp}$										 ļ	
29	Sample 33011		V	用		<u> </u>	1	\sqcup		1	<u>v</u>	7/15/10		9:55	1/1	<u> </u>	 				_				 	
			<u> </u>									<u></u>			<u> </u>		<u> </u>						ليحي			
analyses. All claims include service. In no event shall C	nd Damages. Cordinal's tability and ciken ing those for negligence and any other ca ardinal be liable for incidental or consequ ing out of or related to the performance of	use whatspever shall be d lemal damages, including	reemes withou	i wzive A limita	ed unic ation, b	ss made voiness ir	in writing ntemuptic	ng and r Ilons, fo	receiva isa of u	ed by (ise, or	Cardinal loss of p	within 30 day rofits incurre	s ste d by c	r completion of th Sent, its subsidia	he applica utos,	tilo.										
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		Time:												Fax Resul REMARKS		□ Y•	es	□ No	JAGO	'I Fax	15 .	andrepanae and all	······		 	
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2976

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

#26

Sample Condition

Cool Intact
Yes Yes
No No



March 01, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE UNIT 158 FLOWLINE

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

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Celeg & Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To:

(575) 396-1429

Received:

02/25/2011

Sampling Date:

02/25/2011

Reported:

03/01/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 158 FLOWLINE

Sampling Condition:

Cool & Intact

Project Number:

AFE #24753

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NEW MEXICO

Sample ID: STOCK PILE 'A' (H100388-01)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	02/28/2011	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/01/2011	ND	198	98.8	200	3.49	
DRO >C10-C28	151	10.0	03/01/2011	ND	202	101	200	3.04	
EXT DRO >C28-C35	27.0	10.0	03/01/2011	ND					
Surrogate: 1-Chlorooctane	100 %	% 70-130)	,					
Surrogate: 1-Chlorooctadecane	101 9	% 70-130)						

Sample ID: N EXC FLOOR 5' BGS (H100388-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	02/28/2011	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/01/2011	ND	198	98.8	200	3.49	
DRO >C10-C28	14.0	10.0	03/01/2011	ND	202	101	200	3.04	
EXT DRO >C28-C35	<10.0	10.0	03/01/2011	ND					
Surrogate: 1-Chlorooctane	103	% 70-130			-				
Surrogate: 1-Chlorooctadecane	104	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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 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 subcidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Fax To: (575) 396-1429

Received:

02/25/2011

Sampling Date:

02/25/2011

Reported:

03/01/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 158 FLOWLINE

Sampling Condition:

Cool & Intact

Project Number:

AFE #24753

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NEW MEXICO

Sample ID: N EXC W WALL 5' BGS (H100388-03)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/28/2011	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/01/2011	ND	198	98.8	200	3.49	
DRO >C10-C28	<10.0	10.0	03/01/2011	ND	202	101	200	3.04	
EXT DRO >C28-C35	<10.0	10.0	03/01/2011	ND					
Surrogate: 1-Chlorooctane	106	% 70-130)						
Surrogate: 1-Chlorooctadecane	103	% 70-130)						

Sample ID: N EXC N WALL 5' BGS (H100388-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/28/2011	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/01/2011	ND	198	98.8	200	3.49	
DRO >C10-C28	<10.0	10.0	03/01/2011	ND	202	101	200	3.04	
EXT DRO >C28-C35	<10.0	10.0	03/01/2011	ND					
Surrogate: 1-Chlorooctane	102	% 70-130	1	 -					
Surrogate: 1-Chlorooctadecane	99.6	% 70-130	•						

Cardinal Laboratories

*=Accredited Analyte

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

Celeg D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's fiability and clients exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be idented waived unless made in writing and received by Clardinal 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 incrured by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above started reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Basin Environmental Service Technolog	es LC BILL TO	Control of the Contro	ANALYSIS REQUEST	
Project Manager: Ben J Argunjo	P.O. #:			
Address: P.O. DOX, 301	Company: BOPCO,	P		
City: Loving for State: NM Zip: 88 Phone #: (575) 396 - 2378 Fax #: (575) 396-142 Project #: AFE # 24 753 Project Owner: BO PCC	260 Attn: Tony Savor	<u>e</u>		
Phone #: (575) 396 - 2378 Fax #: (575) 396-142	9 Address: 5 22 W. 7	Termod		
Project #: AFE # 24 753 Project Owner: 30 Pca	S, LP City: Carlsbad	- managered F 4/4-man 1 107 J		
Project Name: Poker Lake Unit 158 Flowline	State: N/M Zip: 89	220		
Project Location: EDDY, NM	Phone #(432) 556-	8730		
Sampler Name: Jody Walters	Fax #:			
FOR LAB USE ONLY	MATRIX PRESERV SAMPL	ING		
	WASTEWATER SOIL OIL SULDGE OTHER: ACIDIBASE: ICE / COOL OTHER:	BOIS M Chlorides		
Hr003981 Stak P. le "A" G.]	X 2-25-11			
2 North Execution Floor 5:365 G 1 3 North Execution West well 5'365 G 1		8:10AM X X		
3 North Excountion West well 5'365 6 1			CANADA TANDA T	
Lif Worth Excuse tion Northwell 5'80 6 1	X 7.25-11	8:30An X X		
PLEASE NOTE: Linkilly and Damages. Cordinal's liability and client's exclusive remody for any claim arising who analyses. All claims, including those for negligence and any other cause whatenever shall be ideemed waved unle- service. In no eyent shall Cardinal be liable for incidental or consequental damages, including without limitation, in	as made in writing and received by Cardinal within 30 days aft usiness interruptions, loss of use, or loss of profits incurred by	or completion of the applicable chest, its subsidiaries.		
atilitates or suckeybors brising out of or related to the performance of services hereunder by Cordinal, tetrardless of Relinquished By: Dge 3 1, Received		Phone Result: 🗆 Yes 🗀 No		
1/2 4 4CC	i Glenson	Fax Result:	o Add'l Fax #:	
Relinque hed By: Date: Received	ву:	email to B	pen + Tony	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 5.50	Sample Condition CHECKED BY: Cool Intact (Initials) Gyes Gyes No No No			



March 03, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE UNIT 158 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 03/01/11 15:50.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keena

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To:

(575) 396-1429

Received:

03/01/2011

Sampling Date:

02/28/2011

Reported:

03/03/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 158 FLOWLINE

Sampling Condition:

Cool & Intact

Project Number:

AFE #24753

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NEW MEXICO

Sample ID: N EXC E WALL 5' (H100401-01)

Chloride, SM4500CI-B	mg.	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/02/2011	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/02/2011	ND	212	106	200	2.38	
DRO >C10-C28	<10.0	10.0	03/02/2011	ND	213	107	200	1.53	
EXT DRO >C28-C35	<10.0	10.0	03/02/2011	ND					
Surrogate: 1-Chlorooctane	117	% 70-130)						
Surrogate: 1-Chlorooctadecane	114	% 70-130)						

Sample ID: N EXC S WALL 5' (H100401-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/02/2011	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/02/2011	ND	212	106	200	2.38	
DRO >C10-C28	<10.0	10.0	03/02/2011	ND	213	107	200	1.53	
EXT DRO >C28-C35	<10.0	10.0	03/02/2011	ND					
Surrogate: 1-Chlorooctane	113	% 70-130					-		
Surrogate: 1-Chlorooctadecane	111	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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

Celey & Keene



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

Received:

03/01/2011

Sampling Date:

02/28/2011

Reported:

03/03/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 158 FLOWLINE

Sampling Condition:

Cool & Intact

Project Number:

AFE #24753

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NEW MEXICO

Sample ID: S EXC SEC 1 FLOOR 5' (H100401-03)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/02/2011	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/02/2011	ND	212	106	200	2.38	
DRO >C10-C28	<10.0	10.0	03/02/2011	ND	213	107	200	1.53	
EXT DRO >C28-C35	<10.0	10.0	03/02/2011	ND					
Surrogate: 1-Chlorooctane	113	% 70-130)					-10-0	
Surrogate: 1-Chlorooctadecane	111	% 70-130)						

Sample ID: S EXC SEC 1 N WALL 5' (H100401-04)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/02/2011	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: AB					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/02/2011	ND	212	106	200	2.38	
DRO >C10-C28	<10.0	10.0	03/02/2011	ND	213	107	200	1.53	
EXT DRO >C28-C35	<10.0	10.0	03/02/2011	ND					
Surrogate: 1-Chlorooctane	108	% 70-130	1						
Surrogate: 1-Chlorooctadecane	106	% 70-130	,						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



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

Fax To: (575) 396-1429

Received:

03/01/2011

Sampling Date:

02/28/2011

Reported:

03/03/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 158 FLOWLINE

Sampling Condition:

Cool & Intact

Project Number:

AFE #24753

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NEW MEXICO

Sample ID: S EXC SEC 1 S WALL 5' (H100401-05)

Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/02/2011	ND	416	104	400	3.77	
TPH 8015M	mg/l	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/02/2011	ND	212	106	200	2.38	
DRO >C10-C28	<10.0	10.0	03/02/2011	ND	213	107	200	1.53	
EXT DRO >C28-C35	<10.0	10.0	03/02/2011	ND					
Surrogate: 1-Chlorooctane	112 %	6 70-130							
Surrogate: 1-Chlorooctadecane	110%	6 70-130							

Sample ID: S EXC SEC 1 STOCKPILE 'C' (H100401-06)

Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/02/2011	ND	416	104	400	3.77	
TPH 8015M	mg/l	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/02/2011	ND	212	106	200	2.38	
DRO >C10-C28	128	10.0	03/02/2011	ND	213	107	200	1.53	
EXT DRO >C28-C35	20.1	10.0	03/02/2011	ND					
Surrogate: 1-Chlorooctane	108 %	6 70-130	"						
Surrogate: 1-Chlorooctadecane	105 %	6 70-130							

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*=Accredited Analyte

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Celey D. Keine



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

Fax To: (575) 396-1429

Received:

03/01/2011

Sampling Date:

02/28/2011

Reported:

03/03/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 158 FLOWLINE

Sampling Condition:

Cool & Intact

Project Number:

AFE #24753

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NEW MEXICO

Sample ID: S EXC SEC 1 E WALL 4' (H100401-07)

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/02/2011	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/02/2011	ND	212	106	200	2.38	
DRO >C10-C28	<10.0	10.0	03/02/2011	ND	213	107	200	1.53	
EXT DRO >C28-C35	<10.0	10.0	03/02/2011	ND					
Surrogate: 1-Chlorooctane	114 9	% 70-130							
Surrogate: 1-Chlorooctadecane	111 9	% 70-130							

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



ND

Notes and Definitions

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	· Basiw Empiromental Service T	ech	nolo	Rie	s L	LC.			7	B	311	L TO		The state of the s						ANA	\LY	'SIS	RE	QUI	EST				
Project Manage	Ben J Arguijo							P.0	O. #.												Т								
Address:	P.O. BOX 301							Co	mpa	any:	Bo	PCD, L	Ρ																
City:	Louington State: NM	Zip	: E	82	60							Savo																	
Phone #: (57	5) 396 2378 Fax #: (575)	39	6-,	142	9							2 W7		60															
	E # 2475 3 Project Owner							Cit	y:	Ca	rĺ,	sbad									İ								
	Poker Lake Unit 158 Flows											Zip: 88	220	>															
	1: EDDY, MM.							Ph	one	#(4	132	356	8730	>							١								
1	Jody Walters							Fa	x #:							١.					ļ						- 1		
FOR LABUSE ONLY					M	ATR	IX.		PRI	SER	۲V.	SAMPL	ING		2	`	des												
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMF	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIN	ΛE	BOISA	110	(h 10/10												
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PLEASE NOTE: Liability or	nd Damages. Cardinal's liability and client's exclusive remedy for a	ny clai	m erisi	ng wh	ether bas	sed in	contract	or to	t, shall	be limi	iteơ to	the amount pa	id by the c	lient for	the					1				Щ.					
	ng those for negligence and any other cause whatsoever shall be ardinal be liable for incidental or consequental damages, including															ble													
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March 08, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE UNIT 158 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 03/02/11 15:34.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keena

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To: (575) 396-1429

Received:

03/02/2011

Sampling Date:

03/02/2011

Reported:

03/08/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 158 FLOWLINE

Sampling Condition:

Cool & Intact

Project Number:

AFE #24753

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NEW MEXICO

Sample ID: S EXC SEC 2 N WALL 5' (H100420-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/04/2011	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/04/2011	ND	192	96.0	200	1.89	
DRO >C10-C28	<10.0	10.0	03/04/2011	ND	189	94.5	200	4.31	
EXT DRO >C28-C35	<10.0	10.0	03/04/2011	ND					
Surrogate: 1-Chlorooctane	105	% 70-130	ı						
Surrogate: 1-Chlorooctadecane	99.8	% 70-130	٠						

Sample ID: S EXC SEC 2 S WALL 5' (H100420-02)

•									
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/04/2011	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/04/2011	ND	192	96.0	200	1.89	
DRO >C10-C28	<10.0	10.0	03/04/2011	ND	189	94.5	200	4.31	
EXT DRO >C28-C35	<10.0	10.0	03/04/2011	ND					
Surrogate: 1-Chlorooctane	108	% 70-130)						
Surrogate: 1-Chlorooctadecane	106	% 70-130)						

Cardinal Laboratories

*=Accredited Analyte

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Celey L'Keine



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Fax To:

Sampling Date:

03/02/2011

Reported:

03/02/2011 03/08/2011

Sampling Type:

Soil

Project Name:

Received:

POKER LAKE UNIT 158 FLOWLINE

Sampling Condition:

Cool & Intact

Project Number:

AFE #24753

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NEW MEXICO

Sample ID: S EXC SEC 2 FLOOR 5' (H100420-03)

Chloride, SM4500Cl-B	mg/l	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/04/2011	ND	432	108	400	3.77	
TPH 8015M	mg/l	(g	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/04/2011	ND	192	96.0	200	1.89	
DRO >C10-C28	304	10.0	03/04/2011	ND	189	94.5	200	4.31	
EXT DRO >C28-C35	50.7	10.0	03/04/2011	ND					
Surrogate: 1-Chlorooctane	112 %	6 70-130)	•				· · · · · · · · · · · · · · · · · · ·	
Surrogate: 1-Chlorooctadecane	107 %	5 70-130)						

Sample ID: S EXC SEC STOCKPILE D (H100420-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/04/2011	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/04/2011	ND	192	96.0	200	1.89	
DRO >C10-C28	367	10.0	03/04/2011	ND	189	94.5	200	4.31	
EXT DRO >C28-C35	68.6	10.0	03/04/2011	ND					
Surrogate: 1-Chlorooctane	112	% 70-130							
Surrogate: 1-Chlorooctadecane	107	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	Busin Environmental	Services Tec	nolos	ies ,	260				81	LL TO						ANAL	YSIS	RE	QUES	ST			
Project Manager	Ben J. Amu	iio.			•		P.	O. #:															
Address:	MD. BOX 301						Cd	mpar	ոy։ [՝	3oPco,	LP :												ı
City:	ovington	State: 712711	Zip: 2	1826	0		Αt	tn: T	Ony	Savoi	e.						Ì			1	1	1	1
Phone #:(575	396.2378 F	Fax #:(575.) 3	396.	1429	9					12 W.M													1
Project#: AFE	ouingtow 396:2378 F 24753 F	Project Owner	: BC	PCO	, 1,	ρ				, Isbad										ļ	ĺ		
Project Name:	Poker Lake Unit	158 Flo	who	<u>.</u>			St	ate: /	M	Zip: QQ	<i>320</i>			İ						ĺ	- [
Project Location	EDDY NM						Pł	one #	(43	2)556-8	3730										1		
Sampler Name:	Jody Walters						Fa	x #:						İ						İ	İ		
FOR LABIUSE ONLY					MA	TRIX		PRES	SERV.	SAMPL	ING												
Lab I.D.	Sample I.D		(G)RAB OR (C)OMP	GROUNDWATER	WASTEWATER		SLUDGE OTHER:	ACID/BASE:	OTHER:			Borsm	Chlerides										
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analyses, All claims, includin	d Damages. Cardinal's liability and client's g those for negligence and any other caus	se whatsoever shall be o	leemed w	aived unle	ss made	in wiiting	and rece	ived by C	ardinal •	within 30 days att	er completion of th	e applica	ble										
attiliates or syccessors arisin	urifinal be liable for incitiental or consequent in out of or related to the performance of s		arainal, re	pardiess o	of whether						asons or otherwis	e.	*******	None of the last		S. Denney mile	Descaring	-		e.shanqurua			
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Sampler - UPS	- Bus - Other:		40	e '	Cool G Ye □ N	Intac s 7	t Yes No		(Init	UNIC)						- Martin		-/			****	****	



March 09, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE UNIT 158 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 03/04/11 16:20.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydorcarbons

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

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To:

(575) 396-1429

Received:

03/04/2011

Sampling Date:

03/04/2011

Reported:

03/09/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 158 FLOWLINE

Sampling Condition:

Cool & Intact

Project Number:

AFE #24753

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NEW MEXICO

Sample ID: S EXC SEC 3 STOCKPILE (H100436-01)

Jumpie			J_C J	510010	 (11200-30	U-,
Chlassida	CHAFO	001.0			/ le	

Chloride, SM4500Cl-B	mg/l	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/07/2011	ND	416	104	400	0.00	
TPH 8015M	mg/l	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	22.0	10.0	03/08/2011	ND	195	97.4	200	0.218	
DRO >C10-C28	320	10.0	03/08/2011	ND	196	98.2	200	2.31	
EXT DRO >C28-C35	54.1	10.0	03/08/2011	ND					
Surrogate: 1-Chlorooctane	113 %	6 70-130)						
Surrogate: 1-Chlorooctadecane	90.6%	6 70-130)						

Sample ID: S EXC SEC 3 WEST WALL 5' (H100436-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/07/2011	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/08/2011	ND	195	97.4	200	0.218	
DRO >C10-C28	<10.0	10.0	03/08/2011	ND	196	98.2	200	2.31	
EXT DRO >C28-C35	<10.0	10.0	03/08/2011	ND					
Surrogate: 1-Chlorooctane	106	% 70-130							
Surrogate: 1-Chlorooctadecane	102	% 70-130							

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Camages. 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 shall Cardinal be liable for incidental or consequential diamages, including, without limitation, business interruptions, loss of use, or loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

Celeg D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	Basin Environmental Service		nno:	Logies, LLC	Γ	BI	LL TO	*****					ANA	LYSIS	RE	QUE	ST		
Project Manage	r: Ben J. Arguijo				Р.С	O. #:													
Address: P.O			-		Со	mpany: E	OPCO, LP		1										
City: Lovingto	on State: NM	Zip	: e	3260	Att	in: Tony	Savoie												
Phone #: (575						dress: 522		mod											
	# 2 4 7 5 3 Project Owner	: BC)PCC), LP	Cit	y: Carlsb	ad		1										
	Poler Lake unit 158 Flow!					ate: NM		0											
	1: EDDY, NM.	,,			1-	one #: (43													
Sampler Name:	Jody Walters				1	x #:													
FOR LAB USE ONLY		T	Ī	MATRIX		PRESERV.	SAMPL	ING											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER:	ACID/BASE: ICE / COOL OTHER:	DATE	TIME	Boism	Chlorides									
HEXHAIL	South Execution Sec3 Stock Pile	6		l y		Ϋ́	34-11	10:00Am	У	Y									
2	South Excuston Sec3 Stock?ile South Execution Sec 3 Washall 5'	G	İ		Ш	X	3-4-11	10:20Am	X	Y									
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PLEASE NOTE: Liability a	of Damages Cardinal's hability and client's exclusive remetly for a	ny clai	m arisi	ng whether based in contract	or ton	t, shall be limited	to the amount pa	l id by the client for	the	L		l			L		<u> </u>	<u> </u>	<u> </u>
analyses. All claims, includi service. In no event shall C	ng those for negligence and any other cause whatscever shall be a ardinal be liable for incidental or consequental damages, including	deeme valho:	c waiv :: limit	ed unless made in writing and ation, buşiness interruptions,	d recei loss of	ived by Cardinal v fluse, or loss of c	ritnin 30 days aft offis incurred by	er completion of th client, its subsidia	e apptea nes.	ble									

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Relinquished By:	Pate 111	Received By:	Phone Result: 🖸 Yes 🖟 No Add'l Phone #:
	3/4/11	$\Lambda \sim \Lambda^{2} - IJ$	Fax Result: ☐ Yes ☐ No Add'l Fax#:
bojunt	Time: 20	Wal Denson	REMARKS:
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/ ~			
	Time:		
			Please email results to pm@basinenv.com
Delivered By: (Circle One)		Sample Condition CHECKED BY:	& TAsavoie@BassPet.com
		Cool_Intact (Initials)	1
Sampler - UPS - Bus - Other:		20 Byes Byes	
		No No	



March 01, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE UNIT 158 FLOWLINE

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

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Celeg & Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax

Received:

02/25/2011

Sampling Date:

02/25/2011

Reported:

03/01/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 158 FLOWLINE

Sampling Condition:

Cool & Intact

Project Number:

AFE #24753

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NEW MEXICO

Sample ID: STOCK PILE 'A' (H100388-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM		<u> </u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	02/28/2011	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/01/2011	ND	198	98.8	200	3.49	
DRO >C10-C28	151	10.0	03/01/2011	ND	202	101	200	3.04	
EXT DRO >C28-C35	27.0	10.0	03/01/2011	ND					
Surrogate: 1-Chlorooctane	100	% 70-130)			<u>-</u> -			
Surrogate: 1-Chlorooctadecane	101	% 70-130)						

Sample ID: N EXC FLOOR 5' BGS (H100388-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	02/28/2011	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/01/2011	ND	198	98.8	200	3.49	
DRO >C10-C28	14.0	10.0	03/01/2011	ND	202	101	200	3.04	
EXT DRO >C28-C35	<10.0	10.0	03/01/2011	ND					
Surrogate: 1-Chlorooctane	103	% 70-130							
Surrogate: 1-Chlorooctadecane	104	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keine



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

Fax To:

(575) 396-1429

Received:

02/25/2011

Sampling Date:

02/25/2011

Reported:

03/01/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 158 FLOWLINE

Sampling Condition:

Cool & Intact

Project Number:

AFE #24753

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NEW MEXICO

Sample ID: N EXC W WALL 5' BGS (H100388-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/28/2011	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: AB			****		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/01/2011	ND	198	98.8	200	3.49	
DRO >C10-C28	<10.0	10.0	03/01/2011	ND	202	101	200	3.04	
EXT DRO >C28-C35	<10.0	10.0	03/01/2011	ND					
Surrogate: 1-Chlorooctane	106	% 70-130							
Surrogate: 1-Chlorooctadecane	103	% 70-130							

Sample ID: N EXC N WALL 5' BGS (H100388-04)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/28/2011	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/01/2011	ND	198	98.8	200	3.49	
DRO >C10-C28	<10.0	10.0	03/01/2011	ND	202	101	200	3.04	
EXT DRO >C28-C35	<10.0	10.0	03/01/2011	ND					
Surrogate: 1-Chlorooctane	102 %	70-130							-
Surrogate: 1-Chlorooctadecane	99.63	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	· Basin Environmental Service	Technologies LCC	BILL TO				ANALYSIS	REQUEST	
Project Manager	Ben J Argunio		P.O. #:						
Address: P.	5.30x 301		Company: BOPCO ,	۱9					
City: Lo	wing tow State: NM	Zip: 88260	Attn: Tony Savoi	·e					
Phone #: (575) 396 - 2378 Fax #:(575)	396-1429	Address: 5 22 ω. 7	Mermod					
Project #: AFE) 394 2379 Fax #:(575) # 24753 Project Owne	": BOPCO, LP	City: (arlsbad)						
	oker Lake Unit 158 Flowli		State: Nm Zip: 88	220					
Project Location	EDDY, MM.		Phone #(432) 556-	8730		1			
Sampler Name:	Jody Walters		Fax #:						
FOR LAB USE ONLY	, , , , , , , , , , , , , , , , , , ,	MATRIX	PRESERV. SAMPL	ING					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	ACID/BASE: ICE / COOL OTHER:	TIME	8015 M	(30, 10, 11)			
	Stock Pile A	G 1 X	X 2.25-11	8:00AM	1 1				
2	North Excavation Floor 5:365 North Excavation West well 5:365	G 1 X	X 7.25-11	8:10AM	1 1				11 11 mm 10 10 (11 mm 10 m
3	North Excavation west well 5'365	6 1 X		8:20AM	XY				
4	Morth Excuse flow Northwell 5'80	6 1 1	X 2-25-11	8:30An	XX				1. C. and in support A. 2. A. A. A. A. A. A. A. A. A. A. A. A. A.
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				 	<u> </u>				
analyses. All claims, including	d Damayes. Cardinal's liability and client's exclusive remedy for og those for negligence and any other cause whatcoever shall be	deeined waived unless made in writing an	d received by Cardinal within 30 days aft	ter completion of th	re applicable	_ 	 		
attiliates or successions prisin	ardinal be liable for incidental or consequental damages, includin agout of or related to the performance of services hereunder by	Cardinal, tegardless of whether such claim	loss of use, or loss of profits incurred by is based upon any of the above stated re	chent, its subsidia easons or otherwis	ie.				
Relinquished By	Date 2511	Received By:	Tu No.	Phone Res Fax Resul REMARKS	t: 🗆 Y		Add'l Phone # Add'l Fax #:	#:	
Relinquished By	Time:	Received By:	Chabre	en	لنفا	no Be	$n+T_0$	orly	
Delivered By: Sampler - UPS	•	Sample Condit Cool Intact 4Yes 4Ye	(laitiálá)						



March 03, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE UNIT 158 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 03/01/11 15:50.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydorcarbons

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

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Celeg & Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Received:

03/01/2011

Sampling Date:

02/28/2011

Reported:

03/03/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 158 FLOWLINE

Sampling Condition:

Cool & Intact

Project Number:

AFE #24753

Project Location:

EDDY COUNTY, NEW MEXICO

Sample Received By:

Jodi Henson

Sample ID: N EXC E WALL 5' (H100401-01)

Chloride, SM4500CI-B Analyte	mg/kg		Analyzed By: HM						
	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/02/2011	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS ·	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/02/2011	ND	212	106	200	2.38	
DRO >C10-C28	<10.0	10.0	03/02/2011	ND	213	107	200	1.53	
EXT DRO >C28-C35	<10.0	10.0	03/02/2011	ND					
Surrogate: 1-Chlorooctane	117	% 70-130							
Surrogate: 1-Chlorooctadecane	114	% 70-130							

Sample ID: N EXC S WALL 5' (H100401-02)

Chloride, SM4500CI-B Analyte	mg/kg		Analyzed By: HM						
	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/02/2011	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/02/2011	ND	212	106	200	2.38	
DRO >C10-C28	<10.0	10.0	03/02/2011	ND	213	107	200	1.53	
EXT DRO >C28-C35	<10.0	10.0	03/02/2011	ND					
Surrogate: 1-Chlorooctane	113 9	% 70-130	,						
Surrogate: 1-Chlorooctadecane	111 5	% 70-130	•						

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*=Accredited Analyte

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Celey D. Keene

02/28/2011



Analytical Results For:

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

03/01/2011

03/03/2011 Sampling Type: Soil

Sampling Date:

Project Name: POKER LAKE UNIT 158 FLOWLINE Sampling Condition: Cool & Intact
Project Number: AFE #24753 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: S EXC SEC 1 FLOOR 5' (H100401-03)

Received:

Reported:

Chloride, SM4500CI-B Analyte	mg/kg		Analyzed By: HM						
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/02/2011	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/02/2011	ND	212	106	200	2.38	
DRO >C10-C28	<10.0	10.0	03/02/2011	ND	213	107	200	1.53	
EXT DRO >C28-C35	<10.0	10.0	03/02/2011	ND					
Surrogate: 1-Chlorooctane	113 %	6 70-130							
Surrogate: 1-Chlorooctadecane	111%	6 70-130							

Sample ID: S EXC SEC 1 N WALL 5' (H100401-04)

Chloride, SM4500Cl-B Analyte	mg/kg		Analyze	Analyzed By: HM					
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/02/2011	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/02/2011	ND	212	106	200	2.38	
DRO >C10-C28	<10.0	10.0	03/02/2011	ND	213	107	200	1.53	
EXT DRO >C28-C35	<10.0	10.0	03/02/2011	ND					
Surrogate: 1-Chlorooctane	108	% 70-130			_				
Surrogate: 1-Chlorooctadecane	106	% 70-130							

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Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



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

Fax To:

(575) 396-1429

Received:

03/01/2011

Sampling Date:

02/28/2011

Reported:

03/03/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 158 FLOWLINE

Sampling Condition:

Cool & Intact

Project Number:

AFE #24753

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NEW MEXICO

Sample ID: S EXC SEC 1 S WALL 5' (H100401-05)

Chloride, SM4500Cl-B Analyte	mg/kg		Analyzed By: HM						
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/02/2011	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/02/2011	ND	212	106	200	2.38	
DRO >C10-C28	<10.0	10.0	03/02/2011	ND	213	107	200	1.53	
EXT DRO >C28-C35	<10.0	10.0	03/02/2011	ND					
Surrogate: 1-Chlorooctane	112	% 70-130)				•	,	
Surrogate: 1-Chlorooctadecane	110	% 70-130)						

Sample ID: S EXC SEC 1 STOCKPILE 'C' (H100401-06)

Chloride, SM4500Cl-B Analyte	mg/kg		Analyzed By: HM				- 1		
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/02/2011	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/02/2011	ND	212	106	200	2.38	
DRO >C10-C28	128	10.0	03/02/2011	ND	213	107	200	1.53	
EXT DRO >C28-C35	20.1	10.0	03/02/2011	ND					
Surrogate: 1-Chlorooctane	108	% 70-130	····						
Surrogate: 1-Chlorooctadecane	105	% 70-130	1						

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Clay there



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

Received:

03/01/2011

Sampling Date:

02/28/2011

Reported:

03/01/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 158 FLOWLINE

Sampling Condition:

Cool & Intact

Project Number:

AFE #24753

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NEW MEXICO

Sample ID: S EXC SEC 1 E WALL 4' (H100401-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/02/2011	ND	416	104	400	3.77	
PH 8015M mg/kg			Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/02/2011	ND	212	106	200	2.38	
DRO >C10-C28	<10.0	10.0	03/02/2011	ND	213	107	200	1.53	
EXT DRO >C28-C35	<10.0	10.0	03/02/2011	ND					
Surrogate: 1-Chlorooctane	114	% 70-130)						
Surrogate: 1-Chlorooctadecane	111	% 70-130)						

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Celeg D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celeg D. Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	ompany Name: Basiw Empiromental Servne Technologies LLC			ANALYSIS REQUEST			
Project Manage	r: Ben J Arguijo		P.O. #:				
Address:	10. Box 301		Company: BOPCD, L1	ρ			
City:	Louington State: NM 5) 396 2378 Fax #: (575.	Zip: 8B260	Attn: Tony Savoi	ie			
Phone #: (57	5) 396 2378 Fax #: (575)	396-1429	Address: 522 W W				
Project #: A	E # 2475 3 Project Owne	r: Bopco, LP	city: Carlsbad				
Project Name:	Poker Lake Unit 158 Flows	ine	State: NM Zip: 88	3220			
Project Location	n: EDDY.NM.		Phone #(432) 556-8	-8730			
Sampler Name:	Jody Walters		Fax #:				
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLI	ING DU DU DU DU DU DU DU DU DU DU DU DU DU			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OWIFES # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	ACID/BASE: ICE / COOL OTHER:	TIME 0 10 10 10 10 10 10 10 10 10 10 10 10 1			
	North Exauction Eastwell 5'	611		10:00Art X X			
2	Horth Excavition South Wall 5' South Execution SocI Floor 5'	$G \cap X$		10:10An X X			
3	South Execution Secl Floor 5			10:20 Am XX			
<u> </u>	South Excavablen Sec 1 North wall 5			10,30AM X X			
5	South Excavation Sec I South Wall 5' South Excavation Sec I StockPile C"			10:46 Am			
	South Exercation Sec I Stockfile C			10:50AL X			
L	South Excavation Scal Edstund 4'	GIX	2 2-28-71	11:00 AM X X			
	AND THE RESERVE OF THE PROPERTY OF THE PROPERT						
analyses. All claims includi service. In go event shall C	PLEASE NOTE: Linbility and Damages. Cardinar's liability and client's exclusive remody for any claim orising whether based in contract or lort, 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 unless made in writing and reserved by Cardinal within 30 days after completion of the applicable service. In go efent shall Cardinal be liable for incidental or consequental damages, including without inhibitation, business interrusions, loss of profits mourtand by client, its substitution, its substitution and to or related to the performance of exercises hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated in casons or otherwise.						
Relinquished B	y: Date: Date:	Received By:	enson.	Phone Result: Yes No Add'l Phone #: Fax Result: Yes No Add'l Fax #: REMARKS: Please email results to pm@basinenu.com TAsavoi e @ BassPet.com			
, v	Time:			- Hsavoie & Dautet.com			
Delivered By	: (Circle One)	Sample Cond	ition CHECKED BY:	-			
Sampler - UPS	- Bus - Other:	50 Dyes Dy	es (nitials)				



March 08, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE UNIT 158 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 03/02/11 15:34.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To:

(575) 396-1429

Received:

03/02/2011

Sampling Date:

03/02/2011

Reported:

03/08/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 158 FLOWLINE

Sampling Condition:

Cool & Intact

Project Number:

AFE #24753

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NEW MEXICO

Sample ID: S EXC SEC 2 N WALL 5' (H100420-01)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/04/2011	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/04/2011	ND	192	96.0	200	1.89	
DRO >C10-C28	<10.0	10.0	03/04/2011	ND	189	94.5	200	4.31	
EXT DRO >C28-C35	<10.0	10.0	03/04/2011	ND					
Surrogate: 1-Chlorooctane	105 9	% 70-130	1						
Surrogate: 1-Chlorooctadecane	99.8	% 70-130)						

Sample ID: S EXC SEC 2 S WALL 5' (H100420-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/04/2011	ND	432	108	400	3.77		
TPH 8015M	mg,	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/04/2011	ND	192	96.0	200	1.89		
DRO >C10-C28	<10.0	10.0	03/04/2011	ND	189	94.5	200	4.31		
EXT DRO >C28-C35	<10.0	10.0	03/04/2011	ND						
Surrogate: 1-Chlorooctane	108	% 70-130								
Surrogate: 1-Chlorooctadecane	106	% 70-130)							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Fax To:

Received: Reported: 03/02/2011

03/08/2011

POKER LAKE UNIT 158 FLOWLINE

Project Location:

Project Name:

Project Number: AFE #24753

EDDY COUNTY, NEW MEXICO

Sampling Date:

Sampling Type:

03/02/2011

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S EXC SEC 2 FLOOR 5' (H100420-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/04/2011	ND	432	108	400	3.77	
TPH 8015M mg/kg		/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/04/2011	ND	192	96.0	200	1.89	
DRO >C10-C28	304	10.0	03/04/2011	ND	189	94.5	200	4.31	
EXT DRO >C28-C35	50.7	10.0	03/04/2011	ND					
Surrogate: 1-Chlorooctane	112	% 70-130)						
Surrogate: 1-Chlorooctadecane	107	% 70-130)						

Sample ID: S EXC SEC STOCKPILE D (H100420-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/04/2011	ND	432	108	400	3.77	
H 8015M mg/kg		/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/04/2011	ND	192	96.0	200	1.89	
DRO >C10-C28	367	10.0	03/04/2011	ND	189	94.5	200	4.31	
EXT DRO >C28-C35	68.6	10.0	03/04/2011	ND					
Surrogate: 1-Chlorooctane	112	% 70-130)						
Surrogate: 1-Chlorooctadecane	107	% 70-130)						

*=Accredited Analyte Cardinal Laboratories

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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Celeg & Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(5/5) 393-2326 FAA (5/5) 393-24/6			ANALYSIS REQUEST							
Company Name: Basin Environ moutal Services Techo	ologies LLC	BILL TO P.O. #:				ANALT	313 KE	ZUESI	TT	
Project Manager: Ben J. Aguijo	The second secon							.		
Address: P.D. BOX 30/		Company: BOPCO,								
City: Louington State: The M Zi	ip:88260	Attn: Tony Savoit								
Phone #: (575) 396 2378 Fax #:(575) 39	6.1429	Address: 522 W. M.								
Project #: AFE 24753 Project Owner: [city: Car Island	.,,,,,					.			
Project #: AFE 24753 Project Owner: I Project Name: Poker Lake Unit 158 Flow	State: NM Zip: 🛭 🕃	220								
Project Location: FDDY NM	Phone #(432) 556-8	7730						!		
Sampler Name: Jody Walkers	į	Fax #:	1						1 1	
FOR LAB USE ONLY	MATRIX	PRESERV SAMPLI	NG							
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Lab I.D. Sample I.D.	D WAT	SI IZ		ه اط		1 1				1
A A B	## CONTAINERS ## CONTAINERS GROUNDWATER SOIL OIL SLUDGE	ACID/84 OTHER		Born Chlorides			l			
HIDDIZO 1 South Excavation Sec ? Northwalls' &	# COIL SOIL OIL SLUD	ACID/BASE: ICE / COOL OTHER:	TIME		<u> </u>					
	- X X	X 3-2-11	10:00A	7 1/2						
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LI South Executing Sec Stockpile D C		fra -	10:20An	X X						
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PLEASE NOTE: Liability and Damages. Cardinat's liability and client's exclusive remedy for any cl	ain stising whether based in contract	or fort, shall be invited to the amount as	d by the client to: I	he		<u> </u>			<u> </u>	
malyses. All claims including those for nephpence and any other cause whatsourer shall be riem service. In opporent shall Cardinal be liable for incidental or consequental damages, including with	ned waived unless made in writing and	freceived by Cardinal within 30 days atte	r completion of the	applicable						
utilitates or Avecessors arising out of at related to the performance of services hereunder by Cardin	nal, regardless of whether such claim i		asons or otherwise							
Relinquished By: Date 2/11 R	Received By:		Phone Res Fax Result	: OY		Add'l Pho Add'l Far				
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Time:				$-\Lambda_{\alpha}^{\bullet}$	voie Q [2 01	40.4			
Delivered By: (Circle One)	Sample Conditi	on! CHECKED BY:	,	risa	voie & l)assTet	CUM			
	Cool / Intact/	(Initials)								
Sampler - UPS - Bus - Other:	Yes Yes									



March 09, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE UNIT 158 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 03/04/11 16:20.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydorcarbons

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To:

(575) 396-1429

Received:

03/04/2011

Sampling Date:

03/04/2011

Reported:

03/09/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 158 FLOWLINE

Sampling Condition:

Cool & Intact

Project Number:

AFE #24753

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NEW MEXICO

Sample ID: S EXC SEC 3 STOCKPILE (H100436-01)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/07/2011	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	22.0	10.0	03/08/2011	ND	195	97.4	200	0.218	
DRO >C10-C28	320	10.0	03/08/2011	ND	196	98.2	200	2.31	
EXT DRO >C28-C35	54.1	10.0	03/08/2011	ND					
Surrogate: 1-Chlorooctane	113 %	70-130							
Surrogate: 1-Chlorooctadecane	90.69	% 70-130							

Sample ID: S EXC SEC 3 WEST WALL 5' (H100436-02)

Chloride, SM4500CI-B	mg/	/kg	Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/07/2011	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: CK				***		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/08/2011	ND	195	97.4	200	0.218	
DRO >C10-C28	<10.0	10.0	03/08/2011	ND	196	98.2	200	2.31	
EXT DRO >C28-C35	<10.0	10.0	03/08/2011	ND					
Surrogate: 1-Chlorooctane	106	% 70-130							
Surrogate: 1-Chlorooctadecane	102	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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

Celey & Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keens



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Basin Environmental Service Technologies, LLC			ologies, LLC	BILL TO				1	ANALYSIS REQUEST										
Project Manage	r: Ben J. Arguijo			P.O. #:															
Address: P.O.				Company: BOPCO, LP							İ								
City: Lovingto	on State: NM	Zip:	83260	Attn: Tony Savoie									1			ļ			
Phone #: (575)396-2378				Addres	ss: 522	w. Mern	od												
Project #: #FE# 24753 Project Owner: BOPCO, LP				City: C	arlsb	ad				ŀ									
Project Name: Paker Lake unit 158 Flowline				State:	MM	Z ip; 88220)				İ	1					Į.	ľ	
Project Location: EDDY, Nm.					#: (432	2)556-87	3.0				l								
Sampler Name: Josy Walters													j					ļ	
FOR LAB USE ONLY			MATRIX	PRE	SERV.	SAMPLI	NG			ł							1		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE:	ICE / COOL OTHER:	DATE	TIME	MSIOG	Chlorides										
HIECHEOILH	South Excuration Sec3 StockPile	6-1	y			34-11	10:00Am	У	Ϋ́										
2	South Execution Sec 3 Westwall 5'	6 1			X	3-4-11	10.20Am	Χ	Y										
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	nd Darnages. Cardinal's hability and client's exclusive remedy for a ng those for negligence and any other cause whatspever shall be o								ite	·	4					لسبينا		L	

service. In no every shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidianes.

	of services hereunder by C	ardinal, regardless of whether such claim is cased upon any of the above stated r	reasons of otherwise.
Relinguished By:A	9271111	Received By:	Phone Result: Yes No Add'l Phone #:
	13/4/11	$1 A_{\rm P}$ $A \in LL$	Fax Result: ☐ Yes ☐ No Add'l Fax #:
60 will	Time: 20	Wal Denson.	REMARKS:
Reling/lighted By:	Date:	Beceived By:	
, , ,			
	Time:		
			Please email results to pm@basinenv.com
Delivered By: (Circle One)		Sample Condition CHECKED BY:	& TAsavoie@BassPet.com
Sampler - UPS - Bus - Other:		20 Gyes Gyes (Initials)	