Basin Environmental Service Technologies, LLC

3100 Plains Highway
P. O. Box 301
Lovington, New Mexico 88260
bjarguijo@basinenv.com
Office: (575) 396-2378 Fax: (575) 396-1429



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 PECEIVED

FEB 14 2013

NMOCD ARTES!A

Prepared By:

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

June 2011

Ben-J. Arguijo

Project Manager

TABLE OF CONTENTS

| INTRODUCTION AND BACKGROUND INFORMATION | 1 |
|---|--|
| NMOCD SITE CLASSIFICATION | 1 |
| SUMMARY OF SOIL REMEDIATION ACTIVITIES | 2 |
| QA/QC PROCEDURES | 4 |
| 4.1 Soil Sampling | 4 |
| 4.2 Decontamination of Equipment | 4 |
| 4.3 Laboratory Protocol | 5 |
| SITE CLOSURE REQUEST | 5 |
| LIMITATIONS | 5 |
| DISTRIBUTION | 6 |
| | NMOCD SITE CLASSIFICATION. SUMMARY OF SOIL REMEDIATION ACTIVITIES. QA/QC PROCEDURES. 4.1 Soil Sampling. 4.2 Decontamination of Equipment. 4.3 Laboratory Protocol. SITE CLOSURE REQUEST. LIMITATIONS. |

FIGURES

Figure 1 – Site Location Map

Figure 2 – Site & Sample Location Map

TABLES

Table 1 – Concentrations of TPH & Chlorides in Soil

Table 2 – Field-Test Results

APPENDICES

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

Appendix B – Photographs

Appendix C – Laboratory Analytical Reports

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

Bureau of Land Management

602 E. Greene Street Carlsbad, NM 88220

Copy 3: Tony Savoie

BOPCO, LP

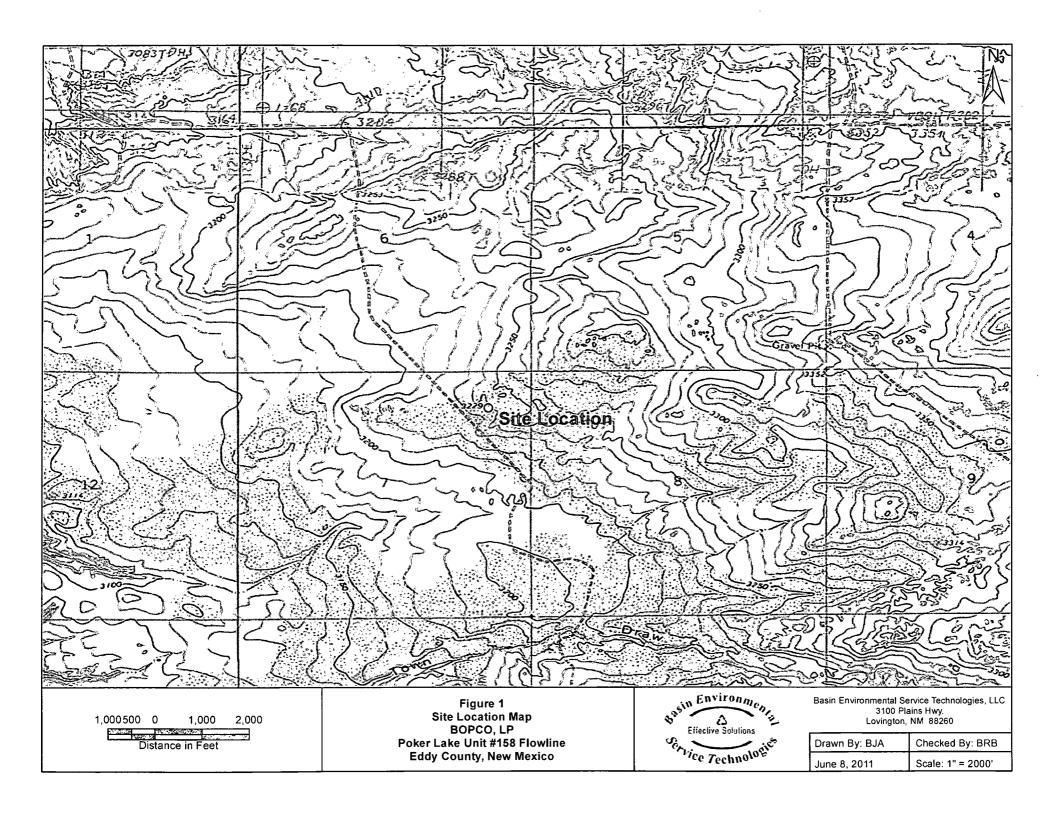
522 W. Mermod, Suite 704 Carlsbad, NM 88220

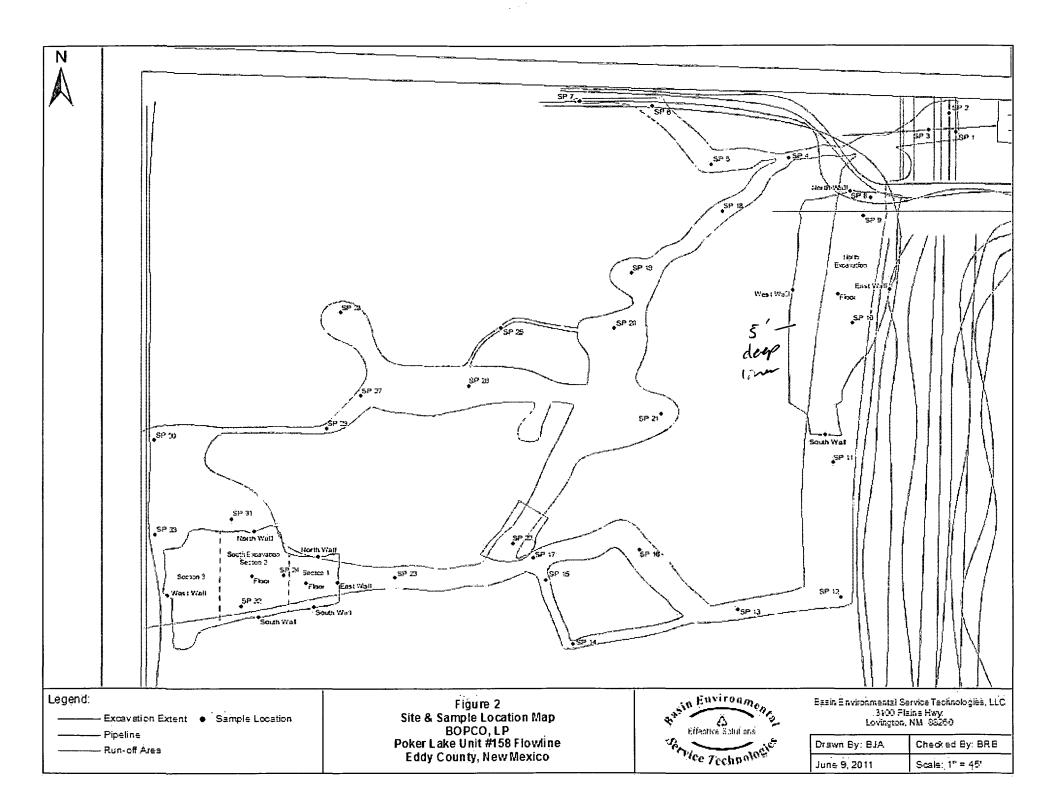
Copy 4: Basin Environmental Service Technologies, LLC

P.O. Box 301

Lovington, NM 88260

Figures





Tables

TABLE 1 CONCENTRATIONS OF TPH & CHLORIDES IN SOIL

| | 044451.5 | | | ME | THOD: 801 | 5M | TOTAL | 4500 CI-B |
|--------------------|----------|----------|---------|---------------------------------|----------------------------------|----------------------------------|---------------------------------|-----------|
| 0.4451.51.0047.011 | SAMPLE | SAMPLE | SOIL | GRO | DRO | ORO | TPH | OLU ODIDE |
| SAMPLE LOCATION | DEPTH | DATE | STATUS | C ₆ -C ₁₂ | C ₁₂ -C ₂₈ | C ₂₈ -C ₃₅ | C ₆ -C ₃₅ | CHLORIDE |
| | (BGS) | | | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) |
| Sample 1 @ Surface | Surface | 07/14/10 | In-Situ | - | - | - | - | 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

| | 0411015 | _ | | ME. | THOD: 801 | 5M | 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) |
| Stockpile 'A' | N/A | 2/25/2011 | In-situ | <10 | 151 | 27.0 | 178 | 512 |
| N Exc Floor | 5' | 2/25/2011 | In-situ | <10 | 14.0 | <10 | 14.0 | 2,320 |
| N Exc N Wall | 5' | 2/25/2011 | In-situ | <10 | <10 | <10 | <10 | 304 |
| N Exc W Wall | 5' | 2/25/2011 | In-situ | <10 | <10 | <10 | <10 | 240 |
| | | | | | | | | |
| N Exc E Wall | 5' | 2/28/2011 | In-situ | <10 | <10 | <10 | <10 | 240 |
| N Exc S Wall | 5' | 2/28/2011 | In-situ | <10 | <10 | <10 | <10 | 192 |
| S Exc Sec 1 Stockpile 'C' | N/A | 2/28/2011 | In-situ | <10 | 128 | 20.1 | 148.1 | 288 |
| S Exc Sec 1 Floor | 5' | 2/28/2011 | In-situ | <10 | <10 | <10 | <10 | 160 |
| S Exc Sec 1 N Wall | 5' | 2/28/2011 | In-situ | <10 | <10 | <10 | <10 | 48.0 |
| S Exc Sec 1 S Wall | 5' | 2/28/2011 | In-situ | <10 | <10 | <10 | <10 | 32.0 |
| S Exc Sec 1 E Wall | 4' | 2/28/2011 | In-situ | <10 | <10 | <10 | <10 | 32.0 |
| | | | | | | | | |
| S Exc Sec Stockpile D | N/A | 3/2/2011 | In-situ | <10 | 367 | 68.6 | 435.6 | 96.0 |
| S Exc Sec 2 Floor | 5' | 3/2/2011 | In-situ | <10 | 304 | 50.7 | 354.7 | 272 |
| S Exc Sec 2 N Wall | 5' | 3/2/2011 | In-situ | <10 | <10 | <10 | <10 | 16.0 |
| S Exc Sec 2 S Wall | 5' | 3/2/2011 | In-situ | <10 | <10 | <10 | <10 | 32.0 |
| | | | | | | | | |
| S Exc Sec 3 Stockpile | N/A | 3/4/2011 | In-situ | 22.0 | 320 | 54.1 | 396.1 | 112 |
| S Exc Sec 3 West Wall | 5' | 3/4/2011 | In-situ | <10 | <10 | <10 | <10 | 80.0 |
| | | | | | | | | |

| 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 DEPTH | | , | |
|---------------------------|-----------------|-------------|----------|---------|
| SAMPLE LOCATION | (Below | SAMPLE DATE | CHLORIDE | PID |
| | Ground | | (mg/Kg) | (mg/Kg) |
| | Surface) | | | |
| 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 | - |
| 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 | - |
| 0 | 44 | 0/47/00/14 | 050 | |
| Sample #2 (Road Crossing) | 4' | 2/17/2011 | 256 | - |
| Sample #9 | 6' | 2/17/2011 | 4,444 | |
| | | <u> </u> | | |

| 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)

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 Road District IV 1220 S. St. Francis Dr., Santa Fc. NM 87505

State of New Mexico Energy Minerals and Natural Resources ECEIVED

Oil Conservation Division Santa Fe, NM 87505

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 NMOCD ARTESIA

1220 South St. Francis Dr.

| 30-015-3 | 31690 | | Rele | ase Notifica | and Co | rrective A | ction | ************************************** | | - | | | |
|---|---|---|--|---|--|---|---|--|---|--------------------------------|-----------------------------------|---------------------------------|--|
| Knw 10 | 0357 | 47001 | | | | OPERATOR | | | | | | | |
| Name of Co | mpany BC | PCO, L.P. | | 260737 | | Contact Tony Savoie | | | | | | | |
| | | | | ad, N. <u>M</u> . 88220 | | Telephone No. 432-556-8730 | | | | | | | |
| Facility Nar | ne Poker L | ake Unit 15 | 3 Tank B | attery | F | Facility Type E&P | | | | | | | |
| Surface Ow | ner Federa | 1 | | Mineral O | wner F | ederal | | | Lease N | lo. | | | |
| | | | | LOCA | TION | OF REI | LEASE | | | | | | |
| Unit Letter A | Section 7 | 1 ' 1 1 | | | | South Line | Feet from the | East/W | Vest Line | County Eddy | | | |
| | Latitude N 32.237274 Longitude W 103.914835 | | | | | | | | | | | | |
| | | | | NAT | URE | OF RELI | EASE | | | | | | |
| Type of Rele | ase: Produc | ed water and o | crude oil | | | | Release: 5 Bbls ovater and 10 Bbls | | Volume F | Recovered: no | me | | |
| | | | nder the f | acility entrance roa | ad | Unkown | lour of Occurrenc | ee | Date and 5/8/10 10 | Hour of Disc :43 a.m. | overy | | |
| Was Immedia | ate Notice (| | Yes [| No Not Re | quired | If YES, To Randy with | Whom? the NMOCD | | | | | | |
| By Whom? T | | | | | | Date and Hour 5/8/10 12:24 p.m. | | | | | | | |
| Was a Water | course Read | | Yes 🗵 |] No | | if YES, Vo | lume Impacting t | the Wate | ercourse. | | | | |
| | | em and Remee was placed on | | n Taken.* The flowed area. | w line de | elivering prod | duced fluid from | the well | to the tank | battery deve | loped a | leak; the | |
| caliche entra | nce road. Thoved with sl | he oil saturated hovels and a b | I soil in thackhoe ar | ken.*The released ne pasture measure nd stockpiled on the I crude oil spill wil | d approx | ximately 125 ad location | ft. long by 2 ft. v | vide, app | proximately | d approximat y 6 cubic yard | ely 800 Is of the | sq.ft. of saturated | |
| I hereby certifications a public health should their corthe environments. | ify that the i Il operators or the envi operations h nment. In a | information gi are required to ronment. The lave failed to a | ven above report an acceptand dequately CD accep | e is true and compled or file certain rece of a C-141 report investigate and reparate of a C-141 report ance of a C-141 received. | ete to the clease no rt by the emediate | e best of my otifications as NMOCD m contaminati | knowledge and und perform correctarked as "Final Room that pose a thr | inderstar ctive acti eport" d | nd that pursions for relocs not relound water | eases which rieve the opera | may end ator of li ter, hum | langer iability an health | |
| Signature: Printed Name | OIL CONSERVATION DIVISION Approved by District Supervisor: Signed By MI/4 Brance | | | | | | | | | | | | |
| Title: Waste | Mgmt.& Re | emediation Sp | ecialist | | | Approval Da | te: 3/3/11 | | Expiration | Date: | | | |
| Date: 5/13/10 | 0 | oic@BassPet.c | | Phone:432-556-8 | 2730 | Conditions of Remed | f Approval: diation per OC | | | Attached | | | |
| Attach Addi | Attach Additional Sheets If Necessary Attach Additional Sheets If Necessary Phone: 432-536-8/30 Guidelines. SUBMIT REMEDIATION PROPOSAL NOTLATER THAN: 2 RP-539 | | | | | | | | | | | | |

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.

Submit 2 Copies to appropriate

NMOCD ARTESIA

Submit 2 Copies to appropriate

District Office in accordance
with Rule 116 on back
side of form

| 1220 5. 50. 1141 | C13 D1., Cuin. | | , | Sa | nta F | e, NM 8/3 | 05 | | | | | |
|--|-------------------------------------|------------------------------|-------------------|---|---------------------|--|---------------------------------------|----------|--------------------|---------------|-----------------------|---------------|
| | | | Rele | ease Notific | atio | n and Co | rrective A | ctior | 1 | | | |
| | • | | | | | | | | | | | Final Report |
| Name of Co | ompany BC | PCO, L.P. | | | Contact Tony Savoie | | | | | | | |
| | | od, Suite 70 | | Telephone No. 432-556-8730 | | | | | | | | |
| Facility Name Poker Lake Unit 158 Tank Battery | | | | | | Facility Type E&P | | | | | | |
| Surface Ow | Surface Owner Federal Mineral Owner | | | | | | | | Lease N | ٧o. | | |
| | | TIO | N OF RE | EASE | | | | | | | | |
| Unit Letter | Section | Township | Range | Feet from the | | /South Line | Feet from the | East/\ | West Line | County | | |
| A | 7 | 248 | 30E | | | | | | | Eddy | | |
| | <u></u> | | 1 | | 2224 | T | 3. 33/ 102 0149 | 225 | | ! | | |
| | | | š. | atitude_N 32.2 | | | | 333 | | | | |
| (= 25.1 | | | | NAT | URE | OF REL | | | | S | | |
| Type of Kele | ase: Produc | ed water and | crude oii | | | 1 | Release: 10 Bbls vater and 10 Bbls | | Volume i | Recovered: r | ione | |
| | | | | | | Crude oil | vater and to Both | | | | | |
| Source of Re | elease; a 2 3/ | 8" flow line t | ınder the f | acility entrance ro | ad | Date and I Unkown | lour of Occurrence | e | Date and 7/5/10 8: | Hour of Dis | covery | |
| Was Immedi | ate Notice C | | | | | If YES, To | | | | | | |
| | | | Yes L | No Not Re | quired | | ge on NMOCD e | | cy number. | | | |
| By Whom? | | | | | | Date and Hour 7/5/10 10:30 a.m. If YES, Volume Impacting the Watercourse. | | | | | | |
| Was a Water | course Reac | | Yes 🛚 | l No | | If YES, Vo | lume Impacting I | the Wat | ercourse. | | | |
| 10 11/4 | | | | | | <u> </u> | | | | | | |
| If a Waterco | urse was im | pacted, Descr | ine ruity. | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Describe Car | ico of Deali | and Dame | dial Astis | Tolon * The flo | lina (| I. Grania a pag | turned Christ farmer | 45 aa11 | to the toul | Latter day | -1 | - 1 - 1 - 4 - |
| | | em and Keme vas placed on | | n Taken.* The flo | w nne c | ienvering pro | aucea muia mom | ine wen | to the tank | oanery nev | еюреа | a leak; the |
| ichipotaty to | pan ciang, | rus praced on | the affect | cu arca. | | | | | | | | |
| | | | | cn.*The released | | | | | | | | |
| caliche entra | nce road. Th | ie affected are | ea in the pa | asture measured a apparent historical | pproxin | nately 300 ft. | long by 2 ft. wide | . This s | pill traveled | d along the s | ame pa | thway as a |
| total vertical | | | ica to an a | ipparent instericat | spin at | ca. The area v | vas mappeu oui a | nu sam | nes were co | meeted on a | / i 4 / 10 | to determine |
| The Site rem | ediation for | the produced | water and | crude oil spill wi | ll follov | w the NMOCI | guidelines for le | eaks and | l spills. | | | |
| | | | | is true and compl | | | | | | | | |
| | | | | nd/or file certain re se of a C-141 repo | | | | | | | | |
| | | | | investigate and re | | | | | | | | |
| or the enviro | nment, In a | ddition, NMC | CD accep | tance of a C-141 | report d | loes not reliev | e the operator of | respons | ibility for c | ompliance v | vith any | other |
| | | vs and/or regi | | | | | • | · | | · | | |
| | | | | | | | OIL CON | SERV | ATION | DIVISIO | N | |
| Signature: | P P | | | | | | | | | | | |
| Signature. | <u> </u> | Approved by | District Supervis | or: | | | | | | | | |
| Printed Name: Tony Savoic | | | | | | | | | | | | |
| Title: Waste | Mgmt.& Re | mediation Sp | ecialist | | | Approval Dat | e: | | Expiration | Date: | | |
| | | | | | | | | | | | | |
| E-mail Addre | ess: TASavo | ie@BassPet. | com | · | | Conditions of | Approval: | | | Attached | | |
| Date: 7/14/10 Phone: 432-556-8730 | | | | | | | | | | | | |

^{*} Attach Additional Sheets If Necessary

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

State of New Mexico Energy Minerals and Natural Resources

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

Revised October 10, 2003

Form C-141

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

NMOCD ARTESIA

Release Notification and Corrective Action

| | | | | (| OPEF | RATOR | | Initial I | Report | X Final Report | | |
|--|--|--|---|--|--|---|--|-----------------------------------|---|--|--|--|
| Name of Co | mpany | BOPCO, LI |) | | | Contact To | ny Savoie | | | | | |
| Address 5 | 22 W. Me | rmod, Suite | 704, Carls | sbad, NM 8822 | 0 | Telephone N | No. (432)556-8 | 730 | | | | |
| Facility Nar | ne Poke | r Lake Unit # | 158 Tanl | Battery | | Facility Typ | e E&P | | | | | |
| Surface Ow | ner Fede | ral | | Mineral O | wner | Federal | | | Lease N | lo. | | |
| | | | | | TIOI | N OF REI | LEASE | | | | | |
| Unit Letter A | Section 7 | Township 24S | Range 30E | Feet from the | From the North/South Line Feet from the East | | | | | County Eddy | | |
| Latitude 32.237274° North Longitude 103. 914835° West | | | | | | | | | | | | |
| | | | | NAT | URE | OF REL | EASE | | | | | |
| Type of Rele | ase Produc | ed water and o | crude oil | | | II | Release 5 bbls ovater and 10 bbls | | Volume F | Recovered | None | |
| | | | under the | facility entrance | road | Date and H Unknown | lour of Occurrence | e | | Hour of Di 10:43 AM | | |
| Was Immedia | ate Notice (| | es No | Not Required | | If YES, To Randy with | Whom? the NMOCD | | | | | |
| By Whom? | Tony Savo | ie | | | | Date and F | lour 5/8/10, 12:2 | 4 PM | | | | |
| Was a Water | course Read | | Yes X | No | | If YES, Volume Impacting the Watercourse. | | | | | | |
| If a Watercou | ırse was Im | pacted, Descri | be Fully.* | | | 1 | | | | | | |
| | | lem and Reme was placed on | | | ow line | delivering p | roduced fluid fro | m the w | vell to the t | ank battery | developed a leak. A | |
| caliche entra release was r | nce road. T emediated | he oil-saturat as per NMOC | ed soil in D approva | the pasture measi | ured appose a the a | proximately ittached Reme | 125 ft. long by 2 | ft. wid | e. Followin | ng initial re | ximately 800 sq.ft. of sponse activities, the Request for details of | |
| I hereby cert regulations a public health should their of or the environ | ify that the all operators or the envioperations Information. In | information g are required ironment. The nave failed to addition, NM | given above to report and e acceptant adequately OCD accept | e is true and com and/or file certain ace of a C-141 reports investigate and in | nplete to release port by remedia | o the best of e notification the NMOCD ate contamina | s and perform co marked as "Fina- tion that pose a the | orrective al Repoi hreat to | actions for rt" does not ground war | r releases, t relieve the ter, surface | o NMOCD rules and which may endanger e operator of liability water, human health liance with any other | |
| federal, state. | , or local la | ws and/or regu | lations. | | | | OH CON | arnı | Z A TOTAL | DIVIOI | ONT | |
| Signature: | | | | | | | OIL CON | | AHON | DIVISI | <u>ON</u> | |
| | Printed Name: Ben J. Agnijo (Syntoff) Approved by District Supervisor: | | | | | | | | | | | |
| Title: Wasses | 60). Carrier | Project 1 | JANAGE, | BASIN ENVIRON | n overta | / Approval Dá | e: | | Expiration | Date: | | |
| - 1. | , | oie@BassPet.o | | <u>ognip Ebasner</u> | hviceal iii | Conditions of | f Approval: | | | | | |
| Date: 3/19 | 7/13 | Pho | ne: (432)5 | | | | | | | 1 | | |
| 1 | | | (Db)5 | 749-9597 | | | | ٢ | DE | JE-17 11 | - P | |
| • | | | | | | | |] | re(| CEIV | ヒロー | |
| ţ | | | | | | | | | | 3 1 4 20 | ı | |

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 ith_Rule, 116 on back

side of form

Release Notification and Corrective Action

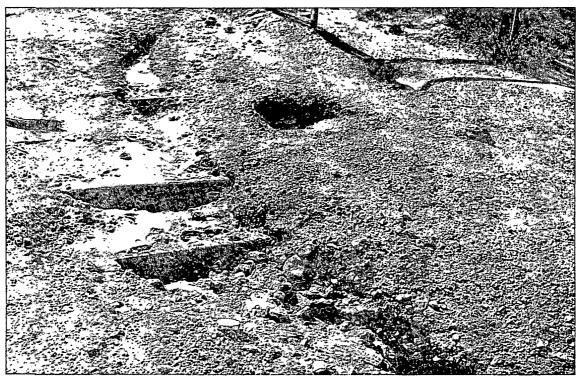
FEB 1 4 2013

NMOCROAPTES! Anal Report **OPERATOR** Name of Company BOPCO, LP Contact Tony Savoie Address 522 W. Mermod, Suite 704, Carlsbad, NM 88220 Telephone No. (432)556-8730 Facility Name Poker Lake Unit #158 Tank Battery Facility Type E&P Mineral Owner Federal Surface Owner Federal Lease No. LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County Α 248 30E Eddy Latitude 32.237274° North Longitude 103. 914835° West NATURE OF RELEASE Type of Release Produced water and crude oil Volume of Release 10 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 Unknown 7/5/2010, 8:00 AM Was Immediate Notice Given? If YES, To Whom? X Yes No Not Required Left message on NMOCD emergency number By Whom? Tony Savoie Date and Hour 7/5/10, 10:30 AM Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. Yes X 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. A temporary repair clamp was placed on the affected area. Describe Area Affected and Cleanup Action Taken.* The released fluid affected approximately 600 sq. ft of pasture land and approximately 200 sq.ft. of caliche entrance road. The affected area in the pasture measured approximately 300 ft. long by 2 ft. wide. This spill traveled along the same pathway as a spill reported on 5/8/10 and also connected to an apparent historical spill area. The area was mapped out, and samples were collected on 7/14/10 to determine total vertical and horizontal extent. Following initial response activities, the release was remediated as per NMOCD approval. Please reference the attached Remediation Summary & Risk-Based Site Closure Request for details of remediation activities and laboratory analytical results from confirmation soil samples. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases, which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state; or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Approved by District Supervisor: Printed Name Bosn Environmental Approval Date: Expiration Date: biargrijo basinenvicon Conditions of Approval: E-mail Address: TASavoie@BassPet.com

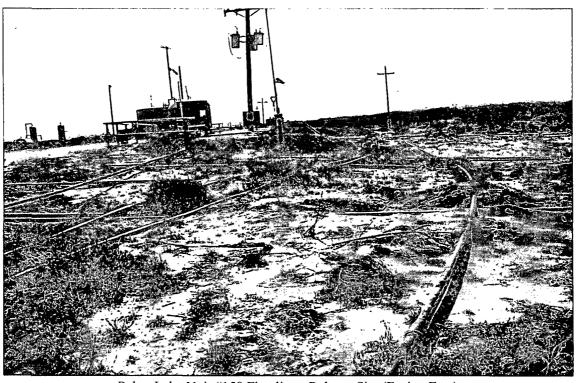
(806) 549-9597

Phone: (432)556-8730

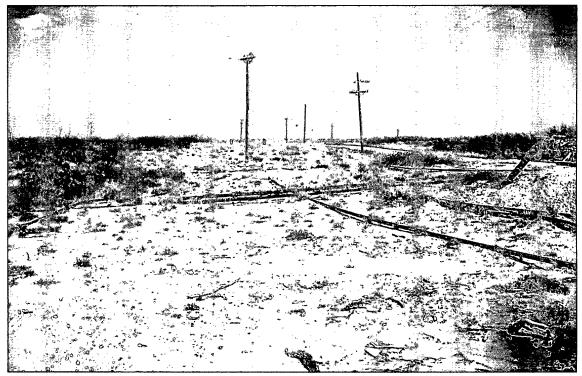
Appendix B Photographs



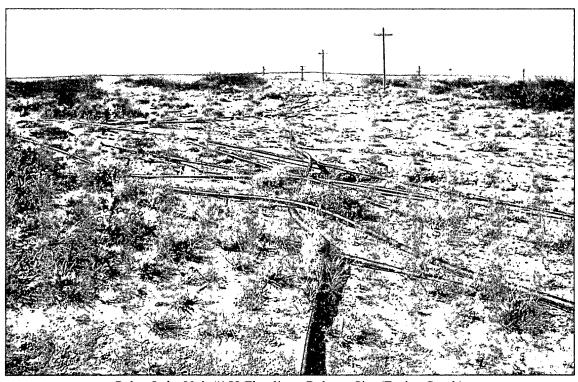
Poker Lake Unit #158 Flowline - Release Point



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



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



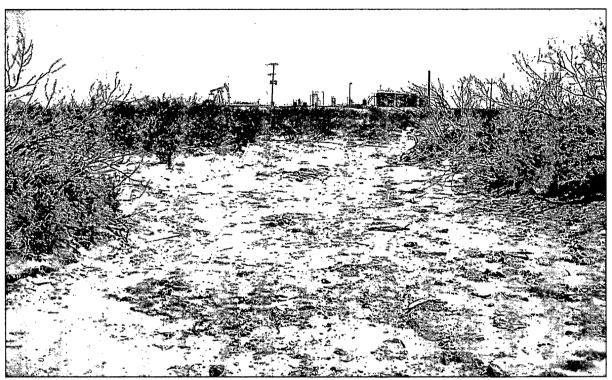
Poker Lake Unit #158 Flowline - Release Site (Facing South)



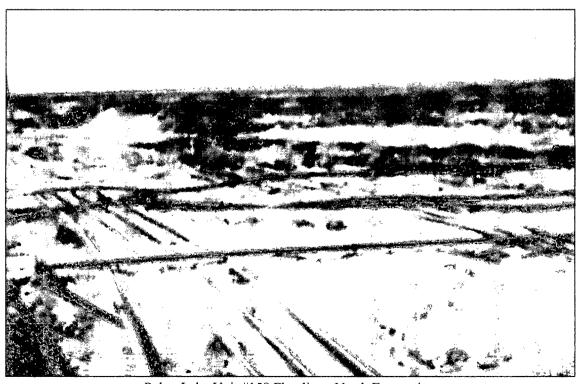
Poker Lake Unit #158 Flowline - Release Site (Run-Off Area)



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



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



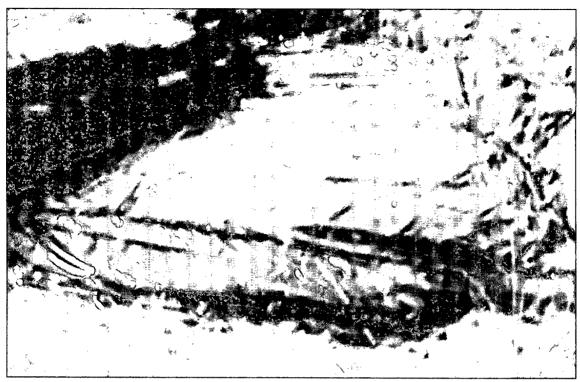
Poker Lake Unit #158 Flowline - North Excavation



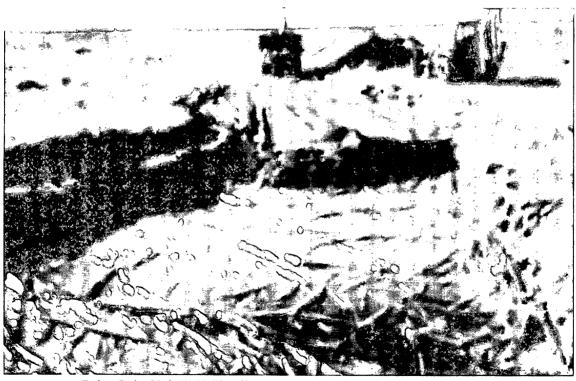
Poker Lake Unit #158 Flowline - North Excavation



Poker Lake Unit #158 Flowline - North Excavation



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



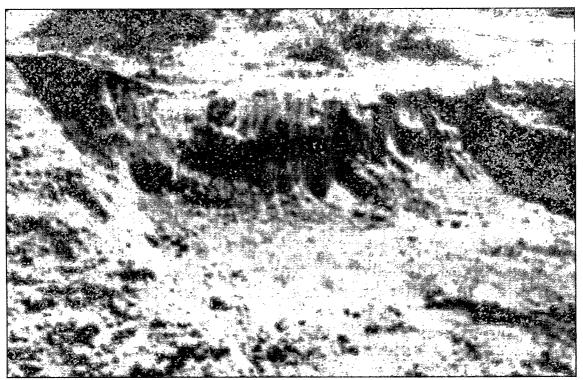
Poker Lake Unit #158 Flowline - North Excavation (During Backfilling)



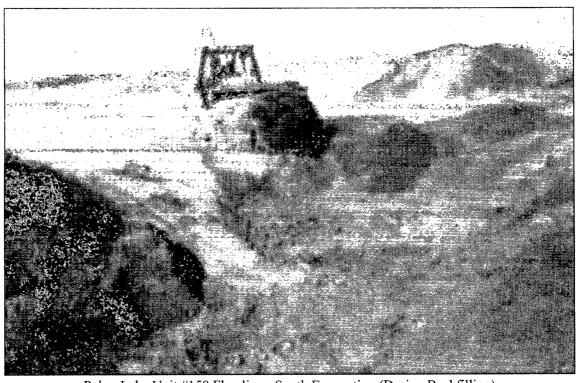
Poker Lake Unit #158 Flowline - North Excavation (Following Backfilling)



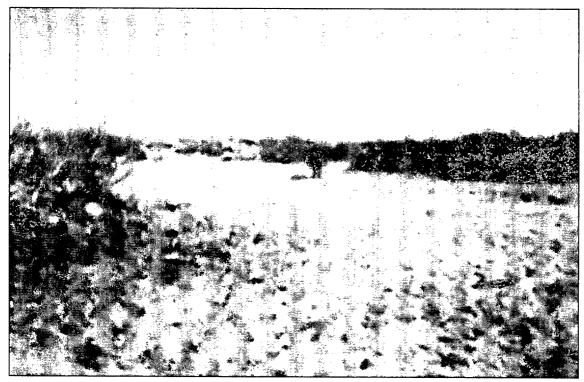
Poker Lake Unit #158 Flowline - South Excavation



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

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

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

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

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 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

True Value QC

Relative Percent Difference

% Recovery

Analysis Date: 07/23/10

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

Sample Type: SOIL

CI

510

500

102

< 0.1

Sample Condition: COOL & INTACT @ 2.5°C

Sample Received By: JH Analyzed By: HM/CK

LAB NUMBER SAMPLE ID (mg/kg) H20383-1 SAMPLE 1 @ SURFACE 48 H20383-2 SAMPLE 1 @ 1' 80 H20383-3 SAMPLE 2 @ 6" 80 SAMPLE 2 @ 4' H20383-4 912 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 SAMPLE 8 @ 8' H20383-12 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**

METHOD: Standard Methods 4500-CIB

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

07/28/10



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

| | | CI ⁻ |
|-----------------|----------------|-----------------|
| 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 | | 500 |
| % Recovery | | 102 |
| Relative Percer | t Difference | < 0.1 |

METHOD: Standard Methods 4500-CIB

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

Reporting Date: 07/28/10

Project Owner: BOPCO

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

| GRO | DRO | DRO ext. |
|----------------|--------------------------------------|--------------------------------------|
| (C_6-C_{10}) | (>C ₁₀ -C ₂₈) | (>C ₂₈ -C ₃₅) |

| / /II \ | | |
|----------|---|---|
| (mg/kg) | (mg/kg) | (mg/kg) |
| 07/24/10 | 07/24/10 | 07/24/10 |
| 1,650 | 4,280 | 18.2 |
| <10.0 | 85.1 | 27.3 |
| 1,660 | 7,500 | 67.0 |
| 69.6 | 491 | <10.0 |
| 25.6 | 282 | <10.0 |
| <10.0 | <10.0 | <10.0 |
| <50.0 | 4,270 | <50.0 |
| | | |
| 438 | 429 | - |
| 500 | 500 | - |
| 87.6 | 85.8 | - |
| 1.1 | 1.1 | - |
| | 07/24/10 1,650 <10.0 1,660 69.6 25.6 <10.0 <50.0 438 500 87.6 | 07/24/10 07/24/10 1,650 4,280 <10.0 85.1 1,660 7,500 69.6 491 25.6 282 <10.0 <10.0 <50.0 4,270 438 429 500 500 87.6 85.8 |

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

Lab Director

Date

H20383 TPHEXT BASIN

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

SOFT CEU STS-707-3476 ARDINAL LABORATORIES 101 East Marland, Hobbe AMA (505) 393-2326 FAX (505) 393-2476

| Company Name | Basin Environmental | 100 | いかん | sl f | 1146 | | ****** | T | | /8 | 300 | l TO | | | in Xvent ar | ******** | | *************************************** | ANA | LYSI | S RI | EQUE | ST | | | north rider |
|------------------|--|------------------|--------------|-------------|------------|-------------|--------|----------|------------|------------|-------|--------------|---------|------|------------------------|----------|---------------|---|--------------|--------|----------|-------------|----|----------------------------------|------|-------------|
| Project Manage | "Camille Bryant | | | | |) | | P. | O. # | ; | 74770 | | | T | 1 | * | | | Ī | T | 1 | | T | | | |
| Address: P.O. | BOX 381 | | | | | | | Co | mp | any: | BC | PCO L | P | | | | | | | | | | | | | |
| City: Louina | four State: Juin | Zi | p: <i>{</i> | 98. | 260 |) | | At | ln: | Tou | رپ | Sava | ie | | | | | | | | | | | | | |
| Phone #: 5 25 | -005-7210 Fax#: | | | | | | | | dre | | T | | | | | | | | | | | | | | | |
| Project #: | Project Own | ier: | | | | | | Cit | y: | | | | | | 1 | | | | | | | | 1 | | | |
| Project Name: | PLU 158 Flowline | | | | | | | St | ate: | | Ž | Zip: | | | | ı. | | | | | | | | | | |
| Project Location | n: Eddy Co/ NUM | | | | | | | Ph | one | #: | | | | | | Ext. | | | | | | | | | | |
| Sampler Name: | 5. Low14 | | | | | | | Fa | x #: | | | | | | 4500 | 1 | 30 | | | | | | | | | |
| FOR LAB USE ONLY | | T | Τ | T | N | ATF | ŭΧ | | PR | SER | V/ | SAMPL | ING | | 2 | ٤ | | | | 1 | | | 1 | | | |
| | | ď§ | | ~ | | Ì | | | | | | | | i i | 0 | 8015 | 203 | | | | | | | | | |
| | | 용 | RS | | E ! | | | | | | | | | | -3 | 00 | \mathscr{Z} | | - | | | | | | | |
| Lab I.D. | Sample I.D. | JR. | I S | Š | YAT | | | | SE | ٦ ! | ı | | | | [5] | ا بدر. | × | | | • | | | | | . | |
| | • | 48 (| E | 13 | 15 | | 18 | K | BA | 8 8 | ۲. | | | - [| 3 | I | 0 | | 1 | | | | | | | |
| | | (G)RAB OR (C)OMP | # CONTAINERS | GROUNDWATER | WASTEWATER | <u>ظ</u> اچ | SLUDGE | E | ACID/BASE: | ICE / COOL | Ĩ | DATE | TIME | | Chilericle | TPH | 20 | } | 1 | 1 | | | | | | |
| H20383-1 | Sample 10 sarface Sample 101' Sample 200" Sample 204' Sample 208' | 6 | -4 | 19 | - | Ä | 100 | ľ | - | 1 | | 7/14/10 | - | 7 | χ | - | | - | | 1- | † | | + | † | | |
| 2 | Samole I P 1' | 1 | T. | 1 | TT | i | - | | | 1 | , | 7/14/10 | 8:10 | | | | | | | 1 | 1 | 1 | | | | |
| 3 | 544.018 2 8 6 " | 11 | 11 | | | Π | i | | | | | 1/14/10 | | 1 | 11 | X | | | 1 | 1 | 1 | 1 | 1 | | | |
| 4 | Sample 204' | Π | 11 | T | | T | 1 | | | | Ţ | 7/15/10 | 8:00 | 1 | 11 | -/- | | | <u> </u> | 1 | 1 | | 1 | | | |
| 5 | Sample 208' | | | T | | Π | i | | | | , | 1/18/10 | 9:05 | | | X | | | | 1 | | | | | | |
| 6 | Sample 3 P.L' | Π | | Г | | \prod | | T | | | - | 7/14/10 | 8:30 | | | | **** | | | 1 | 1 | | | | | |
| 7 | San ale 401' | Π | П | | | П | | | | | | 7/14/10 | | | | 1 | | | | | | | | | | |
| 8 | Samole 501' | П | | | | | | | | | | 7/14/10 | | | | | | | | | | | T | | | |
| 9 | Sample 501' Sample 601' | \prod | | | | | | | | | | 1/14/10 | | | | | | | | | | | | | | |
| | Jump to Colo | U | <u> </u> | L | | \coprod | ĺ | <u> </u> | | 1 | 1 | 7/14/10 | 9:00 | | W | X | | | | | | | | | | , |
| | id Daninges. Cardinar's lability and clam'rs exclusive remody in a those for regligence and any other cause valuiscover shall | | | | | | | | | | | | | | | c | | | | | | | | | | |
| | ensing be table for incidental or consequental damages, incluing out of or related to the performance of services becaused | | | | | | | | | | | | | | 5. | | | | | | | | | | | |
| Relinquished By | /: Date: | | | | Ву: | ricción. | **** | | | | | | Phone | Rest | | ll Yes | | No | | Phone | | | | | ~~~~ | |
| 500710 | 7/10 Time: 2:45 | 1 | | | | | | | | | | | Fax Res | | | □ Yes | <u> </u> | No | Addi | Fax #: | ******** | | | form of the second second second | | |
| Relinquished By | 1. 977/10 | 7 R | qcei | ved | Ву: | 1. | 1 | | | | | | 1 | | | | | | | | | | | | | |
| | Toais | | 0 | d | L a | 1 | lu | W | 10 | N | ر | | | | | | | | | | | | | | | |
| Delivered By: | (Circle One) | - 0 | | | | | ondit | | Ī | CHEC | KĘ | D/BY: | 1 | | | | | | | | | | | | | |
| Sampler - UPS | - Bus - Other: | 2: | 59 | 5 () | Cool 四十 | es [| g ve | S | 1 | (IF | W. | / | | | | | | | | | | | | | | |

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

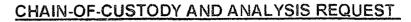


CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| Company Name | Basin Environmental | Ousulting | BILL TO | | | | | ANA | LYSIS | REQ | UEST | | |
|-------------------------------|--|---|---|--|--------------|-----------------|----------------|-----|---------------------|-----|------|-------|--|
| Project Manage | Camille Bryant |) | P.O. #: | | | | | | | | | | |
| Address: P.O. | BOX 381 | | Company: BDPCO L | P | | | | | | | l | | |
| city: Louing | Lou State: JUM | Zip: 88260 | Attn: Tony Savoi | e | | | | | | | | | |
| Phone #: 5 25 | - 1005 · 7210 Fax #: | | Address: | | | | | | | - 1 | | | |
| Project #: | . Project Owne | : | City: | | | | | | | | | | |
| Project Name: | PLU 158 Florling | | State: Zip: | | | انه | | | | | | | |
| Project Location | 1: | | Phone #: | | 0 | EXT | | | | | | | |
| Sampler Name: | | | Fax #: | | 1500 | ار | 30 | | | - | | | |
| FOR LAB USE ONLY | | MATRIX | PRESERV SAMPLI | NG | 77 | € | \overline{a} | | | 1 | | | |
| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL | OTHER: ACID/BASE: ICE/COOL OTHER: | | Chlevicle | TPH BOIS | TEX BOZI | | | - | | | |
| Upper II | | | | | | | ΔΩ | _ | <u> </u> | | | ļ | |
| H20363-11 | | 6 | | 11:00 | } | <u>X</u> | | | ┼┼ | | | | |
| البحدة | Sanple B @ 8' | | | 4:10 | ╂┼ | X | | | ++ | | | | |
| ובן. עו | Sanple 9 @ 1' | ╂ ┪╫╂┼┼┼┼┼ | 7/14/10 | 8:10 | ++ | | | | ++ | | | | |
| 15 | Sample 905' | ▍ | 7/15/10 | ~~···································· | 11 | | | _ | $\dagger = \dagger$ | | | 1 | |
| | Sample 12@1' | | المالة المالة | | 17 | $\neg \uparrow$ | | | | | | 1 | |
| 17 | Sample 18@1' | | 7/14/10 | | 11 | X | | | | | | | |
| 18 | Sample 18@3' | | 7/10/10 | | | | | | | | | | |
| 19 | Sample 18@3' Sample 2206" | | 7/14/10 | | | | | | | | | | |
| 20 | Sample 12041 Damages Cardina's babaty and client's exclusive remedy for a | | 7/16/10 | 10:10 | V | | | | <u> </u> | | | | |
| andyses. All dams includin | o Damages, Caronal s racelly one elem a excusive remedy for a g those for negligence and any other cause whatsoever shall be- irdinal be Bable for incluental or consequental damages, including | na gniffrw ni ebam ezelnu bavisw bemeat | d received by Cardinal within 30 days after | r completion of the ap | pplicable | 1 | | | | | | | |
| atSlates or successors crisir | g out of arrelated to the performance of services hereunder by C | ardinal, regardless of whether such claim | is based upon any of the above stated ma | cons or otherwise. | | | marka ka | | <u> </u> | | | | |
| Relinquished By | Ĺ | Received By: | | Phone Result Fax Result: | | Yes Yes | | | Phone # Fax #: | | | | |
| | Time: | | | REMARKS: | | | | | | | | | |
| Relinquished By | 7 77 1 1 10 | Received By: | | | | | | | | | | | |
| 50er 100 | ny The Th | and the | nson | | | | ė | | | | | | |
| Delivered By: | (Circle One) | Sample Condi | ion CHECKED BY: | | | | | | | | | | |
| Sampler - UPS | - Bus - Other: | 2.5°C HYes HYE | s (intrass | | | | | | | | | | |
| | | | | | | - | | | | | | | |

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





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

| Company Name | Basin Fruironmental | Musultina | BILL TO | ANALYSIS REQUEST |
|--|---|--|---|---|
| Project Manage | ": Camille Bryant | | P.O. #: | |
| Address: P.O. | BOX 381 | | Company: BOFCO LP | |
| | | Zip: 88260 | Attn: Tony Savoice | |
| Phone #: 525 | | | Address: | |
| Project #: | Project Owne | r: | City: | |
| Project Name: | PLU 158 Flowling | | State: Zip: | |
| Project Location | , | | Phone #: | 6 ¢ x t. |
| Sampler Name: | | | Fax #: | 1 280 A 4 500 A |
| FOR LABUSE ONLY | | MATRIX . | PRESERV SAMPLING | |
| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL | OTHER: ACID/BASE: ICE / COOL OTHER: ALTE | Chloride 4 TPH BOIS N BTEX BO21 |
| H20383-21 | Sample 22 @8' | 611 | 1 7/16/10 10:2 | 20 K |
| 12 | Sample 22@8' Sample 24@6" Sample 24@4' | | 7/15/10 9:00 | 0 |
| 23 | Sample 2404' | | 7/16/10 0:30 | |
| 24 | Bample 2408' | | 7/10/10 10:40 | |
| 25 | Sample 25@1' | ╂╀╂╁╂╌┼╌┼┼┼┼ | 7/15/10 9:10 | |
| 260 | Sample 2701' | ╂┧╣┧╂┈┤┈╢┈┼┈┼┈ | 7/15/10 9:20 | |
| 70 | Sample 30@1' | ╂┼╂┼╂╌╎╌╢╌┼╌ | 7/15/10 9:40 | |
| 79 | Sauple 3201! Sauple 33011 | ╉┧╢┼╂╌┼╌┼╌ | 7/15/10 0:50 | |
| | /200p(e 33 g)(· | | V 7/15/10 9:55 | ² |
| analyses. All claims include service, in no event shall C | nd Dambiges. Cardinal's sability and client's exclusive remedy for a ng those for negligenos and any other cause whatspever shall be ardinal be liable for incidental or consequental damages, including ng out of or related to the performance of services becaused by C | deemed waived unless made in writing an g without limitation, business interruptions, | d received by Cardinal within 30 days after completi loss of use, or loss of profits incurred by client, its s | etion of the applicable s audidicates, retherwise. |
| Relinquished B | | Received By: | Phon Fax R | ne Result: U Yes U No Add'l Phone #: Result: U Yes U No Add'l Fax #: IJARKS: |
| | (1/1/1/1/10) | Received By: Sample Condition Cool Intact A . 5 C H Yes H Yes No N | | |

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2976

#26



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.

Celey & 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

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/l | 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/l | v g | Analyze | d By: AB | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 03/01/2011 | ND | 198 | 98.8 | 200 | 3.49 | |
| DRO >C10-C28 | 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 % | 6 70-130 |) | | | | | | |
| Surrogate: 1-Chlorooctadecane | 101 % | 6 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 9 | % 70-130 | 1 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 104 | % 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 whiting 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.

Celeg D. Keena



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

Fax To:

Received:

02/25/2011

Sampling Date:

02/25/2011

Reported:

Sampling Type:

Soil

Project Name:

03/01/2011 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, SM4500CI-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 9 | % 70-130 |) | | | | | | -,- |
| Surrogate: 1-Chlorooctadecane | 99.6 | % 70-130 |) | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and chenk'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 walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its 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.

alex Steens



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

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 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 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 Laboratores.

Celey & Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| | (3/3) 333-2326 FAA (3/3) 333-24 | | | | | | | | | |
|--|--|--|--|-------------------|------------------------|--|--|---------|--|--|
| Company Name | · Basin Environmental Service | Technologies LLC | BILL TO | | | | ANALYSI | S REQUE | ST | |
| Project Manager | Ben J Arguijo | | P.O. #: | | | | | | | |
| Address: P. | 5.30x 301 | | Company: BOPCO, C | Р | | | | | | |
| City: Lo | State://m 396-2378 Fax #:(575) # 24753 Project Owner | Zip: 88260 | Attn: Tony Savor | <i>o</i> | | | | | | |
| Phone #: (575 |) 396-2378 Fax#:(575. | 396-1429 | Address: 5 22 w. 711 | ermod | | | | | | |
| Project #: AFE | # 24 753 Project Owner | r: BOPCO, LP | City: Carlsbad | | | | | | | |
| Project Name: f | oker Lake Unit 158 Flowli | | State: Am Zip: 88 | 220 | | | | | | |
| Project Location | EDDY, MM. | | Phone #(432) 556-8 | 730 | | 1 1 | 1 1 | | | |
| Sampler Name: | Jody Walters | | Fax #: | | | | | | | |
| FOR LAB USE ONLY | | MATRIX | PRESERV. SAMPLI | NG | | |]] | | | |
| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL | OTHER: ACIDIBASE: ICE / COOL OTHER: | TIME | Bois m | | | | | |
| H1003981 | Stock Pile A | GII Y | X 2.25-11 | 8:00AM | 1/ | | | | | |
| 2 | North Executation Floor 5'365 | G 1 X Y | X 2.25-11 X 7-25-11 | 8:10AM | 11 | | 1 | | | |
| 3 | North Execution Floor 5:365 North Execution West well 5'365 | GIX | X 2.25-11 | | XY | | | | | |
| 4 | North Excuse from Northwall 5'80 | 6 1 X | X 2-25-11 | 8:30An | XX | | | | | |
| | | | | | | | | | | |
| | | | | | | ļ. <u> </u> | L | ļ | | |
| | | - | | | | | | · | ļ | |
| | | | | | | | | | | |
| *************************************** | | | | | | <u> </u> | | | | |
| analyses. All claims, includir service. In no eyent shall Ca | d Damayes. Cardinal's lishifity and client's exclusive remody for 19 those for negligence and any other cause whatscever shall be ardinal be liable (or incidental or consequental damages, includin | deemed waived unless made in wilting a g without limitation, business interruptions | nd received by Cardinal within 30 days after , loss of use, or loss of profits incurred by o | completion of the | he applicable ries, | ll | <u> </u> | | <u>.l</u> | |
| atiliates or suc éedsors Arisir Relinq uis he∉ By | nd out of or related to the performance of services hereunder by | Cardinal, regardless of whether such clain Received By: | is based upon any of the above stated rea | Phone Re | | es 🗆 No | Add'l Phone | #: | | |
| 1/1/11 | Tipre: 14 | 1 A | ludon | Fax Resul | | es 🗆 No | Add'l Fax #: | | | |
| Relinquished By | | Received By: | | C i | . / |) | | | | |
| 11 | Time: | | | UV | wil | to Be | n T | trus | | |
| Delivered By: | (Circle One) | Sample Condi | tion CHECKED BY: | | | | | | | |
| Sampler - UPS | - Bus - Other: | 5.5° Cool Intact | (Initials) | | | | | | | |
| | | | - Carante and Cara | | | Marine of the last | A CONTRACTOR AND A STREET, SAN OF ST | | THE RESERVE OF THE PARTY OF THE | |



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 & 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:

03/01/2011

Sampling Date:

02/28/2011

Reported:

03/03/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 158 FLOWLINE

70-130

Sampling Condition:

Cool & Intact

Project Number:

AFE #24753

114%

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 |) | | | | | | |

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

Surrogate: 1-Chlorooctadecane

| Chloride, SM4500CI-B | mg/kg | | Analyzed 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 | 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 9 | % 70-130 |) | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and thent'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 Reported: 03/03/2011

Project Name: POKER LAKE UNIT 158 FLOWLINE

Project Number: AFE #24753

Project Location: EDDY COUNTY, NEW MEXICO Sampling Date:

Sample Received By:

02/28/2011 Soil Sampling Type:

Sampling Condition:

Cool & Intact

Jodi Henson

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

| Chloride, SM4500Cl-B | mg | mg/kg Analyzed By: H | | 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 Analyzed By: AB | | 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 | 1 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 111 | % 70-130 | • | | | | | | |

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

| Chloride, SM4500CI-B | mg/kg | | Analyzed 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 | 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 | • | | | | | | |

*=Accredited Analyte Cardinal Laboratories

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 ently other cause whatsoever shall be deemed weived 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.

Celeg & Keene



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

Fax To:

o: (575) 396-1429

Sampling Date:

02/28/2011

Received: Reported: 03/01/2011 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 | mg/kg | | Analyzed 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 | | 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, SM4500CI-B | mg/kg | | Analyzed 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 | /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 | % 70-130 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 105 | % 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 incidential 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.

Celeg & 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 E WALL 4' (H100401-07)

| Chloride, SM4500Cl-B | mg/kg | | Analyzed 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% | 6 70-130 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 111 % | 6 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 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 proof shall not be reproduced except in full with written approval of Cardinal Laboratories.

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 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 wribing 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 D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| (5/5) 393-2326 FAX (5/5) 393-24/6 | | |
|---|--|----------------------------|
| Company Name: Basiw Empiromental Service Technologies LIC | BILL TO | ANALYSIS REQUEST |
| Project Wanager: Ben J Arg wjo | P.O. #; | |
| Address: 10. Box 301 | Company: BDPCD, LP | |
| City: Lowington State: NM Zip: 88260 | Attn: Tony Savoil | |
| Phone #: (575) 396 2378 Fax #: (575) 396 - 1429 | Address: 522 W Mer mod | |
| Project #: AFE # 2475 3 Project Owner: BOPCO, LP | City: Carlsbad | |
| Project Name: Poker Lake Unit 158 Flowline | State: NM Zip: 88 270 | |
| Project Location: EDDY, MM. | Phone #(432) 556-8730 | |
| Sampler Name: Jody Walters | Fax #: | |
| FOR LAB USE ONLY MATRIX | PRESERV. SAMPLING | |
| | OTHER: OTHER: ACID/BASE: ICE / COOL OTHER: ALMO TAME ALMO TAME ALMO TAME TAME | Chlowd |
| HIDDYDL-1 North Execution Eastwell 5' 6 1 1 | X 7.28-11 10:00Ax | |
| Z Mosth Excavation South Wall S' G 1 5 | X Z-Z8-11 10:10An X Z-Z8-11 10:20An | |
| 2 Noith Excavition South Wall 5' G 1 X 3 South Execution Sec 2 Floor 5' G 1 X | X 2-28-11 10:20 Am | |
| 4 South Excavation Sec 2 Northwall S' G 1 X | Y 2-28-11 10:30 At | |
| 5 South Execution Sec I South Wall 5' G 1 X 6 South Execution Sec I Stockfile C' G 1 X | 1 600 11 10.1011- | |
| 6 South Exercation Sec 1 Stockfile C" & 1 X | X 2-28-11 10:50AM | |
| 7 South Excavation Sect Edstand 4' G 1 X | X 2-28-11 11:00 AM | |
| | | |
| | | |
| PLEASE NOTE: Liability and Damages. Cardinal's liability and effents exclusive remody for any claim arising whether based in contambises. All plants including those for negligence and any other cause whatsoever shall be deemed watved unless made in writing | and received by Cardinal within 30 days after completion of t | ne applicable |
| service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business internation affiliates of subgressors arising out of or instated to the performance of services hereunder by Cardinal, regardless of whether such cla | im is based upon any of the above stated reasons or otherwi- | se, |
| Relinquished By: Bot Date Received By: Bot Date Received By: Relinquished By: Time: | Phone Re Fax Resul REMARKS | t: 🗆 Yes 🗀 No Add'l Fax #: |
| Delivered By: (Circle One) Sample Conc Cool Intac | lition CHECKED BY: | |



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. 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, SM4500CI-B | mg/kg | | Analyzed By: HM | | | | | | . <u>.</u> |
|-------------------------------|--------|-----------------------|-----------------|--------------|-----|------------|---------------|------|------------|
| 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, | mg/kg Analyzed By: CK | | 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 | 1 | | | | | | |

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

| Chloride, SM4500CI-B | mg/kg | | 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, | /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

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, without limitation, subclienses interruptions, loss of profits incidentally and claims, including which in 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 Cardinal be liable for incidental or consequential damages, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal Laboratories.

Celeg & Keine



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 FLOOR 5' (H100420-03)

| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: HM | | | | | <u>.</u> | |
|-------------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|----------|-----------|
| 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 | | 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 % | 6 70-130 |) | | | | | | |

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

| Chloride, SM4500CI-B | mg/kg | | Analyzed 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/l | 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 | 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 % | 6 70-130 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 107 % | 6 70-130 | | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

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 D. Keene



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

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

Celey D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| Company Name: Busin Environmental Services Techologies LLC | BILL TO | ANALYSIS REQUEST |
|--|--|--|
| Project Manager: Ben J. Agaio | P.O. #: | |
| Address: TD, BOX 30/ | company: BOPCO, LP | |
| City: Louington State: 71.77 Zip: 88260 Phone #: (575) 396.2378 Fax #(575) 396.1429 | Attn: Tony Saudie | |
| Phone #:(575) 396.2378 Fax #(575) 396.1429 | Address: 522 W. Mermod | |
| Project #: AFE 24753 Project Owner: ISOPCO, LP | city: Car Isbad | |
| Project Name: Poker Lake Unit 158 Flowline | State: NM Zip: 8 8220 | |
| Project Location: FDD Y NM | Phone #: 432) 556-8730 | |
| Sampler Name: Jody Walters | Fax #: | |
| FOR LAB USE ONLY MATRIX | PRESERV SAMPLING | |
| O O O O O O O O O O O O O O O O O O O | | |
| Lab I.D. Sample I.D. HIDDI-10-1 South Executation Sec 7 Northwells (0) 1010 | ا د. نن | Chlorides |
| | B B B B B B B B B B B B B B B B B B B | Bors m. |
| HIDDASOL Some Exempton Sec 2 Viethment 2 (3) # 6) Rab ON 1 Soll | ACID/BASE: OTHER: THERE: OTHER: ACID/BASE: ACID/B | [@ 5 |
| | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | |
| 2 South Excavation See 2 South wall 5' G 1 X 3 South Excavation See 2 Floor 5' G 1 X | 3.2-11 10:10 A | · Ileand - Alan |
| LI South Executing u Sec Stock pile D & 1 X | V 3.2/1 10120An | |
| LI South Executary Sec Stock pile D & 1 X | 1 3.2-11 10:30 Am | of majors and server frameworkers and some framework and some some some some some some some some |
| | | |
| | | |
| | | |
| | | |
| | | |
| PLEASE NOTE: Liability and Damages. Cardinal's kiability and client's exclusive remedy for any claim arising whether based in conti | act or fort, shall be limited to the amount paid by the client fo | United the state of the state o |
| aunityses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing service. In regievent shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruption | s, loss of use, or loss of profits incurred by client, its subsidi | iaries, |
| artiflaces or systems arising out of or related to the performence of services hereunder by Cardinal, regardless of whether such dail Relinquished By: Received By: | m is based upon any of the above stated reasons or otherw Phone Re | esult: 🗆 Yes 🗆 No Add'l Phone #: |
| Time by May | Fax Resu | |
| Refinguished By: Date: Received By: | $\mathcal{L}(\mathcal{L}(\mathcal{L}))$ | lease e mail Results to Pmebasivemu.com a |
| Time: | • | |
| | | TASavoie & Bass Pet.com |
| Delivered By: (Circle One) Sample Cond Cool Intact | / (Initials) | |
| Sampler - UPS - Bus - Other: | es (Initials) | |
| | | |



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)

| Chloride, SM4500Cl-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 | Analyze | d By: CK | | <u> </u> | | | |
| 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 9 | % 70-130 |) | | | | - | | |
| Surrogate: 1-Chlorooctadecane | 90.6 | % 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% | 6 70-130 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 102 % | 6 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 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 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 be 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. Keena



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 SM4500CI-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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 claim, it is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. It is report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keene



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 | BILL TO ANALYSIS REQUEST |
|---|---|
| Project Manager: Ben J. Arguijo | P.O. #: |
| Address: P.O. Box 301 | Company: EOPCO, LP |
| City: Lovington State: NM Zip: 88260 | Attn: Tony Savoie |
| Phone #: (575) 396-2378 Fax #: (575) 396-1429 | Address: 522 w. Mermod |
| Project #: #FE# 24753 Project Owner: BOPCO, LP | City: Carlsbad |
| Project Name: Poller Lake unit 158 Flowline | State: NM Zip: 88220 |
| Project Location: EDD Y, Nm. | Phone #: (432) 556-8730 |
| Sampler Name: Jody Walter S | Fax #: |
| FOR LAB USE ONLY MATRIX | PRESERV: SAMPLING |
| CG)RAB OR (C)OMP. **CONTAINERS** GROUNDWATER WASTEWATER SOIL OIL SLUDGE | ACIDIBASE: OTHER: OTHER: Chlorides Chlorides |
| HIEXHET South Excounting Seco State Pile 61 Y | |
| 2 South Execution Sec 3 Westwell 5' G 1 X | X 3-4-11 10:20AM X Y |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| PLEASE NOTE: Liability and Damages Cardinal's flability and client's exclusive remety for any claim arising whether based in contra analyses. All claims including those for nagingence and any other cause whatsoever shall be deemed varied unless made in writing a | ct or tort, shall be limited to the amount paid by the client for the |

service. In no event shall Cardinal be liable for incidental or consequental damages, including vilhout limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidianes, arbitrates or successors arising out of or related to the performance of services hareunder by Cardinal, regardless of whether such claim is passed upon any of the above stated reasons or otherwise.

| Relinquished By:\ | 294111 | Received By: | Phone Result: Yes No Add'l Phone #: |
|------------------------------|-----------|--------------------------------|---|
| o hit | Time: 100 | gode Henson. | Fax Result: ☐ Yes ☐ No Add'l Fax #: REMARKS: |
| Relinguished 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 Gool Intact (Initials) | |

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



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

Received:

02/25/2011

Sampling Date:

02/25/2011

Reported:

03/01/2011

Sampling Type:

Soil

Project Name:

Cool & Intact

POKER LAKE UNIT 158 FLOWLINE

Sampling Condition:

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 %

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 | 1 | | | | | | |
| 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 neolioence 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 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.

Celeg D. Keine



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

Fax To:

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, SM4500CI-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 | Analyzed By: AB | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 03/01/2011 | 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 | 99.6 | % 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 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. 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 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 D. Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| | (575) 393-2326 FAX (575) 393-247 | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--------------------------------|------------------------------------|-----------------------|--|--|-----------------------|---------------------------------------|------------------------|--|--|------------------------------|-------------|-------|----|--------------|--------------|------------|--------------|----|----------------------|--|-----|
| Company Name | Basin Environmental Service | Te | chn | روواه | ies L | رد | 1 (1) (1) (1) | | BI | LL TO | Company of the Compan | | | | | ANA | LYSIS | S RE | QUE | ST | NAME THE PROPERTY OF | - رباد صدعدم | |
| Project Manage | F. Bent Arguijo | | | | | | P. | O. #: | | | | | | | | | | | | | | | |
| Address: ? | 0.30x 301 | | | | | | Cc | ompan | y: <i>B</i> | opco, | LP | | | | | | | | | | | | İ |
| City: Lo | wing tow State: NM | Zip | : 9 | 38 | 260 | | At | tn: Te | ny | Savoi | <u>e</u> | | | | | | | | | | . | | 1 |
| Phone #: (575 | 7) 396 · 2379 Fax#:(575) 724753 Project Owne | 39 | 6-1 | 142 | 9 | · | Ac | ddress | <u>: 5 :</u> | 22 W.7 | Mermod | | | | | | | | | | .] | | |
| | | | 30 | Pcc | 2, LF | フ | Ci | ty: C | ar | Sbad | | | | | | | | | | | . | | |
| Project Name: | Poker Lake Unit 158 Flowli | he_ | paga makay kasaba | | | | | | | Zip: 88 | | | | | | | | | | | . | | . (|
| Project Locatio | n: EDDY, MM. | | | | | | Pi | none # | (43. | 2) 556- | 8730 | | | | | | | | | | | | |
| | Jody Walters | | | | | | Fa | ıx #: | | | المستوارية والمستوارية | | | | ļ | | İ | | | | . 1 | | . |
| FOR LAB USE ONLY | | ۰ | | l | MA | TRIX | ٦ | PRES | ERV. | SAMPL | ING | | | | | | | | ļ | | . [| | . |
| Lab I.D. | Sample I.D. | (G)RAB OR (C)OM | # CONTAINERS | GROUNDWATER | WASTEWATER | OIL | OTHER: | ACID/BASE: | OTHER: | DATE | TIME | Boism | Chlorides | | | | | | | | | | |
| H100398-1 | Stack Pile A | G | j | | χ | | | χ | | 2.25-11 | 8:00AM | K | 7 | | | | | | T | | | | |
| 2 | North Excavation Floor 5:36-5 | G | 1. | | Ý | <u> </u> | . L | Ϊ,χ | | | 8:10AM | 1 | 1 | | L | | | | | | | | |
| 3 | North Excavation Floor 5°365 North Excavation West wall 5'365 Morth Excavation Northwall 5'80 | 6 | 1 | l . | X | ļ | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | | 8:20AM | X. | <u>Y</u> . | | | . | | ļ | J | | | | |
| 4 | Morth Excuration Northwell 5'80 | 6 | 1 | | X | ļļ. | | X | - | 2-25-11 | 8:30Am | X | x | | | | ļ | ļ <u>-</u> | | | | | |
| | | | | | | | | li | | | | | | | i | } | ļ | | | | . 1 | | |
| | | | | -+ | -+- | | | - | + | | <u> </u> | | | | | | | | - | | | | |
| | 1, AAN 1 _ AAN 189, _ A AVERT (AAN 189, _ AAN A | <u> </u> | - | | + | | | | + | | | | | | | | t | | | | | America | |
| | | | | | | | - | † | +- | | <u> </u> | | | | | | ļ | | | 1 | | | |
| | | 1- | | | | | Ť | | | | | | | | | | | | 1 | | | | |
| analyses. All claims, include service. In no eyent shall C | nd Dameges. Cardinat's liability and client's exclusive rometry for ny those for negligence and any other cause whatsoever shall be ardinat be liable for incidental or consequented damages, including in out of or related to the performance of services hereunder by C | deemed g withou Cardinal | d waive It firnita I. ressar | ed unles ation, bu | ss made in Isiness int I whether : | n wiiting a lemuptions | and rece s, loss c | sived by Ca of use, or lo | ordinal w oss of pa | within 30 days aft rollts incutred by | er completion of the chent, its subsidia | he applicat ories. se. | de □ Yes | _ [*] | No | Add' | Phone | #* | | | | ف المالية الما | |
| Mar | Tiple: 14 | | 0 | | ". <u> </u> | N | U | ns | Oi | | Fax Resul | it: | ☐ Yes | | No | | Fax #: | <u>r.</u> | | | | , | |
| Relinquished B | y: Date: Time: | R | ceiv | ved I | 3у: | | | | | | en | رضر | <u> </u> | 10 | Вe | yr = | + 7 | oru | <u> </u> | | | | |
| Delivered By | : (Circle One) | -l | | | ample Cool | | | CH | | (ED BY: | | | | | | | | | | | | | } |
| Sampler - UPS | - Bus - Other: | L | 40 | آ حاً | Cool ☐ Yes | 5 BY | és | 1 | 74 | (前) | | | | | | | | | | | | | |



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 & 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:

03/01/2011

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 SM4500Cl- | • |
|--------------------|---|

| m | a | 1 | kı | ò |
|---|---|---|----|---|

Analyzed 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 |) | | | | | | |
| Surragata: I Chloracetadacana | 114 | 0/ 70 12/ | 1 | | | | | | |

Surrogate: 1-Chlorooctadecane

114 %

70-130

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

| Chloride, SM4500Cl-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 | % 70-130 | · | | | | | | |
| Surrogate: 1-Chlorooctadecane | 111 | % 70-130 | • | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's hability and client's exclusive remedy for any claim ansing, 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 successions arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims 6 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 Laboratomes.

Celeg 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 FLOOR 5' (H100401-03)

| 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 | 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 |) | | | | | | |

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

| Chloride, SM4500CI-B Analyte | mg/kg | | 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 | | | | | | | |

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 toor, shall be limeted to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed wived unless made in writing and received by Cardinal within thurty (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 proprishall 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:

Sampling Type:

Soil

Project Name:

03/03/2011 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 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 | 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 | % 70-130 | · - | | | | | | |
| Surrogate: 1-Chlorooctadecane | 110 | % 70-130 | | | | | | | |

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

| Chloride, SM4500CI-B Analyte | mg/kg | | Analyzed By: HM | | | | <u></u> | | |
|-------------------------------|--------|-----------------|-----------------|--------------|---------------|---------------|---------------|-----------|-----------|
| | 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 |) | | | | | | |

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 warved 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.

Celeg & Keene



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

Fax To:

(575) 396-1429

Received: Reported: 03/01/2011

03/03/2011

POKER LAKE UNIT 158 FLOWLINE

Project Name: Project Number:

AFE #24753

Project Location:

EDDY COUNTY, NEW MEXICO

Sampling Date:

Sampling Type:

02/28/2011

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

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

| Chloride, SM4500Cl-B | mg, | /kg | Analyzed 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 | | 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 | 114 | % 70-130 |) | | | | | | |
| Surrogate: 1-Chlorooctadecane | 111 | % 70-130 |) | | | | | | |

*=Accredited Analyte Cardinal Laboratories

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 waved 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.

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

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, 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 whatscever 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 to use, or loss of profits incurred by client, its subsidiaries, affiliaties 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. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| Company Name | Basiw Environmental Service T | Technologies LLC | BILL TO | And the process of th | ANALYSIS REQUES | ST. | |
|------------------------------|---|---|---|--|-----------------|--|--|
| Project Manage | r: Ben J Argwjo | | P.O. #: | | | | |
| Address: | PO. BOX 301 | | Company: BDPCb, L | ρ | | | |
| City: | Louington State: NM | Zip: 88260 | Attn: Tony Savo | | | | |
| Phone #: (57 | 5) 396 2378 Fax #: (575) | 396-1429 | Address: 522 W 7 | | | | |
| | E# 2475 3 Project Owner | | city: Carlsbad | | | | |
| Project Name: | Poker Lake Unit 158 Flows | ine | State: NM Zip: 88 | 220 | | | |
| | n: EDDY, MM. | - 11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1- | | Phone #(432) 556-8730 | | | |
| 1 | Jody Walters | | Fax #: | | | | |
| FOR LAB USE ONLY | | MATRIX | PRESERV. SAMPL | ING 2 | | | |
| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL | SLUDGE OTHER: ACIDIBASE: ICE / COOL OTHER: | 11ME BO157 | | | |
| H100401-1 | North Execution Eastwell 5' | 61 1 | | 10:00Ar X X | | | |
| 2 | Hosth Excavators Southwell 5' | G 1 K | X Z-28-11 | 10:10An XX | 991 TANANGO | | |
| 3 | North Excavation Southwalls' South Excavation Secl Floors' | GIX | | 10:20 Ax X | | and the state of t | |
| 14 | South Excavation Sec 1 North wall 5 | $G \mid X \mid$ | | 10:30 At X | | | |
| 5 | South Excavation Sec I South Wall 5' South Excavation Sec I Stockfile C' | a i X | | 10:40 Am X | | | |
| 6 | South Excavation Sec 1 Stockfile C | C I X | | 10:50AN X X | | | |
| | South Excavation Sec1 EASTURN 4" | G 1 | 2-28-11 | 11:00 AM X X | | | |
| | | | | | | | |
| | | | | | | | |
| | nd Damages. Cardinal's liability and client's exclusive remedy for a ng those for negligence and any other cause whatsoever shall be | | | | | | |
| service. In po event shall (| ng urese for hegigence and any other cause withinserver small be lardinal be liable for incidental or consequental damages, including ing out of or related to the performance of services hersunder by C | without limitation, business interruption | na, loss of use, or loss of profits incurred by | client, its subsidiaries, | | | |
| Relinguished B | | Received By: | 1 | Phone Result: Yes N | 1 | | |
| Relinquished B | | Jodi J | leuson. | REMARKS: | ail results to | @pm@basinenu.comd | |
| | Time: | Delived by. | | TAsavoi e @ Bassle | et.com | | |
| Delivered By | : (Circle One) | Sample Con | | E. C. | | | |
| Sampler - UPS | - Bus - Other: | Cool Intac | t (Initials) Yes No | | | | |
| 4 Camelia 1 | cannot accont verbal changes. Please | - 6 | - 505 202 0776 | | | | |



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, Tol Method SW-846 8260 Benzene, Tol

Benzene, Toluene, Ethyl Benzene, and Total Xylenes 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 | % 70-130 |) | | | | | _ | |
| Surrogate: 1-Chlorooctadecane | 99.8 | % 70-130 |) | | | | | | |

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

| Chloride, SM4500CI-B | 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 | 03/04/2011 | 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 | 1 | | | | | | |

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.

Celeg & Keene

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 FLOOR 5' (H100420-03)

| Chloride, SM4500CI-B | mg/ | kg | Analyzed 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 | | 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 | 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 9 | % 70-130 |) | | · | | - | | |
| Surrogate: 1-Chlorooctadecane | 107 9 | % 70-130 |) | | | | | | |

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

| • | • | | | | | | | | |
|-------------------------------|----------------------|-----------------|-----------------|-----------------|-----|------------|---------------|------|-----------|
| Chloride, SM4500Cl-B | de, SM4500Cl-B mg/kg | | Analyze | Analyzed 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 | 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 | 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 |) | | | | <u> </u> | | |
| Surrogate: 1-Chlorooctadecane | 107 | % 70-130 |) | | | | | | |
| Surrogate: 1-Chlorooctadecane | 107 | % 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 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 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 individual damages.

Celeg & Keene

Celey D. Keene, Lab Director/Quality Manager



ND

Notes and Definitions

Analyte NOT DETECTED at or above the reporting limit RPD Relative Percent Difference Samples not received at proper temperature of 6°C or below. Insufficient time to reach temperature. Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| Company Name | Company Name: Basin Environmental Services Technologies LLC | | | | | 12 | 81 | LL TO | ANALYSIS REQUEST | | | | | | | | | | | | | | | |
|--|--|------------------------------|---------|--------------|------------|---|------------|----------|------------------|----------------|--------------------------------------|---|-------------|-----------|-------|----|---------|-------|---------|----------|-------------|-------|---|-----|
| Project Manage | " Ben J. Are | عدا جورات الاور المراجعة | |).*** | 20 | _ | | P.C |), #; | | | the top as a decrease against | | - | | | | | | | | | | |
| Address: | PD. BOX SOI | м | | | | | | Co | mpar | ıy: โ | 30PCO, | IP | | | | | | | | | | | | - 1 |
| City: / | ouington 396.2378 | State: 71271 | Zip: | 882 | 260 | | | Att | n: 1 | DNV | Saudi | 6 | | | | Ì | | | | | | | | |
| Phone #:/575 | 396.2378 | Fax #:(575.) 3 | 96 | .14 | 29 | | - \ | | | | 22 W.M | | | | | | | | | | | | | |
| Project #: AF | 24753 | Project Owner | 13 | OPC | 0. | IP | | | | | , Isbad | | | | | | | | | | | | | . |
| | | | | | | | | Zip: Q @ | | | | | | | | | | | | | | | | |
| | | | | | | | 2)556- | | | | | | | | | | | | | | | | | |
| Sampler Name: | Jody Walters | | | | | | | | κ#: | | - | | | | | i | | | | | | i | j | |
| FOR LAB USE ONLY | <i>,</i> | | | T | | MATE | RIX | , | PRES | ERV | SAMPL | ING | | | | | | | | | | | | ı İ |
| 2 3 | Sample I.E South Excavation Sec 2 S South Excavation Sec 2 S South Excavation Sec 31 South Excavation Sec 31 | 2 Northwells! Southwall 5 | PPPPONE | # CONTAINERS | WASTEWATER | 1000 1000 | SLUDGE | OTHER | i | X X X CEV COOL | DATE 3-2-11 3-2-11 3-2-11 3-2-11 | TIME 10:00A, 30:10 Au 10:20An 10:30An | | Chlor.des | | | | | | | | | | |
| GLEASS HOTE, Linear | 16 | · | | | | | | 1 25 121 | , | 1 | (la the second of | sid by the client for | lbo. | L | | | <u></u> | | <u></u> | | | | | |
| analyses, All claims includi | id Damages. Cardinal's liability and client ng those for negligence and any otner cau ardinal be liable for incidental or consequi | ise whatsoever shall be o | eemed | waived | eriess m | ade in v | vriting an | d recei | ived by 0 | Serdinal | within 30 days at | er completion of U | he apptical | ble | | | | | | | | | | |
| | ng out of or related to the performance of | | lanicus | egardic | | ether su | | | | | | | e. | ☐ Ye | | No | Δctd*t | Phone | #: | - | | - | | |
| The state of the s | | 3/2/11 | 1 | | ß | , | d | | ۸ | | | Fax Resul | t: | ☐ Ye | | No | Add'1 | | | | | | | |
| 1 sofw | | 3:34 | 4 | 4 | <u></u> | U. | R | <u>u</u> | 00 | W | | | - | 2 4 | ·w• · | 10 | esnl t | a to | Dm! | Q has | ا معصو (۱۸) | CO.4- | ď | |
| Refinquished B | / : | Date: | Be | eive | d By: | 1 | | | | | | 1 | | | | | | | | <u> </u> | - Chelo | | - | |
| , , | | Time: | | | | | | | | | | _ | TA | Sal | oie | 03 | 3assF | et.co | m | | | | | 1 |
| Delivered By | : (Circle One) | | ••••• | | Coc | i∕lr | ondit | | C | HECI (Ini | KED BY: | | | | | | | | | | | | | ļ |
| Sampler - UPS | - Bus - Other: | | 4 | له ٥ | | Yes | Ye | s | | U, | tiple) | | | | | | | | | | | | | |



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 & 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 (575) 396-1429

Fax To:

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:

Project Location:

EDDY COUNTY, NEW MEXICO

Jodi Henson

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

| Chloride, SM4500CI-B | mg/ | kg | Analyzed 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 | M 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 | 90.6 | % 70-130 | | | | | | | |

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

| Chloride, SM4500CI-B | mg/ | 'kg | Analyze | d By: HM | | | | | |
|-------------------------------|--------|-----------------|------------|--------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 03/07/2011 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | mg/kg | | 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 9 | % 70-130 |) | | | | | | |
| Surrogate: 1-Chlorooctadecane | 102 5 | % 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, pusiness interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

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

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 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 subcidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims to 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



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 | BILL TO | ANALYSIS REQUEST |
|--|--|------------------|
| Project Manager: Ben J. Arguijo | P.O. #: | |
| Address: P.O. Box 301 | Company: BOPCO, LP | |
| City: Lovington State: NM Zip: 83260 | Attn: Tony Savoie | |
| Phone #: (575) 396-2378 Fax #: (575) 396-1429 | Address: 522 w. Mermod |] |
| Project#: #FE# 24753 Project Owner: BOPCO, LP | City: Carlsbad | |
| Project Name: Poler Lake unit 158 Flowline | State: NM Zip: 88220 | |
| Project Location: EDDY, Nm. | Phone #: (432) 556-8730 | |
| Sampler Name: Jody Walter 5 | Fax #: |] |
| FOR LAB USE ONLY MATRIX | PRESERV. SAMPLING |] |
| CG)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL | ACIDIGASE: ICE / COOL OTHER: ALPO ALICA SE TOTHER: ALICA SE TOTHER: T | Chlorides |
| HIERHEY! South Execuation See3 Stockfile 61 Y | X 3.4-11 10:00Am | |
| 2) South Execution Sec 3 Westwall 5' G 1 X | X: 3-4-11 10:204m | XX |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| PLEASE NOTE: Liability and Damages Cardinal's hability and client's exclusive remedy for any claim arising whether based in sonth analyses. All claims including those for negrigence and any other cause whatspever shall be deemed waived unless made in writing | | |

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,

| aramates of successors arising out of or related to the performance | ct services hereunder by Ca | ardinal, regardess of whether such dialin is based upon any or the 200ve state. | States 13455/15 OF Collegas E. |
|---|-----------------------------|---|---|
| Relinquished By:N | 1294111 | Received By: | Phone Result: |
| | 3/4/11 | Mr. A. Id | Fax Result: ☐ Yes ☐ No Add'l Fax #: |
| 60 July | Time: 20 | Wal sunson. | REMARKS: |
| Relingdistred By: | Date: | Beceived By: | |
| / ~ | | | |
| | Time: | | |
| | <u> </u> | | Please email results to pm@basinenv.com |
| Delivered By: (Circle One) | | Sample Condition CHECKED BY: | Y: & TAsavoie@BassPet.com |
| Sampler - UPS - Bus - Other: | | 20 Gyes Gyes (Initials) | |

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