Basin Environmental Service Technologies, LLC

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REMEDIATION SUMMARY & RISK-BASED SITE CLOSURE REQUEST

BOPCO, LP

POKER LAKE UNIT #78 Delaware B Tank Battery
Eddy County, New Mexico
Unit Letter "A" (NE/NE), Section 25, Township 24 South, Range 30 East
Latitude 32.194069° North, Longitude 103.827614° West

Prepared For:

BOPCO, LP 522 W. Mermod Suite 704 Carlsbad, New Mexico 88220 RECEIVED
FEB 14 2013
NMOCD ARTES!A

Prepared By:

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

January 2013

Ben J. Arguijo Project Manager

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1.0 INTRODUCTION AND BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary & Risk-Based Site Closure Request* for the release site known as Poker Lake Unit #78 Delaware B Tank Battery ("Delaware B"). The legal description of the release site is Unit Letter "A" (NE/NE), Section 25, Township 24 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.194069° North latitude and 103.827614° West longitude. The property affected by the release is owned by The United States Department of the Interior, Bureau of Land Management (BLM). A "Site Location Map" is provided as Figure 1.

On May 13, 2010, BOPCO discovered a release had occurred at the Delaware B tank battery. The pump on the produced water tank malfunctioned, resulting in a release of produced water and crude oil. The release was confined to the earthen containment area, and free-standing fluid was removed with a vacuum truck. The release was reported to the New Mexico Oil Conservation Division (NMOCD) Artesia District Office on May 13, 2010. The Release Notification and Corrective Action (Form C-141) indicated approximately two hundred and eighty barrels (280 bbls) of produced water and approximately five barrels (5 bbls) of crude oil were released, and approximately two hundred and sixty barrels (260 bbls) of produced water and approximately five barrels (5 bbls) of crude oil were recovered.

On July 7, 2010, BOPCO discovered an additional release had occurred at the Delaware B tank battery. A pipe connection on the water tank failed, and the two-inch (2") valve located between the tank and pump was closed, stopping the flow of water and resulting in a release of produced water. The release was confined to the earthen containment area, and free-standing fluid was removed with a vacuum truck. The release was reported to the NMOCD Artesia District Office on July 7, 2010. The Form C-141 indicated approximately ninety barrels (90 bbls) of produced water were released, and approximately eighty barrels (80 bbls) of produced water were recovered.

On August 20, 2011, BOPCO discovered a third release had occurred at the Delaware B tank battery. A storage tank overflow on unknown cause resulted in the release of crude oil. The release was confined to the earthen containment area, and free-standing fluid was removed with a vacuum truck. The release was reported to the NMOCD Artesia District Office on August 20, 2011. The Form C-141 indicated approximately forty barrels (40 bbls) of crude oil were released, and approximately thirty barrels (30 bbls) of crude oil were recovered.

The three (3) releases were remediated concurrently. The Form C-141 for each release is provided in Appendix A. General photographs of the release site are provided in Appendix B.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information was unavailable for Section 25, Township 24 South, Range 30 East. A depth-to-groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately three hundred and sixty feet (360') to three hundred and sixty-five feet (365')

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 one thousand feet (1,000') of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

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

NMOCD guidelines indicate the Delaware B 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)
- Benzene, toluene, ethylbenzene and xylenes (BTEX) 50 mg/Kg (ppm)
- Total petroleum hydrocarbons (TPH) 5,000 mg/Kg (ppm)

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

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On May 25, 2010, one (1) soil boring (SB-1) was advanced to evaluate the vertical extent of impacted soil at the site. Soil samples were collected at five foot (5') drilling intervals and field-screened using a Photo-Ionization Detector (PID) and a chloride field test kit. Selected soil samples were submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis of BTEX, TPH, and chloride concentrations using EPA Methods SW-846 8021b, SW-846 8015M, and 4500 Cl-B, respectively. Table 1 summarizes the "Concentrations of Benzene, BTEX, TPH & Chloride in Soil". A "Site & Sample Location Map" is provided as Figure 2. A soil boring log is provided as Appendix C. Laboratory analytical reports are provided as Appendix D.

Soil boring SB-1 was located inside the containment area on the north side of the battery. The soil boring was advanced to a total depth of approximately forty five feet (45') bgs. Soil samples collected at five feet (5'), ten feet (10'), twenty feet (20'), twenty-five feet (25'), thirty feet (30'), forty feet (40'), and forty-five feet (45') bgs were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. Laboratory analytical results indicted benzene concentrations were less than the appropriate laboratory method detection limit (MDL) in each of the submitted soil samples. BTEX concentrations ranged from less than the appropriate laboratory MDL in soil samples SB-1 @ 25', SB-1 @ 40', and SB-1 @ 45' to 2.172 mg/Kg in soil sample SB-1 @ 5'. TPH concentrations ranged from less than the appropriate laboratory MDL in soil samples SB-1 @ 40' and SB-1 @ 45' to 126.4 mg/Kg in soil sample SB-1 @ 5'. Chloride concentrations ranged from 416 mg/Kg in soil samples SB-1 @ 40' and SB-1 @ 45' to 3,120 mg/Kg in soil sample SB-1 @ 20'. A review of laboratory analytical results indicated benzene, BTEX and TPH concentrations were less than the appropriate NMOCD regulatory standard.

A background soil sample (Background) was also collected and analyzed for chloride concentrations. Laboratory analytical results indicated the chloride concentration in soil sample Background was less than the laboratory MDL of 16.0 mg/Kg.

On October 14, 2011, four soil samples (Sample #1, Sample #2, Sample #3, and Sample #4) were collected to further delineate the vertical and horizontal extent of impacted soil at the site. The soil samples were submitted to the lab for analysis of TPH concentrations. Laboratory analytical results indicated TPH concentrations ranged from 12.2 mg/Kg in soil sample Sample #2 to 11,810 mg/Kg in soil sample Sample #1. Based on laboratory analytical results, further delineation would be required in the area represented by soil samples Sample #3 and Sample #4. Further delineation in the area represented by soil sample Sample #1 was precluded by the presence of an active pipeline running through the site.

On October 18, 2011, excavation of impacted soil commenced at the site. A PID and chloride test kit were used to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. To facilitate remediation activities, the excavation was divided into two (2) sections: East Excavation and West Excavation. The East Excavation was located in the area immediately adjacent to, and between, the five (5) on-site storage tanks. To preserve the structural integrity of the storage tanks, the vertical extent of the East Excavation was limited to one and one-half feet (1.5') bgs. The West Excavation was located in the area defined by soil samples Sample #1 through Sample #4. Excavated soil was stockpiled on-site, pending final disposition.

From October 20 through October 26, 2011, approximately three hundred and sixty cubic yards (360 yd³) of impacted soil was transported to Lea Land, Inc. (NMOCD Permit # WM-01-035), for disposal.

On October 20, 2011, four (4) soil samples (Sample 4A, Tank 3 South, Tank 4 South, and Tank 5 South) were collected from the floor and sidewalls of the excavations and submitted to the laboratory for analysis of TPH concentrations. Soil sample Sample 4A was advanced in the West Excavation, in the area represented by soil sample Sample #4. Soil samples Tank 3 South, Tank 4 South, and Tank 5 South were located in the East Excavation, inside the containment area of the battery, to the south of the on-site storage tanks. Laboratory analytical results indicated TPH concentrations ranged from less than the laboratory method detection limit (MDL) of 10.0 mg/Kg in soil sample Sample 4A to 28,550 mg/Kg in soil sample Tank 5 South.

A delineation trench was advanced in the West Excavation, in the area represented by soil sample Sample #3. The trench was advanced to a total depth of approximately ten feet (10') bgs. A single soil sample (Sample 3A) was collected from the floor of the trench and submitted to the laboratory for analysis of TPH, BTEX, and chloride concentrations. Laboratory analytical results indicated the TPH concentration in soil sample Sample 3A was 36.6 mg/Kg, the chloride concentration was 4,800 mg/Kg, and BTEX constituent concentrations were less than the appropriate laboratory MDL.

Based on laboratory analytical results and field-screens, from October 21 through October 28, 2011, the West Excavation was backfilled in eighteen-inch (18") lifts, compacted, and contoured to fit the surrounding topography. Prior to backfilling, final dimensions of the excavation were

approximately forty-four feet (44') feet in length, approximately thirty-nine feet (39') feet in width, and approximately six feet (6') in depth.

On October 31, 2011, one (1) hand-augered soil bore was advanced at the western edge of West Excavation. A single confirmation soil sample (Sample #5) was collected from the soil bore and submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated the TPH concentration in soil sample Sample #5 was less than the laboratory MDL of 10.0 mg/Kg, and the chloride concentration was 336 mg/Kg.

The East Excavation was backfilled with clean, crushed caliche to a depth approximately six inches (6") below the original ground surface. Prior to backfilling, three (3) soil samples (Tank 2 North, Tank 4 North, and Tank 5 North) were collected from the floor of the excavation and submitted to the laboratory for analysis of TPH concentrations. Laboratory analytical results indicated TPH concentrations were less than the laboratory MDL of 10.0 mg/Kg in all submitted soil samples.

From October 31 through November 9, 2011, to mitigate future releases, a new, steel-walled containment area was constructed around the Delaware B tank battery. The steel perimeter walls extend approximately two feet (2') above ground surface. A felt liner was installed in the floor of the new containment area, and the floor and perimeter walls were coated with an impermeable, spray-on polyurethane liner.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

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

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

4.2 Decontamination of Equipment

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

4.3 Laboratory Protocol

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

5.0 SITE CLOSURE REQUEST

Contaminated soil at the Delaware B release site was excavated to the extent practicable. Soil samples collected from the floors and sidewalls of the Delaware B excavations were analyzed by an NMOCD-approved laboratory, and BTEX constituent concentrations were less than the remediation action levels (RRAL's) established for the site by the NMOCD. The floor and perimeter walls of the containment area surrounding the Delaware B were coated with an impermeable, spray-on polyurethane liner. This engineered control will inhibit the downward migration of contaminants in the areas represented by soil samples Sample #1, Sample 3A, Tank 4 South, and Tank 5 South. In-situ soil exhibiting contamination above the RRAL's established for the site will be remediated upon decommission and/or abandonment of the currently active tank battery.

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 Delaware B 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, New Mexico 88210

Copy 2: James Amos

Bureau of Land Management

602 E. Greene Street

Carlsbad, New Mexico 88220

Copy 3: Tony Savoie

BOPCO, LP

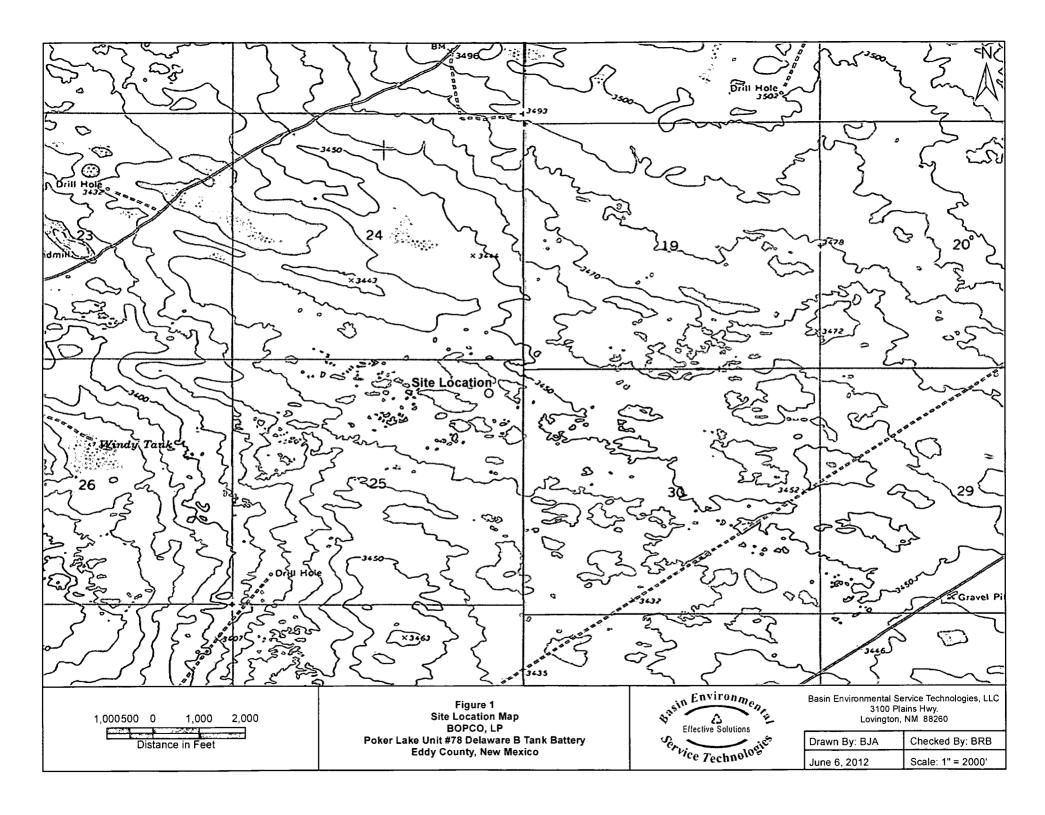
522 W. Mermod, Ste. 704 Carlsbad, New Mexico 88220

Copy 4: Basin Environmental Service Technologies, LLC

P.O. Box 301

Lovington, New Mexico 88260

Figures



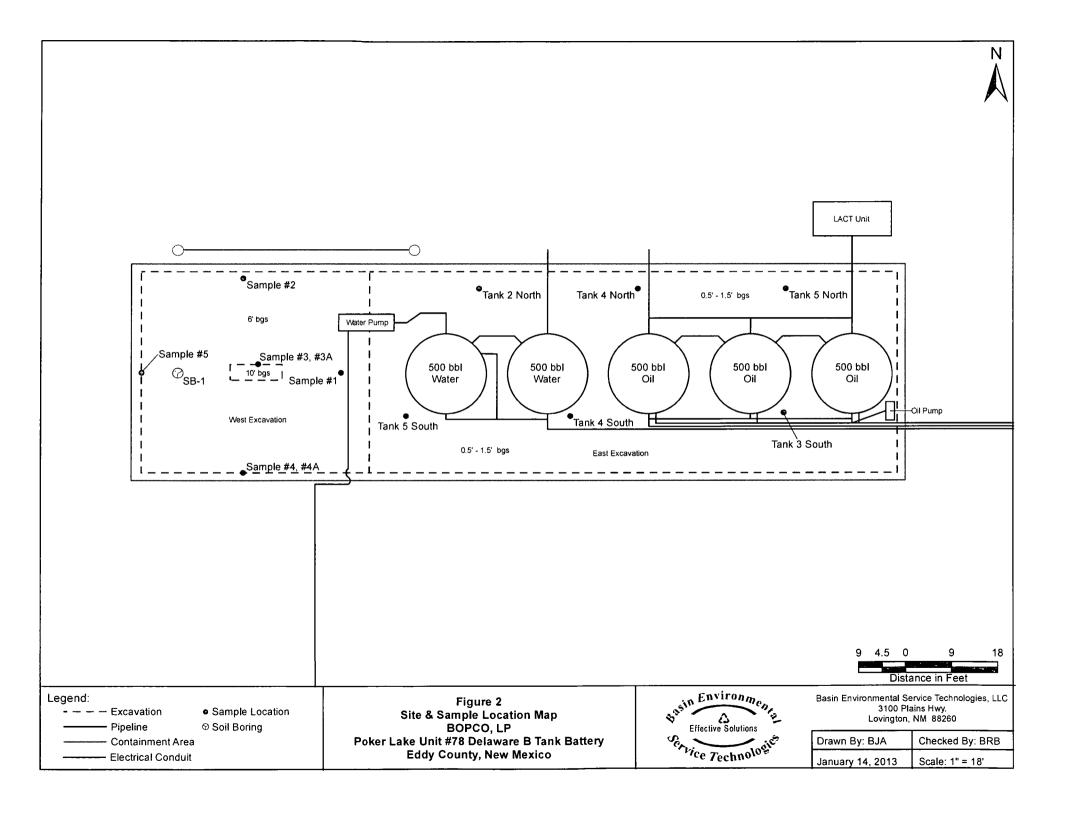


TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

BOPCO, LP POKER LAKE UNIT #78 DELAWARE B TANK BATTERY EDDY COUNTY, NEW MEXICO

| | <u> </u> | | | | METHOD: EPA SW 846-8021B, 5030 METHOD: 8015M | | | | | | | TOTAL | 4500 CI-B |
|-----------------|--------------------------|----------------|----------------|--------------------|--|------------------------------|-----------------------------|--------------------------|---|--|--|---|---------------------|
| SAMPLE LOCATION | SAMPLE DEPTH (BGS) | SAMPLE DATE | SOIL STATUS | BENZENE (mg/Kg) | TOLUENE (mg/Kg) | ETHYL- BENZENE (mg/Kg) | TOTAL XYLENES (mg/Kg) | TOTAL BTEX (mg/Kg) | GRO C ₆ -C ₁₂ (mg/Kg) | DRO C ₁₂ -C ₂₈ (mg/Kg) | ORO C ₂₈ -C ₃₅ (mg/Kg) | TPH C ₆ -C ₃₅ (mg/Kg) | CHLORIDE (mg/Kg) |
| Background | Surface | 05/25/10 | In-Situ | - | - | - | - | - | - | - | - | - | <16.0 |
| SB-1 @ 5' | 5' | 05/25/10 | In-Situ | < 0.050 | 0.131 | 0.321 | 1.72 | 2.172 | 19.4 | 107 | <10.0 | 126.4 | - |
| SB-1 @ 10' | 10' | 05/25/10 | In-Situ | , | - | - | - | - | - | - | - | | 640 |
| SB-1 @ 20' | 20' | 05/25/10 | In-Situ | • | - | - | - | , | • | - | - | - | 3,120 |
| SB-1 @ 25' | 25' | 05/25/10 | In-Situ | < 0.050 | <0.050 | < 0.050 | < 0.300 | < 0.300 | <10.0 | 32.8 | <10.0 | 32.8 | - |
| SB-1 @ 30' | 30' | 05/25/10 | In-Situ | - | - | - | - | 1 | - | - | - | - | 768 |
| SB-1 @ 40' | 40' | 05/25/10 | In-Situ | <0.050 | <0.050 | <0.050 | < 0.300 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | 416 |
| SB-1 @ 45' | 45' | 05/25/10 | In-Situ | <0.050 | <0.050 | <0.050 | <0.300 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | 416 |
| | | | | | | | | | | | | | |
| Sample #1 | 1' | 10/14/2011 | In-situ | - | - | - | - | • | 3,200 | 7,970 | 640 | 11,810 | - |
| Sample #2 | 1' | 10/14/2011 | In-situ | - | - | - | - | • | <10.0 | 12.2 | <10.0 | 12.2 | - |
| Sample #3 | 1' | 10/14/2011 | Excavated | | - | _ | • | • | 690 | 1,380 | 90.1 | 2,160 | - |
| Sample #4 | 1' | 10/14/2011 | Excavated | - | - | • | - | . 1 | 239 | 1,600 | 116 | 1,955 | - |
| | | | | | | | | | | | | | |
| Sample 3A | 10' | 10/20/2011 | In-situ | <0.050 | <0.050 | <0.050 | <0.150 | <0.150 | <10.0 | 36.6 | <10.0 | 36.6 | 4,800 |
| Sample 4A | 6' | 10/20/2011 | In-situ | - | - | - | - | - | <10.0 | <10.0 | <10.0 | <10.0 | - |
| Tank 3 South | 1.5' | 10/20/2011 | In-situ | - | - | - | - | - | <50.0 | 643 | 104 | 747 | - |
| Tank 4 South | 1.5' | 10/20/2011 | In-situ | - | - | - | <u>-</u> | - | 1,440 | 19,300 | 1,510 | 22,250 | - |
| Tank 5 South | 1.5' | 10/20/2011 | In-situ | - | - | - | - | - | 1,920 | 24,600 | 2,030 | 28,550 | - |
| | | | | | | | | | | | | | |
| Sample #5 | 4' | 10/31/2011 | In-situ | - | - | - | - | - | <10.0 | <10.0 | <10.0 | <10.0 | 336 |
| Tank 2 North | 1.5' | 10/31/2011 | In-situ | - | <u>-</u> | | - | - | <10.0 | <10.0 | <10.0 | <10.0 | |
| Tank 4 North | 1.5' | 10/31/2011 | In-situ | - | - | - | - | - | <10.0 | <10.0 | <10.0 | <10.0 | - |
| Tank 5 North | 1.5' | 10/31/2011 | In-situ | - | - | - | - | - | <10.0 | <10.0 | <10.0 | <10.0 | - |
| | | | | | | | | | | | | | |
| NMOCD Standard | | | | 10 | | | | 50 | | | | 5,000 | 1,000 |

^{- =} Not analyzed.

Appendices

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

(NMOCO)

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 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources CEIVED

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

Form C-141 Revised October 10, 2003

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

| 1220 S. St. Fran | cis Dr., Santa | a Fe, NM 87505 | 5 | | inta Fe, NM 875 | 505 NIA | OCD ARTES | [A] | side of form |
|------------------|----------------|----------------|-----------|-----------------|------------------|---------------|--|----------|-----------------|
| 30-015- | 27531 | 6 | Rele | ease Notific | ation and Co | | and the same of th | | |
| 30-015-0 | 35734 | 744 | | | OPERA | TOR | 🛛 Initi | al Repor | t Final Report |
| Name of Co | | | | 260737 | Contact To | ny Savoie | | | |
| Address 522 | 2 W. Mern | nod, Suite 70 |)4 Carlsb | ad, N.M. 88220 | Telephone 1 | No. 432-556- | 8730 | | |
| Facility Nar | ne Poker I | Lake Unit #7 | 8 Delawa | are B Tank Batt | ery Facility Typ | oe E&P | | | |
| Surface Ow | ner Federa | al | | Mineral (| Owner Federal | | Lease 1 | No. | |
| | | | | LOCA | ATION OF RE | LEASE | | | |
| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | e East/West Line | County | |
| A | 25 | 248 | 30E | | | | | Eddy | |
| L | J | L | L | | l | <u> </u> | | l | |

Latitude_N 32.194069___ Longitude W 103.827614

NATURE OF RELEASE

| Type of Release: Produced water and crude oil | Volume of Release: 280 Bbls of | Volume Recovered: 260 bbls of produced |
|--|--|--|
| | Produced water and 5 Bbls of | water and 5 bbls crude oil |
| | Crude oil | |
| Source of Release: 300 bbl produced water tank overflow | Date and Hour of Occurrence | Date and Hour of Discovery |
| | Unkown | 5/13/10 8:00 a.m. |
| Was Immediate Notice Given? | If YES, To Whom? | |
| | Randy NMOCD on call operator | |
| By Whom? Tony Savoie | Date and Hour 5/13/10 10:21a.m. | |
| Was a Watercourse Reached? | If YES, Volume Impacting the Wat | tercourse. |
| ☐ Yes ☒ No | | |
| If a Watercourse was Impacted, Describe Fully.* | | |
| and the second of the second o | | |
| | | |
| | | |
| | | |
| Describe Cause of Problem and Remedial Action Taken.* The produced | water tank overflowed due to a nump | malfunction. The main water transfer nump |
| failed to come. The pump motor was replaced. | The second secon | , and the state of |
| | | |
| Describe Area Affected and Cleanup Action Taken.*The released fluid a | iffected an area of approximately 3,000 | sq. ft inside the earthen containment |
| around the tanks, the facility does not have impervious containment. The | free standing fluids were removed wit | h a vacuum truck. On 5/25/10 An area was |
| selected inside the containment for an air rotary rig to advance a soil bore | e to determine vertical extent. The soil | bore was advanced to a depth of |
| approximately 45 ft. below ground surface and sampled a 5 ft. intervals f | | |
| sample results along with a remediation plan and containment upgrade w | vill be submitted to the NMOCD. | |
| The Site remediation for the produced water and crude oil spill will follo | w the NMOCD guidelines for leaks an | d spills. |
| I hereby certify that the information given above is true and complete to | the best of my knowledge and understa | and that pursuant to NMOCD rules and |
| regulations all operators are required to report and/or file certain release | notifications and perform corrective ac | tions for releases which may endanger |
| public health or the environment. The acceptance of a C-141 report by the | he NMOCD marked as "Final Report" | does not relieve the operator of liability |
| should their operations have failed to adequately investigate and remedia | ite contamination that pose a threat to g | ground water, surface water, human health |
| or the environment. In addition, NMOCD acceptance of a C-141 report | does not relieve the operator of respons | sibility for compliance with any other |
| federal, state, or local laws and/or regulations. | | |
| | OIL CONSERV | VATION DIVISION |
| () () () | | |
| Signature: / Ohy Dance | Approved by District Supervisor: | <i>!</i> |
| . 0 | Approved by District Supervisor: Signed By | le Kennys - |
| Printed Name: Tony Savoie | Signed By Vo 117 | 4 Normales C |
| | 1/1/ | |
| Title: Waste Mgmt.& Remediation Specialist | Approval Date: 3/3/// | Expiration Date: |
| | / / | |
| E-mail Address: TASavoie@BassPet.com | Conditions of Approval: | Attached |
| | Remediation per OCD Rul | es & |
| Date: 5/27/10 Phone:432-556-8730 | Guidelines. SUBMIT REMEDIA | C3 GC |
| Attach Additional Sheets If Necessary | | |
| · | PROPOSAL NOT LATER THAN | : メバアークスス |
| | (1/0/1) | |

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District III
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

RECEIVED

Form C-141 JUL 15 2010

Submit 2 Copies to appropriate

District Office in accordance

With Rule 116 on back

side of form

| 30~01G- | | | Rele | ease Notific | atio | n and Co | orrective A | ction | ì | | | |
|--|--|--|--|--|--|--|---|---|--|---|---|----------------------|
| Kmw 10 | 356288 | 397 | | | | OPERA' | FOR | | Initial | al Report | F | inal Repo |
| Name of Co | mpany BC | PCO, L.P. | | 60731 | | Contact Tor | | | | | | |
| | | | | ad, N.M. 88220 | | | No. 432-556-87 | 30 | | | | |
| Facility Nai | ne Poker L | ake Unit #7 | 8 Delawa | are B Tank Batte | ry | Facility Typ | e E&P | | | | | |
| Surface Ow | ner Federa | 1 | | Mineral O | wner I | Federal | · · · · · · · · · · · · · · · · · · · | | Lease N | No. | | |
| | | | | LOCA | TIO | N OF RE | LEASE | | | | | |
| Unit Letter | Section | Township | Range | Feet from the | | /South Line | Feet from the | East/\ | West Line | County | | |
| Α | . 25 | 24S | 30E | | | | | | | Eddy | | |
| | <u>l , , , , , , , , , , , , , , , , , , ,</u> | <u>. </u> | | atitude_N 32.19 | 94069 | Longitu | ide W 103 8276 | | | | | |
| | | | _ | | | OF REL | | , , , | | | | |
| Type of Rele | ase: Produc | ed water. | | 11771 | | | Release: 90 Bbl | s of | Volume I | Recovered: 8 | RO bbls of | produced |
| | | | | | | Produced | | 501 | water. | | ,0 0015 01 | |
| Source of Re | lease: 500 b | bl produced v | vater tank | | | 1 | lour of Occurrence | ce | Date and 7/7/10 10 | Hour of Dis | covery | |
| Was Immedi | ate Notice C | Given? | | | | Unkown If YES, To | Whom? | | 1///10/10 | .vu a.m. | | |
| | | | Yes [|] No 🔲 Not Re | quired | | OCD on call ope | rator | | | | |
| By Whom? | Tony Savoie | } | | | | Date and I | lour 7/7/10 2:39 | p. m . | | | | |
| Was a Water | course Read | | . v. 5 | 7 | | If YES, V | olume Impacting | the Wate | ercourse. | | | , |
| | | pacted, Descr | Yes ∑ | | | | | | | | | |
| Describe Are around the taselected inside approximate sample results ame area to The Site remarks. | ca Affected anks, the facte the contally 45 ft. belows along with determine in ediation for ify that the | and Cleanup a ility does not inment for an ow ground sur h a remediation f the vertical of the produced information g | Action Tal have imperair rotary face and so on plan an extent has water and | ken.*The released ervious containmer rig to advance a se sampled a 5 ft. inted containment upg migrated further d d crude oil spill wile is true and complete is true and complete is true and complete is true and complete in the containment upg migrated further d d crude oil spill wile is true and complete is true and complete is true and complete is true and complete in true and compl | fluid at nt. The pil bore rvals for rade w lown si ld follow | ffected an are free standing to determine or TPH, BTE. ill be submittence the 2 nd . S we the NMOC the best of my | a of approximatel fluids were remo vertical extent. TX and Chlorides. ed to the NMOCE pill event. D guidelines for ly knowledge and u | ved with the soil I Estimate D. We we have and andersta | n a vacuum bore was ac ed depth to ill schedule d spills. nd that pur | truck. On 5. dvanced to a water is gree another san suant to NM | /25/10 Andepth of ater than 4 ater than 4 ater than 4 ater than 5 | area was 400 ft. The |
| oublic health should their or or the enviro | or the envi- operations h nment. In a | ronment. The ave failed to | acceptane adequately OCD accep | nd/or file certain roce of a C-141 repo y investigate and ro ptance of a C-141 r | rt by the emedia | ne NMOCD m | narked as "Final R ion that pose a thi | Report" o | does not rel | ieve the ope | rator of li | ability an health |
| | | _ | _ | | | | OIL CON | SERV | ATION | DIVISIO | <u>N</u> | |
| Signature: Printed Nam | i On | 2 central | <u>u</u> | | | Approved by | District Supervis | or Mi | 1/4 Be | *********** | | |
| | | emediation Sp | ecialist | | | Approval Da | ite: 3/3/11 | | Expiration | Date: | | |
| | | oie@BassPet. | | | | Conditions o | , -, - | | | | | |
| | | | | | $\overline{}$ | | diation per OC | D Rule | es & | Attached | l 📙 | |
| Date: 7/14/1 | | ets If Necess | | Phone:432-556-8 | 730 | | s. SUBMIT REM | | | | | |
| лиаси Абб | nonai She | cis II Necess | ыагу | | | PROPOSA | L NOT LATER | THAN: | | ark | 514 | <i>†</i> |

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

Førm C-141

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

| | | | Kele | ease Notific | atic | on and Co | orrective A | ction | 1 | | |
|-----------------------------|----------------|-----------------|------------|---------------------|---------|-------------------------|------------------------|----------|---------------|-----------------------|----------------|
| | | | | | | OPERA' | ГOR | | | al Report | Final Repor |
| Name of Co | отрапу Во | OPCO, L.P. | | | | Contact Tor | ıy Savoie | | | | ···· |
| | | | | ad, N.M. 88220 | | | No. 432-556-87. | 30 | | | |
| Facility Na | me Poker I | Lake Unit #7 | 8 Delaw | are B Tank Batte | гу | Facility Typ | e E&P | | | \ | |
| Surface Ow | vner Federa | al | | Mineral O | wner | Federal | | | Lease N | Vo. | |
| | | | | LOCA | TIC | ON OF REI | LEASE | | | | |
| Unit Letter | Section | Township | Range | Feet from the | Nort | h/South Line | Feet from the | East/ | West Line | County | |
| А | 25 | 248 | 30E | | | | | | | Eddy | |
| | • | | L | atitude_N 32.19 | 9406 | 9 Longitu | de W 103.8276 | 514 | | 1 | |
| | | | | | | E OF RELI | | | | | |
| Type of Rele | ease: Crude | oil | | | | Volume of | Release: 40 Bbl | s of | Volume I | Recovered: 30 bbls | i. |
| Source of Re | elease: 500 F | obl oil product | ion tank | | • | Date and F | lour of Occurrence | `e | Date and | Hour of Discovery | <u> </u> |
| | | - | | | | 8/20/11 tin | ne unkown. | | 8/20/11 8 | | |
| Was Immedi | iate Notice (| | Yes [| No Not Re | quire | If YES, To d NMOCD e | Whom? mergency #104 | | | | |
| By Whom? | Fony Savoie | | | ··· | | Date and 1: | Iour 8/20/11 11:0 | 7 a.m. | | | |
| Was a Water | course Read | | | | | If YES, Vo | olume Impacting t | the Wat | ercourse. | | |
| | | | Yes 🗵 | _ | | | | | | RECEI | VED_ |
| If a Waterco | urse was Im | pacted, Descr | ibe Fully. | * | | | | | | AUG 22 | 2011 |
| | | | | | | | | | | | |
| _ | | | | | | | | | L | NMOCD AF | RIESIA |
| Describe Car | use of Probl | em and Reme | dial Actio | n Taken.* One of t | he oi | production tar | iks overflowed. C | ause un | ıknown. | | |
| Describe Are | a Affected | and Cleanup A | Action Tal | en.*The spill was | conta | ined within th | e earthen contain | ment are | ound the tai | nk battery, all of th | e free product |
| was removed The Site rem | | | water and | crude oil spill wil | l folic | ow the NMOCI |) guidelines for lo | eaks and | t spills | | |
| I hereby cert | ify that the i | information gi | ven above | is true and comple | ete to | the best of my | knowledge and u | ndersta | nd that purs | suant to NMOCD r | ules and |
| | | | | | | | | | | eases which may e | |
| public health | or the envi | ronment. The | acceptano | ce of a C-141 repor | nt by t | the NMOCD m | arked as "Final R | eport" o | ioes not reli | ieve the operator o | f liability |
| | | | | | | | | | | compliance water, in | |
| | | ws and/or regu | | | | | <u>-</u> | | | | |
| | | • | | | | | OIL CON | SERV | ATION | DIVISION | |
| Signature: | 10 | u Sa | ma | _ | : | Approved by | District Supervis | OF: | | | |
| | | <u>d</u> | | | _ | Approved by | District authorats | VI. | | | |
| Printed Nam | e: Tony Sav | roie | | | | | | <u>1</u> | | | |
| Title: Waste | Mgmt.& Re | emediation Sp | ecialist | | | Approval Dat | e: | | Expiration | Date: | |
| E-mail Addre | ess: TASavo | oie@BassPet.c | com | | | Conditions of | `Approval: | | | Attached | |
| D-4 0/20/1 | 1 | | | Db 420 550 0 | 720 | | | | | Attaciled [] | |
| Date: 8/22/1 | j | | | Phone:432-556-8 | /30 | | | | | 1 | _ |

^{*} Attach Additional Sheets If Necessary

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

State of New Mexico Energy Minerals and Natural Resources

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

Revised October 10, 2003

Form C-141

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

Release Notification and Corrective Action

| | | | | | OPE | RATOR | | Ir | nitial R | .eport | X Fi | nal Report |
|---|---|-----------------|--------------|---|-------------------|-------------------|---------------------|---------------|---------------|---|--|------------------|
| Name of Co | | BOPCO, LI | | | | Contact To | | | | | | |
| | | | | sbad, NM 8822 | | | No. (432)556-8 | 730 | | | | |
| Facility Nar | ne Poker | Lake Unit #' | 78 Delaw | are B Tank Batt | ery | Facility Typ | e E&P | | | | | |
| Surface Ow | ner Fede | ral | | Mineral C |) wner | Federal | | L | Lease No. | | | |
| | | | | LOCA | ATIO | N OF RE | LEASE | - | | | | |
| Unit Letter | Section | Township | Range | Feet from the | | h/South Line | Feet from the | East/West | Line | County | | |
| A | 25 | 24S | 30Ē | | | | | | | Eddy | | |
| | | | | | | | | | | | | |
| | | | Latit | ude 32.194069° | Nortl | h | Longitude 10 | 3.827614° | West | | | |
| | | | | NAT | URE | E OF REL | EASE | | | | | |
| Type of Rele | ase Produc | ed water and | crude oil | | | Volume of | Release: 280 bb | ls of Vo | lume R | ecovered: | 260 bb | ls of |
| | | | | | | 1 - | water and 5 bbls o | of pro | duced | water and | 5 bbls o | f crude oil |
| CCD- | 1 200 | 111 1 1 | | | | crude oil | | | | | | |
| Source of Re | lease 300 | bbl produced | water tank | overflow | | Unknown | lour of Occurrence | | | Hour of Day, 8:00 AM | | |
| Was Immedia | ate Notice (| Given? | | | _ | If YES, To | Whom? | | . 5/2010 | , 0.00 / 11/1 | <u>. </u> | |
| | | | es No | Not Required | | | MOCD on-call ope | erator | | | | |
| By Whom? | Tony Savo | ie_ | | | | Date and I- | Hour 5/13/10, 10: | 21 AM | | | | |
| Was a Water | course Read | | | | If YES, Vo | olume Impacting t | the Watercou | arse. | | | | |
| ☐ Yes X No | | | | | | | | | | | | |
| If a Watercou | If a Watercourse was Impacted, Describe Fully.* | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | n Taken:* The pr | oduced | d water tank ov | erflowed due to a | ı pump malfı | unction | . The main | n water | transfer pump |
| failed to com | e on. The p | ump motor wa | as replaced | d. | | | | | | | | |
| Describe Are | a Affected | and Cleanup | Action T | aken.* The relea | sed flu | id affected an | area of approxir | nately 3,000 |) sq. ft | inside the | e earther | containment |
| around the ta | ınks. The fa | cility did not | have imp | ervious containm | ent at | the time. The | free-standing flui | ids were rem | noved v | vith a vac | uum tru | ck. Following |
| initial respon | se activitie | s, the release | was remed | diated as per NM | OCD g | guidelines. Ple | ase reference the | attached Rei | mediati | on Summa | ary & Ri | sk-Based Site |
| L hereby cert | <i>iest</i> for deta ify that the | information | tion activ | ities and laborator ve is true and cor | y analy polete | ytical results to | my knowledge a | soil samples | d that | nurcuant | to NMO | CD rules and |
| regulations a | II operators | are required | to report | and/or file certain | n relea | se notification | s and perform co | rrective acti | ions for | releases, | which i | may endanger |
| public health | or the env | ironment. Th | e acceptai | nce of a C-141 re | port by | y the NMOCD | marked as "Fina | al Report" de | oes not | relieve th | ne operat | tor of liability |
| should their o | operations l | nave failed to | adequatel | y investigate and | remed | iate contamina | tion that pose a tl | hreat to grou | ind wat | er, surface | e water, | human health |
| federal, state, | or local la | addillon, INIV | loco acc | eptance of a C-1 | 41 rep | ort does not r | elieve the operato | or of respons | sibility | for comp | liance w | ith any other |
| , | 07 10 041 14 | una or rege | | | | | OIL CON | SERVAT | ION | DIVISI | ON | |
| G: . | 15/ | // | | | | | <u>OIL COIT</u> | DERCTIT | 1011 | <u>D1 </u> | .011 | |
| Signature: | | 2 | | | | | | | | | | |
| Printed Name | ASIR | Ben 5 | Ti Argni | D Egent of | (مه ه | Approved by | District Supervis | or: | | | | |
| Title: | Project | Manager | BASIN | Environ ment | x/ | Approval Da | tai | E: | matiam F |)oto: | | |
| TILIC. ********** | ANGUNA CONT | CONTROL HUMANIA | DEGLES ! | | | Approvai Da | ie: | Expi | ration I | Jate: | | |
| E-mail Addre | ess: TASavo | oie@BassPet. | com b | incomiso Ebusin | envid | Conditions of | f Approval: | | | | | |
| Date: 2/ | 14/13 | | Phone | e: (432)556-8730 | | | | R | FC. | FIVE | ED | |
| | | | | (806) 549-95 | 97 | | | 1 | Queen service | 11-11-11-11-11-11-11-11-11-11-11-11-11- | | 1 |
| | | | | | • • | | | | FEB | 1 4 20 | 13 | |
| | | | | | | | | 2.04 | a A C |) ART | ESIA | |
| | | | | | | | | MIN | | 2 /3/11 | 2 - 2 - 3 | _ : |

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State of New Mexico Energy Minerals and Natural Resources

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

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

Release Notification and Corrective Action

| | | | | | OPERATOR | | | | Initial Report X Final Report | | | | |
|-------------------------|----------------|------------------|------------------------|--|------------------|-----------------------|-------------------------------------|--|-------------------------------|-------------------------|------------|----------------|--|
| Name of Co | | BOPCO, LI | | | | Contact To | | | | | | | |
| | | | | sbad, NM 88220 | | Telephone N | No. (432)556-8 | 730 | | | | | |
| Facility Nar | ne Poker | Lake Unit #7 | 78 Delaw | are B Tank Batte | ery | Facility Typ | e E&P | | | | | | |
| Surface Ow | ner Feder | al | | Mineral O | wner | Federal | | | Lease No. | | | | |
| | | | | LOCA | TIO | N OF REI | LEASE. | | | | | | |
| Unit Letter | Section | Township | Range | Feet from the | | South Line | Feet from the | East/\ | West Line | County | | | |
| A | 25 | 24S | 30E | | | | | 234047 | , cot sinc | Eddy | | | |
| | ! | | | | | | | | | | | | |
| | • | | <u>Latit</u> | ude 32.194069° | North | 1 | Longitude 10 | 3.8276 | 14° West | | | | |
| | | | | NAT | URE | OF RELI | EASE | | | | | | |
| Type of Rele | ase Produc | ed water | | | | | Release: 90 bbls | of | Volume F | Recovered: | 80 bbls | of produced | |
| | | | | | | produced v | vater | | water | | | • | |
| Source of Re | lease 500 l | bbl produced | water tank | | | Date and H Unknown | lour of Occurrenc | e | | Hour of Dis 10:00 AM | scovery | | |
| Was Immedi | ate Notice (| | es No | Not Required | | If YES, To | Whom? 10CD on-call ope | aratar | | | | | |
| Dy Whom? | Tanu Carrai | | | | | | | | | | | | |
| By Whom? Was a Water | | | | | | | lour 7/7/10, 2:39 blume Impacting t | | ercource | | | | |
| l vas a viator | course reac | | Yes Y | K No | | 11 125, 10 | name impacting t | iic wan | creourse. | | | | |
| If a Watercon | urse was Im | pacted, Descr | ibe Fully. | * | | l | | | | | | | |
| | | • | • | | | | | | | | | | |
| Describe Co. | £ Dl. | 1 1 D | - 11-1 A -71 | | | | 1 1 6.1 | | 1 1 0 | | | 7 00 1 | |
| | | | | ion Taken:* A pip ping the flow of wa | | | | | broke for | reasons unb | inown. T | he 2" valve | |
| | | | | | | | • | | | | | | |
| Describe Are | ea Affected | and Cleanup | Action T | aken.* The releas | ed flu | id affected an | area of approxin | nately 2 | 2,000 sq. ft | inside the | earthen | containment | |
| around the ta | inks. The fa | cility did not | have imp | ervious containme | ent at 1 | the time. The | free-standing flui | ds were | removed v | with a vacu | um truck | c. Following | |
| area Please | se activities | s, the release v | vas remed nadiation | iated per NMOCE Summary & Risk- |) guide Rasad | clines in conju | nction with a rele | ase that | occurred o | n 5/13/10 a | and affect | ted the same | |
| | | n soil samples | | Summary & Risk- | Баѕеа | Sile Closure r | request for details | oi rem | echanon ac | tivities and | laborato | ry analytical | |
| I hereby cert | ify that the | information g | given abov | ve is true and com | plete | to the best of | my knowledge ar | nd unde | erstand that | pursuant to | NMOC | D rules and | |
| regulations a | .ll operators | are required | to report | and/or file certain | releas | se notification: | s and perform co | rrective | actions for | r releases, | which m | ay endanger | |
| public health | or the envi | fronment. The | e acceptai | nce of a C-141 rep | ort by | the NMOCD | marked as "Fina | ıl Repoi | rt" does not | t relieve the | operato | r of liability | |
| or the enviro | operations in | addition. NM | adequater | y investigate and reptance of a C-14 | emeai H ren | ate contaminat | tion that pose a tr | ireat to | grouna wa sponsibility | for compl | water, n | uman nealth | |
| federal, state, | , or local lav | vs and/or regu | lations. | optunee of u o i | и тер | ore does not re | move the operate | or or re. | sponsionity | ioi compi | ance wi | in any other | |
| | | 1. | | | | | OIL CON: | SERV | ATION | DIVISIO | ŌN | | |
| Signature: | 19/2 | | _ | | | | | | | | | | |
| Signature. | | <i>"</i> | | losent a | <i>A</i> \ | Annroyad by | District Supervise | a | | | | | |
| Printed Name | é: Januaria | Den. | 5. An | nijo (BOPCO, | 4) | Approved by | District Supervisor | OI: | | | | | |
| Title: Maste | Menziel | cuadiations | eccións) | Prosect Manag Basin En vicon | archte. | Approval Dat | e: | | Expiration | Date: | | | |
| E-mail Addre | ess: TASavo | oie@BassPet.o | com b i | Acomijo E basine | N. C60 | Conditions of | f Approval: | | | | | | |
| | | 2 4557 544 | <u> </u> | Mysty C Variation | ,,,,,,, | ,conditions of | rippio var. | | | | | | |
| Date: 2/14 | 113 | | Phone | : (432)556-8730 | | | | - | | | | | |
| | | | - | (806) 549-99 | 597 | | | 1 | REC | EIVE | :D | | |
| | | | | | | | | ĺ | EED | 1 4 201 | 3 1 | | |
| | | | | | | | | | ILD | I 7 (0) | ~ | | |
| | | | | | | | | The state of the s | NMOC | D ARTI | ESIA | | |

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State of New Mexico Energy Minerals and Natural Resources

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

X Final Report

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

Initial Report

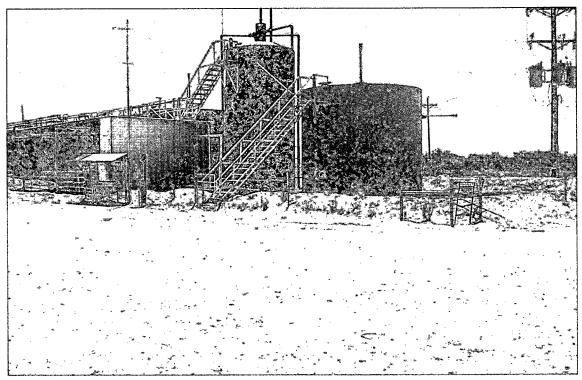
NMOCD ARTESIA

Release Notification and Corrective Action

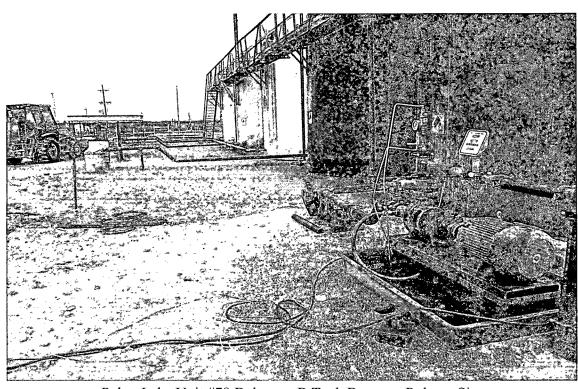
OPERATOR

| Name of Co | | BOPCO, LI | | | | Contact Tony Savoie | | | | | | |
|---|--------------|---------------|----------------|----------------------|--------------------|-----------------------------|-------------------|-----------|-------------|--|--|--|
| | | | | sbad, NM 88220 | | Telephone No. (432)556-8730 | | | | | | |
| Facility Nan | ne Poker | Lake Unit #7 | 78 Delaw | are B Tank Batte | ry I | Facility Typ | e E&P | | | | | |
| Surface Own | ner Feder | -al | | Mineral O | wner | Federal | | | Lease N | lo l | | |
| Burrace Own | iloi i odei | uı . | | IVIIIICIUI O | W11C1 | Todorui | | | Bease | | | |
| | | | | LOCA | TION | OF REI | LEASE | | | | | |
| Unit Letter | Section | Township | Range | Feet from the | North/ | South Line | Feet from the | East/V | Vest Line | County | | |
| Α | 25 | 24S | 30E | | | | | | | Eddy | | |
| | | | | | | | | | | | | |
| | | | Latit | ude 32.194069° | North | | Longitude 102 | 3 82761 | 14° West | | | |
| | | | Datit | | | OE DELI | - | 3.0270 | 14 11 030 | | | |
| T. CD 1 | <u> </u> | 0.1 | - | NAI | URE | OF RELI | | c I | 37.1 F | 1 20111 - 6 - 1 - 1 | | |
| Type of Relea | ase: Crude | Oil | | | | crude oil | Release: 40 bbls | of | Volume F | Recovered: 30 bbls of crude oil | | |
| Source of Re | lease: 500 | bbl oil produ | ction tank | | | I . | lour of Occurrenc | e: | | Hour of Discovery: | | |
| Was Immedia | NI | 7 . 0 | | | | 8/20/2011, If YES, To | time unknown | | 8/20/2011 | , 8:00 AM | | |
| was immedia | ite Notice (| | es No | Not Required | | | mergency #104 | | | | | |
| By Whom? Tony Savoie Date and Hour 8/20/2011, 11:07 AM Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. | | | | | | | | | | | | |
| Was a Water | course Read | | . | | | If YES, Vo | lume Impacting t | he Wate | ercourse. | | | |
| | | | | (No | | | | | | | | |
| If a Watercou | ırse was Im | pacted, Descr | ibe Fully. | k | | | | | | | | |
| | | | | | | | | | | | | |
| Describe Cau | se of Probl | em and Reme | dial Actio | n Taken:* One of t | he oil p | roduction tan | iks overflowed. C | ause un | known. | | | |
| Describe Are | a Affected | and Cleanup | Action T | aken.* The spill v | was cor | ntained within | n the earthen cor | ntainmer | nt around t | he tank battery. All of the free | | |
| | | | | | | | | | | guidelines in conjunction with | | |
| | | | | ities and laboratory | | | | | | ion Summary & Risk-Based Site | | |
| | | | | | | | | | | pursuant to NMOCD rules and | | |
| | | | | | | | | | | r releases, which may endanger | | |
| | | | | | | | | | | relieve the operator of liability | | |
| | | | | | | | | | | ter, surface water, human health for compliance with any other | | |
| federal, state, | | | | eptance of a C-14 | т теры | it does not it | meve the operate | or or res | вроизили | for compliance with any other | | |
| | | | | | | | OIL CON | SERV | ATION | DIVISION | | |
| C: | 15/ | // | _ | | | | * * ***** | | | | | |
| Signature: | | | | Count of | \rightarrow | | D: . : . 6 | | | | | |
| Printed Name | | Ben Ben | J. Argin | | 19 | Approved by | District Supervis | or: | | | | |
| Title: | Caluma de la | Project 1 | Man ager | BASIN ENVIRON | Merta! | Approval Dat | te: |] | Expiration | Date: | | |
| E-mail Addre | Sect TASeri | nie@BasaDat | com L | Targaijo & basan | د د مده د | Conditions of | f Annroyal: | | | | | |
| | 1.4/. | oie@Dassi et. | | | env ∠pn | georial trons or | г Арргочаг. | | | | | |
| Date: 2 | //9//3 | | Phone | 604) cua ar | <u> </u> | · · | | · | | | | |
| | | | | (BUO) 549 - 95 | 97 | | | 1 | | IVED | | |
| | | | | | | | | ן ר | IEVE | EIVED | | |
| | | | | | | | | | FEB 1 | 4 2013 | | |

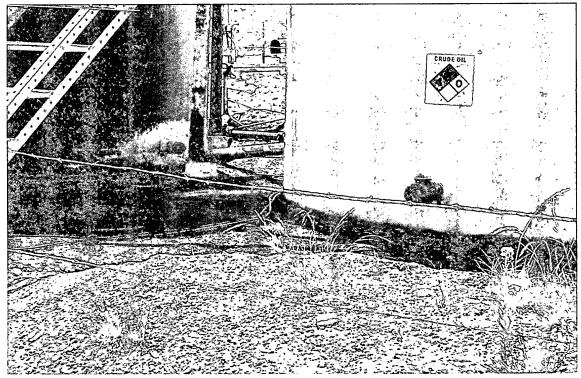
Appendix B
Photographs



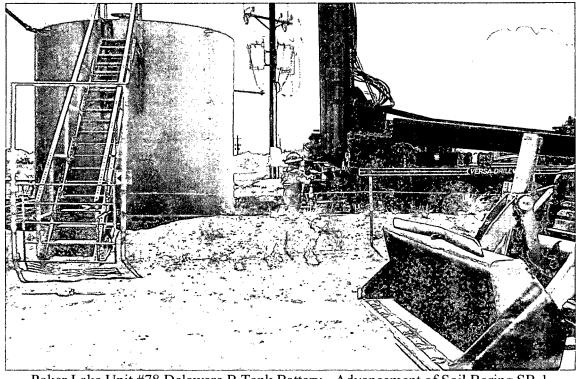
Poker Lake Unit #78 Delaware B Tank Battery



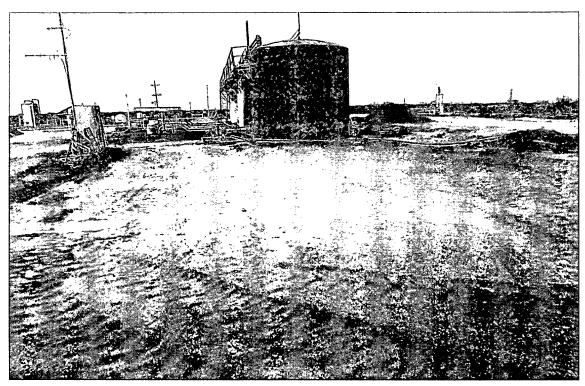
Poker Lake Unit #78 Delaware B Tank Battery - Release Site



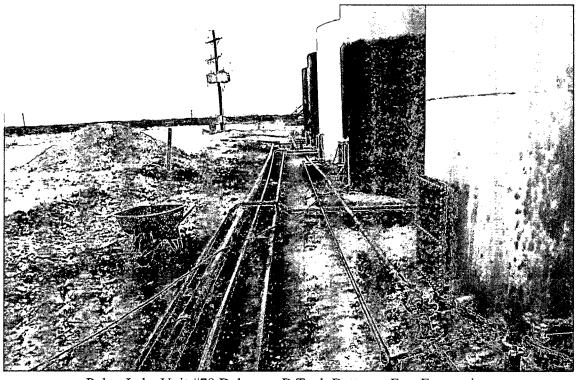
Poker Lake Unit #78 Delaware B Tank Battery - Release Site



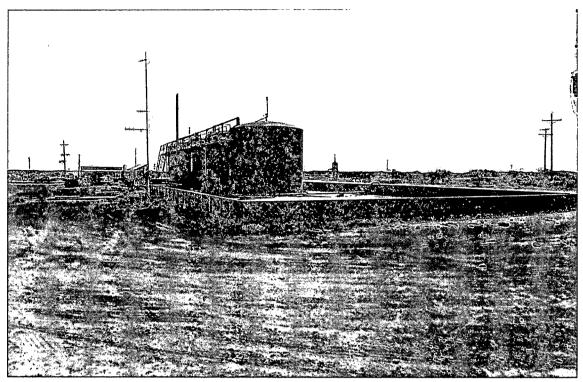
Poker Lake Unit #78 Delaware B Tank Battery - Advancement of Soil Boring SB-1



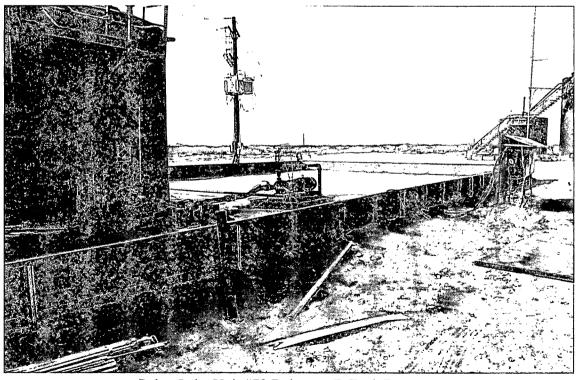
Poker Lake Unit #78 Delaware B Tank Battery - West Excavation (Following Backfill, Looking East)



Poker Lake Unit #78 Delaware B Tank Battery - East Excavation (Following Backfill, Looking West)

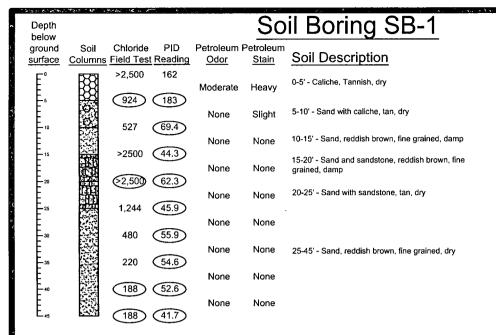


Poker Lake Unit #78 Delaware B Tank Battery - New Containment Area



Poker Lake Unit #78 Delaware B Tank Battery -New Containment Area & Polyurethane Liner

Appendix C Soil Boring Logs



Boring SB-1

May 25, 2010

Thickness of Bentonite Seat 45 Ft Depth of Exploratory Boring Ground Water Elevation Indicates the PSH level measured ▼.

Completion Notes

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

BOPCO

Basin Environmental Consulting

Prep By: JWL Checked By: CJB June 24, 2010

Appendix D Laboratory Analytical Reports



June 3, 2010

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

Re: Delaware B (BOPCO)

Enclosed are the results of analyses for sample number H19993, received by the laboratory on 05/28/10 at 8:20 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydrocarbons

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.2

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely.

Laboratory Director



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC

ATTN: CAMILLE BRYANT

P.O. BOX 381

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

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

Project Name: DELAWARE B

Project Location: EDDY CO., NM

Analysis Date: 06/01/10 Sampling Date: 05/25/10 Sample Type: SOIL

Sample Condition: COOL & INTACT @ -4°C

Sample Received By: JH

Analyzed By: HM

| | | CI_ |
|-------------|------------------|---------|
| LAB NO. | SAMPLE ID | (mg/kg) |
| H19993-1 | BACKGROUND | < 16 |
| H19993-3 | SB-1 @ 10' | 640 |
| H19993-4 | SB-1 @ 20' | 3,120 |
| H19993-6 | SB-1 @ 30' | 768 |
| H19993-7 | SB-1 @ 40' | 416 |
| H19993-8 | SB-1 @ 45' | 416 |
| | | |
| Quality Cor | itrol | 500 |
| True Value | QC | 500 |
| % Recover | / | 100 |
| Relative Pe | rcent Difference | < 0.1 |

| METHOD. Chandred Makhada | | ************************************** | , |
|-----------------------------------|--------------|--|-----------|
| METHOD: Standard Methods 4500-CIT | METHOD: Star | andard Methods | 4500-Cl*B |

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

Not accredited for Chloride.

Chemist

Date



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC

ATTN: CAMILLE BRYANT

P.O. BOX 381

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

Receiving Date: 05/28/10 Reporting Date: 06/01/10

Project Owner: BOPCO

Project Name: DELAWARE B
Project Location: EDDY CO., NM

Sampling Date: 05/25/10

Sample Type: SOIL

Sample Condition: COOL & INTACT @ -4 °C

Sample Received By: JH Analyzed By: AB/ZL

| LAB NO. SAMPLE ID | GRO (C ₆ -C ₁₀) (mg/kg) | DRO (>C ₁₀ -C ₂₈) (mg/kg) | DRO ext. (>C ₂₈ -C ₃₅) (mg/kg) | BENZENE (mg/kg) | TOLUENE (mg/kg) | ETHYL BENZENE (mg/kg) | TOTAL XYLENES (mg/kg) |
|-----------------------------|--|--|---|--------------------|--------------------|-----------------------------|-----------------------------|
| ANALYSIS DATE: | 05/28/10 | 05/28/10 | 05/28/10 | 05/28/10 | 05/28/10 | 05/28/10 | 05/28/10 |
| H19993-2* SB-1 @ 5' | 19.4 | 107 | <10.0 | <0.050 | 0.131 | 0.321 | 1.72 |
| H19993-5 SB-1 @ 25' | <10.0 | 32.8 | <10.0 | <0.050 | <0.050 | <0.050 | <0.300 |
| H19993-7 SB-1 @ 40' | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.300 |
| H19993-8 SB-1 @ 45' | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.300 |
| | | | | | | | |
| Quality Control | 469 | 435 | - | 0.019 | 0.020 | 0.022 | 0.066 |
| True Value QC | 500 | 500 | - | 0.020 | 0.020 | 0.020 | 0.060 |
| % Recovery | 93.8 | 87.0 | - | 95.0 | 100 | 110 | 110 |
| Relative Percent Difference | 0.5 | 7.2 | _ | 4.2 | 1.7 | 9.3 | 11.9 |

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

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

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

Lab Directo

Date

H19993 TPHextBTEX BASIN

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| Company Name | Basin Consulting Camille Bryant | | | | | | | | | B | ILL TO |) | | | | | ANA | LYSI | s RE | QUE | ST | | | |
|---------------------------------------|---|-------------------|--------------|-------------|-------------------|---------------------|---------------------|------------------|------------------|-------------------|---|----------------------|--------------|--------|---------------|----------|--------------|-----------------|------|--|-------|------------|---|---|
| Project Manage | F. Camille Bryant | | | | | | | P.C |). #: | | | | T | | | | | | | | | | | |
| Address: P.O. Box 381 | | | | | Company: BOP(0 | | | |] | | | | | | | | | | | | | | | |
| City: Loving for State: NM Zip: 88260 | | | | | Attn: Tony Savoie | | | | _ | | | | 1 | | | | | | | | | | | |
| Phone #: 575 | -605-7210 Fax#: | | | | | | | Add | dres | s: | | | 1 | | | | | | | 1 | | | | |
| Project #: | Project Owne | r: <i>P</i> | OΡ | 10 | | | | City: | | | | 1_ | | | | | | | | | | | | |
| Project Name: | | | | | | | | State: Zip: | | | | I X | | | | | | | | | | | | |
| | n: Eddy Co/NM | | | | | | | Phone #: | | | 1 | | | | | İ | | | | | | | | |
| Sampler Name: | Camille Bryant | | | | | | | Fax | #: | | | | † | م ا | ۵ | l | | | | | | | | |
| FOR LAB USE ONLY | | | | | M/ | ATRI. | ζ | | PRE | SER | V SAMF | LING | 8045 | 8021 b | 00511 | | | | | | İ | | | |
| | | ØWC O | | œ | | | | | | | 1 | | 80 | 8 | | | | | | l | | | | |
| | | õ | ERS | ATE | [| | | ı | | | į | | j | | -3 | | | l | | | | | | |
| Lab I.D. | Sample I.D. | ã G G | Z Z | ğ | X X | | ļ _{iji} | اۃ | ASE | 힝. | 2010 | | 1_ | ~ | 3 | | ļ | | | | | | | |
| | | (G)RAB OR (C)OMP. | # CONTAINERS | GROUNDWATER | WAST | ر ا | SLUDGE | OTHER: | ACID/BASE | ICE / COOL | 2 | | TPH | BTEX | Childriche | ١. | 1 | | 1 | ١. | | | | 1 |
| 1310002 1 | | <u>9</u> | # | Ö | 3 6 | 티티 | ß | 5 | ¥ | | 5 DATE 5/25 | | | 87 | $\overline{}$ | | | | | | 1 | | | |
| H19993-1 | Background 5B-1@5' | 6 | H | | +4 | - | \vdash | ┪ | \dashv | \ | _ | 915 | +,- | - | | | | | | | | | | |
| 3 | 3B-1@10' | 6 | <u>'</u> | H | 1 | + | \vdash | ┪ | _ | <u> </u> | 5/25 5/25 | 930 | +^ | | 1 | | | | | | | ļ | | |
| 4 | 313-1020' | b | + | \vdash | 1 | +- | \vdash | \dashv | \dashv | + | 5/25 | 455 | ╂── | | $\frac{1}{I}$ | | | | | | - | | | |
| | | b | - | | V | | | 1 | \dashv | χ | 5/25 | 1005 | 1 | X | | | <u> </u> | | | | | | | |
| lo | 3B-1030' | 6 | + | | 17 | 1 | | 1 | \top | | 5/25 | 1015 | | | 人 | | | | | | | | | |
| | 38-1040' | b | T | | 17 | 1 | | 1 | 十 | (| 5/25 | 1025 | X | 7 | ٨ | <u> </u> | | 1 | | | 1 | | | |
| Ŕ | 3B-1@U5' | b | 1 | | 1 | | П | | | y | 5/25 | 1030 | X | X | X | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| analyses. All claims includir | id Damages. Cardinal's liabilay and client's exclusive remedy for a ng those for negligence and any other cause whatsoever shall be o | eemed | wan: | ed unle: | s made | in writts | ng and | receive | ed by (| Cardina | I within 30 days | fter completion of | the applicat | ale . | | | | | | | | | | |
| affiliates or successors engi | ardinal be flablo for incidental or consequental damages, including ng out of or related to the performance of services hereunder by C | ardinat | regar | dless o | whethe | ntemup: r such | ions, lo taim is | ss of c basec | ise, or Lupon | loss of any of | profits incurred to the above stated | reasons or otherw | ise. | | | | | | | | | | | |
| Relinquished By | | Re | ceiv | ed E | iy: | | | | | | | Phone Re Fax Resu | | ☐ Ye | | No No | Add'I | Phone Fax #: | #: | ······································ | ····· | ·········· | | |
| 3000 100 | Time: | | | | | | | | | | | REMARK | S: | | | | | | | | | | | |
| Relinquished By | | Re | ceiv | ed E | y: | ı | ; | | | | | 1 | | | | | | | | | | | | |
| | 140e: 20 | | <u>()</u> | de | _ A | , 1 | U, | M. | 1 | 02 | 1 | | | | | | | | | | | | | |
| Delivered By: | (Circle One) | 7 | ` <u> </u> | s | ample | Col | nditio | n | C | HEC | KED BY: | 1 | | | • | | | | • | | | | • | |
| Sampler - UPS | - Bus - Other: | ص ح | | C | 90 | rinta s ☐ o ☐ | Yes No | | | 4 | W | | | | | | | | | | | | | |



October 25, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: DELAWARE B

Enclosed are the results of analyses for samples received by the laboratory on 10/19/11 15:30.

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



Analytical Results For:

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

Fax To:

Received:

10/19/2011

Reported: Project Name: 10/25/2011 **DELAWARE B**

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

10/14/2011

Sampling Type:

Sampling Condition:

Soil Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #1 (H102263-01)

TPH 8015M

Analyzed By: AB

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| GRO C6-C10 | 3200 | 50.0 | 10/22/2011 | ND | 182 | 91.1 | 200 | 3.87 | |
| DRO >C10-C28 | 7970 | 50.0 | 10/22/2011 | ND | 172 | 86.1 | 200 | 4.36 | |
| EXT DRO >C28-C35 | 640 | 50.0 | 10/22/2011 | ND | | | | | |

Surrogate: 1-Chlorooctane 128 % 55.5-154 Surrogate: 1-Chlorooctadecane 106 % 57.6-158

Sample ID: SAMPLE #2 (H102263-02)

| TPH 8015M | mg/ | kg | Analyze | d By: AB | | | | | |
|-------------------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 10/22/2011 | ND | 182 | 91.1 | 200 | 3.87 | |
| DRO >C10-C28 | 12.2 | 10.0 | 10/22/2011 | ND | 172 | 86.1 | 200 | 4.36 | |
| EXT DRO >C28-C35 | <10.0 | 10.0 | 10/22/2011 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 94.7 9 | % 55.5-15 | :4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 101 % | 6 57.6-15 | 8 | | | | | | |

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 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

Celey D. Keene



Analytical Results For:

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

Fax To:

(575) 396-1429

Received:

10/19/2011 10/25/2011 Sampling Date:

10/14/2011

Soil

Reported:

DELAWARE B

Sampling Type: Sampling Condition:

Cool & Intact

Project Name: Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SAMPLE #3 (H102263-03)

| TPH 8015M | mg/l | kg | Analyze | d By: AB | | | | | |
|----------------------------------|--------|--------------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | 690 | 10.0 | 10/22/2011 | ND | 182 | 91.1 | 200 | 3.87 | |
| DRO >C10-C28 | 1380 | 10.0 | 10/22/2011 | ND | 172 | 86.1 | 200 | 4.36 | |
| EXT DRO >C28-C35 | 90.1 | 10.0 | 10/22/2011 | ND | | | | | |
| Surrogate: 1-Chlorooctane 99.9 % | | 6 55.5-15 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 106 % | 6 57.6 -1 5 | 8 | | | | | | |

Sample ID: SAMPLE #4 (H102263-04)

| TPH 8015M | mg/l | (g | Analyze | d By: AB | | | | | |
|-------------------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | 239 | 10.0 | 10/22/2011 | ND | 182 | 91.1 | 200 | 3.87 | |
| DRO >C10-C28 | 1600 | 10.0 | 10/22/2011 | ND | 172 | 86.1 | 200 | 4.36 | |
| EXT DRO >C28-C35 | 116 | 10.0 | 10/22/2011 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 102 % | 55.5-15 | 4 | - | | | | | |
| Surrogate: 1-Chlorooctadecane | 93.0 % | 57.6-15 | 8 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keine Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| | (575) 393-2326 FAX | | | | | | | T | - and and special | | | | | | **** | | | | | | | | |
|---|--|--|---------------------|--------------------------|-----------------------|------------------------------|------------------------|--------------------|---|--|--|----------------------------------|----------------------|--------------|-------------|----------------|----------------|------------|----------------|--|-------|---------|------|
| Company Name | Busin Environm | centul Serv | ice | Teci | nol | 5:05 | llC | | | BI | LL TO | | · | | | | ANAI | LYSIS | S RE | QUE | ST | γ | |
| Project Wanage | r: Ben J Arguijo | | | | | | , | ₩- | D. #: | | | | | | | | 1 | | | | | | |
| Address: P.O. | BOX 301 | | | | | | | Сo | mpa | ny: | BOPCO, L | <u>.P</u> | | | | | 1 | | | | | | |
| | g tow | | | | | 0 | | Att | n: 7 | ony | Savoie | | | | | | 1 | | 1 | | | | |
| Phone #: (575 | 5 396.2378 | Fax #: (575) | 396 | .142 | ?9 | | ***** | Ad | dres | s: 5 | 22 W.77 | ermod | | | | | | | | | | | |
| Project #: | | Project Owner | r: <u>B</u> | OPC | o, Lf |) | | Cit | y: (| Car | 15 bad | | | | | 1 | | | | | | | |
| Project Name: | belanare | (5) | | 777 17 Named at 1199 | | | | Sta | ite: ^ | 1 M | Zip: 88 | 2 20 | | | | | | | | | | | |
| Project Location | n: | | | | | | | Ph | one i | #:(4 <u>:</u> | 32)556.8 | 7730 | | | | | | | - | | | | |
| Sampler Name: | · | | | | | | | Fa | | - | | | | | | | 1 | | | | | | |
| FOR LAB USE ONLY | | | Π | Π | | MATE | RIX | | PRE | SERV | SAMPL | NG | | W. | 1 | | | İ | | | | | |
| Lab I.D. | Sample I.I | D . | C)(G)RAB OR (C)OMP. | # CONTAINERS | WASTEWATER | 31 | UDGE | HER: | ACID/BASE: | OTHER: | | | 8015M | Haldfor BTEX | | | | | | | | | |
| 11102263 | | | 9 | # 0 | 5 \$ | | <u> </u> | 5 | | | | TIME | | | ļ | ┼ | ļ | <u> </u> | <u> </u> | . . | | | |
| <u> </u> | SAmple #1 Sumple #2 Sample #3 Sample #4 | | | | - | Y | - | | | χ | 10/14/101 | | X X | X | | | . | | | ļ | | | |
| - 2 | Sumple # Z | | 6 | - | | X Y | | \vdash | | y | 10/14/11 | l . | Ą | ¥ | | - | | ļ | | ļ | | | |
| 5 | Sample #3 | | - | - | - | V | | \vdash | *************************************** | y | 10/14/11 | 10:40 | X | X X | | | | | ļ | | | | |
| | Dample #7 | | | - | | +'+ | | \vdash | | <u>} </u> | 10/14/11 | 10:45 | χ | <u> </u> | ***** | | - | ļ. — | - | | | | |
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| | | | | | 1 | $\dagger \dagger$ | + | | | + | | | | | | | | | | | | | |
| analyses. All claims includin service. In no eventshall C atiliates or successors arisi | d Damages. Cardinat's liability and clien ng those for negligence and any other ca addinal be liable for incidental or consequ ng out of or related to line performance o | use whatsoever shall be d rental damages, including | deeme | d waived at limitatio | unless : in, busir | nade in v lesa inten | miting an ruptions, | d recei loss of | ved by C luse, or | Cardinal loss of p | within 30 days after rofits incurred by | er completion of the | ne applicat ries, | ole | | | <u> </u> | | | | | <u></u> | |
| Relinguished B | | Time: 30 | 4 | Ceive Ceive | r. U | ار ترسید: | le, | W | 1.10 | U | + | Phone Re Fax Resul REMARKS | t: 3: | □ Ye | s [| No No | Add'I Add'I | | | asine | nv.co | ~ œ | |
| Relinguished By | | Date: Time: | KE | ceive | а Ву | ' | | | | | | | | | | | t.com | | , -6 | | | | |
| _ | : (Circle One) - Bus - Other: | 7 | 2.5 | 30 | Co | nple C ol Ir Yes No | tact | | C | | (ED BY: | | | | | | | | | | | | |



November 06, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: DELAWARE B

Enclosed are the results of analyses for samples received by the laboratory on 10/20/11 16:20.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Method SW-846 8260

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.

Celey 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:

10/20/2011

10/20/2011

Reported:

11/06/2011

Soil

Project Name:

DELAWARE B

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Sampling Date:

Jodi Henson

Project Location:

EDDY CO., NM

Sample ID: SAMPLE 3A 10' BGS (H102279-01)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/02/2011 | ND | 2.23 | 112 | 2.00 | 1.14 | |
| Toluene* | <0.050 | 0.050 | 11/02/2011 | ND | 2.17 | 109 | 2.00 | 2.23 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/02/2011 | ND | 2.12 | 106 | 2.00 | 2.41 | |
| Total Xylenes* | <0.150 | 0.150 | 11/02/2011 | ND | 6.37 | 106 | 6.00 | 3.43 | |
| Surrogate: 4-Bromofluorobenzene (PIL | 87.7 | % 64.4-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg, | 'kg | Analyze | d By: HM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4800 | 16.0 | 11/06/2011 | ND | 464 | 116 | 400 | 3.51 | |
| 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 | 10/23/2011 | ND | 181 | 90.6 | 200 | 3.21 | |
| DRO >C10-C28 | 36.6 | 10.0 | 10/23/2011 | ND | 167 | 83.5 | 200 | 3.42 | |
| EXT DRO >C28-C35 | <10.0 | 10.0 | 10/23/2011 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 100 | % 55.5-15 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 103 | % 57.6-15 | 8 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



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

Fax To:

(575) 396-1429

Received:

10/20/2011

Sampling Date:

10/20/2011

Reported:

11/06/2011

Sampling Type:

Soil

Project Name: Project Number: DELAWARE B NONE GIVEN Sampling Condition:

Cool & Intact

Project Location:

EDDY CO., NM

Sample Received By:

Jodi Henson

Sample ID: SAMPLE 4A 6' BGS (H102279-02)

| 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 | 10/23/2011 | ND | 181 | 90.6 | 200 | 3.21 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/23/2011 | ND | 167 | 83.5 | 200 | 3.42 | |
| EXT DRO >C28-C35 | <10.0 | 10.0 | 10/23/2011 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 92.8 9 | % 55.5-15 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 104 % | % 57.6-15 | 8 | | | | | | |

Sample ID: TANK 5 SOUTH (H102279-03)

| TPH 8015M | mg/kg | | Analyzed By: AB | | | | | | |
|-------------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <50.0 | 50.0 | 10/23/2011 | ND | 181 | 90.6 | 200 | 3.21 | |
| DRO >C10-C28 | 643 | 50.0 | 10/23/2011 | ND | 167 | 83.5 | 200 | 3.42 | |
| EXT DRO >C28-C35 | 104 | 50.0 | 10/23/2011 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 99.3 % | 6 55.5-15 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 108 % | 6 57.6-15 | 8 | | | | | | |

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Celey & Keene



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

Fax To: (575) 396-1429

Received: Reported: 10/20/2011

11/06/2011

Project Name: Project Number: DELAWARE B NONE GIVEN

Project Location:

EDDY CO., NM

Sampling Date:

sampling Date:

10/20/2011

Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact

By:

Jodi Henson

Sample ID: TANK 4 SOUTH (H102279-04)

| TPH 8015M | mg/l | kg . | Analyze | d By: AB | | | | | S-04 |
|-------------------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | 1440 | 100 | 10/23/2011 | ND | 181 | 90.6 | 200 | 3.21 | |
| DRO >C10-C28 | 19300 | 100 | 10/23/2011 | ND | 167 | 83.5 | 200 | 3.42 | |
| EXT DRO >C28-C35 | 1510 | 100 | 10/23/2011 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 172 % | 55.5-15 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 95.3 % | 6 57.6-15 | 8 | | | | | | |

Sample ID: TANK 3 SOUTH (H102279-05)

| TPH 8015M | mg/l | kg . | Analyze | d By: AB | | | | | S-04 |
|-------------------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | 1920 | 100 | 10/23/2011 | ND | 181 | 90.6 | 200 | 3.21 | |
| DRO >C10-C28 | 24600 | 100 | 10/23/2011 | ND | 167 | 83.5 | 200 | 3.42 | |
| EXT DRO >C28-C35 | 2030 | 100 | 10/23/2011 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 204 % | 55.5-15 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 112 % | 57.6-15 | 8 | | | | | | |

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Celey D. Keene



Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Celeg & Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| Company Name | Basin Environmental Service | rechnologies LLC | BILL TO | ANALYSIS REQUEST |
|----------------------------------|---|--|---|--|
| Project Manage | r: Ben J Arguigo | | P.O. #: | |
| Address: P | D. BOX 301 | | Company: Bapco LP | |
| City: د | vington State: 77 | Zip: 88260 | Attn: Tony Savoie | |
| | 396-2378 Fax#:(575) | | Address: 572 W. Mermod | |
| Project #: | | r: BOPCO LP | City: Carlsbad | |
| Project Name: | Delaware 3 | | State: NM Zip: 8822D | |
| | EDDY NM. | | Phone #:(432) 556-8730 | |
| | Jody Walters | | Fax #: | |
| FOR LAB USE ONLY | | MATRIX | PRESERV SAMPLING | New Control of the co |
| Lab I.D. A1021219 -1 -2 -3 -4 -5 | Sample I.D. Sample 3A 10'865 Sample 4A 6' 865 Tank 5 South Tank 84 South Tank 3 South | Containers Con | | XXXX BOISM XXXX BETHOLD FOR |
| PLEASE NOTE: Lidbility or | of Damages. Cardinal's liability and client's exclusive remony for | any claim anging whether haved in cootsa | of or tott shall be limited to the amount paid by the stant for | M tha |
| anulyses. All clajing includis | ny those for negligence and any other cause whatsoever shall be profinal be liable for incidental or consequental damages, including | deemed waived unless made in writing a | nid received by Cardinal within 30 days after completion of th | the applicable |
| Relinguished By | ng out of or related to the performance of services hereunder by | Cardinal, regardless of whether such claim | n is based upon any of the above stated reasons or otherwis | ise. |
| locky |) a Time 7.70 | Acdi Me | AND REMARKS | ılt: ☐ Yes ☐ No Add'l Fax #: |
| Relinquished By | /: Date: | Received By: | 24 C MAYON WAY OF F | |
| | Time: | • | | |
| Delivered By | (Circle One) | Sample Condi | | |
| Sampler - UPS | - Bus - Other: | Cool Intact Yes Yes No No N | (nitials) | |



November 06, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: DELAWARE B

Enclosed are the results of analyses for samples received by the laboratory on 11/01/11 16:12.

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 & Keens

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:

11/01/2011 11/06/2011

Sampling Date: Sampling Type: 10/31/2011

Soil

Reported: Project Name:

DELAWARE B NONE GIVEN

Sampling Condition:

Cool & Intact

Project Number:

Sample Received By:

Jodi Henson

Project Location:

EDDY CO., NM

Sample ID: SAMPLE #5 (H102369-01)

| Chioride, SM450UCI-B | mg. | /kg | Analyze | d By: AP | | | | | |
|---------------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 336 | 16.0 | 11/04/2011 | ND | 448 | 112 | 400 | 3.64 | |
| 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 | 11/05/2011 | ND | 162 | 81.1 | 200 | 2.02 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/05/2011 | ND | 169 | 84.6 | 200 | 5.33 | |
| EXT DRO >C28-C35 | <10.0 | 10.0 | 11/05/2011 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 103 | % 55.5-15 | 4 | | | | | | |

Surrogate: 1-Chlorooctadecane

123 %

57.6-158

Sample ID: TANK 2 NORTH (H102369-02)

| TPH 8015M | mg/l | kg | Analyze | d By: CK | | | | | |
|-------------------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 11/05/2011 | ND | 162 | 81.1 | 200 | 2.02 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/05/2011 | ND | 169 | 84.6 | 200 | 5.33 | |
| EXT DRO >C28-C35 | <10.0 | 10.0 | 11/05/2011 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 111 % | 55.5-15 | 4 | | | | | | **** |
| Surrogate: 1-Chlorooctadecane | 141 % | 57.6-15 | 8 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



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

Fax To: (575) 396-1429

Received:

11/01/2011

Sampling Date:

10/31/2011

Reported:

11/06/2011

Sampling Type:

Soil

Project Name: Project Number: DELAWARE B NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Location:

EDDY CO., NM

Sample ID: TANK 4 NORTH (H102369-03)

| 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 | 11/05/2011 | ND | 162 | 81.1 | 200 | 2.02 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/05/2011 | ND | 169 | 84.6 | 200 | 5.33 | |
| EXT DRO >C28-C35 | <10.0 | 10.0 | 11/05/2011 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 111% | 55.5-15 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 130 % | 57.6-15 | 8 | | | | | | |

Sample ID: TANK 5 NORTH (H102369-04)

| 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 | 11/05/2011 | ND | 162 | 81.1 | 200 | 2.02 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/05/2011 | ND | 169 | 84.6 | 200 | 5.33 | |
| EXT DRO >C28-C35 | <10.0 | 10.0 | 11/05/2011 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 111 9 | % 55.5-15 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 134 9 | % 57.6-15 | 8 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. 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 To | echologies LLC | BILL TO | | ANAL | YSIS REQUE | ST |
|--|---|--|-----------------------------|---------------------------|------------------|----|
| Project Manager: Ben J. Applie | P.O. #: | | | | | |
| Address: PO.Box 30/ | Company | 1: Bopco, LP | | | | |
| City: Louington State: TM Zip: | : 88260 Attn: To | ny Savoie | | | | |
| Phone #: (575) 396 - 2378 Fax #: 575 - 396 | 1429 Address: | 527. W. Mermod | | | | |
| Project #: Project Owner: Bo | epeo, LP City: (| arlsbad | | | | |
| Project Name: Delaware 3 | | 1/1 Zip: 88220 | | | | |
| Project Location: EDDY NM. | Phone #: | 432.556-8730 | | | | |
| Sampler Name: Jody Walters | Fax #: | | | | | |
| FOR LAB USE ONLY | MATRIX PRESE | RV. SAMPLING | | | | |
| Lab I.D. Sample I.D. HID 2369 | # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SILUDGE OTHER: ACID/BASE: | OTHERS: | 8015TM Chlorides | | | |
| I SAMPLE #5 G | 1 | 1031-11 8.00 | XX | | | |
| 2 Tank 2 North G | \ | 10-31-11 8:05 | <u> </u> | | | |
| 3 Tank 4 North 6 | $\frac{\lambda}{\lambda}$ | 10.31.11 8:10 | X | | | |
| 4 Tank 5 North 61 | | 10-31-11 8:15 | <i>!</i> . | | | |
| | | | | | | |
| | | The state of the s | | | *** | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Relinquished By: Date: Time: Delivered By: (Circle One) | waived unless made in withing and received by Can- imitation, business interruptions, loss of use, or los- regardless of whether such claim is based upon and ceived By: Sample Condition Cool Intact Yes Ives | chall within 30 days after completion of the soft profits incurred by client, its substidiary of the above stated reasons or otherwise phone Res Fax Result REMARKS ECKED BY: ((Initials) | e applicable ites. e. sult: | □ No Add'l P □ No Add'l F | hone #: ax #: | Pa |