

Basin Environmental Service Technologies, LLC

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REMEDIATION SUMMARY AND RISK-BASED SITE CLOSURE REQUEST

**BOPCO, LP
POKER LAKE UNIT #158
Eddy County, New Mexico
Unit Letter "A" (NE/NE), Section 7, Township 24 South, Range 30 East
Latitude 32.237400° North, Longitude 103.914150° West
NMOCD Reference # 2RP-717**

Prepared For:

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

Prepared By:

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

June 2012

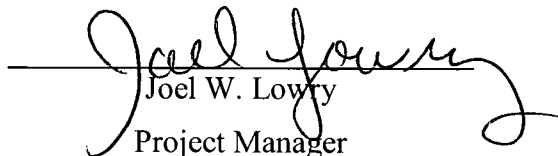

Joel W. Lowry
Project Manager

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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 and Site Closure Request* for the release site known as Poker Lake Unit #158 (PLU #158 Battery). 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 32.237400° North latitude and 103.914150° 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" and Figure 2 for a "Site & Sample Location Map".

On March 21, 2011, BOPCO discovered a release had occurred at the PLU #158 Battery. The release was attributed to the failure a water transfer pump. The release was reported to the New Mexico Oil Conservation Division (NMOCD) Artesia District Office on March 21, 2011. The "Release Notification and Corrective Action" (Form C-141) indicated approximately two hundred thirty (230) barrels of produced water was released, with approximately two hundred (200) barrels being recovered. During initial response activities, a vacuum truck was utilized to recover free-standing fluids, and heavily saturated material was excavated and stockpiled on-site pending final disposition. The release affected an area measuring approximately four thousand, five hundred square feet (4,500 ft²) within the earthen containment. Misting and overspray from the release affected approximately two thousand square feet (2,000 ft²) of caliche well pad outside the earthen containment. A Form C-141 is provided as Appendix A. General Photographs of the release site are provided as Appendix B.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information was unavailable for Section 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 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 one thousand feet (1,000') of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

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

NMOCD guidelines indicate the PLU #158 Battery 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

On April 20, 2011, delineation activities commenced at the PLU #158 Battery release site. A hand-auger was utilized to advance five (5) soil borings (SB-4-20-1, SB-4-20-2, SB-4-20-3, SB-4-20-4 and SB-4-20-5) to approximately four feet (4') bgs within the earthen containment. During the advancement of the soil borings, fifteen (15) soil samples (SB-4-20-1 Surface, SB-4-20-1 2' bgs, SB-4-20-1 4' bgs, SB-4-20-2 Surface, SB-4-20-2 2' bgs, SB-4-20-2 4' bgs, SB-4-20-3 Surface, SB-4-20-3 2' bgs, SB-4-20-3 4' bgs, SB-4-20-4 Surface, SB-4-20-4 2' bgs, SB-4-20-4 4' bgs, SB-4-20-5 Surface, SB-4-20-5 2' bgs and SB-4-20-5 4' bgs) were collected. Soil samples were submitted to Cardinal Laboratories of Hobbs, New Mexico for analysis of total petroleum hydrocarbon (TPH) by EPA Method SW-846 8015M, chloride concentrations by EPA Method 4500 Cl-B and/or benzene, toluene, ethylbenzene, xylene (BTEX) by EPA Method SW-846 8021B. Table 1 summarizes "Concentrations of BTEX, TPH & Chloride in Soil". Laboratory analytical reports are provided as Appendix C.

Laboratory analytical results indicated TPH concentrations ranged from 484.4 mg/Kg for soil sample SB-4-20-4 2'bgs to 16,460 mg/Kg for soil sample SB-4-20-2 2' bgs. Analytical results indicated chloride concentrations ranged from 30,800 mg/Kg for soil sample SB-4-20-4 Surface to 224 mg/Kg for soil sample SB-4-20-2 4' bgs. Analytical results indicated chloride concentrations ranged from 224 mg/Kg for soil sample SB-4-20-2 4' bgs to 30,800 mg/Kg for soil sample Sb-4-20-4 Surface. Soil samples SB-4-20-2 4'bgs and SB-4-20-5 4' bgs were also analyzed for BTEX concentrations, which were determined to be 74.87 and 104.45, respectively,

Between March 16 and March 28, 2011, the area within the earthen containment was hand-excavated to approximately two feet (2') bgs. Further excavation within the earthen containment was impracticable due to the presence and proximity of numerous active pipelines and/or storage tanks.

On April 26, 2011, a hand-augered soil boring was advanced within the earthen containment to investigate the vertical extent of soil impact. The soil boring was advanced until it met refusal at approximately twelve (12') feet bgs. During the advancement of the soil boring, four (4) soil samples (SB-4 @ 6', SB-4 @ 8', SB-4 @ 10' and SB-4 @12') were collected and submitted to the laboratory for analysis of benzene, toluene, ethylbenzene and xylene (BTEX) by EPA Method SW-846 8021b, TPH and/or chloride concentrations.

Laboratory analytical results indicated soil samples SB-4 @ 6' and SB-4 @ 12' exhibited BTEX concentrations of 27.64 mg/Kg and less than the laboratory method detection limit (MDL) of 0.15 mg/Kg, respectively. Analytical results indicated TPH concentrations ranged from 61.1 mg/Kg for soil sample SB-4 @ 12' to 5,008 mg/Kg for soil sample SB-4 @ 6'. Analytical results indicated the chloride concentration for soil sample SB-4 @ 12' was 2,840 mg/Kg.

A drilling rig was not dispatched to the location due to its inability to adequately delineate the area within the earthen containment during remediation activities associated with the March 8, 2010, release. During the advancement of the soil boring on May 24, 2010, circulation was last

and the bore hole collapsed at approximately seventy feet (70') bgs. Several attempts were made to stabilize the boring without success. The NMOCD Artesia Office was notified of the incident. Please reference the Poker Lake Unit #158 (2RP-400) *Remediation Summary and Risked-Based Closure Strategy* dated August 2010 for details of previous delineation activities.

On or around April 20, 2011, the excavated area within the earthen containment was backfilled with non-impacted material to approximately eighteen inches (18") bgs. A new containment area was constructed around the PLU #158 Battery, which includes steel perimeter walls extending 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 of the containment area were coated with an impermeable, spray-on polyurethane liner. This engineering control will help mitigate any future releases and inhibit the vertical migration of contaminants in impacted soil remaining in-situ beneath the PLU # 158 Tank Battery.

On October 12, 2011, remediation of impacted soil outside the earthen containment west of the PLU # 158 Battery commenced. A Photo-Ionization Detector (PID) and chloride field test kit were used to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The excavated soil was stockpiled on-site pending final disposition.

On October 13, 2011, eight (8) confirmation soil samples (Sample #1, Sample #2, Sample #3, Sample #4, Sample #5, Sample #6, Sample #7 and Sample #8) were collected from the floor and sidewalls of the excavation east of the PLU # 158 Battery and submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated TPH concentrations were less than the appropriate laboratory method detection limit (MDL) for each of the soil samples submitted. Chloride concentrations ranged from less than the laboratory MDL for soil samples "Sample #4" and "Sample #5" to 544 mg/Kg for soil sample "Sample #7." TPH and chloride concentrations were less than NMOCD regulatory remediation action levels established for this site in each of the submitted soil samples.

Approximately nine hundred forty cubic yards (940 yd³) of impacted material was transported to Lea Land, LLC (NMOCD Permit #WM-01-035), for disposal. The final dimensions of the excavation west of the PLU # 158 Battery were approximately ninety feet (90') in length, approximately sixty feet (60') in width, and ranged in depth from approximately four feet (4') to approximately six feet (6') bgs.

On October 17, 2011, upon receiving verbal approval from an NMOCD representative, the excavated area was backfilled with locally purchased, non-impacted material and compacted in twelve inch (12") lifts. Following the backfilling of the excavation, areas affected by remediation activities were contoured to fit the needs of the well pad.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil samples were delivered to Cardinal Laboratories, Inc., in 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 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

Soil samples collected from the floor and sidewalls of the excavation west of the PLU #158 Battery were analyzed by an NMOCD-approved laboratory, and concentrations of TPH and chloride were below the regulatory remediation action levels established for the site.

An impermeable, spray-on polyurethane liner was installed on the floor and perimeter walls of the new steel containment area constructed around the PLU #158 Battery. This engineered control will help mitigate future releases and inhibit vertical migration of contaminants in contaminated soil remaining in-situ beneath the footprint of the tank battery and containment area. Soil exhibiting concentrations of contaminants in excess of the NMOCD regulatory standards will be addressed following decommission and/or abandonment of the currently active tank battery.

Basin recommends BOPCO provide the NMOCD Artesia District Office and the BLM Carlsbad Field Office a copy of this *Remediation Summary and Risk-Based Site Closure Request* and request the NMOCD grant closure to the Poker Lake Unit #158 release site.

6.0 LIMITATIONS

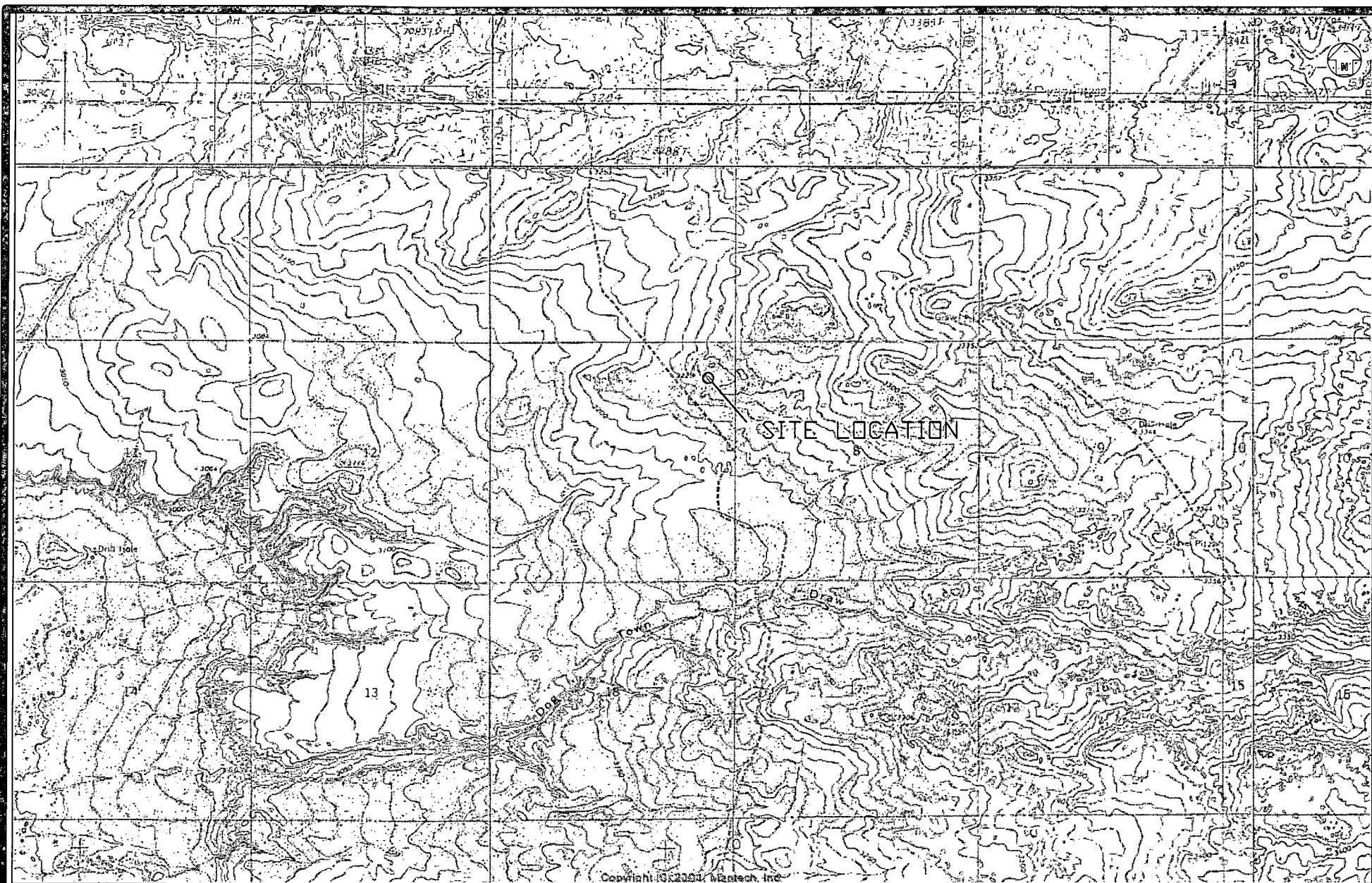
Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary & Risk-Based Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin has examined and relied upon documents referenced in the report and on oral statements 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



3000 1500 0 1500 3000
 Distance in Feet

Figure 1
 Site Location Map
 BOPCO, LP
 Poker Lake Unit #158
 Eddy County, New Mexico

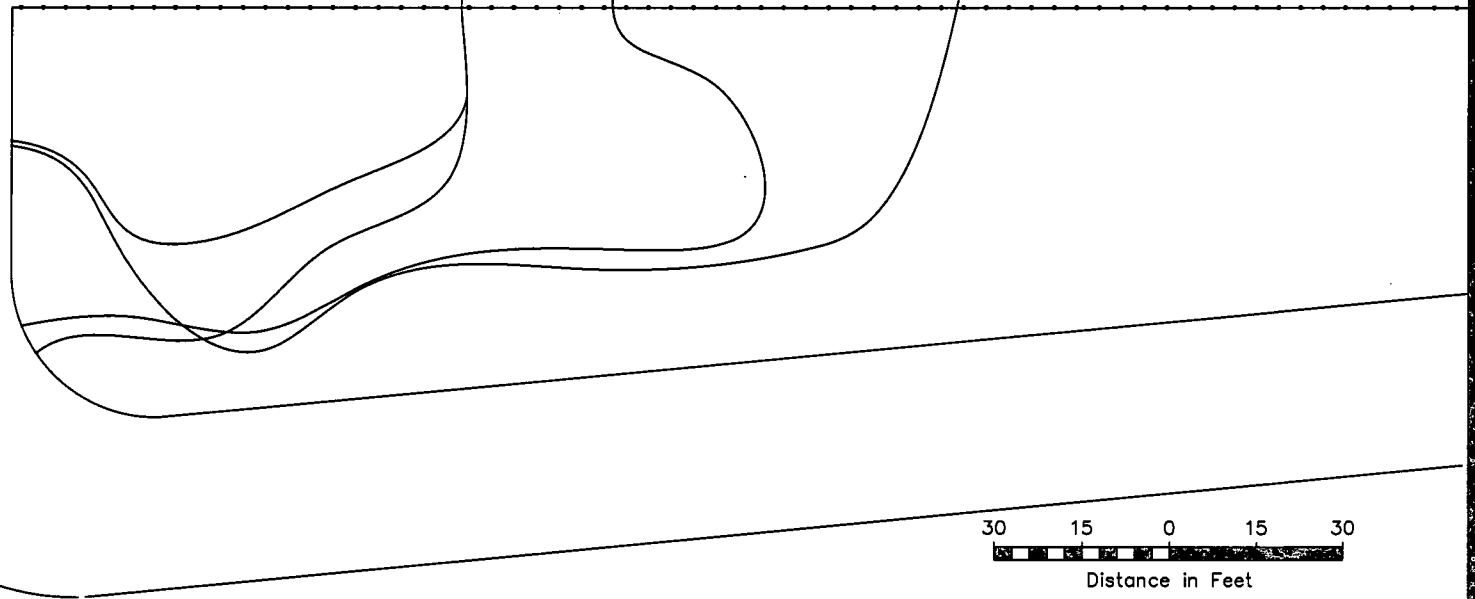
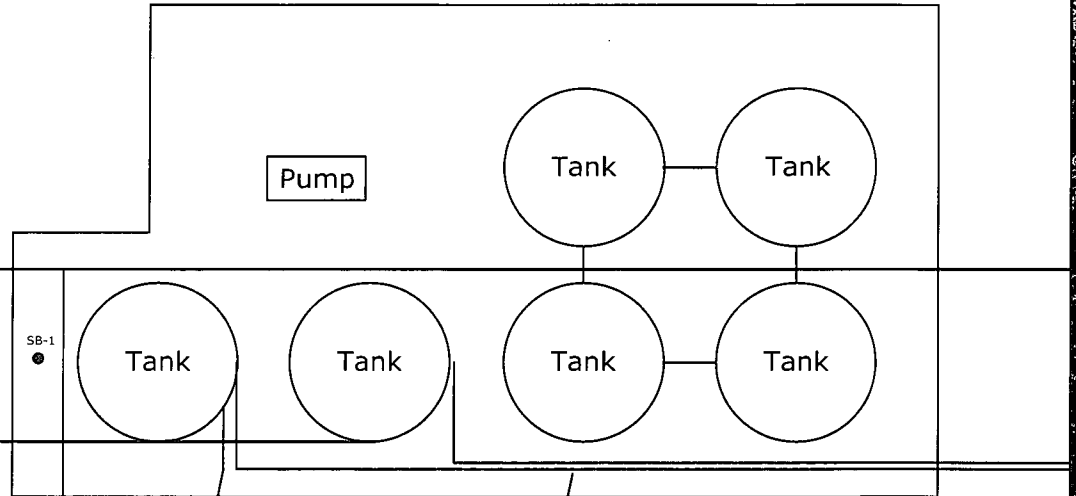
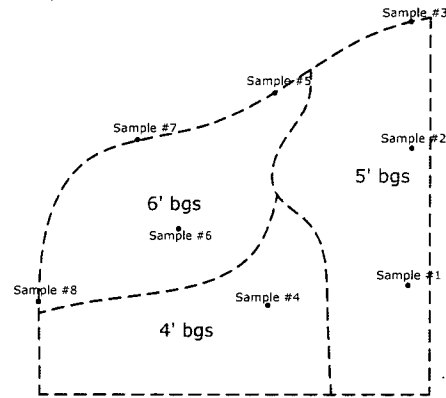
Basin Environmental Service Technologies

Prep By: JWL	Checked By: BJA
August 23, 2012	Scale 1"=3000'



PLU #158 Well Pad

Oilfield Access Road



Legend:

- Excavation Extents
- Flowline
- Sample Point
- ← Well Pad
- Soil Boring 5/24/10

Figure 2
Site & Sample Location Map
BOPCO, L.P.
Poker Lake Unit # 158 Battery
Eddy County, New Mexico
NMOCD Ref # 2RP-717

Basin Environmental Services

Prep By: JWL

Checked By: BJA

May 29, 2012

Scale 1"=30'

TABLES

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDES IN SOIL

BOPCO, LP
 POKER LAKE UNIT 158 BATTERY
 EDDY COUNTY, NEW MEXICO
 NMOCD REFERENCE NO: 2RP-717

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M			TOTAL TPH C ₆ -C ₃₅ (mg/Kg)	SM 4500 CI-B CHLORIDE (mg/Kg)
				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)		
SB - 4 - 20 - 1 Surface	Surface	4/20/2011	Excavated	-	-	-	-	-	1,290	6,200	535	8,025	17,200
SB - 4 - 20 - 1 2' bgs	2'	4/20/2011	Excavated	-	-	-	-	-	1,140	3,470	267	4,877	16,000
SB - 4 - 20 - 1 4' bgs	4'	4/20/2011	In-situ	-	-	-	-	-	2,640	6,170	402	9,212	6,560
SB - 4 - 20 - 2 Surface	Surface	4/20/2011	Excavated	-	-	-	-	-	2,320	8,990	676	11,986	8,400
SB - 4 - 20 - 2 2' bgs	2'	4/20/2011	Excavated	-	-	-	-	-	1,950	13,500	1,010	16,460	272
SB - 4 - 20 - 2 4' bgs	4'	4/20/2011	In-situ	6.37	11.6	10.7	46.2	74.87	1,450	12,100	1,030	14,580	224
SB - 4 - 20 - 3 Surface	Surface	4/20/2011	Excavated	-	-	-	-	-	553	2,990	262	3,805	7,800
SB - 4 - 20 - 3 2' bgs	2'	4/20/2011	Excavated	-	-	-	-	-	1,600	4,980	363	6,943	5,440
SB - 4 - 20 - 3 4' bgs	4'	4/20/2011	In-situ	-	-	-	-	-	2,100	6,030	429	8,559	5,440
SB - 4 - 20 - 4 Surface	Surface	4/20/2011	Excavated	-	-	-	-	-	2,570	12,700	934	16,204	30,800
SB - 4 - 20 - 4 2' bgs	2'	4/20/2011	Excavated	-	-	-	-	-	34.9	412	37.5	484.4	6,480
SB - 4 - 20 - 4 4' bgs	4'	4/20/2011	In-situ	-	-	-	-	-	54.6	642	52.7	749.3	6,080
SB - 4 - 20 - 5 Surface	Surface	4/20/2011	Excavated	-	-	-	-	-	1,320	6,710	542	8,572	8,320
SB - 4 - 20 - 5 2' bgs	2'	4/20/2011	Excavated	-	-	-	-	-	3,020	9,070	657	12,747	1,960
SB - 4 - 20 - 5 4' bgs	4'	4/20/2011	In-situ	2.25	22.7	13.1	66.4	104.45	2,980	11,900	939	15,819	1,360
SB - 4 @ 6'	6'	4/26/2011	In-situ	<1.00	3.92	3.42	20.3	27.64	690	4,050	268	5,008	-
SB - 4 @ 8'	8'	4/26/2011	In-situ	-	-	-	-	-	974	4,840	346	6,160	-
SB - 4 @ 10'	10'	4/26/2011	In-situ	-	-	-	-	-	1,040	5,810	420	7,270	-
SB - 4 @ 12'	12'	4/26/2011	In-situ	<0.05	<0.05	<0.05	<0.15	<0.15	<10	49.9	11.2	61.1	2,840
Sample #1	5'	10/13/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	256
Sample #2	5'	10/13/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	160
Sample #3	5'	10/13/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	192
Sample #4	4'	10/14/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	<16.0
Sample #5	5'	10/14/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	<16.0
Sample #6	6'	10/14/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	16.0
Sample #7	5'	10/14/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	544
Sample #8	5'	10/14/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	240
				10	50				5,000				

APPENDICES

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

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

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company BOPCO, L.P.	Contact Tony Savoie
Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 432-556-8730
Facility Name Poker Lake Unit #158	Facility Type E&P API 30-015-31690

Surface Owner Federal	Mineral Owner Federal	Lease No.
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LOCATION OF RELEASE

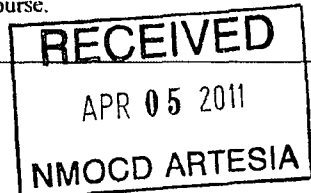
Unit Letter A	Section 7	Township 24S	Range 30E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
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Latitude N 32.237400 Longitude W 103.914150

NATURE OF RELEASE

Type of Release: Produced water	Volume of Release: 230 bbls.	Volume Recovered: 200 Bbls
Source of Release: Water transfer pump seal and piping failure.	Date and Hour of Occurrence 3/21/11 time unknown	Date and Hour of Discovery 3/21/11 7:40 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Emergency NMOCD number	
By Whom? Tony Savoie	Date and Hour 3/21/11 8:20 a.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*



Describe Cause of Problem and Remedial Action Taken.* A water transfer pump seal and bearings failed causing excessive vibration on the discharge piping of the pump. The power was shut off and valves were closed isolating the pump. The pump was replaced later the same day.

Describe Area Affected and Cleanup Action Taken.* The entire area of the earthen containment was covered with produced, approximately 4500 sq.ft. The free standing water was removed and the saturated area around the tanks inside the containment was excavated and stockpiled on-site, remediation activities were under way under an approved remediation plan. The caliche pad area measuring approximately 2000 sq.ft. was affected by the misting of the produced water being sprayed into the air.

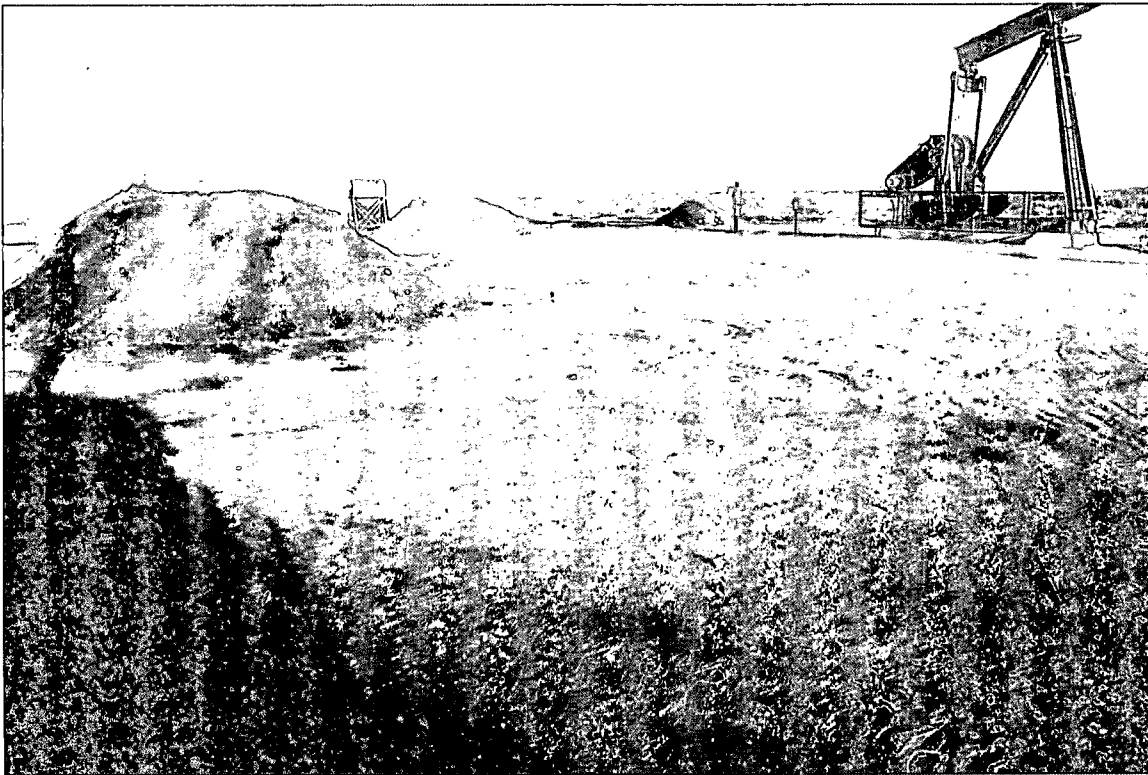
The Site remediation for the produced water and spill will follow the NMOCD guidelines for leaks and spills.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

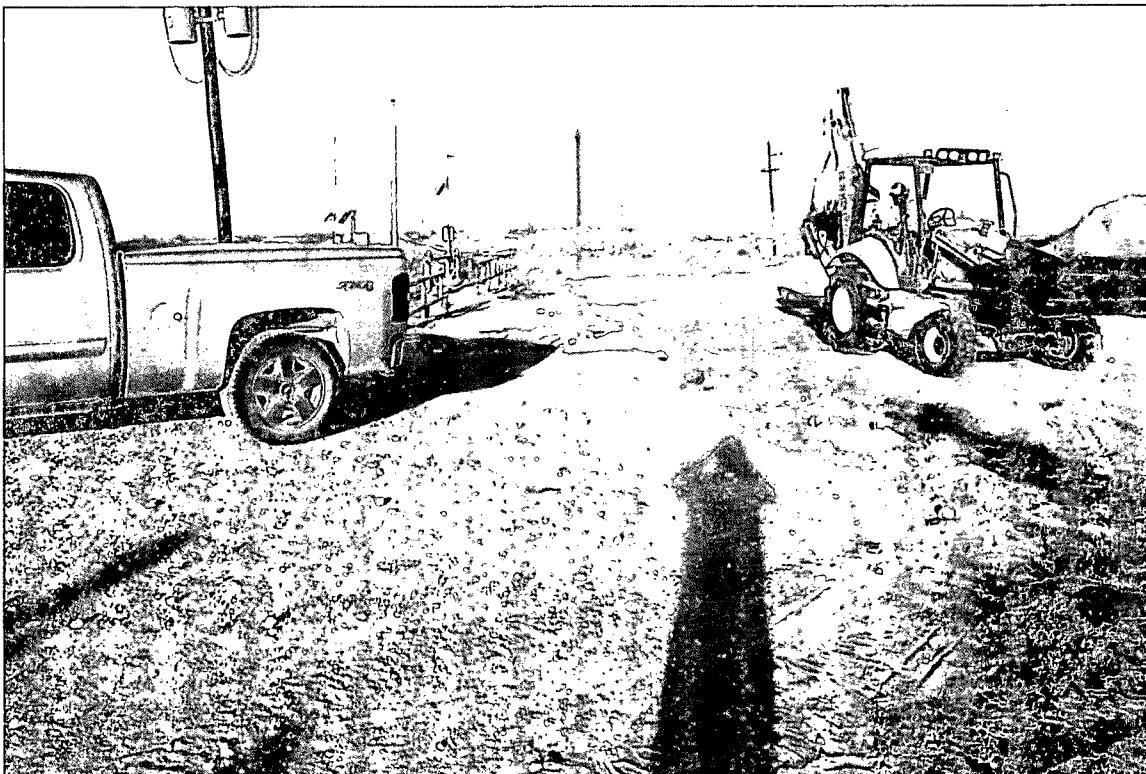
Signature: <i>Tony Savoie</i>		OIL CONSERVATION DIVISION	
Printed Name: Tony Savoie		Approved by District Supervisor:	
Title: Waste Mgmt. & Remediation Specialist		Approval Date:	Expiration Date:
E-mail Address: TAsavoie@BassPet.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 4/4/11 Phone: 432-556-8730			

* Attach Additional Sheets If Necessary

Appendix B
Photographs



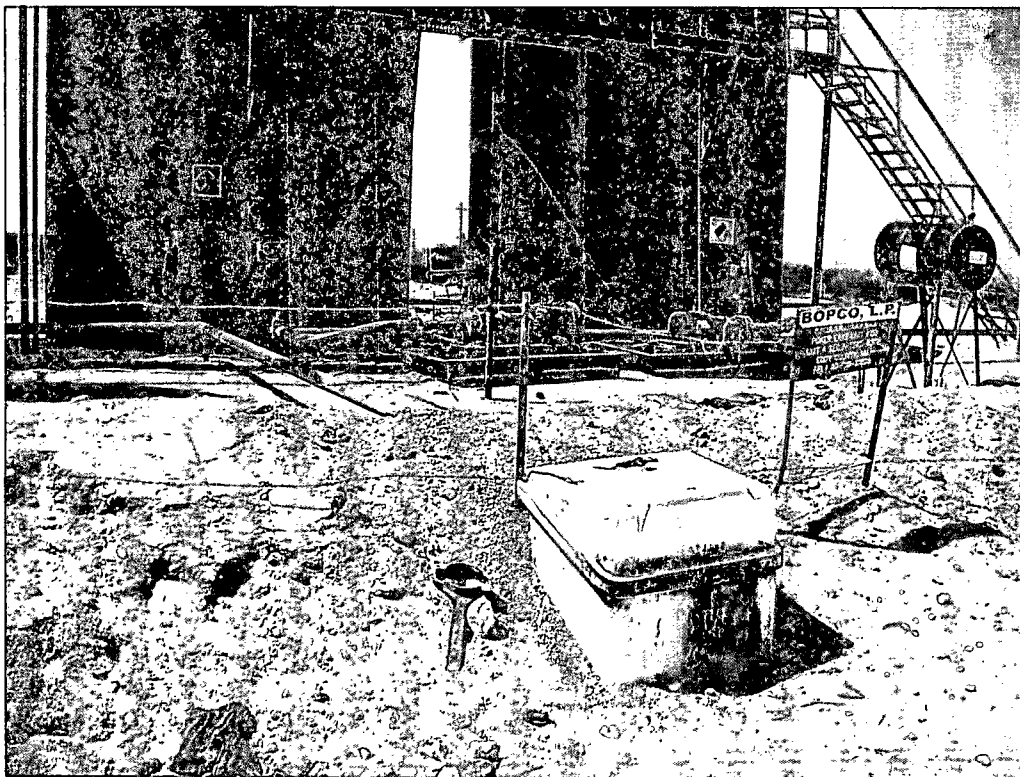
Photograph of Initial Release West of the PLU #158 Battery.



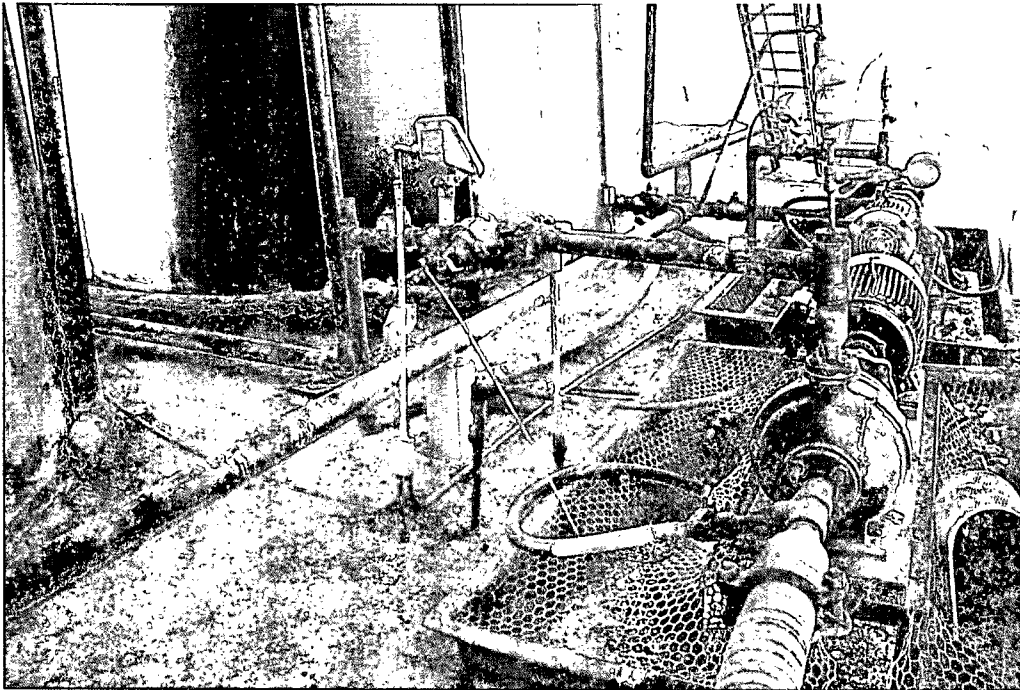
Photograph of Excavation Activities at the PLU #158 Battery.



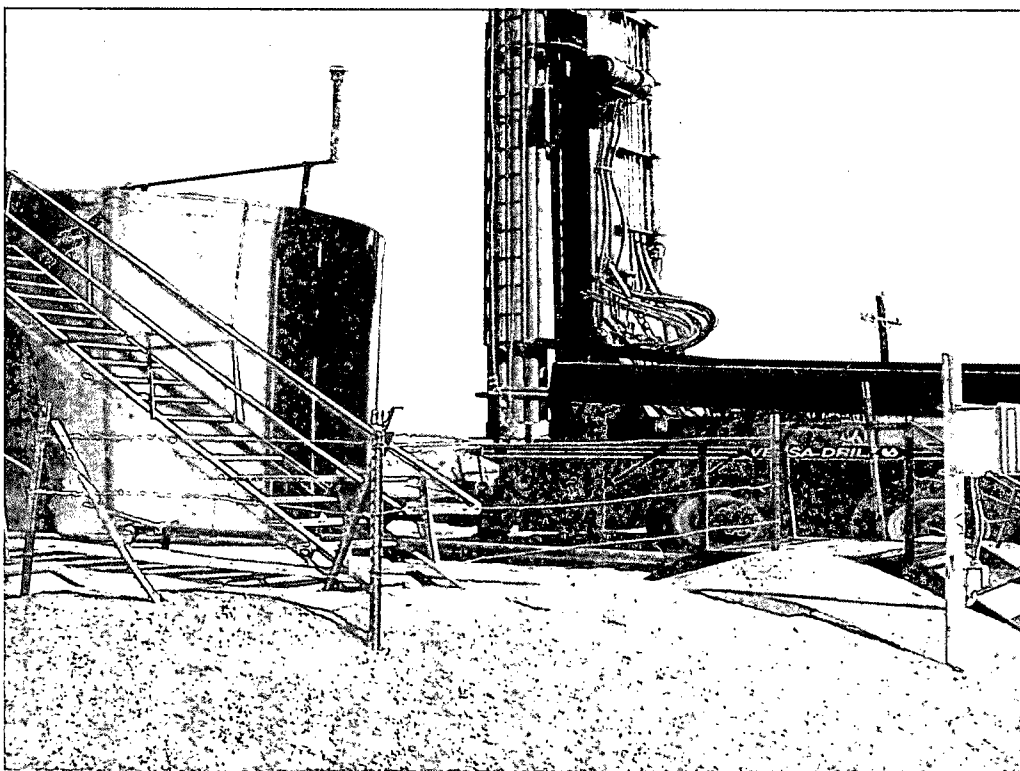
Photograph of Excavation Activities at the PLU #158 Battery.



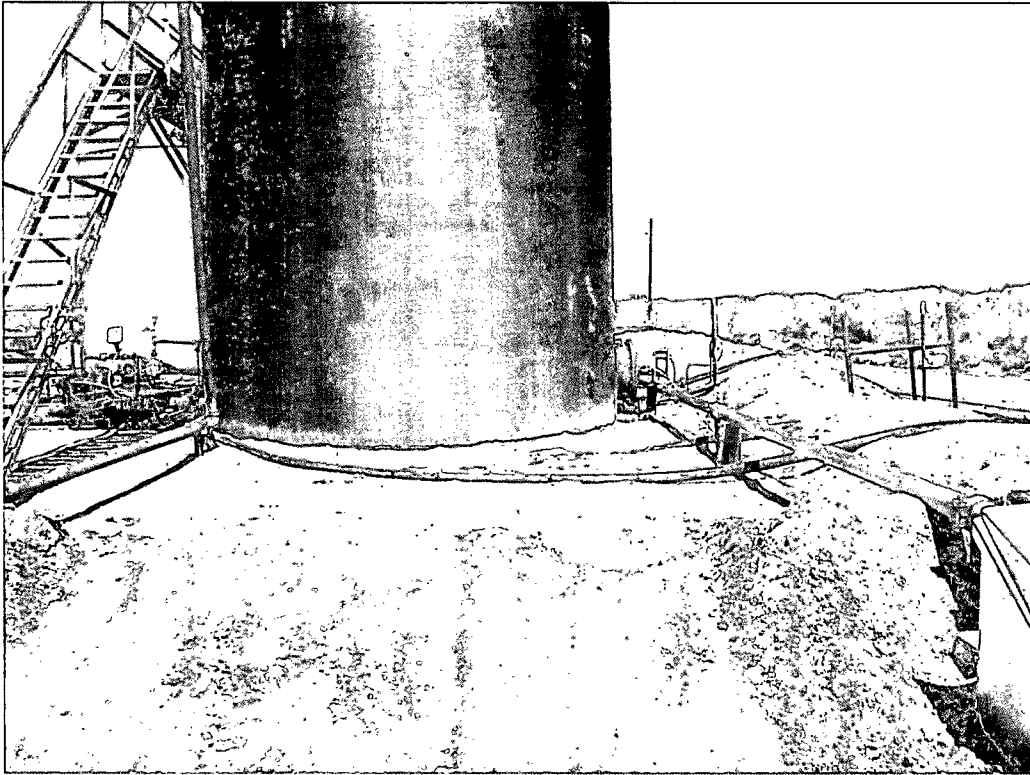
Photograph of the Excavation within the earthen containment at the PLU #158 Battery.



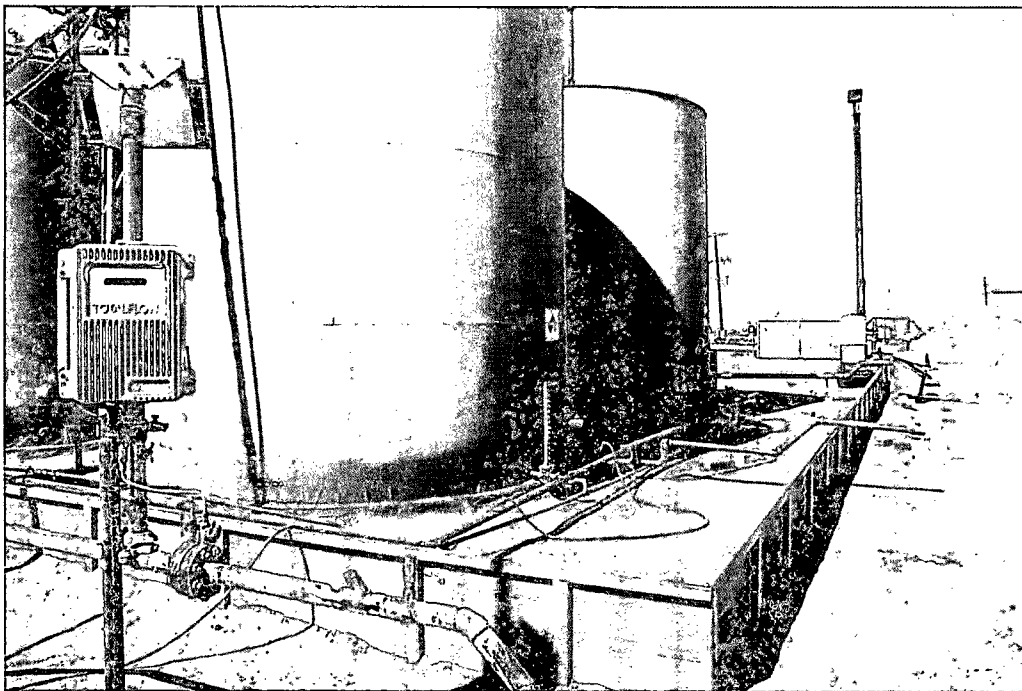
Photograph of the excavation within the earthen containment at the PLU #158 Battery.



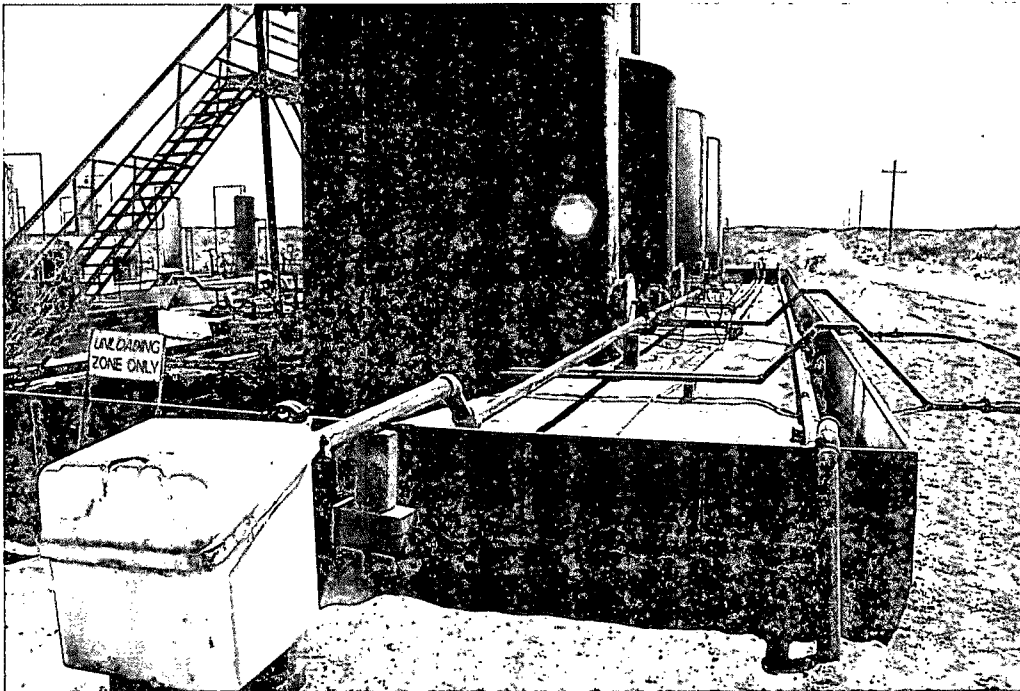
Photograph of the May 24, 2010, Drilling event at the PLU #158 Tank Battery.



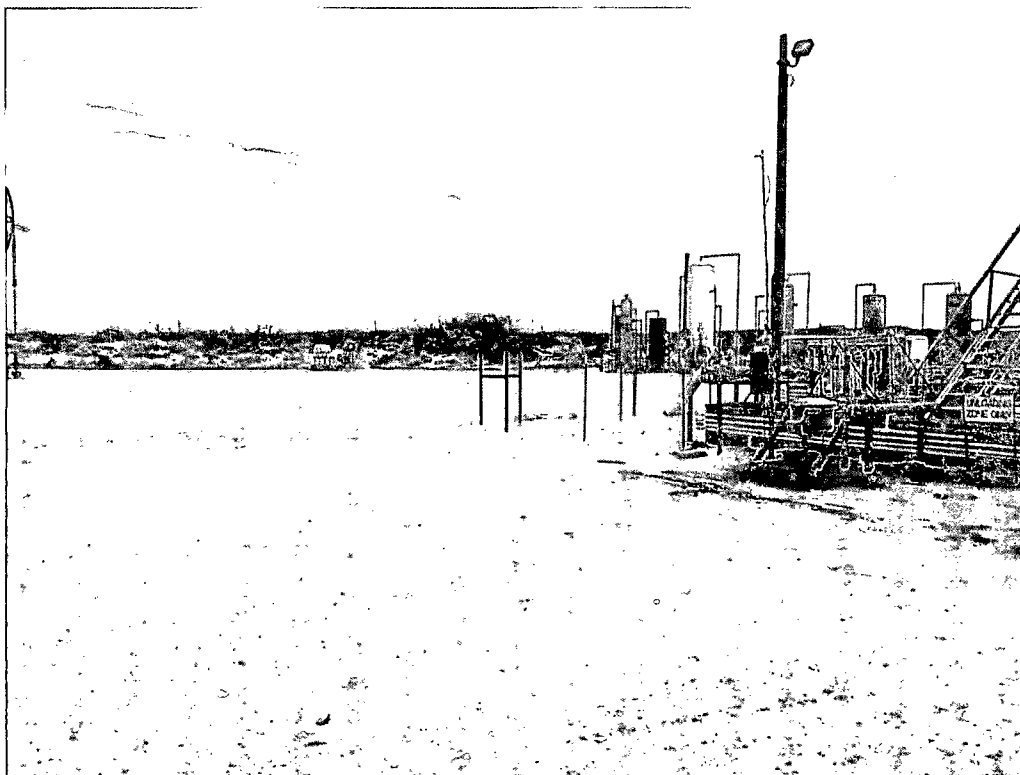
Photograph of the backfilled earthen containment prior to the installation of Falcon Liner System at the PLU #158 Battery.



Photograph of newly installed Falcon containment system at the PLU #158 Tank Battery.



Photograph of newly installed Falcon containment system at the PLU #158 Tank Battery.



Photograph of Backfilled Excavation west of the PLU #158 Tank Battery.



Photograph of remediated area west of the PLU #158 Tank Battery.

Appendix C

Laboratory Analytical Reports

May 05, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE UNIT 158 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/21/11 8:04.

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.

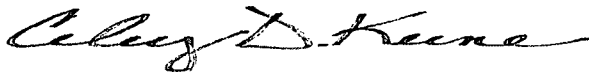
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 04/21/2011
 Reported: 05/05/2011
 Project Name: POKER LAKE UNIT 158 BATTERY
 Project Number: AFB 24735
 Project Location: EDDY CO, NEW MEXICO

 Sampling Date: 04/20/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SB - 4 - 20 - 1 SURFACE (H100814-01)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	17200	16.0	04/25/2011	ND	432	108	400	0.00		
TPH 8015M		mg/kg	Analyzed By: AB							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1290	50.0	04/23/2011	ND	230	115	200	0.179		
DRO >C10-C28	6200	50.0	04/23/2011	ND	230	115	200	0.717		
EXT DRO >C28-C35	535	50.0	04/23/2011	ND						
Surrogate: 1-Chlorooctane	167 %	70-130								
Surrogate: 1-Chlorooctadecane	107 %	70-130								

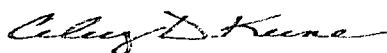
Sample ID: SB - 4 - 20 - 1 2' BGS (H100814-02)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16000	16.0	04/25/2011	ND	432	108	400	0.00	
TPH 8015M		mg/kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1140	50.0	04/23/2011	ND	230	115	200	0.179	
DRO >C10-C28	3470	50.0	04/23/2011	ND	230	115	200	0.717	
EXT DRO >C28-C35	267	50.0	04/23/2011	ND					
Surrogate: 1-Chlorooctane	111 %	70-130							
Surrogate: 1-Chlorooctadecane	113 %	70-130							

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/21/2011
Reported: 05/05/2011
Project Name: POKER LAKE UNIT 158 BATTERY
Project Number: AFB 24735
Project Location: EDDY CO, NEW MEXICO

Sampling Date: 04/20/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: SB - 4 - 20 - 1 4' BGS (H100814-03)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6560	16.0	04/25/2011	ND	432	108	400	0.00	
TPH 8015M		mg/kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2640	50.0	04/23/2011	ND	207	104	200	6.50	
DRO >C10-C28	6170	50.0	04/23/2011	ND	200	99.8	200	1.84	
EXT DRO >C28-C35	402	50.0	04/23/2011	ND					
<hr/>									
Surrogate: 1-Chlorooctane	192 %	70-130							
Surrogate: 1-Chlorooctadecane	129 %	70-130							

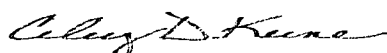
Sample ID: SB - 4 - 20 - 2 SURFACE (H100814-04)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	04/25/2011	ND	432	108	400	0.00	
TPH 8015M		mg/kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2320	50.0	04/23/2011	ND	207	104	200	6.50	
DRO >C10-C28	8990	50.0	04/23/2011	ND	200	99.8	200	1.84	
EXT DRO >C28-C35	676	50.0	04/23/2011	ND					
<hr/>									
Surrogate: 1-Chlorooctane	177 %	70-130							
Surrogate: 1-Chlorooctadecane	107 %	70-130							

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/21/2011	Sampling Date:	04/20/2011
Reported:	05/05/2011	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 158 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	AFB 24735	Sample Received By:	Celey D. Keene
Project Location:	EDDY CO, NEW MEXICO		

Sample ID: SB - 4 - 20 - 2 2' BGS (H100814-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	04/25/2011	ND	432	108	400	0.00		
TPH 8015M		mg/kg		Analyzed By: AB						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1950	50.0	04/23/2011	ND	207	104	200	6.50		
DRO >C10-C28	13500	50.0	04/23/2011	ND	200	99.8	200	1.84		
EXT DRO >C28-C35	1010	50.0	04/23/2011	ND						

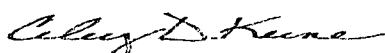
Surrogate: 1-Chlorooctane 212 % 70-130

Surrogate: 1-Chlorooctadecane 128 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 04/21/2011
 Reported: 05/05/2011
 Project Name: POKER LAKE UNIT 158 BATTERY
 Project Number: AFB 24735
 Project Location: EDDY CO, NEW MEXICO

 Sampling Date: 04/20/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SB - 4 - 20 - 2 4' BGS (H100814-06)
BTEX 8021B
mg/kg
Analyzed By: CMS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	6.37	2.50	05/03/2011	ND	2.04	102	2.00	2.03	
Toluene*	11.6	2.50	05/03/2011	ND	1.99	99.4	2.00	0.937	
Ethylbenzene*	10.7	2.50	05/03/2011	ND	2.02	101	2.00	0.321	
Total Xylenes*	46.2	7.50	05/03/2011	ND	5.93	98.8	6.00	0.190	

Surrogate: 4-Bromofluorobenzene (PIL) 89.7 % 70-130

Chloride, SM4500Cl-B
mg/kg
Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/25/2011	ND	432	108	400	0.00	

TPH 8015M
mg/kg
Analyzed By: AB
S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1450	50.0	04/23/2011	ND	207	104	200	6.50	
DRO >C10-C28	12100	50.0	04/23/2011	ND	200	99.8	200	1.84	
EXT DRO >C28-C35	1030	50.0	04/23/2011	ND					

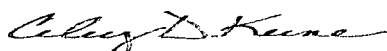
Surrogate: 1-Chlorooctane 172 % 70-130

Surrogate: 1-Chlorooctadecane 114 % 70-130

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/21/2011
Reported: 05/05/2011
Project Name: POKER LAKE UNIT 158 BATTERY
Project Number: AFB 24735
Project Location: EDDY CO, NEW MEXICO

Sampling Date: 04/20/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: SB - 4 - 20 - 3 SURFACE (H100814-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7800	16.0	04/25/2011	ND	432	108	400	0.00		
TPH 8015M		mg/kg		Analyzed By: AB						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	553	50.0	04/23/2011	ND	207	104	200	6.50		
DRO >C10-C28	2990	50.0	04/23/2011	ND	200	99.8	200	1.84		
EXT DRO >C28-C35	262	50.0	04/23/2011	ND						
Surrogate: 1-Chlorooctane	148 %	70-130								
Surrogate: 1-Chlorooctadecane	127 %	70-130								

Sample ID: SB - 4 - 20 - 3 2' BGS (H100814-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5440	16.0	04/25/2011	ND	432	108	400	0.00		
TPH 8015M		mg/kg		Analyzed By: AB						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1600	50.0	04/23/2011	ND	207	104	200	6.50		
DRO >C10-C28	4980	50.0	04/23/2011	ND	200	99.8	200	1.84		
EXT DRO >C28-C35	363	50.0	04/23/2011	ND						
Surrogate: 1-Chlorooctane	156 %	70-130								
Surrogate: 1-Chlorooctadecane	120 %	70-130								

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/21/2011	Sampling Date:	04/20/2011
Reported:	05/05/2011	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 158 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	AFB 24735	Sample Received By:	Celey D. Keene
Project Location:	EDDY CO, NEW MEXICO		

Sample ID: SB - 4 - 20 - 3 4' BGS (H100814-09)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	04/25/2011	ND	432	108	400	0.00	
TPH 8015M		mg/kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2100	50.0	04/23/2011	ND	207	104	200	6.50	
DRO >C10-C28	6030	50.0	04/23/2011	ND	200	99.8	200	1.84	
EXT DRO >C28-C35	429	50.0	04/23/2011	ND					
<hr/>									
Surrogate: 1-Chlorooctane	164 %	70-130							
Surrogate: 1-Chlorooctadecane	117 %	70-130							


Sample ID: SB - 4 - 20 - 4 SURFACE (H100814-10)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	30800	16.0	04/25/2011	ND	432	108	400	0.00	
TPH 8015M		mg/kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2570	50.0	04/23/2011	ND	207	104	200	6.50	
DRO >C10-C28	12700	50.0	04/23/2011	ND	200	99.8	200	1.84	
EXT DRO >C28-C35	934	50.0	04/23/2011	ND					
<hr/>									
Surrogate: 1-Chlorooctane	252 %	70-130							
Surrogate: 1-Chlorooctadecane	170 %	70-130							

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/21/2011	Sampling Date:	04/20/2011
Reported:	05/05/2011	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 158 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	AFB 24735	Sample Received By:	Celey D. Keene
Project Location:	EDDY CO, NEW MEXICO		

Sample ID: SB - 4 - 20 - 4 2' BGS (H100814-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6480	16.0	04/25/2011	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	34.9	10.0	04/23/2011	ND	207	104	200	6.50	
DRO >C10-C28	412	10.0	04/23/2011	ND	200	99.8	200	1.84	
EXT DRO >C28-C35	37.5	10.0	04/23/2011	ND					
Surrogate: 1-Chlorooctane		108 %	70-130						
Surrogate: 1-Chlorooctadecane		108 %	70-130						

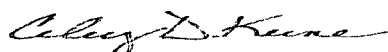
Sample ID: SB - 4 - 20 - 4 4' BGS (H100814-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6080	16.0	04/25/2011	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	54.6	10.0	04/23/2011	ND	207	104	200	6.50	
DRO >C10-C28	642	10.0	04/23/2011	ND	200	99.8	200	1.84	
EXT DRO >C28-C35	52.7	10.0	04/23/2011	ND					
Surrogate: 1-Chlorooctane	99.8 %	70-130							
Surrogate: 1-Chlorooctadecane	101 %	70-130							

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/21/2011
Reported: 05/05/2011
Project Name: POKER LAKE UNIT 158 BATTERY
Project Number: AFB 24735
Project Location: EDDY CO, NEW MEXICO

Sampling Date: 04/20/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: SB - 4 - 20 - 5 SURFACE (H100814-13)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8320	16.0	04/25/2011	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: AB						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1320	50.0	04/23/2011	ND	207	104	200	6.50	
DRO >C10-C28	6710	50.0	04/23/2011	ND	200	99.8	200	1.84	
EXT DRO >C28-C35	542	50.0	04/23/2011	ND					
Surrogate: 1-Chlorooctane									
	149 %	70-130							
Surrogate: 1-Chlorooctadecane									
	114 %	70-130							

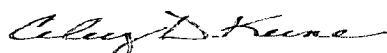
Sample ID: SB - 4 - 20 - 5 2' BGS (H100814-14)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1960	16.0	04/25/2011	ND	432	108	400	0.00		
TPH 8015M		mg/kg		Analyzed By: AB						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	3020	50.0	04/23/2011	ND	207	104	200	6.50		
DRO >C10-C28	9070	50.0	04/23/2011	ND	200	99.8	200	1.84		
EXT DRO >C28-C35	657	50.0	04/23/2011	ND						
Surrogate: 1-Chlorooctane										
	190 %	70-130								
Surrogate: 1-Chlorooctadecane										
	116 %	70-130								

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/21/2011
Reported: 05/05/2011
Project Name: POKER LAKE UNIT 158 BATTERY
Project Number: AFB 24735
Project Location: EDDY CO, NEW MEXICO

Sampling Date: 04/20/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: SB - 4 - 20 - 5 4' BGS (H100814-15)

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.25	1.25	05/03/2011	ND	2.04	102	2.00	2.03	
Toluene*	22.7	2.50	05/03/2011	ND	1.99	99.4	2.00	0.937	
Ethylbenzene*	13.1	2.50	05/03/2011	ND	2.02	101	2.00	0.321	
Total Xylenes*	66.4	7.50	05/03/2011	ND	5.93	98.8	6.00	0.190	

Surrogate: 4-Bromofluorobenzene (PIL) 72.4 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	04/25/2011	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AB						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2980	50.0	04/23/2011	ND	207	104	200	6.50		
DRO >C10-C28	11900	50.0	04/23/2011	ND	200	99.8	200	1.84		
EXT DRO >C28-C35	939	50.0	04/23/2011	ND						

Surrogate: 1-Chlorooctane 186 % 70-130

Surrogate: 1-Chlorooctadecane 133 % 70-130

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

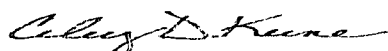
Notes and Definitions

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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Celey D. Keene, Lab Director/Quality Manager


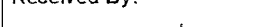

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

1 of 2

[illegible]

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Relinquished By: 		Date: 4-2-11		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 8:04				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date: 4-2-11		Received By: 		REMARKS: Hold for BTEX Run two highest TPH for BTEX			
		Time: 8:04							
Delivered By: (Circle One)				Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other:				Cool Intact		(Initials)			
				4.5C <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					

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

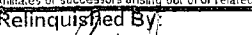
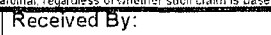
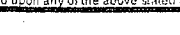
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

2 of 2

[illegible]

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Relinquished By: 		Date: 4-21-11	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Time: 8:04		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date: 4/21/11	Received By: 	REMARKS: Hold for BTEX Run two Highest TPH for BTEX	
		Time: 8:04		Please email results to pm@basinenv.com & Tasavoie@BassPet.com	
Delivered By: (Circle One)		Sample Condition:		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Contact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		450 	

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

May 02, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE UNIT 158 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/27/11 8:04.

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.

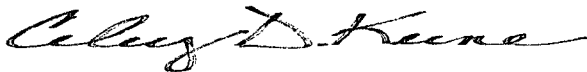
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/27/2011
Reported: 05/02/2011
Project Name: POKER LAKE UNIT 158 BATTERY
Project Number: AFB 24735
Project Location: EDDY CO, NEW MEXICO

Sampling Date: 04/26/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB - 4 @ 6' (H100864-01)

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<1.00	1.00	04/29/2011	ND	2.11	105	2.00	2.03		
Toluene*	3.92	1.00	04/29/2011	ND	2.11	106	2.00	2.61		
Ethylbenzene*	3.42	1.00	04/29/2011	ND	2.14	107	2.00	1.81		
Total Xylenes*	20.3	3.00	04/29/2011	ND	6.33	106	6.00	1.82		

Surrogate: 4-Bromofluorobenzene (PIE) 90.9 % 70-130

TPH 8015M		mg/kg		Analyzed By: ck/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	690	10.0	04/30/2011	ND	214	107	200	2.00		
DRO >C10-C28	4050	10.0	04/30/2011	ND	180	90.1	200	1.11		
EXT DRO >C28-C35	268	10.0	04/30/2011	ND						

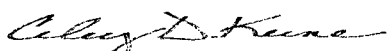
Surrogate: 1-Chlorooctane 101 % 70-130

Surrogate: 1-Chlorooctadecane 78.0 % 70-130

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/27/2011
Reported: 05/02/2011
Project Name: POKER LAKE UNIT 158 BATTERY
Project Number: AFB 24735
Project Location: EDDY CO, NEW MEXICO

Sampling Date: 04/26/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB - 4 @ 8' (H100864-02)

TPH 8015M	mg/kg	Analyzed By: ck/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	974	10.0	04/30/2011	ND	214	107	200	2.00	
DRO >C10-C28	4840	10.0	04/30/2011	ND	180	90.1	200	1.11	
EXT DRO >C28-C35	346	10.0	04/30/2011	ND					

Surrogate: 1-Chlorooctane 111 % 70-130

Surrogate: 1-Chlorooctadecane 98.7 % 70-130

Sample ID: SB - 4 @ 10' (H100864-03)

TPH 8015M	mg/kg	Analyzed By: ck/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1040	10.0	04/30/2011	ND	214	107	200	2.00	
DRO >C10-C28	5810	10.0	04/30/2011	ND	180	90.1	200	1.11	
EXT DRO >C28-C35	420	10.0	04/30/2011	ND					

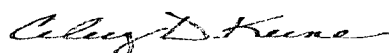
Surrogate: 1-Chlorooctane 110 % 70-130

Surrogate: 1-Chlorooctadecane 88.2 % 70-130

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/27/2011
Reported: 05/02/2011
Project Name: POKER LAKE UNIT 158 BATTERY
Project Number: AFB 24735
Project Location: EDDY CO, NEW MEXICO

Sampling Date: 04/26/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB - 4 @ 12' (H100864-04)

BTEX 8021B			mg/kg							
			Analyzed By: CMS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2011	ND	2.11	105	2.00	2.03		
Toluene*	<0.050	0.050	04/29/2011	ND	2.11	106	2.00	2.61		
Ethylbenzene*	<0.050	0.050	04/29/2011	ND	2.14	107	2.00	1.81		
Total Xylenes*	<0.150	0.150	04/29/2011	ND	6.33	106	6.00	1.82		

Surrogate: 4-Bromofluorobenzene (PIL) 91.6 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	04/29/2011	ND	448	112	400	3.64	

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	04/30/2011	ND	214	107	200	2.00	
DRO >C10-C28	49.9	10.0	04/30/2011	ND	180	90.1	200	1.11	
EXT DRO >C28-C35	11.2	10.0	04/30/2011	ND					

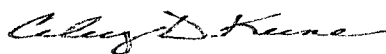
Surrogate: 1-Chlorooctane 98.9 % 70-130

Surrogate: 1-Chlorooctadecane 105 % 70-130

Cardinal Laboratories

*=Accredited Analyte

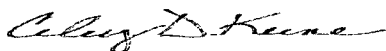
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Celey D. Keene, Lab Director/Quality Manager


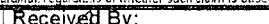


Notes and Definitions

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



Celey D. Keene, Lab Director/Quality Manager

[illegible]

Relinquished By: 		Date: <u>4/28/11</u> Time: <u>1630</u>		Received By: 		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: _____ REMARKS: _____	
Relinquished By: 		Date: <u>4/27/11</u> Time: <u>8:04</u>		Received By: <u>Jodi Nenson</u>		Please email results to pm@basinenv.com & Tasavoie@BassPet.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool Intact -1.5°C <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) 			

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

October 20, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU 158 BATTERY PAD

Enclosed are the results of analyses for samples received by the laboratory on 10/17/11 9:12.

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 Hydrocarbons

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

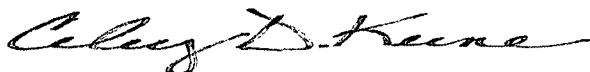
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 10/17/2011
Reported: 10/20/2011
Project Name: PLU 158 BATTERY PAD
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/13/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SAMPLE #1 (H102231-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/18/2011	ND	448	112	400	3.64	
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	10/18/2011	ND	172	85.9	200	4.35	
DRO >C10-C28	<10.0	10.0	10/18/2011	ND	157	78.6	200	6.92	
EXT DRO >C28-C35	<10.0	10.0	10/18/2011	ND					
Surrogate: 1-Chlorooctane		88.6 %	55.5-154						
Surrogate: 1-Chlorooctadecane		81.1 %	57.6-158						

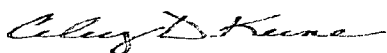
Sample ID: SAMPLE #2 (H102231-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/18/2011	ND	448	112	400	3.64	
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	10/18/2011	ND	172	85.9	200	4.35	
DRO >C10-C28	<10.0	10.0	10/18/2011	ND	157	78.6	200	6.92	
EXT DRO >C28-C35	<10.0	10.0	10/18/2011	ND					
Surrogate: 1-Chlorooctane		87.6 %	55.5-154						
Surrogate: 1-Chlorooctadecane		89.0 %	57.6-158						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 10/17/2011
Reported: 10/20/2011
Project Name: PLU 158 BATTERY PAD
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/13/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SAMPLE #3 (H102231-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/18/2011	ND	448	112	400	3.64	
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	10/18/2011	ND	172	85.9	200	4.35	
DRO >C10-C28	<10.0	10.0	10/18/2011	ND	157	78.6	200	6.92	
EXT DRO >C28-C35	<10.0	10.0	10/18/2011	ND					
Surrogate: 1-Chlorooctane	89.4 %	55.5-154							
Surrogate: 1-Chlorooctadecane	90.6 %	57.6-158							

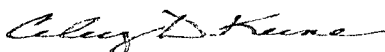
Sample ID: SAMPLE #4 (H102231-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/18/2011	ND	448	112	400	3.64	
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	10/19/2011	ND	172	86.1	200	4.07	
DRO >C10-C28	<10.0	10.0	10/19/2011	ND	158	79.1	200	4.56	
EXT DRO >C28-C35	<10.0	10.0	10/19/2011	ND					
Surrogate: 1-Chlorooctane	80.4 %	55.5-154							
Surrogate: 1-Chlorooctadecane	83.8 %	57.6-158							

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 10/17/2011
Reported: 10/20/2011
Project Name: PLU 158 BATTERY PAD
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/14/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SAMPLE #5 (H102231-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/18/2011	ND	448	112	400	3.64	
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	10/19/2011	ND	172	86.1	200	4.07	
DRO >C10-C28	<10.0	10.0	10/19/2011	ND	158	79.1	200	4.56	
EXT DRO >C28-C35	<10.0	10.0	10/19/2011	ND					
Surrogate: 1-Chlorooctane		80.8 %	55.5-154						
Surrogate: 1-Chlorooctadecane		83.2 %	57.6-158						

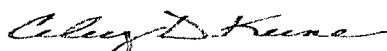
Sample ID: SAMPLE #6 (H102231-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/18/2011	ND	448	112	400	3.64	
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	10/19/2011	ND	172	86.1	200	4.07	
DRO >C10-C28	<10.0	10.0	10/19/2011	ND	158	79.1	200	4.56	
EXT DRO >C28-C35	<10.0	10.0	10/19/2011	ND					
Surrogate: 1-Chlorooctane		80.1 %	55.5-154						
Surrogate: 1-Chlorooctadecane		83.5 %	57.6-158						

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 10/17/2011
Reported: 10/20/2011
Project Name: PLU 158 BATTERY PAD
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/14/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SAMPLE #7 (H102231-07)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	10/18/2011	ND	432	108	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	10/19/2011	ND	172	86.1	200	4.07		
DRO >C10-C28	<10.0	10.0	10/19/2011	ND	158	79.1	200	4.56		
EXT DRO >C28-C35	<10.0	10.0	10/19/2011	ND						
Surrogate: 1-Chlorooctane	82.3 %	55.5-154								
Surrogate: 1-Chlorooctadecane	84.0 %	57.6-158								

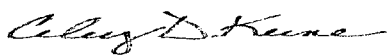
Sample ID: SAMPLE #8 (H102231-08)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/18/2011	ND	432	108	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	10/19/2011	ND	172	86.1	200	4.07	
DRO >C10-C28	<10.0	10.0	10/19/2011	ND	158	79.1	200	4.56	
EXT DRO >C28-C35	<10.0	10.0	10/19/2011	ND					
Surrogate: 1-Chlorooctane	81.4 %	55.5-154							
Surrogate: 1-Chlorooctadecane	84.8 %	57.6-158							

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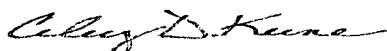
Celey D. Keene, Lab Director/Quality Manager

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

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Celey D. Keene, Lab Director/Quality Manager



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. Arquijo		P.O. #:																												
Address: P.O. Box 301		Company: BOPCO, LP																												
City: Lovington State: NM Zip: 88260		Attn: Tony Savoie																												
Phone #: (575) 396-2378 Fax #: (575) 396-1429		Address: 522 W. Mermod																												
Project #: Project Owner: BOPCO, LP		City: Carlsbad																												
Project Name: PLU 158 Battery PAD		State: NM Zip: 88220																												
Project Location:		Phone #: (432) 556-8730																												
Sampler Name:		Fax #:																												
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(GRAB OR C/COMP.)	# CONTAINERS	MATRIX					PRESERV.		SAMPLING																		
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chlorides	BOISM	Hold for BTEX												
	H102231																													
	1	Sample #1	G	1			X					X		10-13-11	3:45	X	X	X												
	2	Sample #2	G	1			X					X		10-13-11	3:50	X	X	X												
	3	Sample #3	G	1			X					X		10-13-11	3:55	X	X	X												
	4	Sample #4	G	1			X					X		10-14-11	4:35	X	X	X												
	5	Sample #5	G	1			X					X		10-14-11	4:40	X	X	X												
	6	Sample #6	G	1			X					X		10-14-11	4:45	X	X	X												
	7	Sample #7	G	1			X					X		10-14-11	4:50	X	X	X												
	8	Sample #8	G	1			X					X		10-14-11	4:55	X	X	X												

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Relinquished By:	Date: 10-17-11 Time: 7:45	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: Add'l Fax #:
Relinquished By:	Date: 10/17/11 Time: 9:12	Received By:	REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition: Cool <input type="checkbox"/> Intact <input type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) 	Please email results to pm@basinenv.com & TASavoie@BassPet.com	