

Basin Environmental Service Technologies, LLC

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REMEDIATION SUMMARY

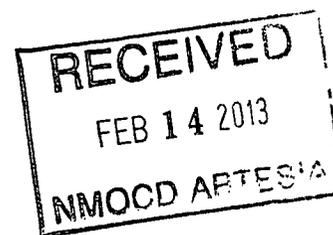
&

SITE CLOSURE REQUEST

**BOPCO, LP
POKER LAKE UNIT #89
Eddy County, New Mexico
Unit Letter "A" (NE/NE), Section 25, Township 24 South, Range 30 East
Latitude 32.189988° North, Longitude 103.832185° West**

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

May 2012



Ben J. Arguijo
Project Manager

TABLE OF CONTENTS

1.0 INTRODUCTION.....	1
2.0 NMOCD SITE CLASSIFICATION.....	1
3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES.....	2
4.0 QA/QC PROCEDURES.....	4
4.1 Soil Sampling.....	4
4.2 Decontamination of Equipment.....	4
4.3 Laboratory Protocol.....	4
5.0 SITE CLOSURE REQUEST.....	4
6.0 LIMITATIONS.....	5
7.0 DISTRIBUTION.....	6

FIGURES

Figure 1 – Site Location Map

Figure 2 – Site & Sample Location Map

TABLES

Table 1 – Concentrations of Benzene, BTEX, TPH & Chloride in Soil

APPENDICES

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

Appendix B – Photographs

Appendix C – Soil Boring Logs

Appendix D – Laboratory Analytical Reports

1.0 INTRODUCTION AND BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary & Site Closure Request* for the release site known as Poker Lake Unit #89 ("PLU #89"). The legal description of the release site is Unit Letter "A" (NE/NE), Section 21, Township 24 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.189988° North latitude and 103.832185° 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 11, 2011, BOPCO discovered a release had occurred at the PLU #89 tank battery. A storage tank overflow resulted in the release of a mixture of produced water and crude oil. The cause of the storage tank overflow was attributed to the failure of a coupling between the motor and pump on the primary water transfer pump. The release was exacerbated by an electrical communication failure between the primary and secondary transfer pumps, which caused the secondary pump to fail to activate. During initial response activities, 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 11, 2011. The "Release Notification and Corrective Action" (Form C-141) indicated approximately four hundred and fifty-five barrels (455 bbls) of produced water and approximately six bbls (6 bbls) of crude oil were released. Approximately four hundred and thirty barrels (430 bbls) of produced water and approximately five barrels (5 bbls) of crude oil were recovered. The release affected the entire area of the earthen containment, or approximately three thousand, five hundred square feet (3,500 ft²). The release breached the containment area and released approximately seventy barrels (70 bbls) of produced water onto the adjacent caliche pad. The breach affected an area of the caliche pad measuring approximately three thousand, two hundred and sixty-eight square feet (3,268 ft²).

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

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

NMOCD guidelines indicate the PLU #89 release site has an initial ranking score of zero (0) points. The soil remediation levels for a site with a ranking score of zero (0) points are as follows:

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

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

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

Following initial response activities, on May 19, 2011, delineation of the release site commenced. Two (2) soil borings (SB-1 and SB-2) were advanced at the site to investigate the vertical extent of impact. Soil samples were collected at five-foot (5') drilling intervals and field screened using a chloride test kit and/or photo-ionization detector (PID). Selected soil samples were submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX), total petroleum hydrocarbon (TPH), and/or 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. Soil boring logs are provided as Appendix C. Laboratory analytical reports are provided as Appendix D.

Soil boring "SB-1" was located inside the containment area of the PLU #89 tank battery, near the release point. The soil boring was advanced to a total depth of approximately twenty feet (20') bgs. Soil samples collected at the ground surface and drilling depths of five feet (5') and ten feet (10') were submitted to the laboratory for analysis of TPH and/or chloride concentrations. The soil sample collected at ten feet (10') bgs was also analyzed for BTEX concentrations. Laboratory analytical results indicated TPH concentrations ranged from less than the laboratory method detection limit (MDL) soil samples SB-1 @ 5' and SB-1 @ 10' to 544 mg/Kg in soil sample SB-1 @ Surface. Chloride concentrations ranged from 48.0 mg/Kg in soil sample SB-1 @ 5' to 352 mg/Kg in soil sample SB-1 @ 10'. BTEX constituent concentrations in soil sample SB-1 @ 10' was less than the appropriate laboratory MDL.

Soil boring "SB-2" was located near the terminus of the flow path of the release, approximately one hundred and fifteen feet (115') south-southwest of the release point. The soil boring was advanced to a total depth of approximately forty feet (40') bgs. Soil samples collected at drilling depths of five feet (5'), ten feet (10'), thirty feet (30'), thirty-five feet (35'), and forty feet (40') were submitted to the laboratory for analysis of TPH and/or chloride concentrations. The soil sample collected at ten feet (10') bgs was also analyzed for BTEX concentrations. Laboratory analytical results indicated TPH concentrations ranged from less than the appropriate laboratory MDL in soil sample SB-2 @ 5' to 96.3 mg/Kg in soil sample SB-2 @ 10'. Chloride concentrations ranged from 1,010 mg/Kg in soil sample SB-2 @ 35' to 1,150 mg/Kg in soil sample SB-2 @ 40'. BTEX constituent concentrations in soil sample SB-2 @ 10' was less than the appropriate laboratory MDL.

A background soil sample (Background) was also collected in order to establish the baseline concentration of chloride in the area. Laboratory analytical results indicated the chloride concentration in soil sample Background was less than the laboratory MDL.

On June 7, 2011, excavation of impacted soil commenced at the site. Approximately twelve (12) to eighteen inches (18") of heavily saturated soil was removed from inside the containment area of the tank battery and along the flowpath of the release. Excavated soil was stockpiled on-site, pending final disposition.

On June 20, 2011, five (5) hand-augered soil bores (HA-1, HA-2, HA-3, HA-4, and HA-5) were collected along the flowpath of the release to further investigate the vertical and horizontal extent of impact. Soil samples were collected at two-foot (2') intervals and field-screened with a chloride test kit and/or PID. Ten (10) soil samples (HA-1 @ 2', HA-2 @ Surface, HA-2 @ 2', HA-2 @ 4', HA-3 @ Surface, HA-3 @ 2', HA-3 @ 4', HA-5 @ Surface, and HA-5 @ 4') were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. Laboratory analytical results indicated benzene concentrations were less than the laboratory MDL in all submitted soil samples. BTEX concentrations ranged from less than the laboratory MDL in soil samples HA-2 @ 4' and HA-5 @ 4' to 0.371 mg/Kg in soil sample HA-3 @ 4'. TPH concentrations ranged from less than the laboratory MDL in soil samples HA-1 @ 2', HA-2 @ 2', and HA-2 @ 4' to 25, 870 mg/Kg in soil sample HA-3 @ Surface.

Based on laboratory analytical results, further remediation was required in the areas represented by soil bores HA-2, HA-3, and HA-5.

On June 22, 2011, two (2) of the on-site production tanks were emptied, cleaned, sandblasted, and inspected for holes. The interiors of the production tanks were coated with an impermeable polyurethane coating.

Based on laboratory analytical results and field-screens, from June 24 through July 6, 2011, clean, crushed caliche was used to backfill and level the excavated area to a depth approximately six (6") to twelve inches (12") below the original ground surface.

From July 8 through July 15, 2011, a new, larger containment area was constructed around the PLU #89 tank battery, which measures approximately seven thousand, nine hundred and twenty square feet (7,920 ft²) and 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.

From August 1 through August 3, 2011, approximately three hundred and twenty cubic yards (320 yd³) of impacted soil was transported to Lea Land, Inc. (NMOCD Permit # WM-01-035) for disposal.

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 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

Soil samples collected from the floors and sidewalls of the PLU #89 excavation were analyzed by an NMOCD-approved laboratory, and concentrations of benzene, BTEX, TPH, and chloride were below the remediation action levels established for the site. Based on these analytical results, Basin recommends BOPCO provide the NMOCD Artesia District Office and the BLM a copy of this *Remediation Summary & Site Closure Request* and request the NMOCD grant site closure to the PLU #89 release site.

6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary & 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

Figure 1
Site Location Map

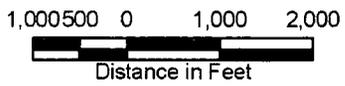
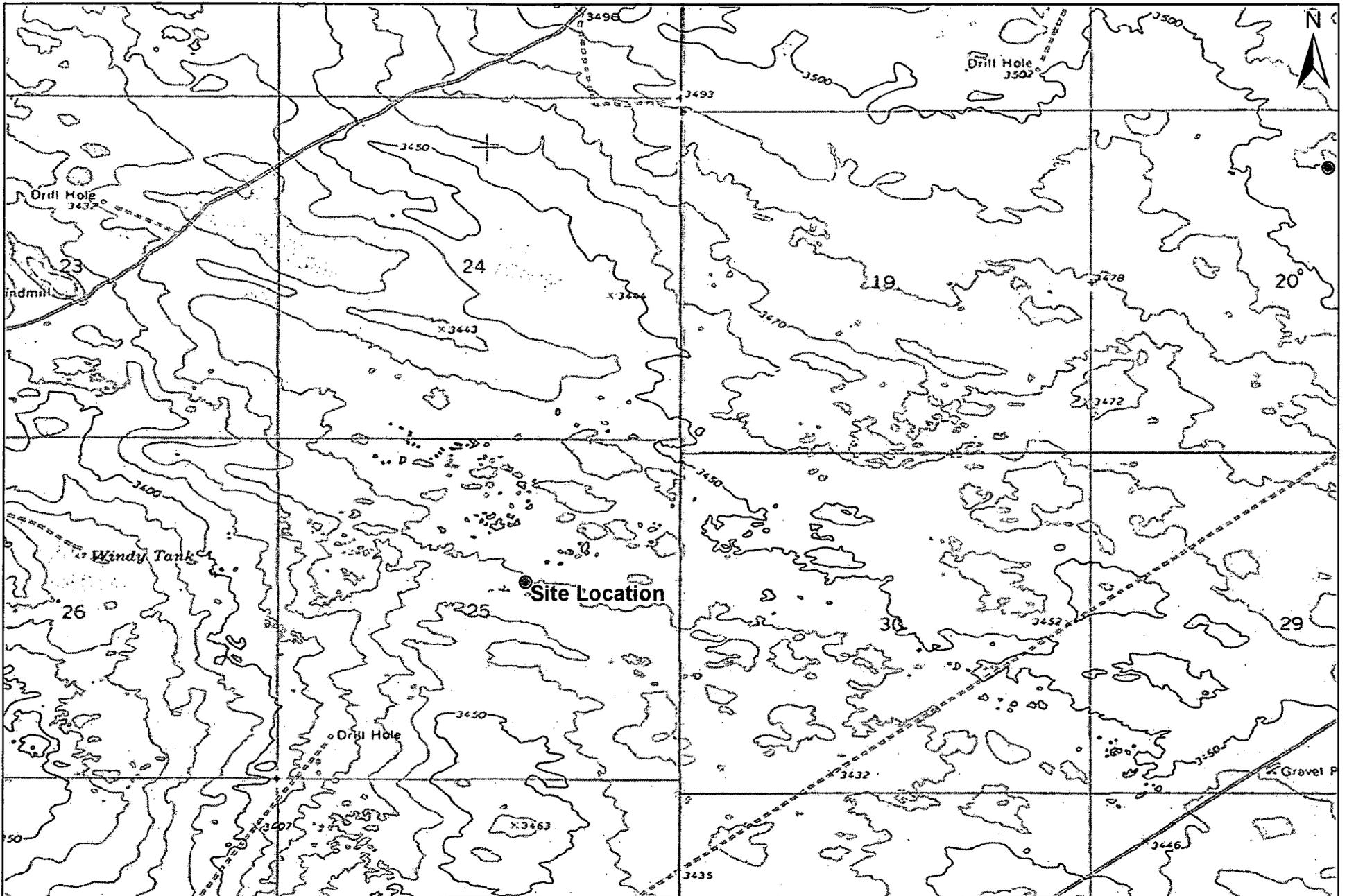


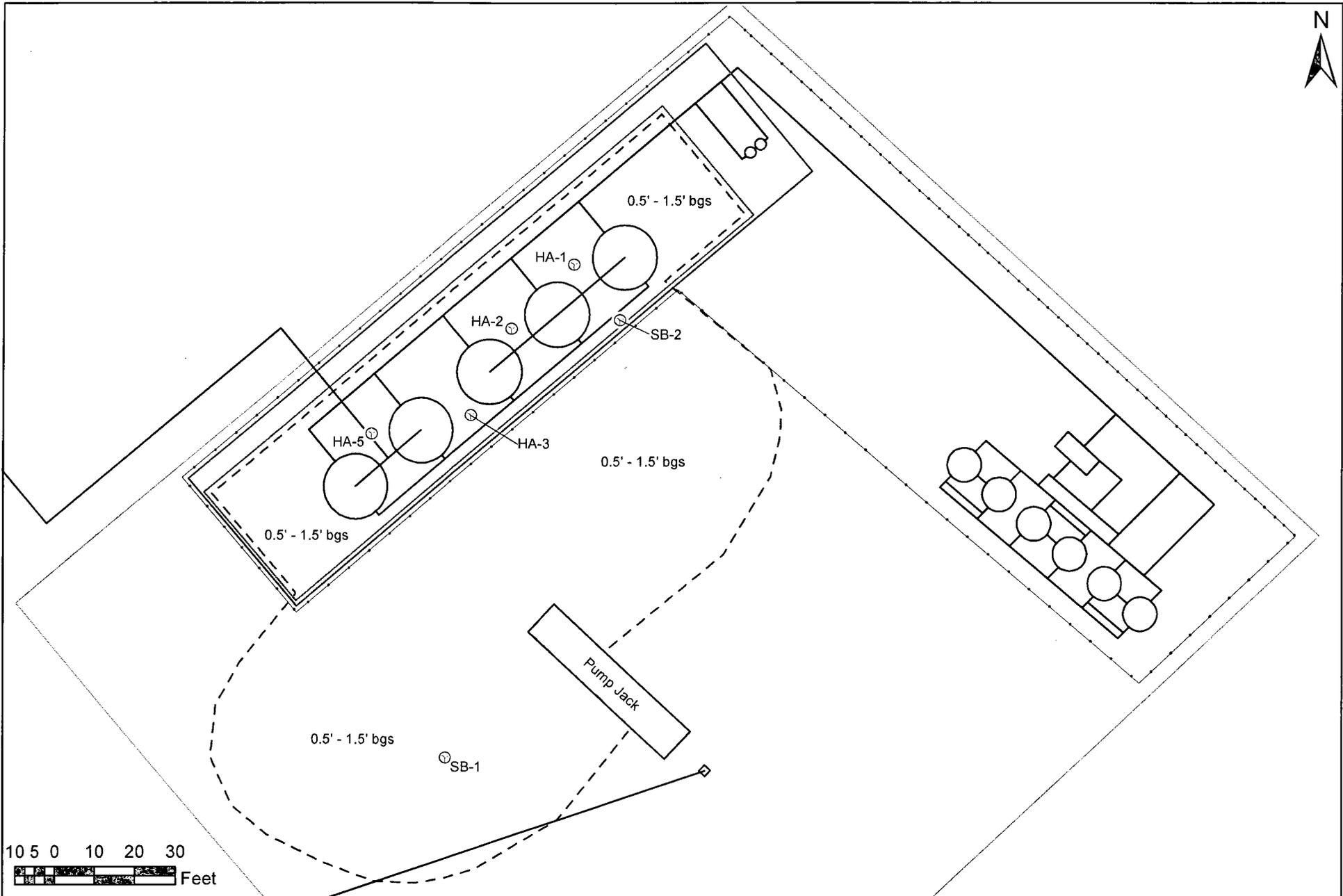
Figure 1
Site Location Map
BOPCO, LP
Poker Lake Unit #89
Eddy County, New Mexico



Basin Environmental Service Technologies, LLC
3100 Plains Hwy.
Lovington, NM 88260

Drawn By: BJA	Checked By: BRB
May 14, 2012	Scale: 1" = 2000'

Figure 2
Site & Sample Location Map



Legend

- - Excavation Extent	— Caliche Pad
— Pipeline	— Fence
— Earthen Berm	⊕ Soil Bore
— Steel Berm	○ Tank

Figure 2
Site & Sample Location Map
BOPCO, LP
Poker Lake Unit #89
Eddy County, New Mexico



Basin Environmental Service Technologies, LLC
 3100 Plains Hwy.
 Lovington, NM 88260

Drawn By: BJA	Checked By: BRB
August 21, 2012	Scale: 1" = 32'

TABLES

Table 1

**Concentrations of Benzene, BTEX, TPH & Chloride
in Soil**

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

BOPCO, LP
POKER LAKE UNIT #89
EDDY COUNTY, NEW MEXICO

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)	E 300 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-1 @ Surface	Surface	5/19/2011	In-Situ	-	-	-	-	-	<10.0	439	105	544	-
SB-1 @ 5'	5'	5/19/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	48.0
SB-1 @ 10'	10'	5/19/2011	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	352
SB-2 @ 5'	5'	5/19/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	-
SB-2 @ 10'	10'	5/19/2011	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	96.3	<10.0	96.3	-
SB-2 @ 30'	30'	5/19/2011	In-Situ	-	-	-	-	-	-	-	-	-	1,070
SB-2 @ 35'	35'	5/19/2011	In-Situ	-	-	-	-	-	-	-	-	-	1,010
SB-2 @ 40'	40'	5/19/2011	In-Situ	-	-	-	-	-	-	-	-	-	1,150
Background	3'	5/19/2011	In-Situ	-	-	-	-	-	-	-	-	-	<16.0
HA-1 @ 2'	2'	6/20/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	112
HA-2 @ Surface	Surface	6/20/2011	In-Situ	-	-	-	-	-	<100	7,520	688	8,208	7,440
HA-2 @ 2'	2'	6/20/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	2,800
HA-2 @ 4'	4'	6/20/2011	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	624
HA-3 @ Surface	Surface	6/20/2011	In-Situ	-	-	-	-	-	<100	23,900	1,970	25,870	8,320
HA-3 @ 2'	2'	6/20/2011	In-Situ	-	-	-	-	-	<50.0	1,070	<50.0	1,070	6,080
HA-3 @ 4'	4'	6/20/2011	In-Situ	<0.050	<0.050	0.080	0.291	0.371	<50.0	1,020	<50.0	1,020	6,800
HA-5 @ Surface	Surface	6/20/2011	In-Situ	-	-	-	-	-	138	8,710	585	9,433	7,360
HA-5 @ 4'	4'	6/20/2011	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	12.3	<10.0	12.3	5,200
NMOCD Criteria				10				50				5,000	

- = Not analyzed.

APPENDICES

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

NMOCB original
BLM original

Basic Copy

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 #89	Facility Type E&P

Surface Owner Federal	Mineral Owner Federal	Lease No NML C061705B
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LOCATION OF RELEASE

Unit Letter A	Section 25	Township 24S	Range 30E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
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Latitude N 32.189988 Longitude W 103.832185

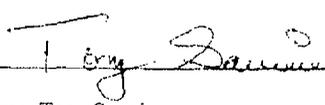
NATURE OF RELEASE

Type of Release: Produced water and crude oil	Volume of Release: 455 bbls of produced water and 6 bbls of crude oil. Total fluid 461 bbls.	Volume Recovered: 430 bbls of produced water and 5 bbls of crude oil. Total fluid 435 bbls
Source of Release: Storage tank overflow	Date and Hour of Occurrence 5/11/11, Hour unknown	Date and Hour of Discovery 5/11/11 8:55 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher NMOCB and Jim Amos BLM	
By Whom? Tony Savoie	Date and Hour 5/11/11 9:11 a.m.	RECEIVED MAY 12 2011 NMOCB ARTESIA
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.* The primary water transfer pump coupling between the motor and pump failed, the secondary pump failed to come on due to a communication problem between the primary and secondary pump. The pump was repaired and the electrical communication problem was corrected.

Describe Area Affected and Cleanup Action Taken.* The entire area of the earthen containment approximately 3500 sq. ft was covered with the fluid. The containment breached causing approximately 70 bbls of produced water to spill onto the caliche well pad and battery pad. This area was approximately 3268 sq. ft. All of the free standing fluid was removed with a vacuum truck. A remediation plan including new containment construction will be developed in accordance with the NMOCB and BLM remediation and containment guidelines.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCB 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 NMOCB 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, NMOCB 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: 		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: 5/11/11	Phone: 432-556-8730		

* 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

Form C-141
Revised October 10, 2003

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

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	BOPCO, LP	Contact	Tony Savoie
Address	522 W. Mermod, Suite 704 Carlsbad, NM 88220	Telephone No.	(432) 556-8730
Facility Name	Poker Lake Unit #89	Facility Type	E & P
Surface Owner	Federal	Mineral Owner:	Federal
		Lease No.	NML C061705B

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	25	24S	30E					Eddy

Latitude N. 32.189988 Longitude W. 103.832185

NATURE OF RELEASE

Type of Release	Produced water and crude oil	Volume of Release: 455 bbls of produced water and 6 bbls of crude oil. Total fluid 461 bbls	Volume Recovered: 430 bbls of produced water and 5 bbls of crude oil. Total fluid 435 bbls
Source of Release:	Storage tank overflow	Date and Hour of Occurrence	5/11/11, Hour unknown
		Date and Hour of Discovery	5/11/11 8:55 a.m.
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Not Required	If YES, To Whom?	Mike Bratcher NMOCD and Jim Amos BLM
By Whom?	Tony Savoie	Date and Hour:	5/11/11 9:11 a.m.
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

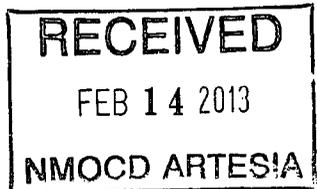
If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* The primary water transfer pump coupling between the motor and pump failed, the secondary pump failed to come on due to a communication problem between the primary and secondary pump. The pump was repaired and the electrical communication problem was corrected.

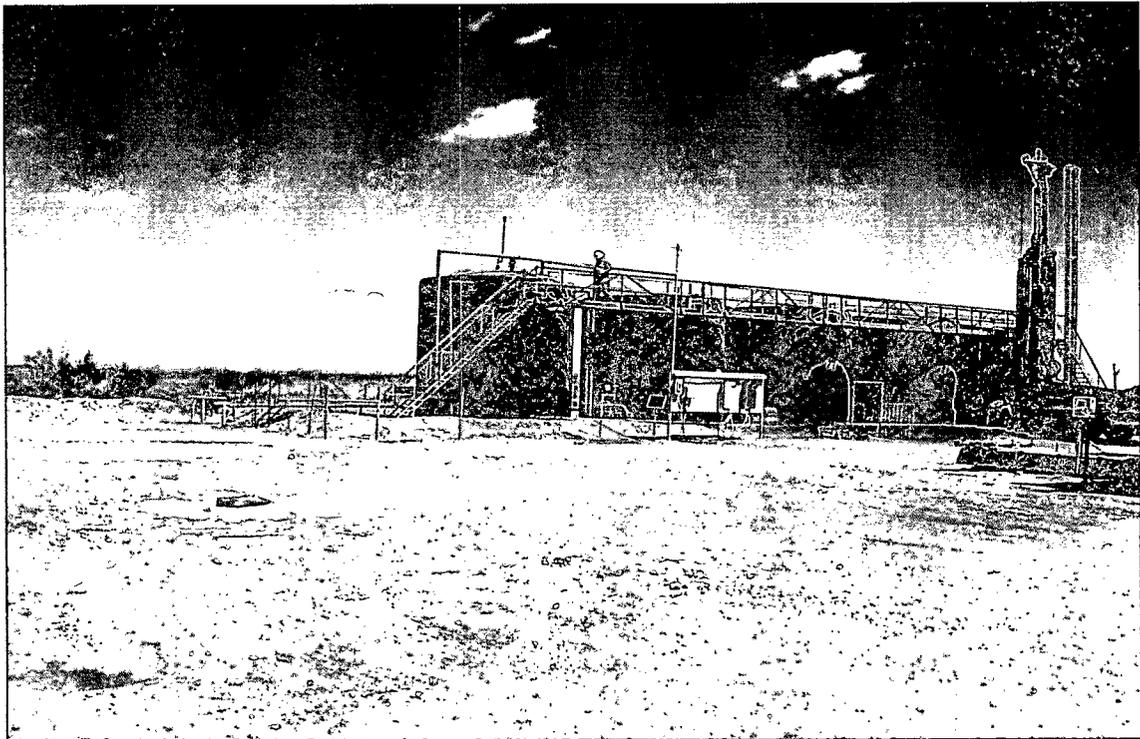
Describe Area Affected and Cleanup Action Taken.* The release affected approximately 3500 sq. ft. within the earthen containment and 3268 sq. ft. of caliche on the adjacent well/battery bad. The release was remediated as per NMOCD guidelines. Please see the attached Remediation Summary and Site Closure Request, dated May 2012, for details of remediation activities and laboratory analytical results from confirmation soil samples.

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

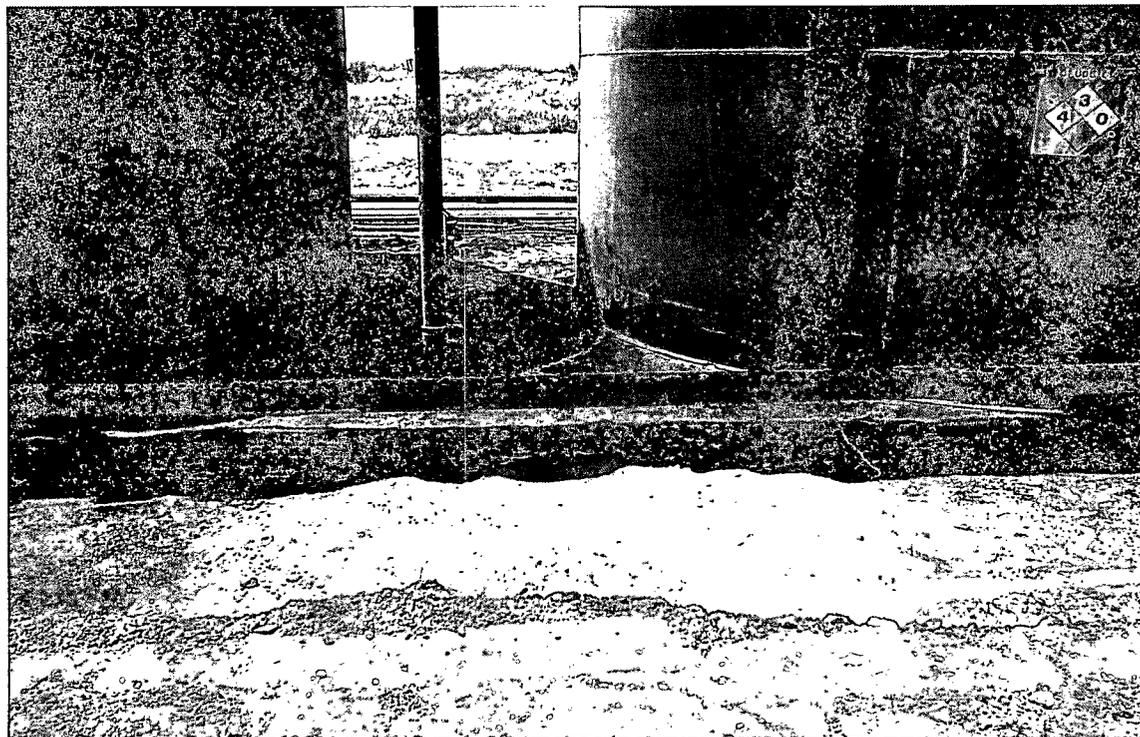
Signature: 	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Tony Savoie ^{COB} Ben S. Argujo (agent of BOPCO, LP)	Approved by District Supervisor:		
Title: Project Manager, Basin Environmental ^{COB} Project Manager, Basin Environmental	Approval Date:	Expiration Date:	
E-mail Address: tasavoie@basspet.com ^{COB} bjargujo@basinenv.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 5/11/11 ^{COB} 2/14/13 Phone: (432) 556-8730 ^{COB} (506) 549-9597			



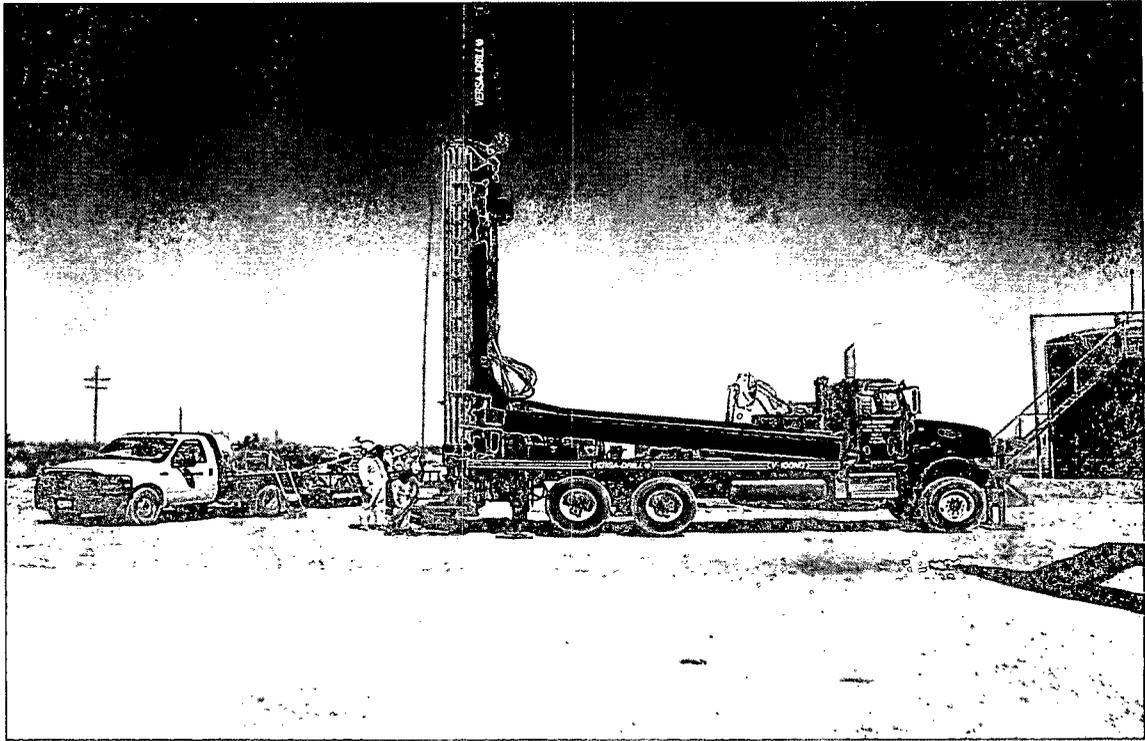
Appendix B
Photographs



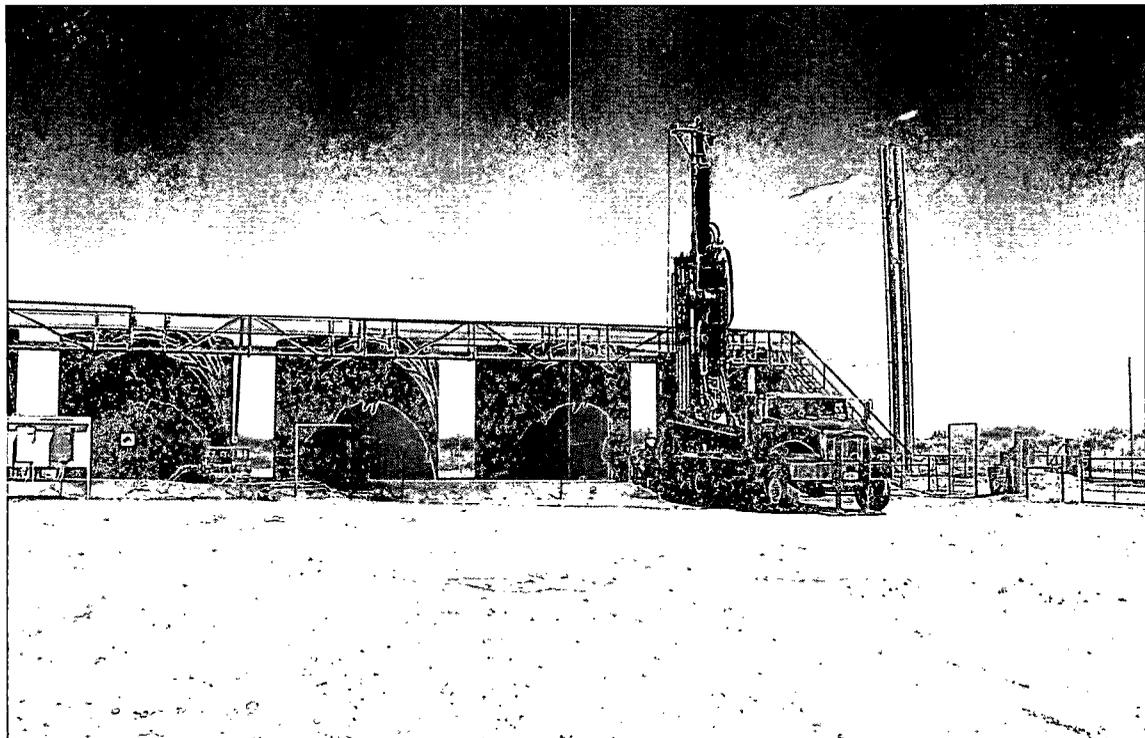
Poker Lake Unit #89 - Release Site (looking north)



Poker Lake Unit #89 - Release Site



Poker Lake Unit #89 - Advancement of soil boring SB-1



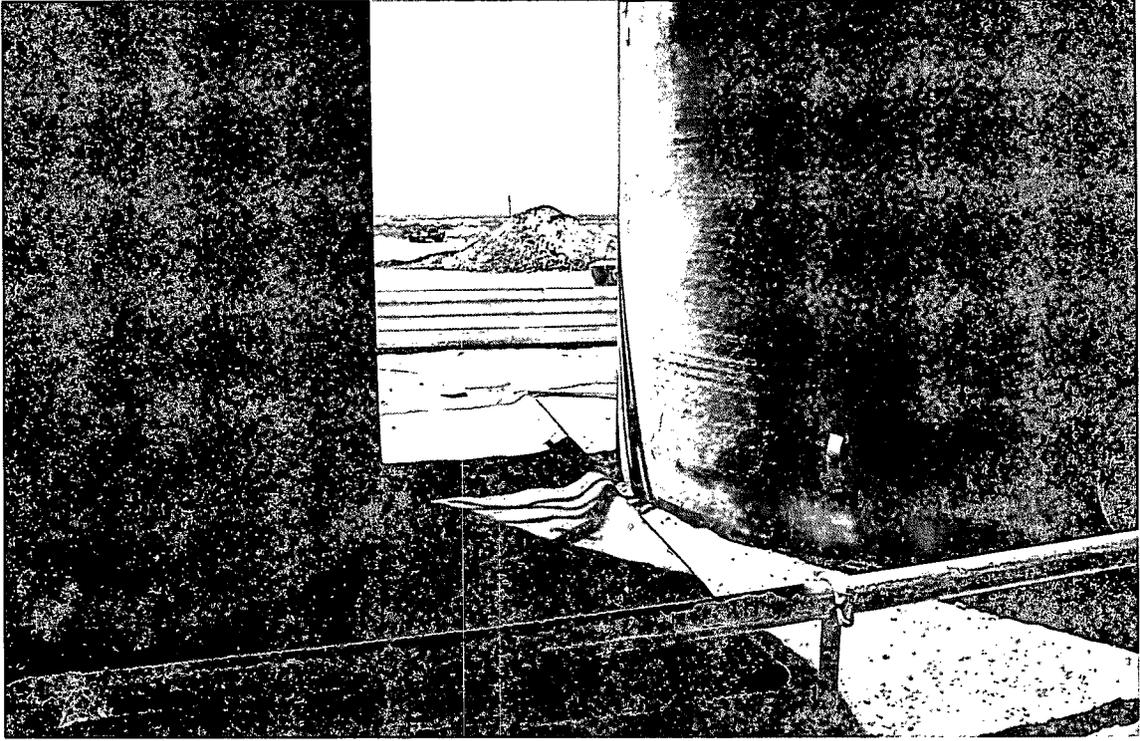
Poker Lake Unit #89 - Advancement of soil boring SB-1



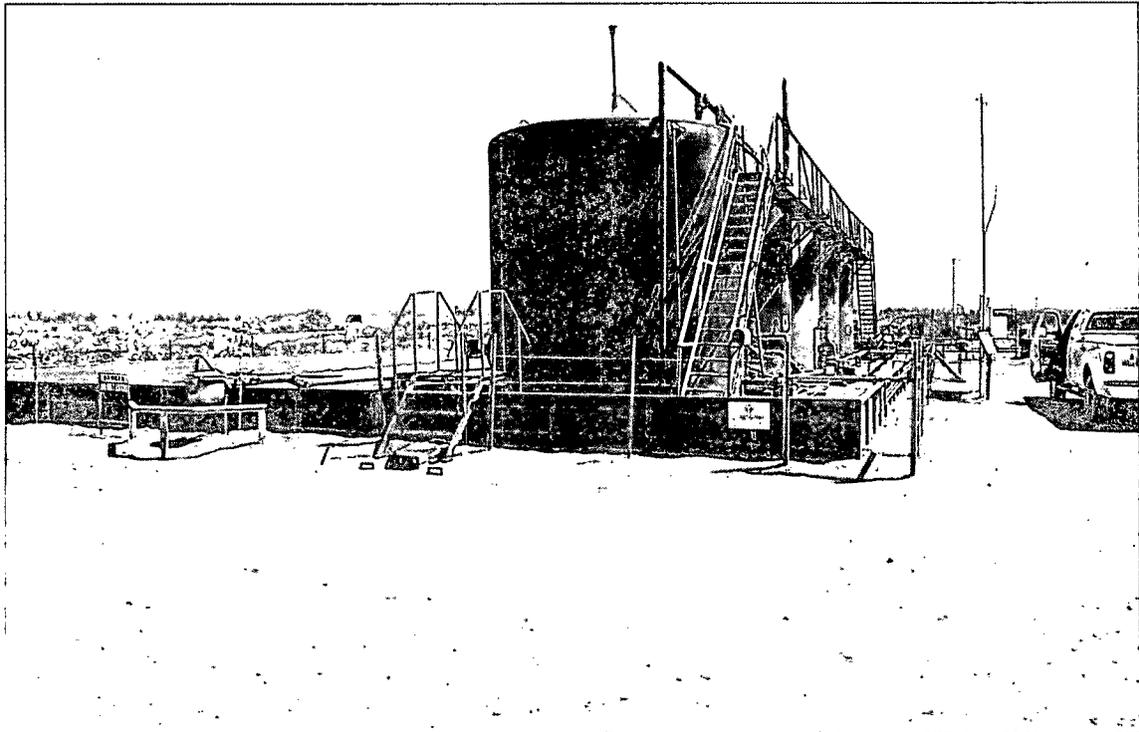
Poker Lake Unit #89 - Soil boring SB-1 (following P&A)



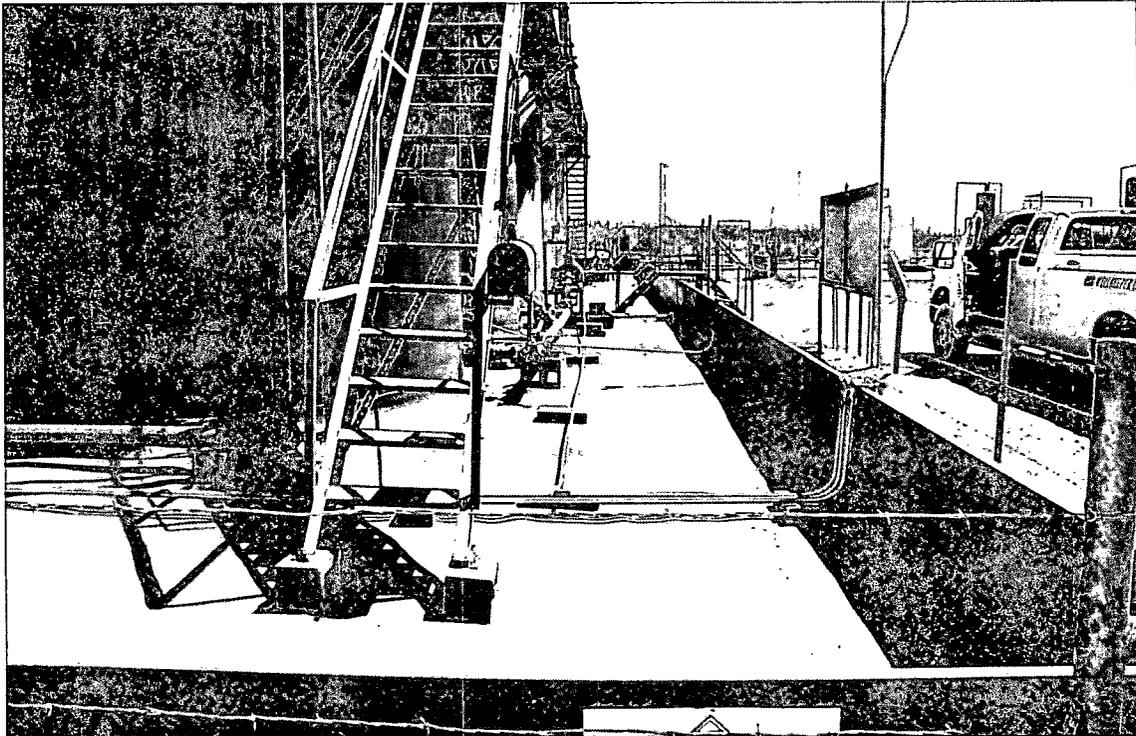
Poker Lake Unit #89 - Excavation



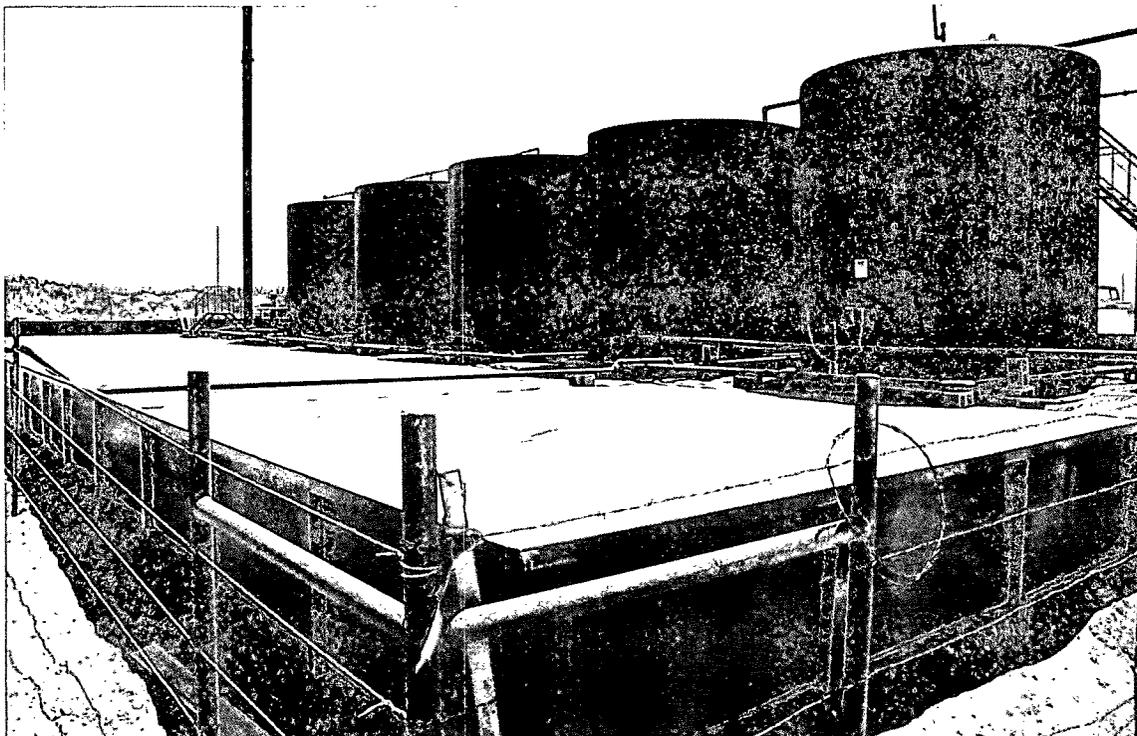
Poker Lake Unit #89 - Liner Installation



Poker Lake Unit #89 - Following Installation of Liner & Steel Containment Area



Poker Lake Unit #89 - New Liner & Steel Containment Area (Front View; Looking Northeast)



Poker Lake Unit #89 - New Liner & Steel Containment Area (Rear View; Looking East)

Appendix C
Soil Boring Logs

Soil Boring SB-1

Depth Below Ground Surface	Soil Column	Chloride Field Test	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
0		>2,428	8.3	Slight	Moderate	0' - 4' - Caliche
5		>2,428	4.2	None	None	4' - 6' - Red fine sand
10		256	1.6	None	None	6' - 8' - Tan fine sand - caliche
15		256		None	None	8' - 19' - Tan fine sand - caliche - sandstone
20		256	3.5	None	None	

Boring SB-1

Date Drilled May 19, 2011
 Thickness of Bentonite Seal 20 Ft
 Depth of Exploratory Boring 20 Ft bgs
 Depth to Groundwater _____
 Ground Water Elevation _____

- ∇ Indicates the PSH level measured on _____
- ▼ Indicates the groundwater level measured on _____
- Indicates samples selected for Laboratory Analysis.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

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

Soil Boring SB-1

BOPCO, LP
 Poker Lake Unit #89
 Eddy County, New Mexico



Basin Environmental Service Technologies, LLC
 3100 Plains Hwy.
 Lovington, NM 88260

Prep By: BJA	Checked By: BRB
May 14, 2012	

Soil Boring SB-2

Depth Below Ground Surface	Soil Column	Chloride Field Test	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
0		1,760	3.5	None	None	0' - 6' - Red fine sand
5		3,164	18.5	None	None	
10		2,636	1.8	None	None	
15		3,164	8.6	None	None	6' - 40' - Tan fine sand - sandstone
20		1,224	1.9	None	None	
25		1,020	3.6	None	None	
30		808	1.2	None	None	
35	872	1.1	None	None		
40						

Boring SB-2

Date Drilled May 19, 2011
 Thickness of Bentonite Seal 40 Ft
 Depth of Exploratory Boring 40 Ft bgs
 Depth to Groundwater _____
 Ground Water Elevation _____

- ∇ Indicates the PSH level measured on _____
- ▼ Indicates the groundwater level measured on _____
- Indicates samples selected for Laboratory Analysis.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

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

Soil Boring SB-2

BOPCO, LP
 Poker Lake Unit #89
 Eddy County, New Mexico



Basin Environmental Service Technologies, LLC
 3100 Plains Hwy.
 Lovington, NM 88260

Prep By: BJA	Checked By: BRB
May 14, 2012	

Appendix D
Laboratory Analytical Reports

May 25, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE UNIT #89

Enclosed are the results of analyses for samples received by the laboratory on 05/23/11 16:15.

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.

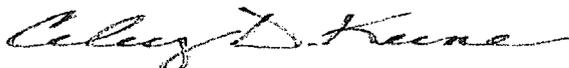
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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:	05/23/2011	Sampling Date:	05/19/2011
Reported:	05/25/2011	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT #89	Sampling Condition:	Cool & Intact
Project Number:	PLU 89	Sample Received By:	Jodi Henson
Project Location:	EDDY CO., NM		

Sample ID: SB 1 @ SURFACE (H101049-01)

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	05/24/2011	ND	216	108	200	0.355		
DRO >C10-C28	439	10.0	05/24/2011	ND	188	93.8	200	1.10		
EXT DRO >C28-C35	105	10.0	05/24/2011	ND						
<hr/>										
Surrogate: 1-Chlorooctane	103 %	70-130								
Surrogate: 1-Chlorooctadecane	92.6 %	70-130								

Sample ID: SB 1 @ 5' (H101049-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/24/2011	ND	448	112	400	3.51		
<hr/>										
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	05/25/2011	ND	216	108	200	0.355		
DRO >C10-C28	<10.0	10.0	05/25/2011	ND	188	93.8	200	1.10		
EXT DRO >C28-C35	<10.0	10.0	05/25/2011	ND						
<hr/>										
Surrogate: 1-Chlorooctane	98.8 %	70-130								
Surrogate: 1-Chlorooctadecane	95.1 %	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:	05/23/2011	Sampling Date:	05/19/2011
Reported:	05/25/2011	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT #89	Sampling Condition:	Cool & Intact
Project Number:	PLU 89	Sample Received By:	Jodi Henson
Project Location:	EDDY CO., NM		

Sample ID: SB 1 @ 10' (H101049-03)

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	05/24/2011	ND	2.16	108	2.00	1.14		
Toluene*	<0.050	0.050	05/24/2011	ND	2.06	103	2.00	1.29		
Ethylbenzene*	<0.050	0.050	05/24/2011	ND	2.11	106	2.00	0.484		
Total Xylenes*	<0.150	0.150	05/24/2011	ND	6.27	105	6.00	1.62		

Surrogate: 4-Bromofluorobenzene (PIE) 95.1 % 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	352	16.0	05/24/2011	ND	448	112	400	3.51		

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	05/25/2011	ND	216	108	200	0.355		
DRO >C10-C28	<10.0	10.0	05/25/2011	ND	188	93.8	200	1.10		
EXT DRO >C28-C35	<10.0	10.0	05/25/2011	ND						

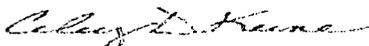
Surrogate: 1-Chlorooctane 103 % 70-130

Surrogate: 1-Chlorooctadecane 98.0 % 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:	05/23/2011	Sampling Date:	05/19/2011
Reported:	05/25/2011	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT #89	Sampling Condition:	Cool & Intact
Project Number:	PLU 89	Sample Received By:	Jodi Henson
Project Location:	EDDY CO., NM		

Sample ID: SB 2 @ 5' (H101049-04)

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	05/25/2011	ND	216	108	200	0.355	
DRO >C10-C28	<10.0	10.0	05/25/2011	ND	188	93.8	200	1.10	
EXT DRO >C28-C35	<10.0	10.0	05/25/2011	ND					
<hr/>									
Surrogate: 1-Chlorooctane	98.8 %	70-130							
Surrogate: 1-Chlorooctadecane	96.8 %	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:	05/23/2011	Sampling Date:	05/19/2011
Reported:	05/25/2011	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT #89	Sampling Condition:	Cool & Intact
Project Number:	PLU 89	Sample Received By:	Jodi Henson
Project Location:	EDDY CO., NM		

Sample ID: SB 2 @ 10' (H101049-05)

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	05/24/2011	ND	2.16	108	2.00	1.14		
Toluene*	<0.050	0.050	05/24/2011	ND	2.06	103	2.00	1.29		
Ethylbenzene*	<0.050	0.050	05/24/2011	ND	2.11	106	2.00	0.484		
Total Xylenes*	<0.150	0.150	05/24/2011	ND	6.27	105	6.00	1.62		

Surrogate: 4-Bromofluorobenzene (PIE) 95.4 % 70-130

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	05/25/2011	ND	216	108	200	0.355		
DRO >C10-C28	96.3	10.0	05/25/2011	ND	188	93.8	200	1.10		
EXT DRO >C28-C35	<10.0	10.0	05/25/2011	ND						

Surrogate: 1-Chlorooctane 104 % 70-130

Surrogate: 1-Chlorooctadecane 95.6 % 70-130

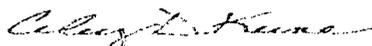
Sample ID: SB 2 @ 30' (H101049-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	05/24/2011	ND	448	112	400	3.51		

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:	05/23/2011	Sampling Date:	05/19/2011
Reported:	05/25/2011	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT #89	Sampling Condition:	Cool & Intact
Project Number:	PLU 89	Sample Received By:	Jodi Henson
Project Location:	EDDY CO., NM		

Sample ID: SB 2 @ 35' (H101049-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1010	16.0	05/24/2011	ND	448	112	400	3.51		

Sample ID: SB 2 @ 40' (H101049-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1150	16.0	05/24/2011	ND	448	112	400	3.51		

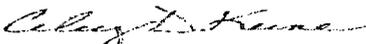
Sample ID: BACKGROUND (H101049-09)

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	05/24/2011	ND	448	112	400	3.51		

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

June 28, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE UNIT #89

Enclosed are the results of analyses for samples received by the laboratory on 06/23/11 9:10.

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:	06/23/2011	Sampling Date:	06/20/2011
Reported:	06/28/2011	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT #89	Sampling Condition:	Cool & Intact
Project Number:	PLU 89	Sample Received By:	Jodi Henson
Project Location:	EDDY CO., NM		

Sample ID: HA 1 2' BGS (H101295-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	06/23/2011	ND	464	116	400	7.14		
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	06/25/2011	ND	171	85.4	200	5.18		
DRO >C10-C28	<10.0	10.0	06/25/2011	ND	170	85.1	200	5.11		
EXT DRO >C28-C35	<10.0	10.0	06/25/2011	ND						
Surrogate: 1-Chlorooctane	104 %	70-130								
Surrogate: 1-Chlorooctadecane	119 %	70-130								

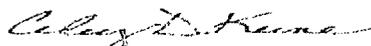
Sample ID: HA 2 SURFACE (H101295-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7440	16.0	06/23/2011	ND	464	116	400	7.14		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	06/25/2011	ND	171	85.4	200	5.18		
DRO >C10-C28	7520	100	06/25/2011	ND	170	85.1	200	5.11		
EXT DRO >C28-C35	688	100	06/25/2011	ND						
Surrogate: 1-Chlorooctane	112 %	70-130								
Surrogate: 1-Chlorooctadecane	105 %	70-130								

Cardinal Laboratories

*=Accredited Analyte

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Celestine 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:	06/23/2011	Sampling Date:	06/20/2011
Reported:	06/28/2011	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT #89	Sampling Condition:	Cool & Intact
Project Number:	PLU 89	Sample Received By:	Jodi Henson
Project Location:	EDDY CO., NM		

Sample ID: HA2 2' BGS (H101295-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	06/23/2011	ND	464	116	400	0.00		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/25/2011	ND	171	85.4	200	5.18		
DRO >C10-C28	<10.0	10.0	06/25/2011	ND	170	85.1	200	5.11		
EXT DRO >C28-C35	<10.0	10.0	06/25/2011	ND						
Surrogate: 1-Chlorooctane	77.1 %	70-130								
Surrogate: 1-Chlorooctadecane	80.9 %	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:	06/23/2011	Sampling Date:	06/20/2011
Reported:	06/28/2011	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT #89	Sampling Condition:	Cool & Intact
Project Number:	PLU 89	Sample Received By:	Jodi Henson
Project Location:	EDDY CO., NM		

Sample ID: HA 2 4' BGS (H101295-04)

BTEX 8260B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2011	ND	2.10	105	2.00	21.9		
Toluene*	<0.050	0.050	06/24/2011	ND	2.01	101	2.00	20.1		
Ethylbenzene*	<0.050	0.050	06/24/2011	ND	1.94	97.2	2.00	23.2		
Total Xylenes*	<0.150	0.150	06/24/2011	ND	5.84	97.4	6.00	24.8		

Surrogate: Dibromofluoromethane 85.8 % 80-120

Surrogate: Toluene-d8 104 % 80-120

Surrogate: 4-Bromofluorobenzene 108 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	06/23/2011	ND	464	116	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	<10.0	10.0	06/25/2011	ND	171	85.4	200	5.18			
DRO >C10-C28	<10.0	10.0	06/25/2011	ND	170	85.1	200	5.11			
EXT DRO >C28-C35	<10.0	10.0	06/25/2011	ND							

Surrogate: 1-Chlorooctane 49.0 % 70-130

Surrogate: 1-Chlorooctadecane 69.4 % 70-130

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 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	06/23/2011	Sampling Date:	06/20/2011
Reported:	06/28/2011	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT #89	Sampling Condition:	Cool & Intact
Project Number:	PLU 89	Sample Received By:	Jodi Henson
Project Location:	EDDY CO., NM		

Sample ID: HA 3 SURFACE (H101295-05)

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	06/23/2011	ND	464	116	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	<100	100	06/25/2011	ND	171	85.4	200	5.18		
DRO >C10-C28	23900	100	06/25/2011	ND	170	85.1	200	5.11		
EXT DRO >C28-C35	1970	100	06/25/2011	ND						
Surrogate: 1-Chlorooctane	89.4 %	70-130								
Surrogate: 1-Chlorooctadecane	74.8 %	70-130								

Sample ID: HA 3 2' BGS (H101295-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6080	16.0	06/23/2011	ND	464	116	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	<50.0	50.0	06/25/2011	ND	171	85.4	200	5.18		
DRO >C10-C28	1070	50.0	06/25/2011	ND	170	85.1	200	5.11		
EXT DRO >C28-C35	<50.0	50.0	06/25/2011	ND						
Surrogate: 1-Chlorooctane	55.1 %	70-130								
Surrogate: 1-Chlorooctadecane	69.6 %	70-130								

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 BEN J. ARGUIJO
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 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	06/23/2011	Sampling Date:	06/20/2011
Reported:	06/28/2011	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT #89	Sampling Condition:	Cool & Intact
Project Number:	PLU 89	Sample Received By:	Jodi Henson
Project Location:	EDDY CO., NM		

Sample ID: HA 3 4' BGS (H101295-07)

BTEX 8260B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2011	ND	2.10	105	2.00	21.9		
Toluene*	<0.050	0.050	06/24/2011	ND	2.01	101	2.00	20.1		
Ethylbenzene*	0.080	0.050	06/24/2011	ND	1.94	97.2	2.00	23.2		
Total Xylenes*	0.291	0.150	06/24/2011	ND	5.84	97.4	6.00	24.8		

Surrogate: Dibromofluoromethane 101 % 80-120
 Surrogate: Toluene-d8 95.2 % 80-120
 Surrogate: 4-Bromofluorobenzene 110 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6800	16.0	06/23/2011	ND	464	116	400	0.00		

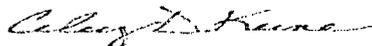
TPH 8015M		mg/kg		Analyzed By: ab							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<50.0	50.0	06/25/2011	ND	171	85.4	200	5.18			
DRO >C10-C28	1020	50.0	06/25/2011	ND	170	85.1	200	5.11			
EXT DRO >C28-C35	<50.0	50.0	06/25/2011	ND							

Surrogate: 1-Chlorooctane 112 % 70-130
 Surrogate: 1-Chlorooctadecane 133 % 70-130

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 BEN J. ARGUIJO
 P.O. Box 301
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 Fax To: (575) 396-1429

Received:	06/23/2011	Sampling Date:	06/20/2011
Reported:	06/28/2011	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT #89	Sampling Condition:	Cool & Intact
Project Number:	PLU 89	Sample Received By:	Jodi Henson
Project Location:	EDDY CO., NM		

Sample ID: HA 5 SURFACE (H101295-08)

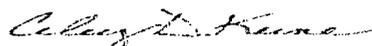
Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7360	16.0	06/23/2011	ND	464	116	400	0.00		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	138	100	06/25/2011	ND	171	85.4	200	5.18		
DRO >C10-C28	8710	100	06/25/2011	ND	170	85.1	200	5.11		
EXT DRO >C28-C35	585	100	06/25/2011	ND						

Surrogate: 1-Chlorooctane	101 %	70-130
Surrogate: 1-Chlorooctadecane	107 %	70-130

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Received:	06/23/2011	Sampling Date:	06/20/2011
Reported:	06/28/2011	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT #89	Sampling Condition:	Cool & Intact
Project Number:	PLU 89	Sample Received By:	Jodi Henson
Project Location:	EDDY CO., NM		

Sample ID: HA 5 4' BGS (H101295-09)
BTEX 8260B
mg/kg
Analyzed By: CMS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2011	ND	2.10	105	2.00	21.9	
Toluene*	<0.050	0.050	06/24/2011	ND	2.01	101	2.00	20.1	
Ethylbenzene*	<0.050	0.050	06/24/2011	ND	1.94	97.2	2.00	23.2	
Total Xylenes*	<0.150	0.150	06/24/2011	ND	5.84	97.4	6.00	24.8	

Surrogate: Dibromofluoromethane 90.8% 80-120

Surrogate: Toluene-d8 97.0% 80-120

Surrogate: 4-Bromofluorobenzene 106% 80-120

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	06/23/2011	ND	464	116	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	<10.0	10.0	06/25/2011	ND	184	91.8	200	2.31	
DRO >C10-C28	12.3	10.0	06/25/2011	ND	183	91.6	200	3.55	
EXT DRO >C28-C35	<10.0	10.0	06/25/2011	ND					

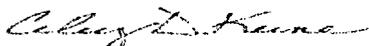
Surrogate: 1-Chlorooctane 53.8% 70-130

Surrogate: 1-Chlorooctadecane 74.6% 70-130

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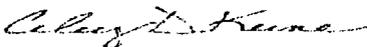
Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- 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

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