

Basin Environmental Service Technologies, LLC

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REMEDIATION SUMMARY & RISK-BASED SITE CLOSURE REQUEST

**BOPCO, LP
POKER LAKE UNIT #108 FLOWLINE
Eddy County, New Mexico
UNIT LTR "J" (NW/SE), Section 25, Township 24 South, Range 30 East
Latitude 32.18713° North, Longitude 103.83280° West**

Prepared For:

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

Prepared By:

**Basin Environmental Service Technologies, LLC
2800 Plains Highway
Lovington, New Mexico 88260**

December 2011

**Ben J. Arguijo
Project Manager**

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1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary & Risk-Based Site Closure Request* for the release site known as Poker Lake Unit #108 Flowline. The legal description of the release site is Unit Letter "J" (NW/SE), Section 25, Township 24 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.18713° North latitude and 103.83280° West longitude. The property affected by the release is owned by the United States Department of the Interior - Bureau of Land Management (BLM). Please reference Figure 1 for a "Site Location Map".

On August 17, 2011, BOPCO discovered a release had occurred near the Poker Lake Unit #108 pumping well. A two and seven-eighths inch (2 7/8") flowline in pastureland adjacent to the well pad developed a leak, resulting in a release of produced water and crude oil. The release was reported to the New Mexico Oil Conservation Division (NMOCD) Artesia District Office on August 22, 2011. The "Release Notification and Corrective Action" (Form C-141) indicated approximately five barrels (5 bbls) of produced water and five barrels (5 bbls) of crude oil were released, with no recovery. During initial response activities, the well was shut in to mitigate the release, and three (3) sections of pipe were replaced. The Form C-141 is provided as Appendix A. General photographs of the release site are provided as Appendix B.

The release affected an area of pastureland measuring approximately seven hundred square feet (700 ft²). During the site assessment, it was noted that the spill initially reported as the Poker Lake Unit #108 was actually on a flow line from Poker Lake Unit #84. It was also noted that there were at least twelve (12) clamps on the four (4) flow lines that run along the side of the lease road to/from the following pumping wells: Poker Lake Units #84, #105, #111, and #118. The flow path of the August 17, 2011, release noted as Poker Lake Unit #108 mingled with historical releases from these flowlines. Since the area affected by the August 17, 2011, release is indistinguishable from that affected by the historical releases, the releases were remediated simultaneously.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information was unavailable for Section 25, Township 24 South, Range 30 East. A depth-to-groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately four hundred feet (400') below ground surface (bgs). Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

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

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

NMOCD guidelines indicate the Poker Lake Unit #108 Flowline release site has an initial ranking score of zero (0) points. The soil remediation levels for a site with a ranking score of zero (0) points are as follows:

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

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

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On November 10, 2011, following initial response activities, delineation of impacted soil commenced at the site. A Photo-Ionization Detector (PID) and Hach Quantab chloride titrators were used to field-screen the horizontal and vertical extent of impacted soil. To facilitate remediation, the excavation was divided into two (2) sections: North Excavation and South Excavation. The North Excavation was located in pasture land approximately six feet (6') to the west of the lease road adjacent to the Poker Lake Unit #108 well pad. The South Excavation was located approximately three hundred and eighty feet (380') to the south-southeast of the North Excavation.

On November 14, 2011, excavation of impacted soil commenced in the South Excavation. From November 15 through November 23, 2011, approximately nine hundred cubic yards (900 cy) of impacted soil from the South Excavation was transported to Lea Land, Inc. ("Lea Land", NMOCD Permit # WM-01-035) for disposal. An equivalent volume of non-impacted soil purchased from Lea Land was stockpiled on-site for use as backfill.

On November 16, 2011, excavation of impacted soil commenced in the North Excavation. From November 18 through November 23, 2011, approximately two hundred and forty cubic yards (240 cy) of impacted soil from the North Excavation was transported to Lea Land for disposal. An equivalent volume of non-impacted soil purchased from Lea Land was stockpiled on-site for use as backfill.

On November 16, one (1) delineation trench (South Floor) was also advanced in the floor of the South Excavation to delineate the vertical extent of impacted soil. The delineation trench was advanced to a total depth of approximately twenty-four feet (24') bgs.

Seven (7) soil samples (North Wall, South Wall, East Wall North, West Wall North, North Floor, East Wall South, and West Wall South) collected from the floor and sidewalls of the South Excavation and four (4) soil samples (South Floor @ 6', South Floor @ 12', South Floor @ 18', and South Floor @ 24') from delineation trench "South Floor" were submitted to Cardinal Laboratories (Hobbs, New Mexico) for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX), total petroleum hydrocarbons (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 & Chlorides in Soil". Sample locations are depicted in Figure 3, "Site & Sample Location Map - South Excavation". Laboratory analytical reports are provided as Appendix C.

Laboratory analytical results indicated benzene and BTEX concentrations were less than the appropriate laboratory method detection limit (MDL) in all soil samples submitted. TPH concentrations ranged from 11.7 mg/Kg in soil sample South Floor @ 18' to 24.1 mg/Kg in soil sample East Wall South. Chloride concentrations ranged from 16.0 mg/Kg in soil sample North Wall to 9,200 mg/Kg in soil sample South Floor @ 6'. Review of laboratory analytical results indicated benzene, BTEX, and TPH concentrations were less than NMOCD regulatory standards in all soil samples submitted.

On November 18, 2011, one (1) delineation trench (Trench) was advanced in the floor of the North Excavation to delineate the vertical extent of impacted soil. The delineation trench was advanced to a total depth of approximately twenty feet (20') bgs.

Five (5) soil samples (North Wall, South Wall, East Wall, West Wall, and Floor) collected from the floor and sidewalls of the North Excavation and five (5) soil samples (Trench @ 8', Trench @ 12', Trench @ 16', Trench @ 18', and Trench @ 20') from delineation trench "Trench" were submitted to the laboratory

for analysis of BTEX, TPH, and/or chloride concentrations. Sample locations are depicted in Figure 2, "Site & Sample Location Map - North Excavation".

Laboratory analytical results indicated benzene and BTEX concentrations were less than the appropriate laboratory MDL in all soil samples submitted. TPH concentrations ranged from 12.2 mg/Kg in soil sample North Wall to 38.1 mg/Kg in soil sample West Wall. Chloride concentrations ranged from 16.0 mg/Kg in soil sample South Wall to 8,560 mg/Kg in soil sample Floor. Review of laboratory analytical results indicated benzene, BTEX, and TPH concentrations were less than NMOCD regulatory standards in all soil samples submitted.

Based on laboratory analytical results and field-screens, from November 17 through November 21, 2011, the South Excavation was backfilled in eighteen-inch (18") lifts, compacted, and contoured to fit the surrounding topography. Prior to backfilling, a 20 mil polyurethane liner was installed in the floor of the South Excavation at approximately four feet (4') bgs. Approximately one foot (1') of non-impacted pad sand was installed both above and below the liner to protect the liner from damage during installation and backfilling activities. Final dimensions of the South Excavation were approximately one hundred and twenty-three feet (123') in length, ranging in width from approximately twenty-seven feet (27') to approximately thirty-five feet (35'), and ranging in depth from approximately five feet (5') to approximately twenty-four feet (24') bgs.

Based on laboratory analytical results, on November 22 through November 23, 2011, the North Excavation was backfilled in eighteen-inch (18") lifts, compacted, and contoured to fit the surrounding topography. Prior to backfilling, a 20 mil polyurethane liner was installed in the floor of the North Excavation at approximately three feet (3') bgs. Approximately one foot (1') of non-impacted pad sand was installed both above and below the liner to protect the liner from damage during installation and backfilling activities. Final dimensions of the North Excavation were approximately sixty-six feet (66') in length, approximately fifteen feet (15') in width, and ranging in depth from approximately four feet (4') to approximately twenty feet (20') bgs.

The Poker Lake Unit #108 Flowline release site will be seeded with a BLM-approved seed mixture during the 2012 and 2013 calendar years.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

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

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

4.2 Decontamination of Equipment

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

4.3 Laboratory Protocol

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

5.0 SITE CLOSURE REQUEST

Soil samples collected from the floors and sidewalls of the Poker Lake Unit #108 Flowline North and South Excavations were analyzed by an NMOCD-approved laboratory, and concentrations of benzene, BTEX, TPH, and chlorides were less than the remediation action levels established for the site. Based on these laboratory analytical results, Basin recommends BOPCO provide the NMOCD Artesia District and the BLM a copy of this *Remediation Summary & Risk-Based Site Closure Request* and request the NMOCD grant site closure to the Poker Lake Unit #108 Flowline release site.

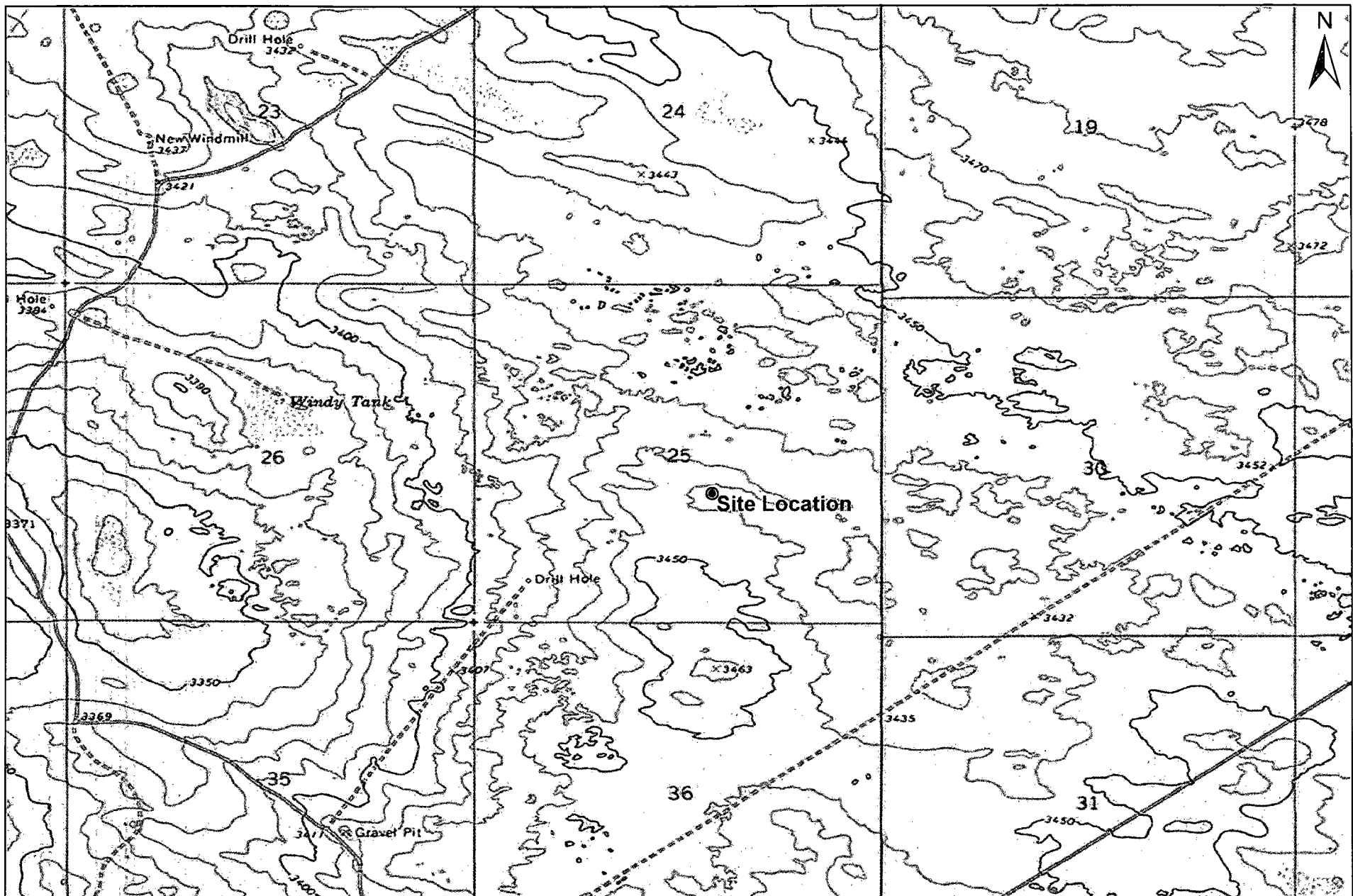
6.0 LIMITATIONS

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

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

7.0 DISTRIBUTION:

- Copy 1: Mike Bratcher
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 2)
1301 E. Grand Avenue
Artesia, 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




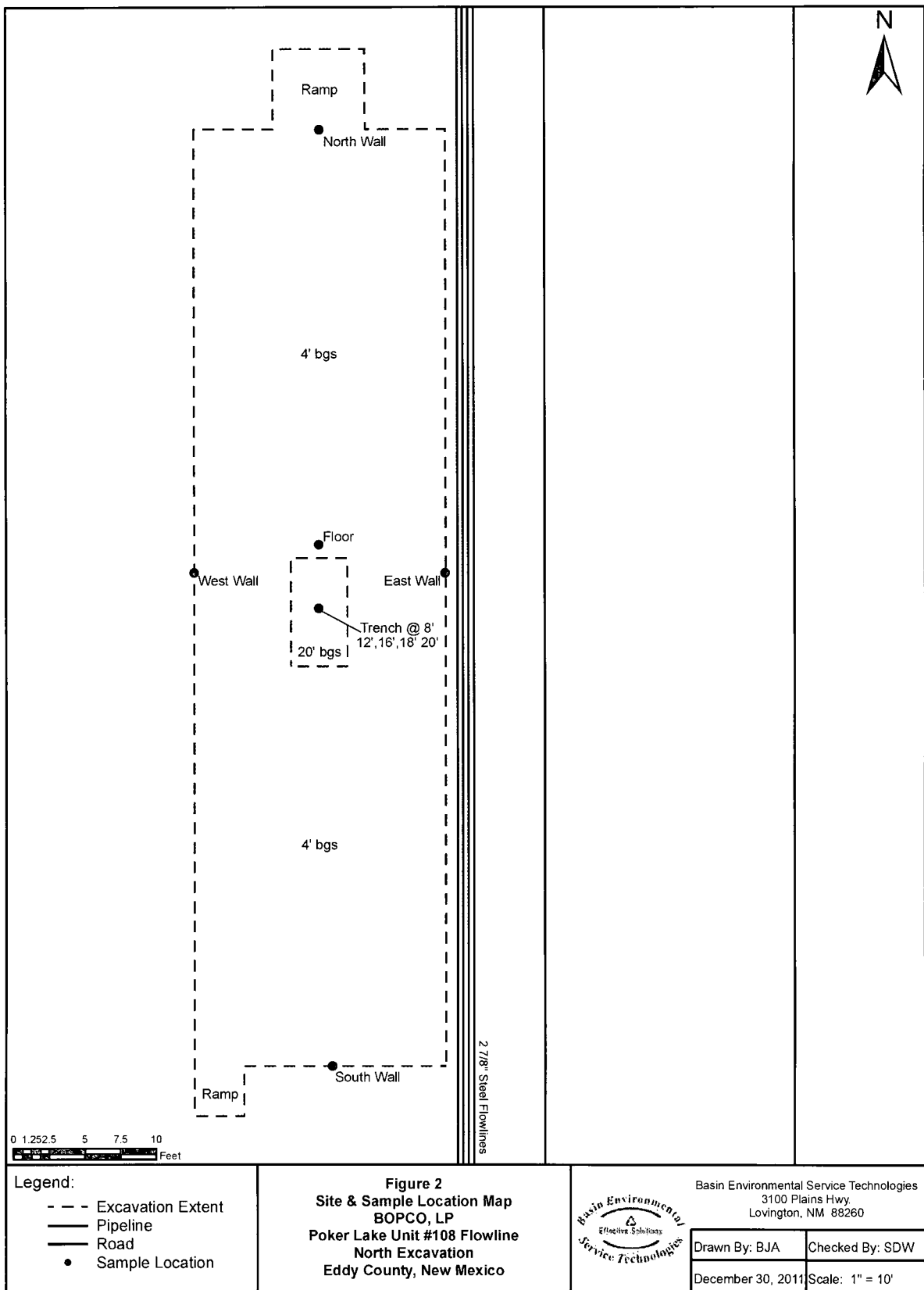
1,000 500 0 1,000 2,000

 Distance in Feet

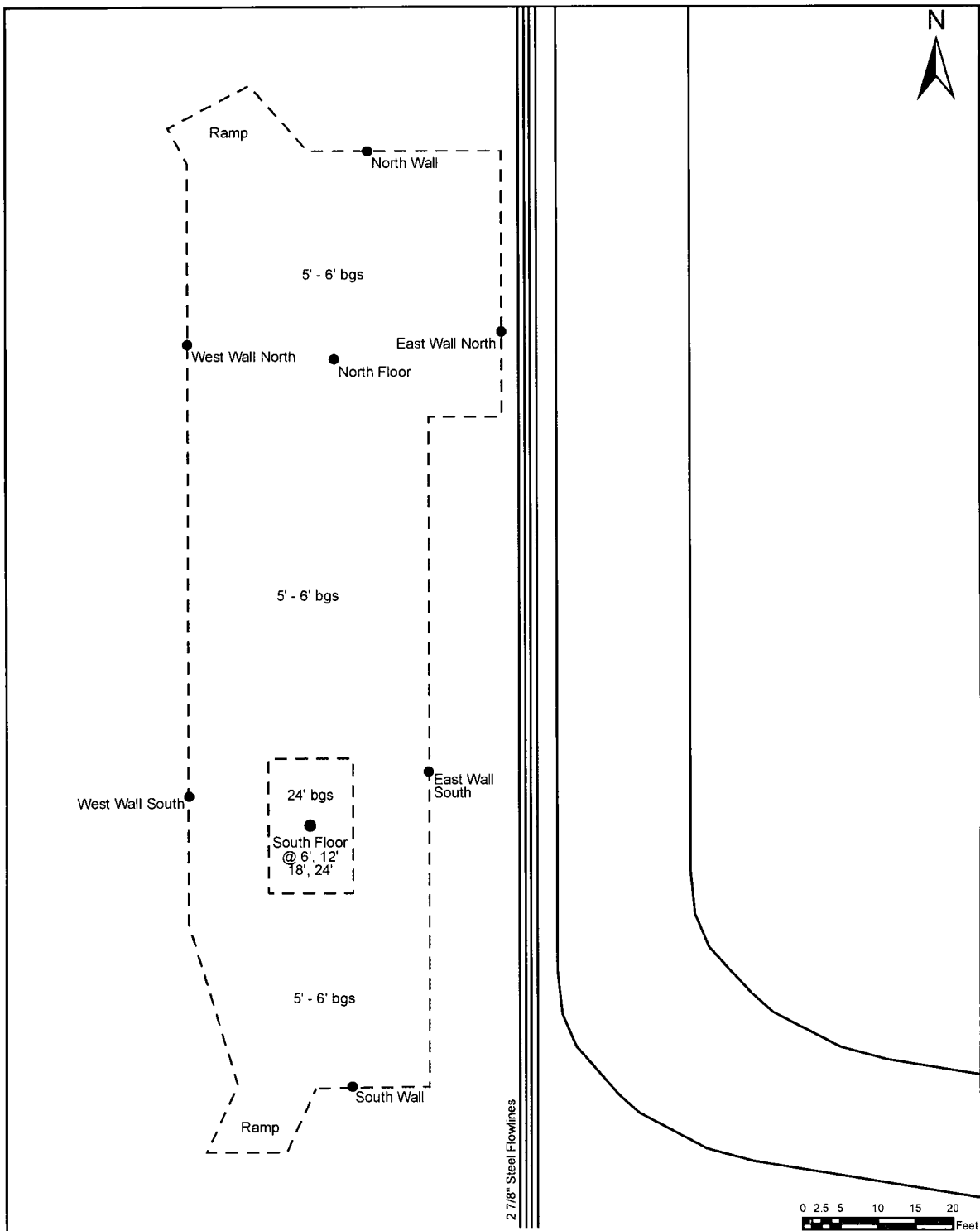
Figure 1
Site Location Map
BOPCO, LP
Poker Lake Unit #108 Flowline
Eddy County, New Mexico



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

Drawn By: BJA	Checked By: BRB
December 29, 2011	Scale: 1" = 2000'





- Legend:**
- - - Excavation Extent
 - Pipeline
 - Road
 - Sample Location

Figure 3
Site & Sample Location Map
BOPCO, LP
Poker Lake Unit #108 Flowline
South Excavation
Eddy County, New Mexico



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

Drawn By: BJA	Checked By: SDW
December 29, 2011	Scale: 1" = 20'

Tables

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDES IN SOIL

BOPCO, LP
POKER LAKE UNIT #108 FLOWLINE
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)		
North Wall	5'	11/16/2011	In-situ	-	-	-	-	-	<10.0	<10.0	12.3	12.3	16.0
South Wall	5'	11/16/2011	In-situ	-	-	-	-	-	<10.0	<10.0	23.0	23.0	112
East Wall North	5'	11/16/2011	In-situ	-	-	-	-	-	<10.0	<10.0	13.3	13.3	48.0
West Wall North	5'	11/16/2011	In-situ	-	-	-	-	-	<10.0	<10.0	11.8	11.8	192
North Floor	6'	11/16/2011	In-situ	-	-	-	-	-	<10.0	<10.0	12.5	12.5	8,320
East Wall South	5'	11/16/2011	In-situ	-	-	-	-	-	<10.0	<10.0	24.1	24.1	304
West Wall South	5'	11/16/2011	In-situ	-	-	-	-	-	<10.0	<10.0	17.1	17.1	576
South Floor @ 6'	6'	11/16/2011	In-situ	-	-	-	-	-	<10.0	<10.0	13.5	13.5	9,200
South Floor @ 12'	12'	11/16/2011	In-situ	-	-	-	-	-	<10.0	<10.0	12.3	12.3	2,720
South Floor @ 18'	18'	11/16/2011	In-situ	-	-	-	-	-	<10.0	<10.0	11.7	11.7	1,460
South Floor @ 24'	24'	11/16/2011	In-situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	12.1	12.1	800
North Wall	3'	11/18/2011	In-situ	-	-	-	-	-	<10.0	12.2	<10.0	12.2	144
South Wall	3'	11/18/2011	In-situ	-	-	-	-	-	<10.0	21.6	<10.0	21.6	16.0
East Wall	3'	11/18/2011	In-situ	-	-	-	-	-	<10.0	21.8	<10.0	21.8	528
West Wall	3'	11/18/2011	In-situ	-	-	-	-	-	<10.0	17.2	20.9	38.1	64.0
Floor	4'	11/18/2011	In-situ	-	-	-	-	-	<10.0	22.9	<10.0	22.9	8,560
Trench @ 8'	8'	11/18/2011	In-situ	-	-	-	-	-	<10.0	18.1	<10.0	18.1	5,040
Trench @ 12'	12'	11/18/2011	In-situ	-	-	-	-	-	<10.0	21.9	<10.0	21.9	6,640
Trench @ 16'	16'	11/18/2011	In-situ	-	-	-	-	-	<10.0	21.7	<10.0	21.7	2,280
Trench @ 18'	18'	11/18/2011	In-situ	-	-	-	-	-	<10.0	20.2	<10.0	20.2	2,040
Trench @ 20'	20'	11/18/2011	In-situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	22.2	<10.0	22.2	288
NMOCD Criteria				10				50				5,000	

- = Not analyzed.

Appendices

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

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District 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 #108 Flowline	Facility Type E&P	
Surface Owner Federal	Mineral Owner Federal	Lease No

LOCATION OF RELEASE

Unit Letter J	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 32.18713 Longitude W 103.83280

NATURE OF RELEASE

Type of Release: Produced water and crude oil	Volume of Release: 5 bbls of produced water and 5 bbls of crude oil.	Volume Recovered: 0
Source of Release: 2 7/8" flow line	Date and Hour of Occurrence 8/17/11, Hour unknown	Date and Hour of Discovery 8/17/11 1:30 a.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
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 flow line near well PLU-108 developed a leak. The well was shut in until daylight hours, 3 sections of pipe were replaced the next morning.		
Describe Area Affected and Cleanup Action Taken.* Approximately 700 sq. ft. of pasture land adjacent to the lease road was affected by the release. All of the fluid soaked into the ground. A remediation plan will be developed in accordance with the NMOCD and BLM remediation guidelines.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
OIL CONSERVATION DIVISION		
Signature: <i>Tony Savoie</i>	Approved by District Supervisor:	
Printed Name: Tony Savoie		
Title: Waste Mgmt. & Remediation Specialist	Approval Date:	Expiration Date:
E-mail Address: TASavoie@BassPct.com	Conditions of Approval:	
Date: 8/22/11	Phone: 432-556-8730	Attached <input type="checkbox"/>

RECEIVED
AUG 22 2011
NMOCD ARTESIA

* Attach Additional Sheets If Necessary

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003
Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

Initial Report

X 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 #108 Flowline	Facility Type	E&P

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

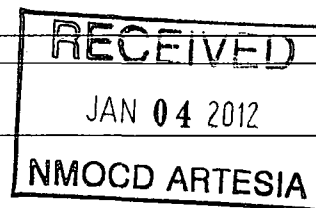
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	25	24S	30E					Eddy

Latitude 32.18713° North

Longitude 103.83280° West

NATURE OF RELEASE

Type of Release	Produced water and crude oil	Volume of Release	5 bbls of produced water and 5 bbls of crude oil	Volume Recovered	0
Source of Release	2 7/8" flow line	Date and Hour of Occurrence	8/17/11, Hour unknown	Date and Hour of Discovery	8/17/11, 1:30 a.m.
Was Immediate Notice Given?	Yes No X Not Required	If YES, To Whom?			
By Whom?		Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes X No	If YES, Volume Impacting the Watercourse.			
If a Watercourse was Impacted, Describe Fully.*					



Describe Cause of Problem and Remedial Action Taken.* A flow line near well PLU-108 developed a leak. The well was shut in until daylight hours. 3 sections of pipe were replaced the next morning.

Describe Area Affected and Cleanup Action Taken.* The release affected an area of pastureland measuring approximately seven hundred square feet (700 ft²). During the site assessment, it was noted that the spill initially reported as the Poker Lake Unit #108 was actually on a flow line from Poker Lake Unit #84. It was also noted that there were at least twelve (12) clamps on the four (4) flow lines that run along the side of the lease road to/from the following pumping wells: Poker Lake Units #84, #105, #111, and #118. The flow path of the August 17, 2011, release noted as Poker Lake Unit #108 mingled with historical releases from these flowlines. Since the area affected by the August 17, 2011, release is indistinguishable from that affected by the historical releases, the releases were remediated simultaneously, in accordance with NMOCD and BLM guidelines. Please reference the attached *Remediation Summary & Risk-Based Site Closure Request* for remediation details.

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.

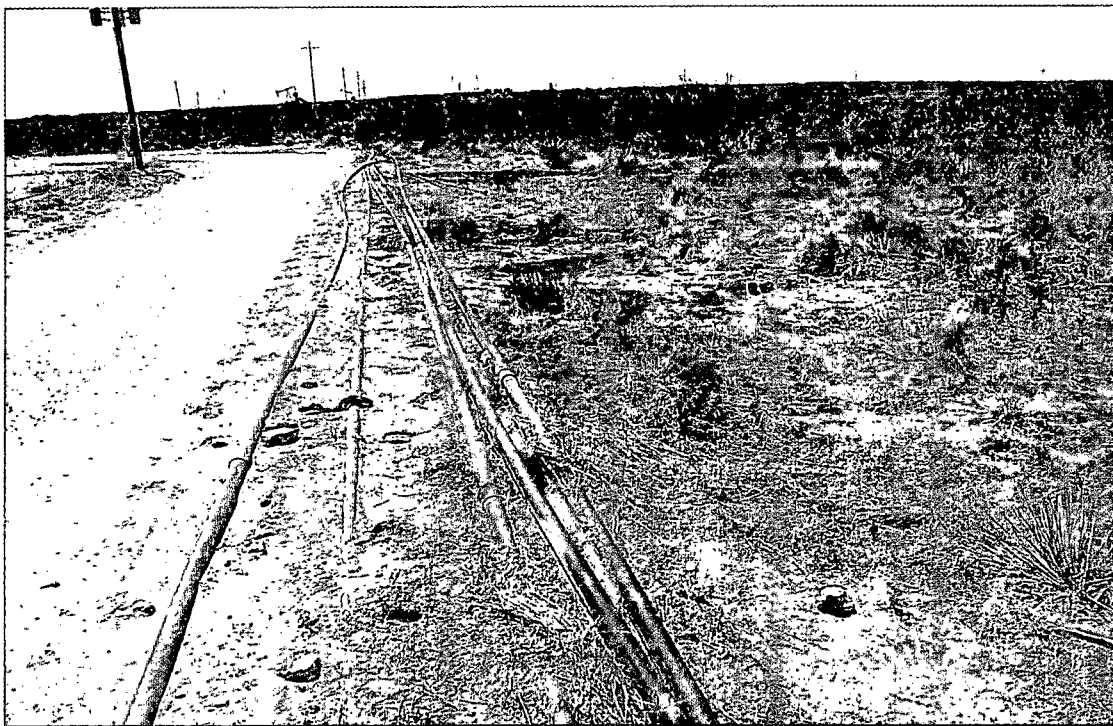
Signature:	OIL CONSERVATION DIVISION		
Printed Name: Tony Savoie	Approved by District Supervisor:		
Title: Waste Mgmt. & Remediation Specialist	Approval Date:	Expiration Date:	
E-mail Address: TASavoie@BassPet.com	Conditions of Approval:		
Date: 12/29/2011	Phone: (432)556-8730		

Appendix B

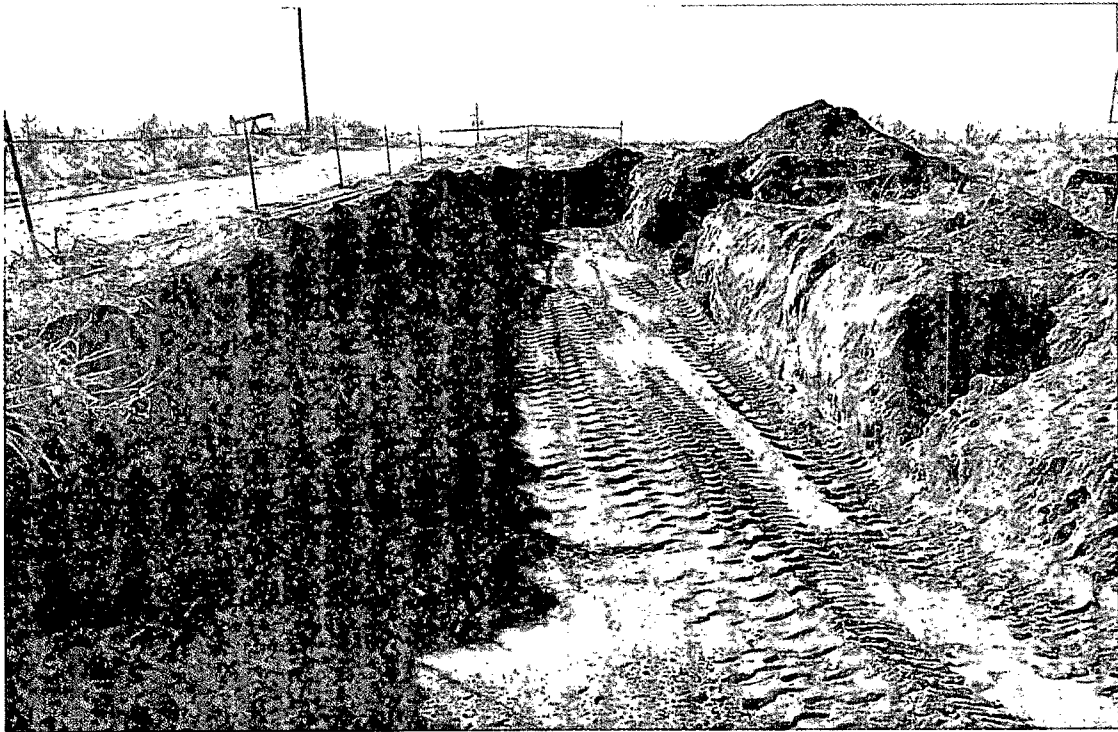
Photographs



Poker Lake Unit #108 Flowline - Release Site, North Excavation (Looking North-northwest)



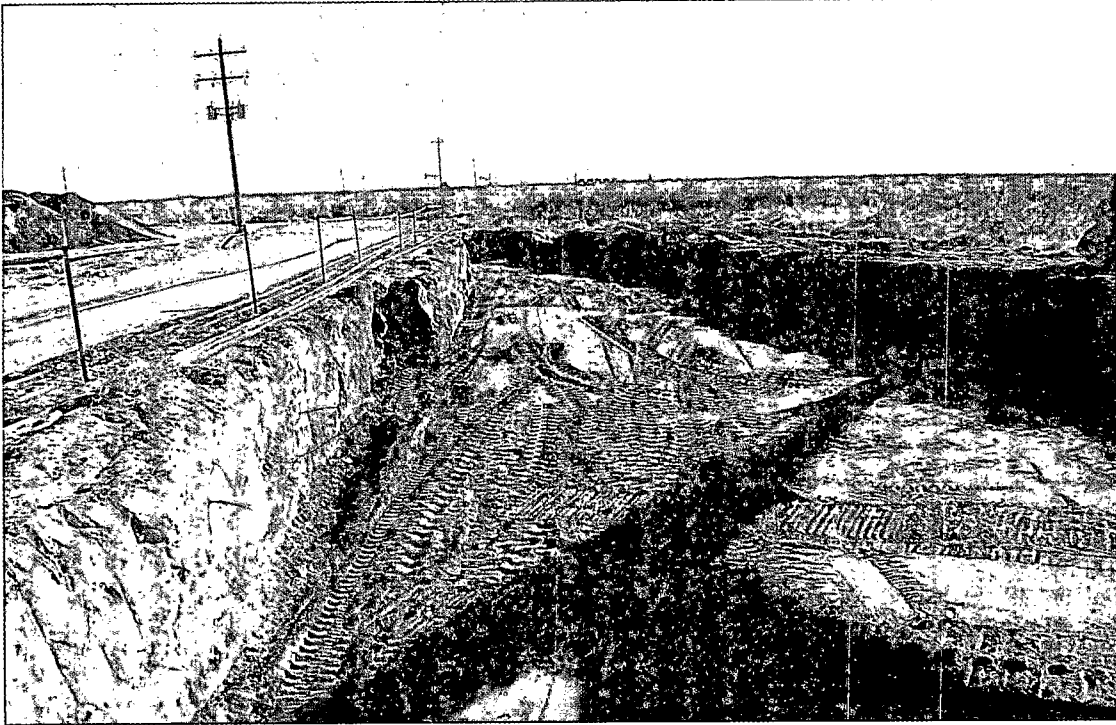
Poker Lake Unit #108 Flowline - Release Site, South Excavation (Looking South)



Poker Lake Unit #108 Flowline - North Excavation (Looking South)



Poker Lake Unit #108 Flowline - South Excavation (Looking North)



Poker Lake Unit #108 Flowline - South Excavation (Looking South)



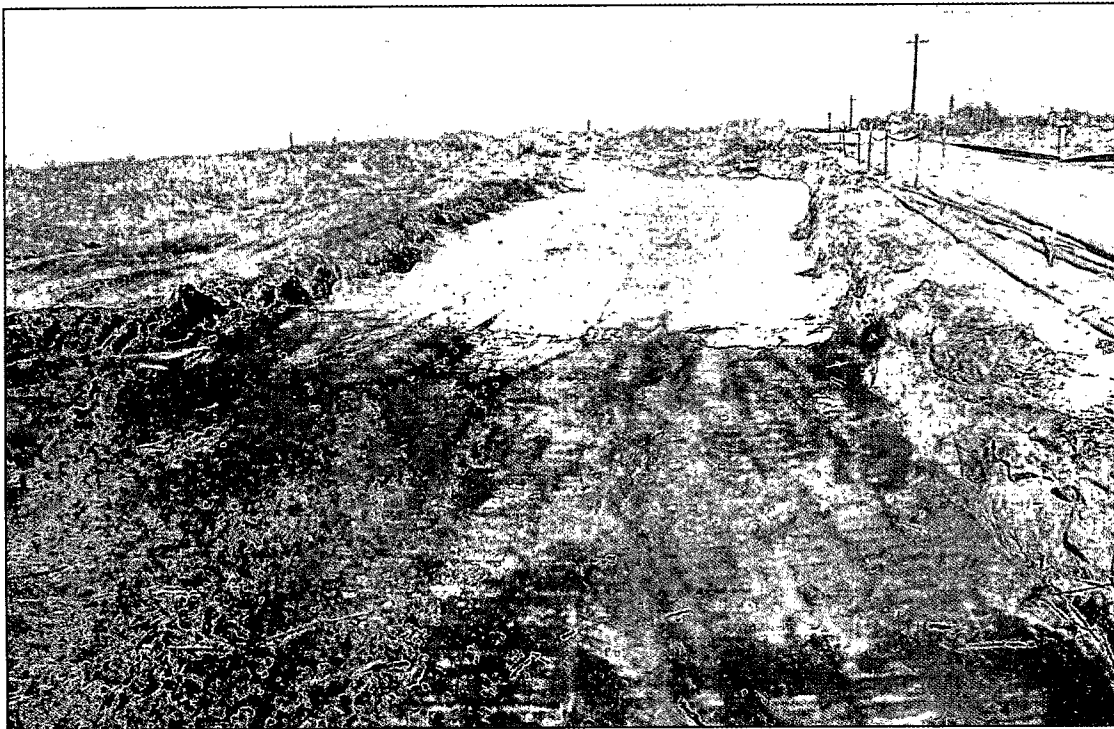
Poker Lake Unit #108 Flowline - Liner Installation, North Excavation



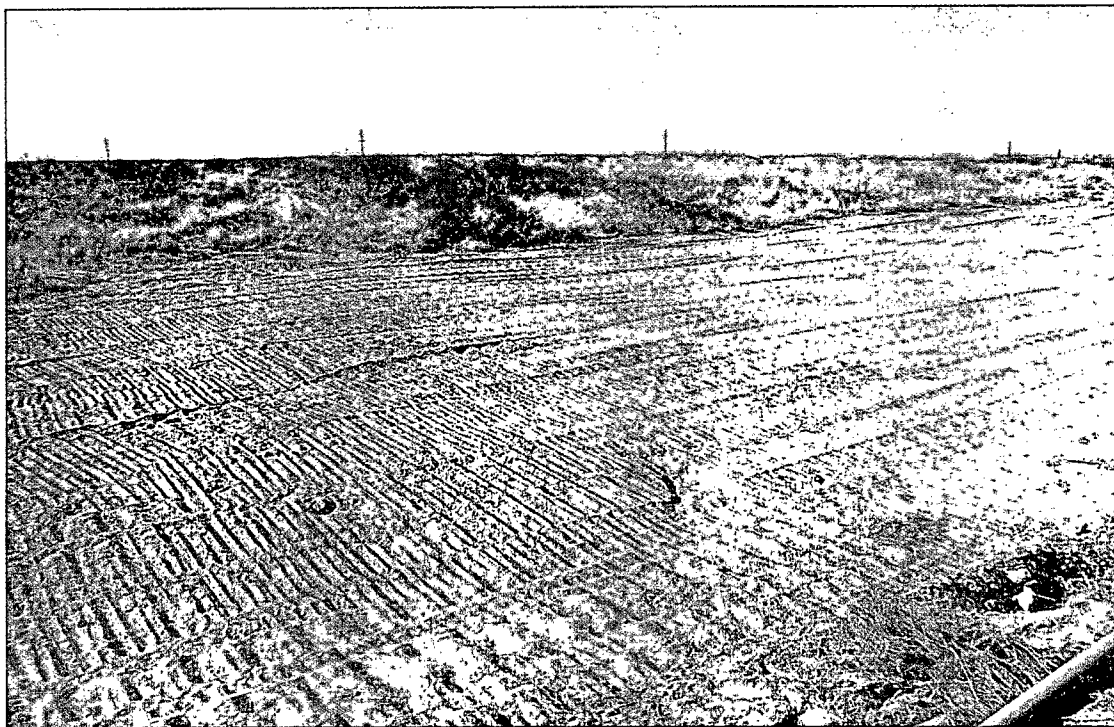
Poker Lake Unit #108 Flowline - Liner Installation, South Excavation



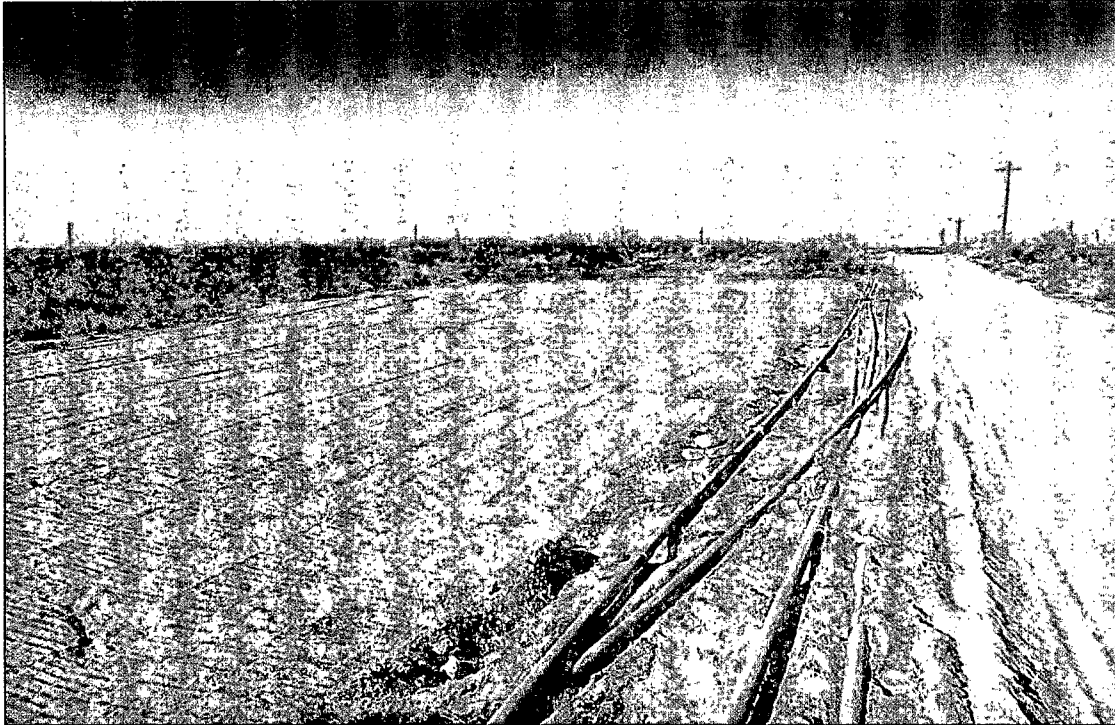
Poker Lake Unit #108 Flowline - North Excavation (Following Installation of Liner & Pad Sand)



Poker Lake Unit #108 Flowline - South Excavation (Following Installation of Liner & Pad Sand)



Poker Lake Unit #108 Flowline - North Excavation (Following Backfill, Looking Northwest)



Poker Lake Unit #108 Flowline - South Excavation (Following Backfill, Looking North)

Appendix C

Laboratory Analytical Reports

December 29, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE UNIT 108 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 11/16/11 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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 (V1, 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:	11/16/2011	Sampling Date:	11/16/2011
Reported:	12/29/2011	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 108 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY, NM		

Sample ID: SOUTH WALL 5' (H102496-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	11/21/2011	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/19/2011	ND	181	90.3	200	0.894		
DRO >C10-C28	<10.0	10.0	11/19/2011	ND	147	73.3	200	1.36		
EXT DRO >C28-C35	23.0	10.0	11/19/2011	ND						
<hr/>										
Surrogate: 1-Chlorooctane	78.3 %	55.5-154								
Surrogate: 1-Chlorooctadecane	103 %	57.6-158								

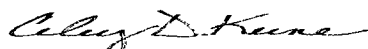
Sample ID: EAST WALL SOUTH 5' (H102496-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	11/21/2011	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/19/2011	ND	181	90.3	200	0.894		
DRO >C10-C28	<10.0	10.0	11/19/2011	ND	147	73.3	200	1.36		
EXT DRO >C28-C35	24.1	10.0	11/19/2011	ND						
<hr/>										
Surrogate: 1-Chlorooctane	83.1 %	55.5-154								
Surrogate: 1-Chlorooctadecane	111 %	57.6-158								

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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:	11/16/2011	Sampling Date:	11/16/2011
Reported:	12/29/2011	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 108 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY, NM		

Sample ID: WEST WALL SOUTH 5' (H102496-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	11/21/2011	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/19/2011	ND	181	90.3	200	0.894	
DRO >C10-C28	<10.0	10.0	11/19/2011	ND	147	73.3	200	1.36	
EXT DRO >C28-C35	17.1	10.0	11/19/2011	ND					
<hr/>									
Surrogate: 1-Chlorooctane	79.1 %	55.5-154							
Surrogate: 1-Chlorooctadecane	103 %	57.6-158							

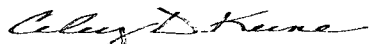
Sample ID: EAST WALL NORTH 5' (H102496-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/21/2011	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/19/2011	ND	181	90.3	200	0.894	
DRO >C10-C28	<10.0	10.0	11/19/2011	ND	147	73.3	200	1.36	
EXT DRO >C28-C35	13.3	10.0	11/19/2011	ND					
<hr/>									
Surrogate: 1-Chlorooctane	85.4 %	55.5-154							
Surrogate: 1-Chlorooctadecane	110 %	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:	11/16/2011	Sampling Date:	11/16/2011
Reported:	12/29/2011	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 108 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY, NM		

Sample ID: WEST WALL NORTH 5' (H102496-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/21/2011	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/19/2011	ND	181	90.3	200	0.894	
DRO >C10-C28	<10.0	10.0	11/19/2011	ND	147	73.3	200	1.36	
EXT DRO >C28-C35	11.8	10.0	11/19/2011	ND					
<i>Surrogate: 1-Chlorooctane</i>									
	80.8 %	55.5-154							
<i>Surrogate: 1-Chlorooctadecane</i>									
	103 %	57.6-158							


Sample ID: NORTH FLOOR 6' (H102496-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8320	16.0	11/21/2011	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/19/2011	ND	181	90.3	200	0.894	
DRO >C10-C28	<10.0	10.0	11/19/2011	ND	147	73.3	200	1.36	
EXT DRO >C28-C35	12.5	10.0	11/19/2011	ND					
<i>Surrogate: 1-Chlorooctane</i>									
	79.6 %	55.5-154							
<i>Surrogate: 1-Chlorooctadecane</i>									
	103 %	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:	11/16/2011	Sampling Date:	11/16/2011
Reported:	12/29/2011	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 108 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY, NM		

Sample ID: NORTH WALL 5' (H102496-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/21/2011	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/19/2011	ND	181	90.3	200	0.894	
DRO >C10-C28	<10.0	10.0	11/19/2011	ND	147	73.3	200	1.36	
EXT DRO >C28-C35	12.3	10.0	11/19/2011	ND					
<hr/>									
Surrogate: 1-Chlorooctane	80.4 %	55.5-154							
Surrogate: 1-Chlorooctadecane	104 %	57.6-158							


Sample ID: SOUTH FLOOR 6' (H102496-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	11/21/2011	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/19/2011	ND	181	90.3	200	0.894	
DRO >C10-C28	<10.0	10.0	11/19/2011	ND	147	73.3	200	1.36	
EXT DRO >C28-C35	13.5	10.0	11/19/2011	ND					
<hr/>									
Surrogate: 1-Chlorooctane	76.3 %	55.5-154							
Surrogate: 1-Chlorooctadecane	101 %	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:	11/16/2011	Sampling Date:	11/16/2011
Reported:	12/29/2011	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 108 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY, NM		

Sample ID: SOUTH FLOOR 12' (H102496-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	11/21/2011	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/19/2011	ND	181	90.3	200	0.894	
DRO >C10-C28	<10.0	10.0	11/19/2011	ND	147	73.3	200	1.36	
EXT DRO >C28-C35	12.3	10.0	11/19/2011	ND					

Surrogate: 1-Chlorooctane 79.7 % 55.5-154

Surrogate: 1-Chlorooctadecane 103 % 57.6-158

Sample ID: SOUTH FLOOR 18' (H102496-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	11/21/2011	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/19/2011	ND	181	90.3	200	0.894	
DRO >C10-C28	<10.0	10.0	11/19/2011	ND	147	73.3	200	1.36	
EXT DRO >C28-C35	11.7	10.0	11/19/2011	ND					

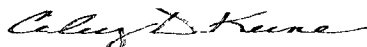
Surrogate: 1-Chlorooctane 84.5 % 55.5-154

Surrogate: 1-Chlorooctadecane 110 % 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:	11/16/2011	Sampling Date:	11/16/2011
Reported:	12/29/2011	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 108 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY, NM		

Sample ID: SOUTH FLOOR 24' (H102496-11)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2011	ND	2.09	104	2.00	0.977	
Toluene*	<0.050	0.050	11/22/2011	ND	1.98	99.2	2.00	0.795	
Ethylbenzene*	<0.050	0.050	11/22/2011	ND	2.26	113	2.00	0.221	
Total Xylenes*	<0.150	0.150	11/22/2011	ND	6.51	109	6.00	0.0467	

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 64.4-134

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	11/21/2011	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/19/2011	ND	181	90.3	200	0.894	
DRO >C10-C28	<10.0	10.0	11/19/2011	ND	147	73.3	200	1.36	
EXT DRO >C28-C35	12.1	10.0	11/19/2011	ND					


Surrogate: 1-Chlorooctane 79.8 % 55.5-154

Surrogate: 1-Chlorooctadecane 103 % 57.6-158

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* = 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

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Celey D. Keene, Lab Director/Quality Manager



1 of 2

Page 9 of 10

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Basin Environmental Services Technologies				BILL TO				ANALYSIS REQUEST															
Project Manager: Ben J Arguigo				P.O. #:																			
Address: PO Box 301				Company: BOPCO LP																			
City: Lovington State: NM Zip: 88260				Attn: Tony Sauvic																			
Phone #: 575-396-2328 Fax #: 575-396-1429				Address: 522 W Marmod																			
Project #: Project Owner: BOPCO LP				City: Corlsba d																			
Project Name: *Poker Lake unit #108				State: NM Zip: 88220																			
Project Location: EDDY NM				Phone #: 432 556-8730																			
Sampler Name: Jody Walters				Fax #:																			
FOR LAB USE ONLY																							
Lab I.D.		Sample I.D.		MATRIX				PRESERV.		SAMPLING													
H102496																							
1 South wall 5'		G 1		X				X		11-16-11 9:00													
2 EAST wall South 5'		G 1		X				X		11-16-11 9:10													
3 West wall South 5'		G 1		X				X		11-16-11 9:20													
4 EAST wall North 5'		G 1		X				X		11-16-11 9:30													
5 West wall North 5'		G 1		X				X		11-16-11 9:40													
6 North Floor 6'		G 1		X				X		11-16-11 9:50													
7 North wall 5'		G 1		X				X		11-16-11 10:00													
8 South Floor 6'		G 1		X				X		11-16-11 10:10													
9 South Floor 12'		G 1		X				X		11-16-11 10:30													
10 South Floor 18'		G 1		X				X		11-16-11 10:50													
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																							
Relinquished By: Jody Walters				Received By: Jodi Benson				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:											
Relinquished By:				Received By:				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:											
Delivered By: (Circle One)				Sample Condition				CHECKED BY: (Initials)				REMARKS:											
Sampler - UPS - Bus - Other:				Cool Intact				JH				Please Email Ben + Tony											
				Cool Intact								* Project name changed as per Ben. 12/29/11.											
				Cool Intact								ch											

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




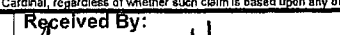


Page 10 of 10

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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Relinquished By: 		Date: 7/16/11	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: 4:30				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: 		Date:	Received By:	REMARKS:	
Time:					
Delivered By: (Circle One)		Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:		Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No			

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

December 29, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU 108 FLOWLINE NORTH

Enclosed are the results of analyses for samples received by the laboratory on 11/18/11 16:20.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

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

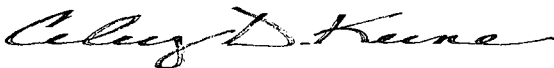
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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:	11/18/2011	Sampling Date:	11/18/2011
Reported:	12/29/2011	Sampling Type:	Soil
Project Name:	PLU 108 FLOWLINE NORTH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY CO, NM		

Sample ID: NORTH WALL 3' (H102522-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/22/2011	ND	432	108	400	3.64		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/21/2011	ND	169	84.4	200	21.3		
DRO >C10-C28	12.2	10.0	11/21/2011	ND	163	81.4	200	9.53		
EXT DRO >C28-C35	<10.0	10.0	11/21/2011	ND						
<hr/>										
Surrogate: 1-Chlorooctane	98.2 %	55.5-154								
Surrogate: 1-Chlorooctadecane	102 %	57.6-158								

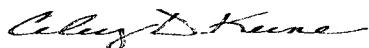
Sample ID: WEST WALL 3' (H102522-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/22/2011	ND	432	108	400	3.64		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	17.2	10.0	11/21/2011	ND	169	84.4	200	21.3		
DRO >C10-C28	20.9	10.0	11/21/2011	ND	163	81.4	200	9.53		
EXT DRO >C28-C35	<10.0	10.0	11/21/2011	ND						
<hr/>										
Surrogate: 1-Chlorooctane	95.6 %	55.5-154								
Surrogate: 1-Chlorooctadecane	99.8 %	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:	11/18/2011	Sampling Date:	11/18/2011
Reported:	12/29/2011	Sampling Type:	Soil
Project Name:	PLU 108 FLOWLINE NORTH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY CO, NM		

Sample ID: EAST WALL 3' (H102522-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	11/22/2011	ND	432	108	400	3.64		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/21/2011	ND	169	84.4	200	21.3		
DRO >C10-C28	21.8	10.0	11/21/2011	ND	163	81.4	200	9.53		
EXT DRO >C28-C35	<10.0	10.0	11/21/2011	ND						
<hr/>										
Surrogate: 1-Chlorooctane	92.0 %	55.5-154								
Surrogate: 1-Chlorooctadecane	97.9 %	57.6-158								

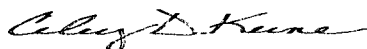
Sample ID: SOUTH WALL 3' (H102522-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/22/2011	ND	432	108	400	3.64		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/21/2011	ND	169	84.4	200	21.3		
DRO >C10-C28	21.6	10.0	11/21/2011	ND	163	81.4	200	9.53		
EXT DRO >C28-C35	<10.0	10.0	11/21/2011	ND						
<hr/>										
Surrogate: 1-Chlorooctane	107 %	55.5-154								
Surrogate: 1-Chlorooctadecane	109 %	57.6-158								

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Analytical Results For:

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

Received:	11/18/2011	Sampling Date:	11/18/2011
Reported:	12/29/2011	Sampling Type:	Soil
Project Name:	PLU 108 FLOWLINE NORTH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY CO, NM		

Sample ID: FLOOR 4' (H102522-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8560	16.0	11/22/2011	ND	432	108	400	3.64	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/21/2011	ND	169	84.4	200	21.3	
DRO >C10-C28	22.9	10.0	11/21/2011	ND	163	81.4	200	9.53	
EXT DRO >C28-C35	<10.0	10.0	11/21/2011	ND					
<hr/>									
Surrogate: 1-Chlorooctane	95.4 %	55.5-154							
Surrogate: 1-Chlorooctadecane	99.3 %	57.6-158							

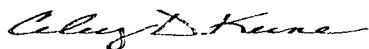
Sample ID: TRENCH 8' (H102522-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	11/22/2011	ND	448	112	400	3.51	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/21/2011	ND	169	84.4	200	21.3	
DRO >C10-C28	18.1	10.0	11/21/2011	ND	163	81.4	200	9.53	
EXT DRO >C28-C35	<10.0	10.0	11/21/2011	ND					
<hr/>									
Surrogate: 1-Chlorooctane	94.6 %	55.5-154							
Surrogate: 1-Chlorooctadecane	99.4 %	57.6-158							

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Analytical Results For:

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

Received: 11/18/2011
Reported: 12/29/2011
Project Name: PLU 108 FLOWLINE NORTH
Project Number: NONE GIVEN
Project Location: EDDY CO, NM

Sampling Date: 11/18/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TRENCH 12' (H102522-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6640	16.0	11/22/2011	ND	448	112	400	3.51	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/21/2011	ND	169	84.4	200	21.3	
DRO >C10-C28	21.9	10.0	11/21/2011	ND	163	81.4	200	9.53	
EXT DRO >C28-C35	<10.0	10.0	11/21/2011	ND					

Surrogate: 1-Chlorooctane 98.3 % 55.5-154

Surrogate: 1-Chlorooctadecane 104 % 57.6-158

Sample ID: TRENCH 16' (H102522-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	11/22/2011	ND	448	112	400	3.51	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/21/2011	ND	169	84.4	200	21.3	
DRO >C10-C28	21.7	10.0	11/21/2011	ND	163	81.4	200	9.53	
EXT DRO >C28-C35	<10.0	10.0	11/21/2011	ND					


Surrogate: 1-Chlorooctane 99.0 % 55.5-154

Surrogate: 1-Chlorooctadecane 104 % 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: 11/18/2011
Reported: 12/29/2011
Project Name: PLU 108 FLOWLINE NORTH
Project Number: NONE GIVEN
Project Location: EDDY CO, NM

Sampling Date: 11/18/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TRENCH 18' (H102522-09)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	11/22/2011	ND	448	112	400	3.51	
TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/21/2011	ND	169	84.4	200	21.3	
DRO >C10-C28	20.2	10.0	11/21/2011	ND	163	81.4	200	9.53	
EXT DRO >C28-C35	<10.0	10.0	11/21/2011	ND					

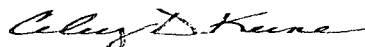
Surrogate: 1-Chlorooctane 94.7 % 55.5-154

Surrogate: 1-Chlorooctadecane 99.4 % 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:	11/18/2011	Sampling Date:	11/18/2011
Reported:	12/29/2011	Sampling Type:	Soil
Project Name:	PLU 108 FLOWLINE NORTH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY CO, NM		

Sample ID: TRENCH 20' (H102522-10)

BTX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2011	ND	2.09	104	2.00	0.977	
Toluene*	<0.050	0.050	11/23/2011	ND	1.98	99.2	2.00	0.795	
Ethylbenzene*	<0.050	0.050	11/23/2011	ND	2.26	113	2.00	0.221	
Total Xylenes*	<0.150	0.150	11/23/2011	ND	6.51	109	6.00	0.0467	

Surrogate: 4-Bromofluorobenzene (PIL) 116 % 64.4-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	11/22/2011	ND	448	112	400	3.51	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/21/2011	ND	169	84.4	200	21.3	
DRO >C10-C28	22.2	10.0	11/21/2011	ND	163	81.4	200	9.53	
EXT DRO >C28-C35	<10.0	10.0	11/21/2011	ND					

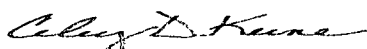
Surrogate: 1-Chlorooctane 87.6 % 55.5-154

Surrogate: 1-Chlorooctadecane 91.8 % 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

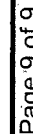
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Celey D. Keene, Lab Director/Quality Manager



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