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REMEDIATION SUMMARY AND SITE CLOSURE REQUEST

BOPCO, LP
POKER LAKE UNIT #68
Eddy County, New Mexico
Unit Letter "A" (NE/NE), Section 20, Township 24 South, Range 31 East
Latitude 32.207618° North, Longitude 103.797917° West
NMOCD Reference #2RP-

Prepared For:

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

Prepared By:
Basin Environmental Service Technologies, LLC
3100 Plains Highway
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June 2012

Project Manager

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1.0 INTRODUCTION AND BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary and Site Closure Request* for the release site known as Poker Lake Unit #68 (PLU #68). The legal description of the release site is Unit Letter "A" (NE/NE), Section 20, Township 24 South, Range 31 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.207618° North latitude and 103.797917° West longitude. The property affected by the release is owned by The United States Department of the Interior - Bureau of Land Management (BLM). Please reference Figure 1 for a "Site Location Map" and Figures 2a and 2b for "Site & Sample Location" maps.

On May 2, 2011, BOPCO discovered a release had occurred at the Poker Lake Unit #68 tank battery. A temporary tank used to vent produced gas had overflowed, resulting in a release of crude oil and produced water. The release was reported to the New Mexico Oil Conservation Division (NMOCD) Artesia District Office on May 2, 2011. The "Release Notification and Corrective Action" (Form C-141) indicated approximately one hundred and thirty-nine (139) barrels of crude oil and approximately sixteen (16) barrels of produced water were released, with approximately forty-five (45) barrels of crude oil recovered. During initial response activities a vacuum truck was utilized to recover free-standing fluids and the visibly stained surface was excavated to approximately two feet (2') below ground surface (bgs). Approximately one hundred and sixty cubic yards (160 yd³) of saturated soil was excavated and stockpiled on-site atop an impermeable liner pending final disposition. The release affected approximately one thousand, two hundred square feet (1,200 ft²) of caliche pad and four thousand square feet (4,000 ft²) of pasture. A Form C-141, dated May 2, 2011, is provided as Appendix A. General Photographs of the release site are provided as Appendix D.

On May 15, 2011, BOPCO discovered a second release had occurred at the Poker Lake Unit #68 tank battery. A temporary tank had overflowed, resulting in a release of crude oil and produced water. The release was reported to the NMOCD Artesia District Office on May 15, 2011. The Form C-141, dated May 15, 2011, indicated approximately eighty (80) barrels of crude oil and approximately thirty (30) barrels of produced water were released, with approximately fifty (50) barrels of crude oil recovered. During initial response activities a vacuum truck was utilized to recover free-standing fluids. The oil and produced water traveled in the same path as the May 2, 2011, release and pooled in two (2) areas that had previously been excavated during the initial response to that release. Approximately three hundred and forty cubic yards (340 yd³) of saturated soil was excavated and stockpiled on-site atop an impermeable liner pending final disposition. The release affected approximately one thousand, two hundred square feet (1,200 ft²) of caliche pad and two thousand square feet (2,000 ft²) of pasture. A Form C-141 dated May 15, 2011, is provided as Appendix B.

On May 16, 2011, an archeological survey was conducted by Boone Archeological Services of Carlsbad, New Mexico. The report indicated that Basin had sufficient space to remediate the area without disturbing any cultural resources. A copy of the Archaeological Survey (NMCRIS Investigation Abstract Form) is provided as Appendix C.

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 20, Township 24 South, Range 31 East. A depth to groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately three hundred and seventy-five feet (375') 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 #68 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)
- $TPH 5{,}000 \text{ mg/Kg (ppm)}$

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

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On May 6, 2011, following initial response activities, excavation of impacted soil commenced at the release site. A Photo-Ionization Detector (PID) and chloride field kit were used to field screen the horizontal and vertical extent of impacted soil and to guide the excavation. Confirmation soil samples were collected and submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis of benzene, ethylbenzene, toluene, and xylene (BTEX) using EPA SW-846-8021b, total petroleum hydrocarbon (TPH) using EPA SW-846-8015M, and/or chloride concentrations using EPA method 4500 Cl-B. The excavated soil was stockpiled on-site atop a 6-mil plastic liner pending final disposition.

On May 6, 2011, two (2) soil samples (Pooling Area 6 @ 4' and Pooling Area 6 @ 9') were collected in an effort to delineate the vertical and horizontal impact of the release. Soil samples were submitted to the laboratory for analysis of TPH and chloride concentrations. Table 1 summarizes the "Concentrations of Benzene, BTEX, TPH & Chloride in Soil". A "Site & Sample Location Map" is provided as Figure 2a. Laboratory analytical reports are provided as Appendix D.

Laboratory analytical results indicated chloride concentrations ranged from 288 mg/Kg for soil sample Pooling Area 6 @ 9' to 13,400 mg/Kg for soil sample Pooling Area 6 @ 4'. TPH concentrations ranged from less than the laboratory method detection limit (MDL) for soil samples Pooling Area 6 @ 9' to 73.5 mg/Kg for soil sample Pooling Area 6 @ 4'.

On May 9, 2011, a hand auger was utilized to collect twelve (12) soil samples (Pooling Area #1 @ 2', Pooling Area #1 @ 4', Pooling Area #2 @ 4', Pooling Area #2 @ 5', Pooling Area #3 @ Surface, Pooling Area #3 @ 6', Pooling Area #4 @ Surface, Pooling Area #4 @ 5', Pooling Area #5 @ Surface and Pooling Area #5 @ 5') to further delineate the vertical and horizontal impact of the release. Each of the soil samples were submitted to the laboratory for analysis of TPH concentrations, with the exception of soil sample Pooling Area #3 @ 4'. Soil samples Pooling Area #1 @ 2', Pooling Area #2 @ 4', Pooling Area #3 @ Surface, Pooling Area #3 @ 4', Pooling Area #4 @ Surface and Pooling Area #5 @ Surface were also analyzed for chloride concentrations.

Laboratory analytical results indicated TPH concentrations ranged from less than the laboratory MDL for soil samples Pooling Area #2 @ 5' to 13,451 mg/Kg for soil sample Pooling Area #5 @ Surface. Chloride concentrations ranged from less than the laboratory MDL for soil samples Pooling Area #1 @ 2', Pooling Area #2 @ 4' and Pooling Area #5 @ Surface to 2,600 mg/Kg for soil sample Pooling Area #3 @ Surface.

On May 9, 2011, one (1) five-point composite soil sample (Stockpile) was collected to characterize the stockpiled material. The soil sample was submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated the chloride concentration for soil sample Stockpile was 864 mg/Kg and the THP concentration was 17,786 mg/Kg.

On May 20, 2011, two (2) soil samples (Pooling Area 4A @ 8' and Pooling Area 5A @ 8') were collected to help characterize the nature of the release. Soil samples were submitted to the laboratory for analysis of TPH, chloride and BTEX constituent concentrations. Laboratory analytical results indicated TPH concentrations ranged from 102 mg/Kg for soil sample Pooling Area 4A @ 8' to 526 mg/Kg for soil sample Pooling Area 5A @ 8'. Laboratory analytical results indicated chloride concentrations ranged from 112 mg/Kg for soil sample Pooling Area 5A @ 8' to 144 mg/Kg for soil sample Pooling Area 4A @ 8'. BTEX concentrations were less than the appropriate laboratory MDL for each of the submitted soil samples. TPH, chloride and BTEX constituent concentrations were below NMOCD regulatory standards for each of the soil samples submitted.

On May 26, 2011, one (1) soil sample (Floor #3) was collected and submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated the concentrations of TPH and chloride were 26,020 mg/Kg and 800 mg/Kg, respectively. The excavation was advanced in the area represented by soil sample Floor #3.

On May 27, 2011, fourteen (14) confirmation soil samples (SE Corner Floor, SW Corner Floor, Center Floor, NE Corner Floor, NW Corner Floor, N Wall W End, N Wall E End, N Wall Middle, E Wall N End, E Wall Middle, W Wall S End, S Wall Middle, W Wall Middle and W Wall N End) were collected from the excavation floor and sidewalls and submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results

indicated TPH concentrations were less than the laboratory MDL for each of the submitted soil samples, with the exception of W Wall Middle, which exhibited a concentration of 11.7 mg/Kg. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory MDL for soil samples SW Corner Floor, NE Corner Floor, NW Corner Floor, N Wall E End, N Wall Middle, E Wall N End, E Wall Middle, W Wall S End, S Wall Middle, W Wall Middle and W Wall N End to 32.0 mg/Kg for soil sample Center Floor. Each of the soil samples exhibited TPH and chloride concentrations below NMOCD regulatory standards. Soil sample Center Floor was also analyzed for constituent concentrations of BTEX, which were determined to be less than the appropriate laboratory MDL and NMOCD regulatory standards.

On May 31, 2011, four (4) confirmation soil samples (Sec 6B Floor, Sec 6B W Wall, Sec 6B E Wall and Sec 6B N Wall) were collected from the excavation floor and sidewalls in Pooling Area 6. Soil samples were submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated TPH concentrations ranged from less than the laboratory MDL for soil samples Sec 6B W Wall and Sec 6B E Wall to 133 mg/Kg for soil sample Sec 6B Floor. Laboratory analytical results indicated chloride concentrations were less than the laboratory MDL for each of the submitted soil samples, with the exception of Sec 6B E Wall, which exhibited a concentration of 32.0 mg/Kg. Each of the soil samples exhibited TPH and chloride concentrations below NMOCD regulatory standards. Soil sample Sec 6B Floor was also analyzed for constituent concentrations of BTEX, which were determined to be less than the appropriate laboratory MDL and NMOCD regulatory standards.

On June 1, 2011, six (6) confirmation soil samples (Sec 4B Floor, Sec 4B South Wall, Sec 4B N Wall, Sec 2 & 3B Floor, Sec 2 & 3B S Wall and Sec 2 & 3B E Wall) were collected from the excavation floor and sidewalls in Pooling Areas 2 & 3 and 4. Soil samples were submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated TPH concentrations ranged from less than the laboratory MDL for soil samples Sec 4B N Wall and Sec 2 & 3B E Wall to 2,723 mg/Kg for soil sample Sec 4B South Wall. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory MDL for soil samples Sec 2 & 3B E Wall to 128 mg/Kg for soil sample Sec 2 & 3B S Wall. Each of the soil samples exhibited TPH and chloride concentrations below NMOCD regulatory standards. Soil samples Sec 4B Floor and Sec 2 & 3B Floor were also analyzed for constituent concentrations of BTEX. Benzene concentrations were less than the appropriate laboratory MDL. Total BTEX concentrations ranged from less than the appropriate laboratory MDL for soil sample Sec 4B Floor to 1.37 mg/Kg for soil sample Sec 2 & 3B Floor. Each of the soil samples exhibited benzene and total BTEX concentrations below NMOCD regulatory standards.

On June 6, 2011, five (5) confirmation soil samples (Area #7 Floor, Area #7 North Wall, Area #7 South Wall, Area #7 West Wall and Area #7 East Wall) were collected from the excavation floor and sidewalls in Pooling Area 7. Soil samples were submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated TPH concentrations were less than the laboratory MDL for each of the soil samples submitted. Laboratory analytical results indicated chloride concentrations ranged from 32.0 mg/Kg for soil samples Area #7 West Wall and Area #7 East Wall to 19,200 mg/Kg for soil sample Area #7 North Wall. Each of the soil samples exhibited TPH and chloride concentrations below NMOCD regulatory standards, with the exception of soil sample Area #7 North Wall. The excavation could not be advanced at that time in the area represented by soil sample Area #7 North Wall due to the presence of two (2) five hundred (500) barrel temporary "frac" tanks. Soil sample Area #7 Floor was also

analyzed for constituent concentrations of BTEX, which were determined to be less than the appropriate laboratory MDL and NMOCD regulatory standards.

During May and June, 2011, approximately two thousand, nine hundred and twenty cubic yards (2,920 yd³) of impacted material was transported to Lea Land, LLC (NMOCD Permit #WM-01-035), for disposal. The final dimensions of the excavation were approximately one hundred and fifteen feet (115') in width, one hundred fifty-six feet (156') in length and four (4') to twelve feet (12') in depth. Upon receiving verbal approval from a BLM representative, the excavated area was backfilled with locally purchased, non-impacted material. Following the backfilling of the excavation, areas affected by the remediation activities were contoured to fit the surrounding topography. The area was reseeded with BLM approved seed mixture during August 2011. Pictures of seeding activities are included in Appendix D.

On April 11, 2012, Basin began remediation activities on the area formerly occupied by the two (2) five hundred (500) barrel temporary "frac" tanks. A PID and chloride field kit were used to field screen the horizontal and vertical extent of impacted soil and to guide the excavation. Confirmation soil samples were collected and submitted to the laboratory for analysis. The excavated soil was stockpiled on-site pending final disposition. A "Site & Sample Location Map" of the "frac" tank area is provided as Figure 2b.

On April 11, 2012, five (5) confirmation soil samples (F.T.A. North Wall, F.T.A. South Wall, F.T.A. East Wall, F.T.A. West Wall and F.T.A. Floor) were collected from the excavation floor and sidewalls in the "frac" tank area. Soil samples were submitted to the laboratory for analysis of chloride concentrations. Soil sample F.T.A South Wall was also analyzed for concentrations of BTEX and TPH. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory MDL for soil samples F.T.A East Wall and F.T.A. Floor to 96.0 mg/Kg for soil sample F.T.A. South Wall. Soil sample F.T.A South Wall exhibited a TPH concentration of 42.0 mg/Kg and BTEX constituent concentrations less than the appropriate laboratory MDL. Each of the soil samples exhibited chloride, TPH and BTEX concentrations below NMOCD regulatory standards.

On April 12 and 13, 2012, approximately two hundred and eighty cubic yards (280 yd³) of impacted material was transported to Lea Land, LLC, for disposal. The final dimensions of the excavation were approximately fifty-three feet (53') in width, seventy-five feet (75') in length and one (1) to thirteen feet (13') in depth. Upon receiving verbal approval from a BLM representative, the excavated area was backfilled with locally purchased, non-impacted material. Following the backfilling of the excavation, areas affected by the remediation activities were compacted and contoured to fit the needs of the well pad.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

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

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

4.2 Decontamination of Equipment

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

4.3 Laboratory Protocol

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

5.0 SITE CLOSURE REQUEST

Soil samples collected from the floor and sidewalls of the excavation were analyzed by an NMOCD-approved laboratory, and concentrations of BTEX, TPH, and chloride were below the regulatory 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 Poker Lake Unit #68 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, NM 88210

Copy 2: James Amos

Bureau of Land Management

602 E. Greene Street Carlsbad, NM 88220

Copy 3: Tony Savoie

BOPCO, LP

522 W. Mermod, Suite 704

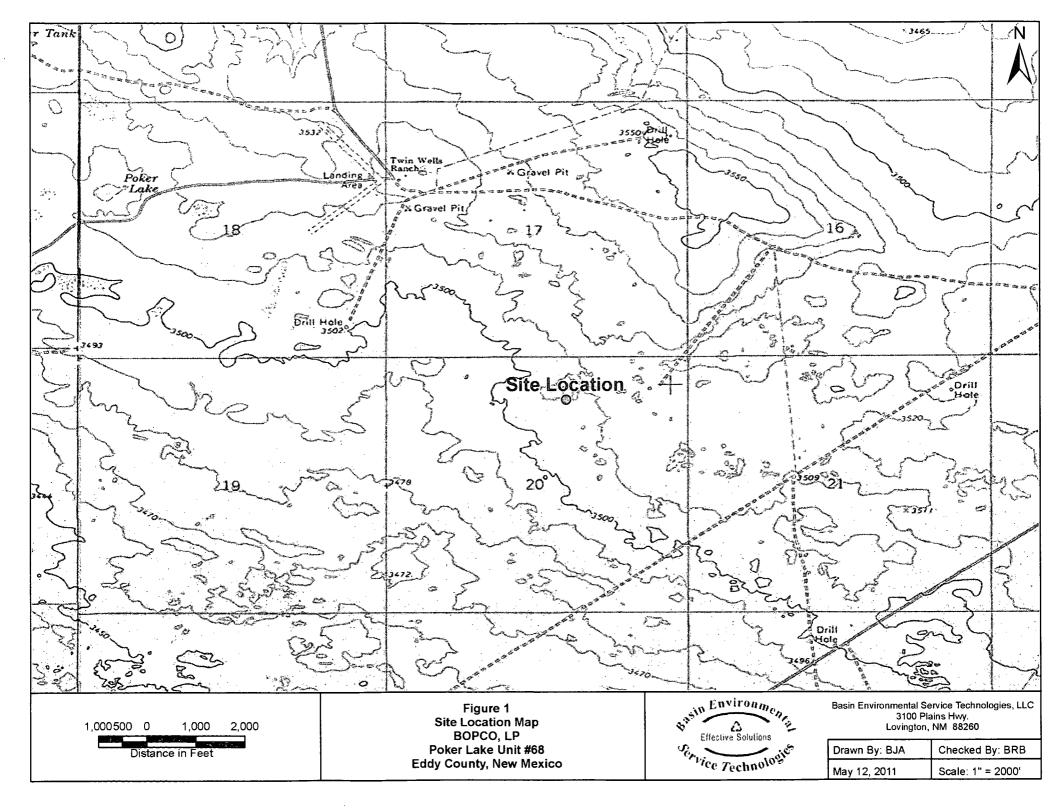
Carlsbad, NM 88220

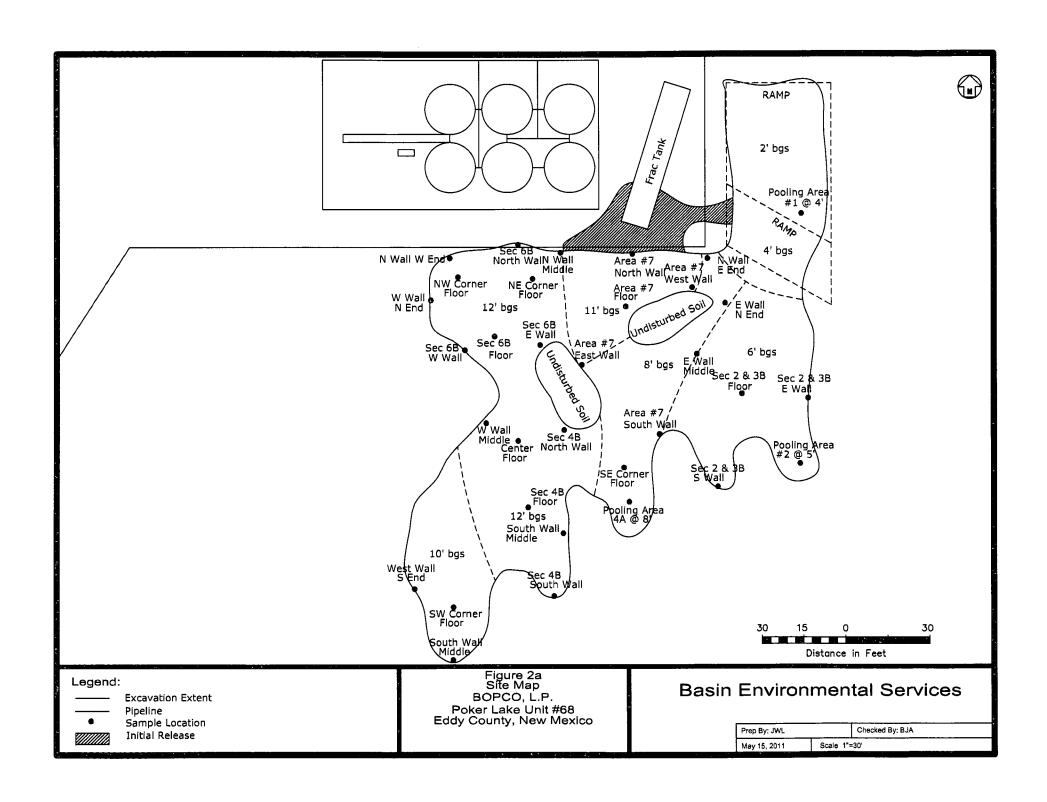
Copy 4: Basin Environmental Service Technologies, LLC

P.O. Box 301

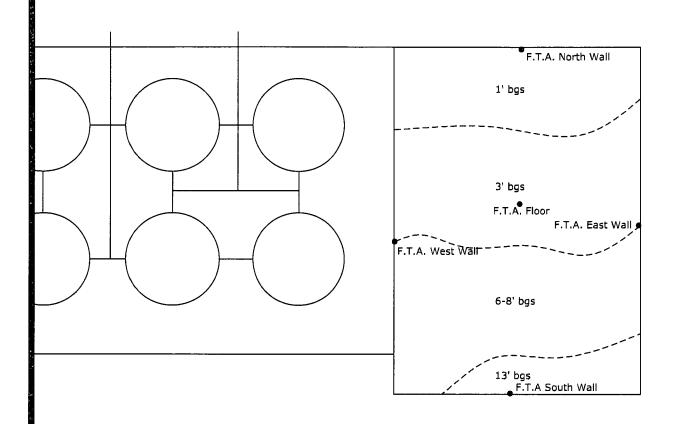
Lovington, NM 88260

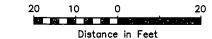
Figures











Legend:

Excavation Extent

Pipeline
Sample Location

Figure 2b Site Map (Frac Tank Area) BOPCO, L.P. Poker Lake Unit #68 Eddy County, New Mexico

Basin Environmental Services

Prep By: JWL	Checked By: BJA
May 15, 2011	Scale 1*=20'

Tables

TABLE 1 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

BOPCO, LP POKER LAKE UNIT #68 EDDY COUNTY, NEW MEXICO

		METHOD: EI	PA SW 846-80	21B, 5030		ME	THOD: 801	5M	TOTAL	E 300			
	SAMPLE	SAMPLE	SOIL			ETHYL-	TOTAL	TOTAL	GRO	DRO	ORO	TPH	
SAMPLE LOCATION	DEPTH	DATE	STATUS	BENZENE	TOLUENE	BENZENE	XYLENES	BTEX	C ₆ -C ₁₂	C12-C28	C ₂₈ -C ₃₅	C ₆ -C ₃₅	CHLORIDE
	(BGS)			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Pooling Area 6 @ 4'	4'	5/6/2011	Excavated	-	-	-	-	-	<10.0	73.5	-	73.5	13,400
Pooling Area 6 @ 9'	9'	5/6/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	-	<10.0	288
		KNEEDOM		AND SALES		ETER STORY			ALLESS OF	\$37.7924B	Carried Control	MAKE S	AND AND W
Pooling Area #1 @ 2'	2'	5/9/2011	Excavated	-	-	-	-	-	2,490	7,380	397	10,267	<16.0
Pooling Area #1 @ 4'	4'	5/9/2011	In-Situ	•	-	-	-	-	<10.0	18.6	<10.0	18.6	-
Pooling Area #2 @ 4'	4'	5/9/2011	Excavated	-	-	-	-	-	630	3,510	164	4,304	<16.0
Pooling Area #2 @ 5'	5'	5/9/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	-
Pooling Area #3 @ Surface	Surface	5/9/2011	Excavated	-	-	-	-	-	1,160	11,000	648	12,808	2,600
Pooling Area #3 @ 4'	4'	5/9/2011	Excavated	-	_	-	-	-	-	-	-	-	2,320
Pooling Area #3 @ 6'	6'	5/9/2011	In-Situ	-	_	-	_	-	39.2	487	28.9	555	-
Pooling Area #4 @ Surface	Surface	5/9/2011	Excavated	-		-	-	-	1,340	10,300	754	12,394	16.0
Pooling Area #4 @ 5'	5'	5/9/2011	In-Situ	-	-	-	-	-	<10.0	78.4	<10.0	78.4	-
Pooling Area #5 @ Surface	Surface	5/9/2011	Excavated	-	-	-	-	-	1,250	11,400	801	13,451	<16.0
Pooling Area #5 @ 5'	5'	5/9/2011	In-Situ	-	-	-	-	-	<10.0	119	<10.0	119	_
Stockpile	N/A	5/9/2011	Excavated	-	-	-	-	-	4,570	12,500	716	17,786	864
21、1000年1000年100日	CELL SERVICE	Water State of	· Caracita		是中国社会会会	学位为关键块	杨宁公汉	FOR THE PARTY		种物型的		2012年初	all marin
Pooling Area 4A @ 8'	8'	5/20/2011	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	102	<10.0	102	144
Pooling Area 5A @ 8'	8'	5/20/2011	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	10.7	484	30.9	526	112
STATES AND ARROWS					7402359	到 的 等,还对	The state of	经分配				Market Land	是多一个社会
Floor #3	4'	5/26/2011	Excavated	-	-	-	-	-	10,600	14,200	1,220	26,020	800
为1、2014年发展的各种数据1990分	经通过	in the section	SE BOS		The Thirty	等等是完於	A. A. C. W. 1995	17/2/77			源特別發	MARKET A	
SE Corner Floor	8'	5/27/2011	In-Situ		•		-	<u>-</u>	<10.0	<10.0	<10.0	<10.0	16.0
SW Corner Floor	10'	5/27/2011	In-Situ	4	-		-	-	<10.0	<10.0	<10.0	<10.0	<16.0
Center Floor	12'	5/27/2011	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	32.0
NE Corner Floor	12'	5/27/2011	In-Situ	ı	-	-	-	-	<10.0	<10.0	<10.0	<10.0	<16.0
NW Corner Floor	12'	5/27/2011	In-Situ	ı	-	,	-	-	<10.0	<10.0	<10.0	<10.0	<16.0
N Wall W End	12'	5/27/2011	In-Situ	ı			-	-	<10.0	<10.0	<10.0	<10.0	16.0
N Wall E End	8'	5/27/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	<16.0
N Wall Middle	11'	5/27/2011	In-Situ	•	-	-			<10.0	<10.0	<10.0	<10.0	<16.0
E Wall N End	8'	5/27/2011	In-Situ	-	-	_		-	<10.0	<10.0	<10.0	<10.0	<16.0
E Wall Middle	8'	5/27/2011	In-Situ		-	-	-		<10.0	<10.0	<10.0	<10.0	<16.0
W Wall S End	10'	5/27/2011	In-Situ	-	-	-		-	<10.0	<10.0	<10.0	<10.0	<16.0
S Wall Middle	12'	5/27/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	<16.0
W Wall Middle	12'	5/27/2011	In-Situ	-	-	-	_	-	<10.0	11.7	<10.0	11.7	<16.0
W Wall N End	12'	5/27/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	<16.0
SEARCH MONTHER COM		10.5000 强烈	100	N. W. W. W.			A CONTRACTOR		MARKET SA	10.75	是的家	るながの数	提生人的
Sec 6B Floor	9'	5/31/2011	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	133	<10.0	133	<16.0
Sec 6B W Wall	8'	5/31/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	<16.0
Sec 6B E Wall	8'	5/31/2011	In-Situ	•	-	-	-	_	<10.0	<10.0	<10.0	<10.0	32.0

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

BOPCO, LP POKER LAKE UNIT #68 EDDY COUNTY, NEW MEXICO

	041451.5				METHOD: EI	PA SW 846-80	21B, 5030		ME	THOD: 801	5M	TOTAL	E 300
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
Sec 6B N Wall	8'	5/31/2011	In-Situ		-	-	-	-	<10.0	97.5	<10.0	97.5	<16.0
CANNEL MESSAGA	名学学が必要	域的的基础	STATE OF THE STATE		工學是被提				100 M	PERSONAL PROPERTY.		HE MAN	では、大概が必然
Sec 4B Floor	10'	6/1/2011	In-Situ	< 0.050	<0.050	<0.050	<0.150	<0.150	<10.0	39.2	<10.0	39.2	64.0
Sec 4B South Wall	9'	6/1/2011	In-Situ	-	-	-	-	-	816	1,810	97.4	2,723	32.0
Sec 4B N Wall	9'	6/1/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	32.0
Sec 2 & 3B Floor	6'	6/1/2011	In-Situ	<0.050	0.171	0.181	1.02	1.37	61.0	666	37.3	764	32.0
Sec 2 & 3B S Wall	5'	6/1/2011	In-Situ	-	-	-	-	-	<10.0	58.6	<10.0	58.6	128
Sec 2 & 3B E Wall	3'	6/1/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	<16.0
A PROPERTY OF THE PROPERTY OF	HINTEN E		1000年数	J. 安全的2720	見ばいた別人を全	建筑域的 类	25.5.5	SKAP IX	\$ 4.10000	A STATE OF THE STA	5.4%高度		*
Area #7 Floor	12'	6/6/2011	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	48.0
Area #7 North Wall	11'	6/6/2011	Excavated	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	19,200
Area #7 South Wall	6'	6/6/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	48.0
Area #7 West Wall	11'	6/6/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	32.0
Area #7 East Wall	11'	6/6/2011	In-Situ		-	-	-	-	<10.0	<10.0	<10.0	<10.0	32.0
第2010年的1970年的1970年	Cara Salah	经实现的			E FORTE S	Carlot State of the State of th	5.500		CAPUNG.	11.14.395	WEAR I		100
F.T.A. North Wall	1'	4/11/2012	In-Situ		-	-	-	-	•	-	-	-	32.0
F.T.A. South Wall	13'	4/11/2012	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	24.6	17.4	42.0	96.0
F.T.A. East Wall	7'	4/11/2012	In-Situ	-	-	-	-	-	-	-	-	•	<16.0
F.T.A. West Wall	7'	4/11/2012	In-Situ	-	-	-	-		•	-	-	-	32.0
F.T.A. Floor	3'	4/11/2012	In-Situ	-	-	-	-	-	-	-	-	•	<16.0
也是在1000mm。 1000mm。	(* 75 k. 77 5	数などのが	4.43	in Philippian	July 1787	多种等等	法的公的人员	Water Control	が表示が対			建筑	
NMOCD Criteria				10				50				5,000	1,000

^{- =} Not analyzed.

Appendices

Appendix A
Release Notification &
Corrective Action
May 2, 2011
(Form C-141)

District 1 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

Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised October 10, 2003

Oil Conservation Division 1220 South St. Francis Dr. Conto En NIM 27505

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

				50	una r	E, INIVI 0/3	CU						
			Rele	ase Notific	atio	n and Co	orrective A	ction					
						OPERA'	ror	🛛 Init	ial Report 🔲 Final Repor				
Name of Co						Contact Tor							
				ad, N.M. 88220		Telephone No. 432-556-8730							
Facility Na	me Poker I	Lake Unit #6	8		L	Facility Type E&P							
Surface Ow	mer Federa	ત્રી		Mineral C)wner I	Federal		Lease	No				
				LOCA	TIO	N OF REI	LEASE	•					
Unit Letter A	Section 20	Township 24S	Range 31E	Feet from the	North	/South Line	Feet from the	East/West Line	County Eddy				
			La	titude_N 32.20				7					
·				<u>NAT</u>	URE	OF RELI		· · · · · · · · · · · · · · · · · · ·					
Type of Rele	ase: Produc	ed water and	crude oil	,		crude oil an water.	Release: 139 bbl nd 16 bbls produc	ed bbls prod	Recovered: 45 bbls crude oil, 0 fuced water				
Source of Re	lease: Temp	oorary tank ov	erflow				lour of Occurrenc ur unknown	Date and 5/2/11 10	Hour of Discovery 0:00 a.m.				
Was Immedi	ate Notice (Yes [No 🗌 Not Re	equired	If YES, To Mike Brate							
By Whom? 7							lour 5/2/11 10:51		The second secon				
Was a Water	course Read		Yes 🛭	No		If YES, Volume Impacting the Watercourse. RECEIVED MAY 12 2011							
sales line ove	rflowed due		s vessels v	vere overloaded v					vent of high line pressure on the tank for a period of				
approximately easement and caliche well p The soil samp	y 4,000 sq. remove the pad near the ples will be	ft. of pasture. heavily sature release site. Canalyzed for T	All of the ated soil in Monday PH and C	free standing fluid the pasture. App 5/9/11 samples the hloride. A remedi	d was re proximati were colliation pl	moved with a tely 160 cubic llected to dete an will be det	vacuum truck, T yards of saturate rmine the vertical veloped in accord	he BLM granted point of soil was excaval extent in the area ance with the NM	was affected by the release, and permission to get off our ted and placed on plastic on the is where the fluid had pooled. OCD and BLM remediation verify the release volumes.				
regulations al public health should their o or the environ	I operators a or the envir perations ha ament. In ac	are required to onment. The a ave failed to a	report and acceptance dequately.	1/or file certain re e of a C-141 repor investigate and re	lease no n by the mediate	otifications and NMOCD mate contamination	d perform correct rked as "Final Re on that pose a thre	tive actions for rel port" does not rel at to ground wate	suant to NMOCD rules and eases which may endanger leve the operator of liability r, surface water, human health compliance with any other				
		_	7				OIL CONS	ERVATION	DIVISION				
Signature: / Cuy Dave						Approved by I	District Superviso	r:	-				
Printed Name	: Tony Savo	oie											
Title: Waste N	/lgmt.& Rei	mediation Spe	cialist			Approval Date: Expiration Date:			Date:				
E-mail Addres	ss: TASavo	ic@BassPet.co	om			Conditions of .	Approval:		Attached [
Date: 5/11/11			1	hone:432-556-8°	730								

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

State of New Mexico Energy Minerals and Natural Resources

Submit 2 Copics to appropriate District Office in accordance with Rule 116 on back

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

side of form

Form C-141

Revised October 10, 2003

			Rele	ease Notific	catio	on and Co	orrective A	ction	1				
		·	·			OPER			Ini	tial Report	X Final Repor		
Name of Co		BOPCO, L		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Contact	Tony Savoie	0770			-		
Address Facility Na		r Lake Unit		lsbad, NM 8822	.0	Telephone No. (432) 556-8730 Facility Type E & P							
Facility Ival	ille Foke.	Lake Office	7700			Facility Type E&P							
Surface Ow	ner Federa	<u>. 1</u>		Mineral ()wner				Lease 1	No.			
				LOCA	ATIC	N OF RE	LEASE						
Unit Letter	Section	Township	Range	Feet from the		h/South Line	Feet from the	East/\	Vest Line	County			
A	20	248	31E							Eddy			
Ĺ	<u> </u>	l		20.00000	L					L			
Latitude N. 32.207618 Longitude W 103.797917													
				NAT	URI	E OF RELI							
Type of Rele	ase Produc	ed Water and	l crude oil				Release 139 bbls				obls crude oil, 0		
						water.	nd 16 bbls produc	ced	bbis prod	uced water			
						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
Source of Re	lease Temp	orary tank ov	erflow			1	lour of Occurrence	ce		Hour of Discov	ery		
Was Immedia	ate Notice C	Given?				5/2/11 Hou If YES, To		1	5/2/11 10	:00 a.m.			
			Yes No	Not Required		Mike Brate							
By Whom?						Date and H	our: 5/2/11 10:51	la.m.					
Was a Water	course Reac		Van 1521	NI-		If YES, Vo	lume Impacting	the Wate	rcourse.				
	_~-		Yes 🛛										
If a Watercou	rse was Imp	pacted, Descri	be Fully.*										
Describe Cau	se of Proble	m and Remed	lial Action	Taken.* A tem	porary	tank that was s	set to vent produc	ed gas ir	nto in the e	vent of a high l	ine pressure on		
the sales line	overflowed	due to the pro	ocess vesso	els were overload									
approximately	y 12 hours. ' Affected a	The problem v	was correct	ted. en.* The release a	effecter	d approximately	v 1 200 sa ft of	valicho r	and and 4.0	OO sa ft of par	eture The		
				1 standards. Pleas									
for details of	remediation	activities.						-		·			
Lhereby certif	fy that the ir	formation giv	ven above	is true and compl	ete to t	he best of my l	enowledge and m	nderstand	d that nursi	ant to NMOCI	O rules and		
regulations all	l operators a	re required to	report and	d/or file certain re	łease r	notifications an	d perform correct	tive action	ons for rele	ases, which ma	y endanger		
public health	or the enviro	onment. The	acceptance	e of a C-141 report investigate and re	rt by th	ie NMOCD ma	rked as "Final Re	eport" do	es not relic	eve the operator	of liability		
or the environ	ment. In ad	dition, NMO	dequatery CD accept	ance of a C-141 r	eport d	loes not relieve	the operator of r	eat to gre esponsib	ound water, oility for co	surface water, mpliance with.	anv other		
federal, state,								- ,,,,,,,,,		·			
							OIL CONS	SERVA	ATION I	<u>DIVISION</u>			
Signature:					Í								
- 1 121						Approved by E	District Superviso	r:					
Printed Name:	: Tony Savo	1C					•						
Title: Waste N	vigmt. & Re	mediation Sp	ecialist			Approval Date	:	E	xpiration D	late:			
12		Cillanum -t				Ctid c							
E-mail Addres	s. tasavote	woassper.com	<u> </u>			Conditions of a	approvat:			Attached [
Date:	P	hone: (432)	556-8730								1		

Appendix B
Release Notification &
Corrective Action
May 15, 2011
(Form C-141)

District I 1625 N. French Dr., Hobbs, NM 88240 District II

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 Fc, NM 87505 State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised October 10, 2003

side of form

Revised October 10, 2003

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

5/2W/11

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

Release Notification and Corrective Action

			Reit	ase Nounc		OPERA				ıl Report 🔲	Final	Reno	
Name of Co	mpany BC	PCO, L.P.				OPERATOR ☐ Initial Report ☐ Final Fina							
			04 Carlsb	ad, N.M. 88220		Telephone No. 432-556-8730							
Facility Nar			·····			Facility Type E&P							
Surface Ow	ner Federa	.1		Mineral C	luner E	adaral			Lease N	lo.			
Burrace Ow.	ner redera			iviniciai	WIICI I	cuciai			Lease IV	10			
			,	,		OF RE	,	····					
Unit Letter A	Section 20	Township 24S	Range 31E	Feet from the	North/	th/South Line Feet from the East/			Vest Line	County Eddy			
	<u> </u>		La	titude_N 32.20	7618	Longitud	e W 103.797917	7			and the state of t	***************************************	
				NAT	URE	OF REL	EASE						
Type of Rele	ase: Produc	ed water and	crude oil		,	i .	Release: 80 bbls			tecovered: 50 bbl	s crude o	il, 0	
Source of Re	lanca: Temr	porary tank or	vorflow.				bbls produced water of Occurrence			uced water Hour of Discover			
Source of Ice	icasc. reinį	onary anik ov	CHOW			1	our unknown		5/15/11 10		y		
Was Immedia	ate Notice (Yes [No Not Re	equired	If YES, To Mike Brate							
By Whom? T							lour 5/16/11 8:00						
Was a Water	course Reac	hed?	Yes 🗵	1 No		If YES, Volume Impacting the Watercourse.							
									(PRODE STREET	, 1			
If a Watercot	irse was Im	pacted, Descr	ibe Fully.	*					HE	CEIVEL	2		
									le le	AY 26 2011	İ		
									172	with whith most			
Describe Cau	se of Proble	em and Remo	dial Actio	n Taken.* A temp	orary tar	nk that was s	et to vent produce	d gas in	LINMO	COLUMN	A Sure o	n the	
sales line ove	rflowed du	e to the proce:	ss vessels	were overloaded v	with fluic	d causing the	production to rele	ease into	the vent to	ank A second ter	nporary t	tank	
was set inside	e an earthen	containment	area and o	overflow lines wer	e installe	ed on the tan	ks to overflow int	o the pro	oduction co	ontainment area w	hich is li	ned.	
Describe Are	a Affected :	and Cleanup /	Action Tal	cen.*Approximate	ly 1200	sa. ft. of cali	che pad around th	ic tempo	rary tank v	vas affected by the	release.	and	
approximatel	y 2,000 sq.	ft. of pasture.	All of the	free standing flui	d was re	moved with:	a vacuum truck. T	he oil tr	aveled in the	he same path as th	ie previo	us	
release and p	onded up in	2 of the areas	s that been	excavated to a de	epth of a	pproximately	2 ft. As of 5/24/1	l appro	ximately 3	40 cubic yards of	the heav	ily	
extent of the		ated and maure	cu to Lea i	Lands. Samples w	cie cone	cied at appro	eximately 8 ft. bei	ow grou	no surrace,	this appears to be	; the vert	icai	
				····									
I hereby certi	fy that the i	nformation gi	iven above	is true and comp ad/or file certain r	lete to th	e best of my	knowledge and u	nderstan	id that purs	suant to NMOCD	rules and	i	
public health	or the envi	ronment. The	acceptant	ce of a C-141 repo	ort by the	: NMOCD m	na periorm correct arked as "Final R	aive acti eport" d	ous for rele oes not reli	eases which may dieve the operator of	moanger of liabilit	v	
should their o	perations h	ave failed to a	adequately	investigate and re	emediate	contaminati	ion that pose a thre	eat to gr	ound water	, surface water, h	uman hea	alth	
or the environ				otance of a C-141	report do	es not reliev	c the operator of	responsi	bility for c	ompliance with a	ıy other		
rederal, state,	Of foods for	vis talayor toge	arattyns,				OIL CON	SERV	ATION	DIVISION			
a: .		$^{\prime}$	C)			0113 0014	<u> </u>	7111011	BITIOIOIN			
Signature:	<u> </u>	ny O	elli	<u> </u>	/	Approved by	District Supervise	or:					
Printed Name	: Tony Sav	oie											
Title: Waste	Mgmt.& Re	mediation Sp	ecialist			Approval Da	te:]	Expiration	Date:			
E-mail Addre	ess: TASavo	oie@BassPet.		(Conditions of Approval:			Attached	Attached				
Date: 5/25/11				Phone:432-556-8	8730								
Attach Addi		ata ICNianaaa		1 none.+32-330-0	0750								

^{*} Attach Additional Sheets If Necessary

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

State of New Mexico Energy Minerals and Natural Resources RECEIVED

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

Form C-141 Revised October 10, 2003

AUG 3 0 2012 Submi 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form NMOCD ARTESIA

			Rei	ease Notific	auoi								
						OPER/			tial Report X Final Report				
Name of Co		BOPCO, LI		1 1 2 7 6 0 0 0 0 0		Contact Tony Savoie							
				Isbad, NM 8822		Telephone No. (432) 556-8730							
Facility Nar	ne Poker	Lake Unit #	68			Facility Type E & P							
Surface Ow	ner Federa	ıl		Mineral C	wner			Lease 1	No.				
				LOCA	TIO	N OF REI	LEASE						
Unit Letter A	Section 20	Township 24S	Range 31E	Feet from the	North	/South Line	Feet from the	East/West Line	County Eddy				
		La	titude <u>N</u>	. 32.207618		Longitu	de <u>W 103.7979</u>	17					
				NAT	URE	OF RELI	EASE						
Type of Rele	Type of Release Produced Water and crude oil Volume of Release 80 bbls crude oil, 0 bbls produced water Volume Recovered: 50 bbls crude oil, 0 bbls produced water												
Source of Re	lease Temp	orary tank ov	erflow				lour of Occurrenc	Date and 5/15/11 1	Hour of Discovery 0:00 a.m.				
Was Immedia	ate Notice C		Yes N	No Not Required	i	If YES, To Whom? Mike Bratcher							
By Whom?	Tony Savoi	e		- · · · · ·		Date and Hour: 5/16/11 8:00 a.m.							
Was a Water	Was a Watercourse Reached? ☐ Yes ☑ No If YES, Volume Impacting the Watercourse.												
If a Watercou	ırse was İmj	pacted, Descri	be Fully.	*									
the sales line	overflowed	due to the pro	ocess vess	sels were overload	ed with	fluid causing	the production to	release into the vo	event of a high line pressure on ent tank. A second temporary ion containment area which is				
traveled in th	e same path ed to NMO	as the 5/2/11	release ar	nd ponded up in 2	of the a	areas that had	been excavated to	a depth of approx	000 sq. ft. of pasture. Oil imately 2 ft. The release site , dated June 2012, for details of				
regulations al public health should their of or the environ	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.												
C: atoma	OIL CONSERVATION DIVISION												
Signature: Printed Name	e: Tony Sav	oie	u _			Approved by	District Supervis	or:					
Title: Waste	<u> </u>		pecialist			Approval Dat	e:	Expiration	ion Date:				
E-mail Addre	ess: tasavoie	e@basspet.co	m			Conditions of	`Approval:		Attached				
Date: 8/3	0 /Ia	Phone: (43'	2) 556 97	30	-								

Appendix C Archaeological Survey (NMCRIS Investigation Abstract Form)

NMCRIS No.: 120659

NMCRIS INVESTIGATION ABSTRACT FORM (NIAF)

1. NMCRIS	2a. Lead Agency:	2b. Other Agency(ies):	3. Lead Agency Report No.:				
Activity No.: 120659	US Bureau of Land Management Carlsbad Field Office						
4. Title of Report:				5. Type	e of Report		
•	logical Survey for the Poker Lake #68	Oil Spill.		⊸Neg	•		
	,			44. 4			
				Posi	tive		
Author(s)							
Rebecca L. Hill, Cl	hristine Mavrick						
6. Investigation Ty	pe						
Research Design	Archaeological Survey/Inventor	ry [T] Architectural Survey/Inventory	Test Ex	cavation	Excavation		
Collections/Non-	•	Based on Previous Inventory					
Ethnographic Stu	idy Site/Property Specific Visit	Historic Structures Report	Other				
7. Description of U	Indertaking (what does the project	entail?):	······································				
sufficient space for	equipment to maneuver. Several pro-	ransects through the spill area and im evious surveys are located within the ys are located within the project area,	project are	a ARMS	#s, 19183,		
8. Dates of Investig	gation: from: 16-May-2011 to:	16-May-2011 9. Report Date:	17-May-2	2011			
10. Performing Ag	ency/Consultant: Boone Arch Svcs	of NM					
Principal Investig	ator: Rebecca L. Hill						
Field Supervisor:	Rebecca L. Hill						
Field Personnel N	lames: Rebecca L. Hill Christine Mavrick						
Historian / Other:							
11. Performing Ag	ency/Consultant Report No.:						
BASNM 05-11-10							
12. Applicable Cul BLM: #190-2920	Itural Resource Permit No(s): 0-11-N						
	<u> </u>						

NMCRIS No.: 120659		
13. Client/Customer (project proponent):		
Basin Environmental		
Contact: Ben Arguijo		
Address: 3100 Plains Hwy, P. O. Box 301, Lovington, NM 88260	Phone: (575) 396-2378
14. Client/Customer Project No.:		
15. Land Ownership Status (must be indicated on project map):		
Land Owner (By Agency)	Acres Surveyed	Acres in APE
US Bureau of Land Management Carlsbad Field Office	2.48	2.48
TOTALS	3 2.48	2.48
16. Records Search(es):		
Date(s) of HPD/ARMS File Review: 13May2011 Name of Reviewer(s): Rebecca L. Hill		
Date(s) of Other Agency File Review: 13May2011 Name of Reviewer(s): Rebecca Hill	Agency: BLM-CI	FO
17. Survey Data:	- NACODIO - A - A	
a. Source Graphics [] NAD 27 [x] NAD 83 Note: NAD 83 is th	e NIVICKIS Standa	ira.
USGS 7.5' (1:24,000) topo map Other topo map, Scale: GPS Unit Accuracy <1.0m 1-10m 10-100m >100m Other Source Graphic(s):	Aerial Pho	oto(s)
b. USGS 7.5' Topographic Map Name	USGS Quad Co	nde
Big Sinks, NM	32103-B7	
c. County(ies): EDDY		
d. Nearest City or Town: Jal, NM		
e. Legal Description:		
Township (N/S) Range (E/W) Section		
24S 31E 20		
Projected legal description? [] Yes [x] No [] U	nplatted	and the state of t
f. Other Description (e.g. well pad footages, mile markers, plats, land grant name, etc.	.):	
		[] Continuation
18. Survey Field Methods:	44.1014.71.1.4.1.4.1.1.1.1.1.1.1.1.1.1.1.1.1.	
Intensity: <a> 100% coverage <a> <100% coverage		
Configuration: Toblock survey units Tinear survey units (I x w):		

NIVICRIS No.: 120659						
other survey units (specify):						
Scope: onon-selective (all s	ites/properties recor	ded) selective/th	ematic (selected site	es/properties i	ecor	ded)
Coverage Method: 🗘 systema		and the same				
other method (describe):		•				
Survey Interval (m): 15	Crew Size: 2	Fieldwork Dates:	from: 16-May-2011	to: 1	6-Ma [,]	y-2011
Survey Person Hours: 0.50	Record	ling Person Hours:	-	tal Hours: (o.50	
Additional Narrative:		•				
LA 105160 and LA 106760 are not be affected by the clean-up.	located within ¼ of a	a mile of the project are	a, but are a sufficie	nt distance fro	m the	e project area as
					[] Continuation
19. Environmental Setting (NRC	CS soil designation	n; vegetative commun	nity; elevation; etc.):		
is a uniformly distributed grasslar shimmery oak, mesquite, tobosa area, the Pecos River is located	, yucca, winterfat, sr	nakeweed, and sand sa				
20.a. Percent Ground Visibility Grazing and oil and gas develop		b. Condition of Surv	ey Area (grazed, b	laded, undist	[tribut] Continuation red, etc.):
					[] Continuation
21. CULTURAL RESOURCE FIN	IDINGS	Yes, see next rep	ort section	V	No,	discuss why:
Because the landform is a basin	type, it is possible t	that during prehistoric t	imes water was loca	ated in the bas		1 Constitute diagram
					[] Continuation
22. Attachments (check all app	•	-1-4				
[x] USGS 7.5 Topographic		olates, and survey ar	ea clearly drawn (r	equirea)		
[x] Copy of NMCRIS Map C						
[] LA Site Forms - new site						
[] LA Site Forms (update)	•		tes (first 2 pages m	iinimum)		
[] Historic Cultural Proper	-					
[] List and Description of I						
[] List and Description of (Jouections, if appl	icable				
23. Other Attachments:			_			
[] Photographs and Log			[(Des] Other Atta cribe):	chme	ents

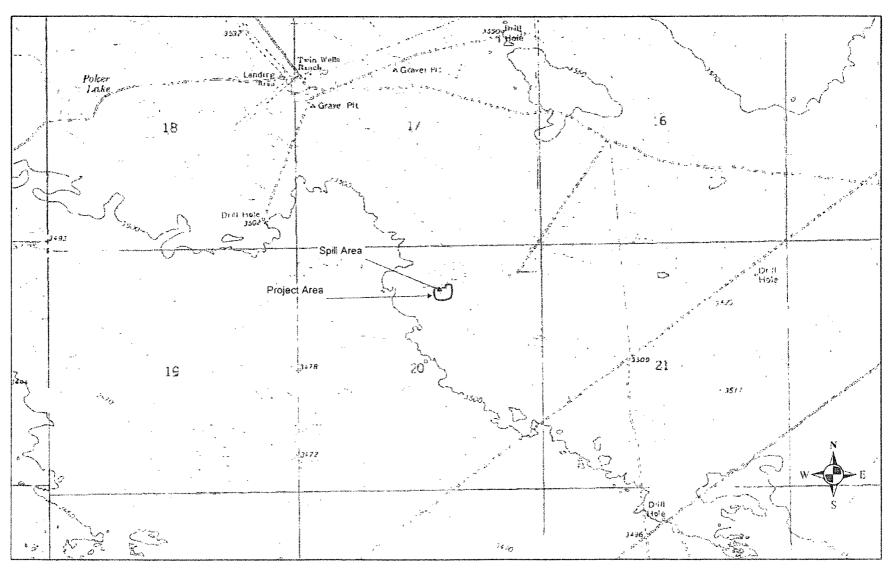
NMCRIS No.: 120659	
24. I certify the information provided above is correct and accura	ate and meets all applicable agency standards.
	: Rebecca L. Hill
Signature: Alberta Dell Date: MMG	2611 Title: PI
25. Reviewing Agency	26. SHPO
Reviewer's Name/Date:	Reviewer's Name/Date:
Accepted [] Rejected []	HPD Log #:
	Date sent to ARMS:
CULTURAL RESOURC	E FINDINGS
[fill in appropriate section(s))
SURVEY RESULTS:	
No cultural resources were discovered during this survey.	
Archaeological Sites discovered and registered: 0	
Archaeological Sites discovered and NOT registered: 0	
Previously recorded archaeological sites revisited (site update for	orm required): 0
Previously recorded archaeological sites not relocated (site upd	ate form required): 0
TOTAL ARCHAEOLOGICAL SITES (visited & recorded): 0	
Total isolates recorded: 0	Non-selective isolate recording?
HCPI properties discovered and registered: 0	
HCPI properties discovered and NOT registered: 0	
Previously recorded HCPI properties revisited: 0	
Previously recorded HCPI properties not relocated: 0	
TOTAL HCPI PROPERTIES (visited & recorded, including acequi	as): 0
MANAGEMENT SUMMARY:	
No cultural resources were discovered during this survey therefore; resources be discovered during clean-up the clean-up should cease a	t is recommended the project be approved. Should cultural and BLM-Carlsbad notified immediately.
	[] Continuation
IF REPORT IS NEGATIVE, YOU	ARE DONE AT THIS POINT.
SURVEY LA/HCPI NUMBER LOG	
Sites/Properties Discovered:	

LA/HCPI No. Field/Agency No.

Eligible? (Y/N/U, applicable criteria)

NMCRIS No.:	120659						
Previously reco	rded revisited sites/HCPI properties:						
LA/HCPI No.	A/HCPI No. Field/Agency No.		Eligible? (Y/N/U, applicable criteria)				
MONITORING	A MUMADED LOG CITATION						
MONITORING L	A NUMBER LOG (site form required)						
Sites Discovered (site form required):		Previously recorded sites (site update form required):					
LA No.	Field/Agency No.	LA No.		Field/Agency No.			
Areas outside k	nown nearby site boundaries monitored?	Ţ] Yes		[] No, Explain		
TESTING & EXC	CAVATION LA NUMBER LOG (site form req	uired)					
Tested LA number(s)		Excavated LA number(s)					

Poker Lake #68 Oil Spill

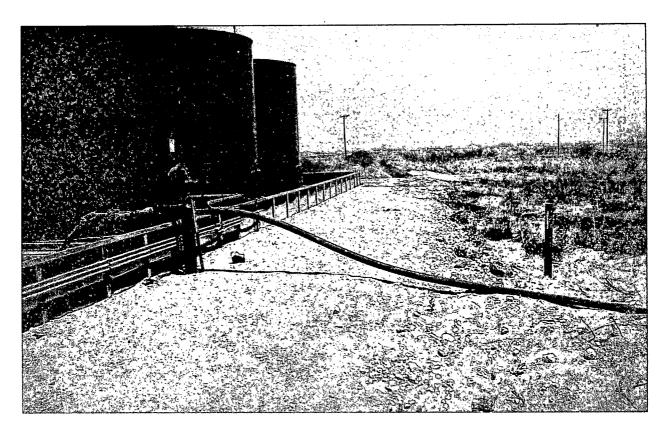


BLM		National ParkService
BOR	An order to the control of	OFA
DOE		Private
Forest Service	La de companya desirina di selectione de la companya de la company	State
1		State Game and Fish
		State Park

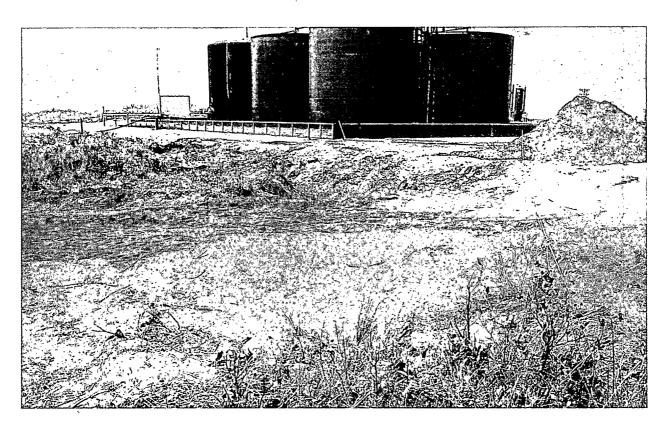
1:24,000

Big Sinks 32103-B7 T24S R31E Sec 20 E DD y County

Appendix D Photographs



Photograph of the initial release at PLU #68. (Looking East)



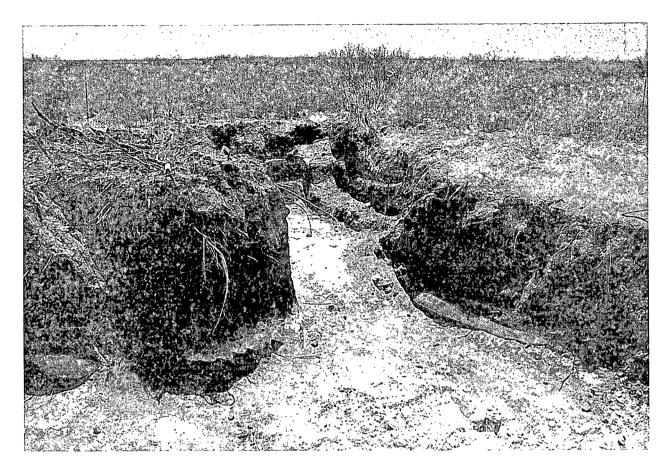
Photograph of initial response activities at PLU #68. (Looking Northwest)



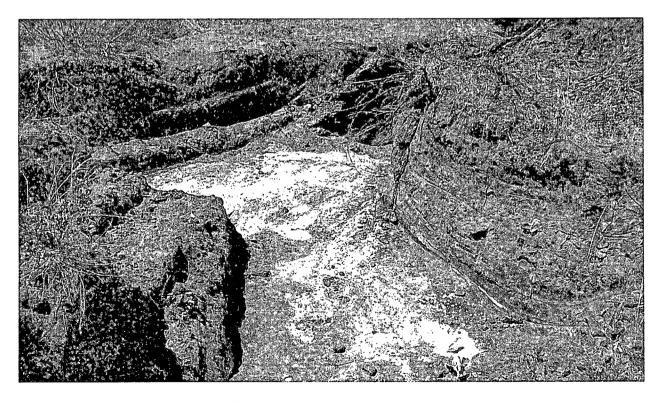
Photograph of May 15, 2012, release at PLU #68.



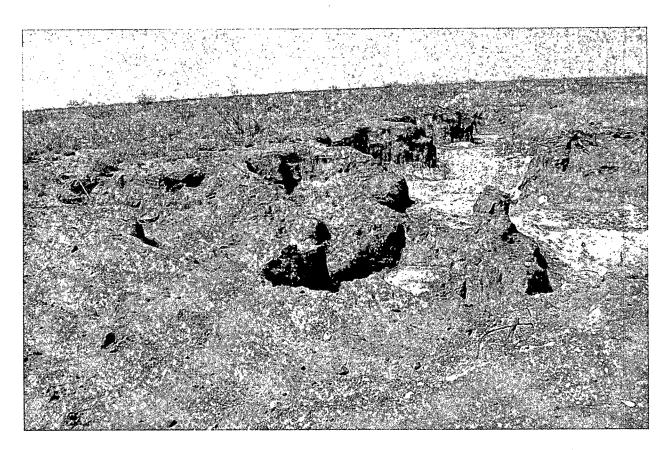
Photograph of May 15, 2011, release at PLU #68.



Photograph of Excavation and Sample Locations at PLU #68.



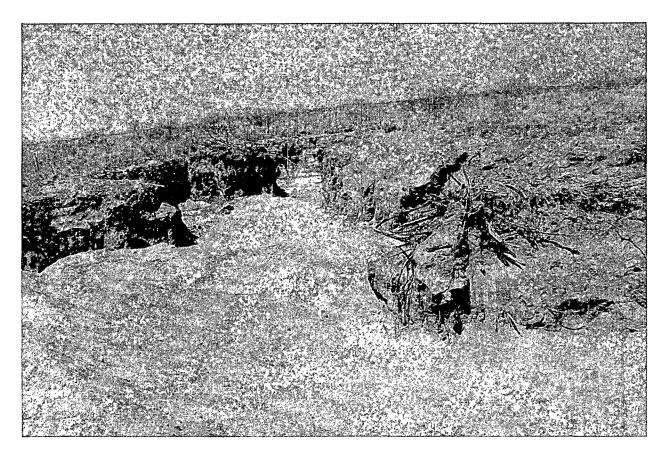
Photograph of Excavation and Sample Locations at PLU #68.



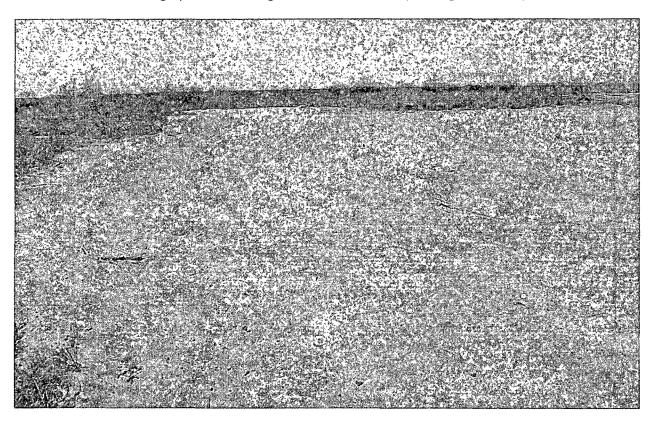
Photograph of Excavation and Sample Locations at PLU #68. (Looking Southwest)



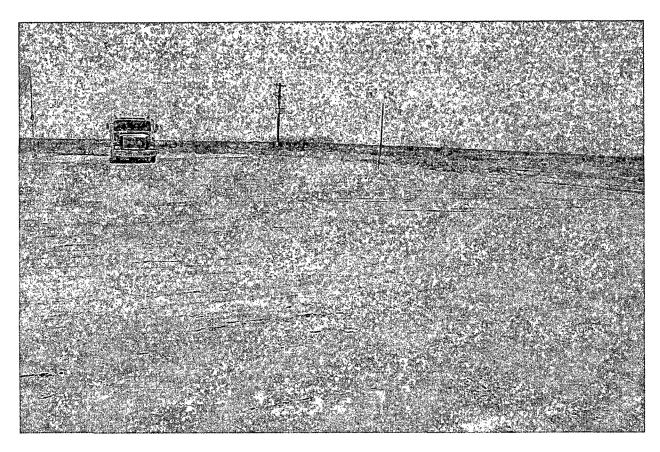
Photograph of Excavation and Sample Locations at PLU #68 release site. (Looking West)



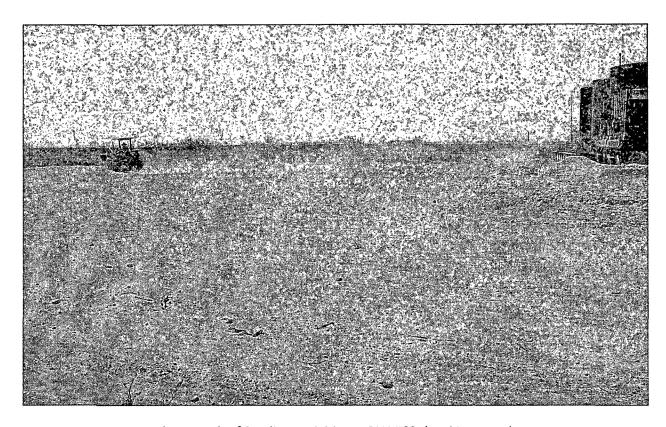
Photograph of Backfilling activities at PLU #68. (Looking Southwest)



Photograph of Backfilled excavation at PLU #68. (Looking South)



Photograph of Remediated "Frac" Tank Area. (Looking Northeast)



Photograph of Seeding Activities at PLU #68. (Looking West)

Appendix E Laboratory Analytical Reports



May 16, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE UNIT #68

Enclosed are the results of analyses for samples received by the laboratory on 05/11/11 13:05.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydorcarbons

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

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

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

Accreditation applies to public drinking water matrices.

aleg & Kune

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To:

(575) 396-1429

Received:

05/11/2011

Sampling Date:

05/09/2011

Reported:

05/16/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT #68

Sampling Condition:

Cool & Intact

Project Number:

PLU - 68 TEMPORARY TANK SPILL

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

ject Location. LDD1 COON11, Ni

Sample ID: POOLING AREA #1 @ 2' (H100950-01)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/11/2011	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2490	50.0	05/12/2011	ND	170	85.0	200	1.60	
DRO >C10-C28	7380	50.0	05/12/2011	ND	156	77.9	200	1.45	
EXT DRO >C28-C35	397	50.0	05/12/2011	ND					
Surrogate: 1-Chlorooctane	115 %	% 70-130)						
Surrogate: 1-Chlorooctadecane	83.4 9	% 70-130	•						

Sample ID: POOLING AREA #1 @ 4' (H100950-02)

TPH 8015M	mg/	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	05/12/2011	ND	170	85.0	200	1.60	
DRO >C10-C28	18.6	10.0	05/12/2011	ND	156	77.9	200	1.45	
EXT DRO >C28-C35	<10.0	10.0	05/12/2011	ND					
Surrogate: 1-Chlorooctane	104 9	% 70-130)						
Surrogate: 1-Chlorooctadecane	99.8	% 70-130)						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Kans



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

Fax To:

(575) 396-1429

Received:

05/11/2011

Sampling Date:

05/09/2011

Reported:

05/16/2011

Sampling Type:

Soil

Project Name:

90.7%

70-130

Sampling Condition:

Cool & Intact

POKER LAKE UNIT #68 PLU - 68 TEMPORARY TANK SPILL

Sample Received By:

Jodi Henson

Project Number: Project Location:

Surrogate: 1-Chlorooctadecane

EDDY COUNTY, NM

Sample ID: POOLING AREA #2 @ 4' (H100950-03)

Chloride, SM4500CI-B	mg	mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/11/2011	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	630	50.0	05/12/2011	ND	170	85.0	200	1.60	
DRO >C10-C28	3510	50.0	05/12/2011	ND	156	77.9	200	1.45	
EXT DRO >C28-C35	164	50.0	05/12/2011	ND					
Surrogate: 1-Chlorooctane	126	% 70-130)		*				

Sample ID: POOLING AREA #2 @ 5' (H100950-04)

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	05/12/2011	ND	170	85.0	200	1.60	
DRO >C10-C28	<10.0	10.0	05/12/2011	ND	156	77.9	200	1.45	
EXT DRO >C28-C35	<10.0	10.0	05/12/2011	ND					
Surrogate: 1-Chlorooctane	91.5 %	% 70-130)						
Surrogate: 1-Chlorooctadecane	91.6%	6 70-130)						

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Clay to theme



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

Fax To:

(575) 396-1429

Received: Reported: 05/11/2011

Sampling Date:

05/09/2011

05/16/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT #68

Sampling Condition:

Cool & Intact

Project Number:

PLU - 68 TEMPORARY TANK SPILL

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: POOLING AREA #3 @ SURFACE (H100950-05)

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	05/11/2011	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1160	10.0	05/12/2011	ND	170	85.0	200	1.60	
DRO >C10-C28	11000	50.0	05/12/2011	ND	156	77.9	200	1.45	
EXT DRO >C28-C35	648	10.0	05/12/2011	ND					
Surrogate: 1-Chlorooctane	99.6	% 70-130							
Surrogate: 1-Chlorooctadecane	74.0	% 70-130							

Sample ID: POOLING AREA #3 @ 4' (H100950-06)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	05/11/2011	ND	432	108	400	3.64	

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Celley D. Keine



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301

Lovington NM, 88260

(575) 396-1429 Fax To:

Received:

05/11/2011

Sampling Date:

05/09/2011

Reported:

Soil

05/16/2011

Sampling Type:

Project Name:

POKER LAKE UNIT #68

Sampling Condition:

Cool & Intact

Project Number:

PLU - 68 TEMPORARY TANK SPILL

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: POOLING AREA #3 @ 6' (H100950-07)

TPH 8015M	mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	39.2	10.0	05/12/2011	ND	170	85.0	200	1.60	
DRO >C10-C28	487	10.0	05/12/2011	ND	156	77.9	200	1.45	
EXT DRO >C28-C35	28.9	10.0	05/12/2011	ND					
Surrogate: 1-Chlorooctane	97.4 %	6 70-130)						
Surrogate: 1-Chlorooctadecane	90.6 %	6 70-130)						

Sample ID: POOLING AREA #4 @ SURFACE (H100950-08)

Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/11/2011	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1340	10.0	05/12/2011	ND	170	85.0	200	1.60	
DRO >C10-C28	10300	50.0	05/12/2011	ND	156	77.9	200	1.45	
EXT DRO >C28-C35	754	10.0	05/12/2011	ND					
Surrogate: 1-Chlorooctane	102 9	% 70-130	•						
Surrogate: 1-Chlorooctadecane	85.3	% 70-130	•						

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Celecy to Keens



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

Received:

05/11/2011

Sampling Date:

05/09/2011

Reported:

05/16/2011

Sampling Type:

Soil

Cool & Intact

Project Name:

POKER LAKE UNIT #68

Sampling Condition: Sample Received By:

Jodi Henson

Project Number: Project Location: PLU - 68 TEMPORARY TANK SPILL

EDDY COUNTY, NM

Sample ID: POOLING AREA #4 @ 5' (H100950-09)

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	05/12/2011	ND	170	85.0	200	1.60	
DRO >C10-C28	78.4	10.0	05/12/2011	ND	156	77.9	200	1.45	
EXT DRO >C28-C35	<10.0	10.0	05/12/2011	ND					
Surrogate: 1-Chlorooctane	98.0 %	6 70-130)						
Surrogate: 1-Chlorooctadecane	97.7 %	6 70-130)						

Sample ID: POOLING AREA #5 @ SURFACE (H100950-10)

78.1 %

70-130

Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/11/2011	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1250	10.0	05/13/2011	ND	170	85.0	200	1.60	
DRO >C10-C28	11400	50.0	05/13/2011	ND	156	77.9	200	1.45	
EXT DRO >C28-C35	801	10.0	05/13/2011	ND					
Surrogate: 1-Chlorooctane	107	% 70-130)						

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Celeg D. Kaine

Surrogate: 1-Chlorooctadecane



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received:

05/11/2011

Sampling Date:

05/09/2011

Reported:

05/16/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT #68

Sampling Condition:

Cool & Intact

Project Number:

PLU - 68 TEMPORARY TANK SPILL

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: POOLING AREA #5 @ 5' (H100950-11)

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	05/13/2011	ND	170	85.0	200	1.60	
DRO >C10-C28	119	10.0	05/13/2011	ND	156	<i>7</i> 7.9	200	1.45	
EXT DRO >C28-C35	<10.0	10.0	05/13/2011	ND					
Surrogate: 1-Chlorooctane	93.1 %	5 70-130	1	V 0					
Surrogate: 1-Chlorooctadecane	93.4 %	70-130	1						

Sample ID: STOCKPILE (H100950-12)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	05/11/2011	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: AB					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	4570	50.0	05/13/2011	ND	170	85.0	200	1.60	
DRO >C10-C28	12500	50.0	05/13/2011	ND	156	77.9	200	1.45	
EXT DRO >C28-C35	716	50.0	05/13/2011	ND					
Surrogate: 1-Chlorooctane	143 9	% 70-130							
Surrogate: 1-Chlorooctadecane	89.4	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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Celent Keene



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.

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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Celeng D. Krana



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	pastn phytronmental Service	Tec	hno	logies, LLC		BI	LL TO					ANA	LYSI	S RE	QUES	T		
Project Manage	r: Ben J. Arguijo				P.O. 1	# :							T					
Address: P.O.					Comp	any: B	OPCO, LP				1							
City: Lovingto	on State: NN	Zip) : g	8260	Attn:	Tony	Savoie								l			
Phone #: (575)) 396-2378 Fax #: (575)	396-	142	9	Addre	ess: 52	2 w. Men	mod		į	- 1							
Project#: PU	68 Temporary funkspill Project Own	er: B	OPC	O, LP	City:	Carlsh	ad								l			
Project Name:	Poter lace Unit # 68				State	: NM	Zip; 8822	0			1							
Project Location	Elly Co. NM				Phon	e #:(43	2)556-87	30										
Sampler Name:	B. Acamio				Fax#	:				ĺ	- 1			1				
FOR LAB USE ONLY	7.7	Τ	Γ	MATRIX	PF	RESERV.	SAMPL	NG		1,5								
Lab I.D.	Sample I.D.	(G)RAE OR (C)OMP	# CONTAINERS	GROUNDWATER WASTEWATER SOIL	SLUDGE OTHER: ACID/BASE:		DATE	TIME	11 5108	(h 100:00								
1100950-1	Pooling Aren # 1 @ 2'	K	1/	K		X	5/9/11	090	K	X								
2	Pooling Area #1 84	4	\coprod					0930	Х									ļ
3	Pooling Area # 2 @ 4'	44	\dashv					1005	X	<u> </u>								ļ
<u> </u>	Pooling Aren #2 @ 5'	-#	+		_ _			1010	X					ļ			_	ļ
<u></u> ني.	Pooling Area #3@ Surface		+			44-1	 	1025	K	X								
6	Pooling Area #3@4'	+	H					1030	1/	<u> </u>			_	 				
45	Pooling fren #3 @6'	+	╁			+	1	1040	X					╂				
70	PODLING APER IS J. (A SHITACE	++	H			++-	-	1100	- K	<u> </u>				+				_
<u>(6)</u>	Pooling free it 5 D Surface	11	1	·	+	1.//-	-	1130	义	¥			-	1		_		
PLEASE NOTE: Liability as	nd Damagey. Cardinal's liability and client's exclusive remedy for ing those for negligence and any other cause whatsoever shall to							id by the client for	the					<u>اا</u>				<u> </u>
service. In no event shall C	ardinal be liable for incidental or consequental damages, including out of or related to the performance of services hereunder of	ing with	ut limi	tation, business interripto	ms, loss of use	, or loss of p	ofits incurred by	cfent, its subsidia	nes.									
Relinquished By				ived By:	/			Phone Re	sult:	☐ Ye			l Phone					
15/1	Time 1305	\exists /	/ r	MI M	O MA	FV.		REMARKS	ş-						······································			
Relinquished By	y: Date:	R	ece	ived By:	منتها أن الإسروة	· - /	*	l	Pu	n Ti	PH. 1	bold bi	- BT	EK				
B	Time:	╣,	-	•					je u i	1 //	<i>,.,</i> ,							
5 1:								,	Pleas	e ema	il re	sults t	o pm@b	asine:	av.com	,		
	: (Circle One) - Bus - Other:	40		Sample Con Cool Intac	t,		ED BY: Jals)		V TAsa	avoi.	@Bass	Pet.com						
† Cardinal	cannot accept verbal changes. Plea	se fa	X WI			3-2476	6						A PERSONAL PROPERTY.					Pag



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Basin Environmental Service Technolog	ies, LLC BILL TC)	ANALYSIS REQUEST	
Project Manager: Ben J. Arguijo	P.O. #:			
Address: P.O. Box 301	Company: BOPCO,	I.P		
City: Lovington State: NM Zip: 9826	o Attn: Tony Savoie			
Phone #: (575)396-2378	Address: 522 w. Me	ermod		
Project #: PLN 68 Ungorary missill Project Owner: BOPCO.	LP City: Carlsbad			
Project Name: Poter Lake Unit # 68	State: NM Zip: 88:	220		
Project Name: Poter Lake Init 4 68 Project Location: 5 1 by (0, NM)	Phone #: (432) 556-	3730		
Sampler Name: B. Arapijo	Fax #:			
FOR LAB USE ONLY	MATRIX PRESERV. SAMI	PLING		
(G) HAB OR (C)OMP # CONTAINERS GROUNDWATER GROUNDWATER	WASTEWATER SOIL OIL SLUDGE OTHER: ACIDIBASE: ICE / COOL OTHER:	80/5 // Chbride		
HIDD950 11 Robers Aces 45 PS' XI	X X 5/9/10	1155 X		
HIDD950:11 Ponking Area #5 P5' X 1		1200 X K		
PLEASE NOTE: Liability and Damages, Cardinal's Bability and client's exclusive remedy for any claim arising tot analyses. All claims including those for negigence and any other cause whatsoever shall be deemed waived un service. In no event shall Cardinal be liable for incidental or consequental demages, including without limitation, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless	less made in writing and received by Cardinal within 30 days business interruntions, loss of use, or loss of profits incurred	after completion of the applicable by client, its subsidiaries.		
Relinquished By: Date: Received	By:	Phone Result: Yes Fax Result: Yes		
Time: Time: Cold	Lenson.	DEMARKS.		
Relinquished By: Date: Received		Run TPH,	hold for BTEX	
Delivered By: (Circle One)	Sample Condition CHECKED BY:	1	esults to pm@basinenv.com	
Sampler - UPS - Bus - Other:	Cool Intact (Initials)	& TAsavoic@Bass	Pet.com	



May 23, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE UNIT #68

Enclosed are the results of analyses for samples received by the laboratory on 05/18/11 11:25.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

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

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

alex & Keens

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To: (575) 396-1429

Received:

05/18/2011

Sampling Date:

05/06/2011

Reported:

Sampling Type:

Soil

05/23/2011

Sampling Condition:

Cool & Intact

Project Name: Project Number: POKER LAKE UNIT #68

PLU - 68 TEMPORARY TANK SPILL

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: POOLING AREA 6 @ 4' (H101014-01)

Chloride, SM4500CI-B		/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13400	16.0	05/18/2011	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/20/2011	ND	185	92.3	200	2.44	
DRO >C10-C28	73.5	10.0	05/20/2011	ND	160	80.1	200	8.23	

Surrogate: 1-Chlorooctane

109%

70-130

Surrogate: 1-Chlorooctadecane

109 %

70-130

Sample ID: POOLING AREA 6 @ 9' (H101014-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/18/2011	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/20/2011	ND	185	92.3	200	2.44	
DRO >C10-C28	<10.0	10.0	05/20/2011	ND	160	80.1	200	8.23	
Surrogate: 1-Chlorooctane	104	% 70-130							
Surrogate: 1-Chlorooctadecane	108	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and cibrit's exclusive remedy for any claim orising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitesperse shall be deemed warked unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no erent 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 substituies, difficulties or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such clients based upon any of the above stated reasons or otherwise. Results relate only to the samples identified dover. This report shall not be reproduced except in full with written approved of Cardinal aboratories.

Celen D. Kaine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Comanges. Cardina's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any ofter cause whitesoerer shall be deemed warved unless made in willing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, hetaring, without limitation, bushess interruptions, so of use, or loss of profits incurred by clerk, its subsidiaries, difflates or successions arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stand-reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with within approved of Cardinal laboratories.

Celeg D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (676) 303 2326 EAV (676) 303 2476

Company Name:	Basin Environmental Service	Technologies, LLC	BILL TO		ANALYSIS	REQUEST	7 Carrenton
Project Manager	Ben J. Arguijo		P.O. #:				
Address: P.O.			Company: BOPCO, LP				
City: Levingto	State: NM	Zip: 88260	Attn: Tony Savoie				
Phone #: (575)		96-1429	Address: 522 w. Mermod				
Project#: PLUS	8 - Temp fant lesk Project Owner	r: BOPCO, LP	City: Carlsbad		-		
Project Name:	68- Temp front lask Project Owner Polser Lake Ulnit #68		State: NM Zip:88220				
Project Location			Phone #: (432) 556-8730				
Sampler Name:	B. Black wood		Fax #:				
FOR LAB USE ONLY		MATRIX	PRESERV SAMPLING				
Lab I.D. H IDID!4	Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER: ACID/BASE: ICE / COOL OTHER: AMIL	410cides			
1	Pooling frea 6 84'	X (X 5/6/11 1400	K X			
\mathcal{A}	Pooling Area 6 8 91	V V	X 5/4/11 1430	K K			
							
<u> </u>							
	A STATE OF THE STA						
	d Damages. Cardinal's liability and client's exclusive remedy for a g those for negligence and any other cause whatsnever shall be						

service. In no event small Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, lifs subsidiaries, athlistes 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:	Date:	Received By:	Phone Result: Yes No Add'l Phone #:
10111	15-6-11		Fax Result: 🗆 Yes 🗆 No Add'l Fax #:
ASIA Labora V	Time:	PART INTERPRETATION OF THE PARTY OF THE PART	REMARKS:
OR Marker	110	4/1/	Dala Run TPH, if hold hime has not
Relinquished By:	Date:/20/	Réçeived-ASy: /⊬/	Valy Kull It I I I I I I I I I I I I I I I I I
William .	77/0/// Time:	MONEY WELLA DEA	expired.
111/647	11.2	Willed Control of the	Please email results to pm@basinenv.com
Delivered By: (Circle One)		Sample Condition CHECKED BY:	& TAsavoie@BassPer.com
Sampler - UPS - Bus - Other:		Tyes Yes	
		Nol No	



May 25, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE UNIT #68

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 Hydorcarbons

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Celey & Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To: (575) 396-1429

Received:

05/23/2011

Sampling Date:

05/20/2011

Reported:

05/25/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT #68

Sampling Condition:

Cool & Intact

Project Number:

PLU - 68 TEMPORARY TANK SPILL

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: POOLING AREA 4A @ 8 ' (H101051-01)

BTEX 8021B	mg/	'kg	Analyze	d 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 (PIL	93.3	% 70-130)						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/24/2011	ND	448	112	400	3.51	
TPH 8015M	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/25/2011	ND	216	108	200	0.355	
DRO >C10-C28	102	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	105	% 70-130)						
Surrogate: 1-Chlorooctadecane	93.4	% 70-130)						

Cardinal Laboratories *=Accredited Analyte

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Celeg & Kuna



Basin Environmental Service

(575) 396-1429

BEN J. ARGUIJO

P.O. Box 301

Lovington NM, 88260

Fax To:

Received:

05/23/2011

Sampling Date:

05/20/2011

Reported:

05/25/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT #68

Sampling Condition:

Cool & Intact

Project Number:

PLU - 68 TEMPORARY TANK SPILL

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: POOLING AREA 5A @ 8 ' (H101051-02)

BTEX 8021B	mg/	kg	Analyze	d 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 (PIL	93.8	% 70-130							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/24/2011	ND	448	112	400	3.51	
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	10.7	10.0	05/25/2011	ND	216	108	200	0.355	
DRO >C10-C28	484	10.0	05/25/2011	ND	188	93.8	200	1.10	
EXT DRO >C28-C35	30.9	10.0	05/25/2011	ND					
Surrogate: 1-Chlorooctane	103 9	% 70-130							
Surrogate: 1-Chlorooctadecane	93.2	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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Celeny D. Keens



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Camanges. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cases whitespeers shall be deemed waived unless made in writing and received by Cardinal within thirty (30) darys 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 clerk, its subsidiaries, affiliates or successors arising out of or related to the performance of the services heraunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with writina approval of Cardinal taboratories.

Celley & Kenne



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	Basin Environ	mental Service	Tech	nor	ogies, LLC			BI	LL TO						ANA	LYSIS	S RE	QUE:	ST		
Project Manager	Ben J. Arguijo					Р.	O. #:														
Address: P.O.	Box 301					c	mpa	ny: E	OPCO, LP					ĺ							
City: Lovingue	n	State: NM	Zip:	8.8	260	At	tn:	Tony	Savoie												
Phone #: (575)	396-2378	Fax #: (575) 3	3 6-1	429		Ac	dres	s; 52	2 w. Merr	rod					İ						
Project#: PLU &	68 templantsill	Project Owner		PCO,	LP	Ci	ty: C	arlsh	vad												
Project Name:	POFER LAKE.	e Unit #61				St	ate:	мы	Zip : 8922	0											
Project Location	: Eddy Co,	NII				Ph	one	#: (43	2)556-87	3.0	~~										
Sampler Name:	B. Mash						x #:				1										
Lab I.D.	Sample		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER:		ICE / COOI,		TIME	TOPH (BOISM)	X3.68	Soperajys								
1	Pooling Fran	4/1 @ 3'	X	1	14			K'	5/20/11	1200	K	X	α								
2	Pooling Pines	5408'	火	1	X			α	5/20/11	#30	K	e/	K		ļ					 	
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			\vdash												 		 			 	
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analyses, All claims include service. In no event shall Co	ig those for negligence and any individual be liable for indicantal or ing out of or related to the perform	nd cleni's exclusive remedy for a citer cause whatsoever shall be consequental damages, including nance of services hereunder by C Date: Date: Date: Time:	Rec	valved limstati regard Celivi	funless made in writing on, besiness interrupad	g and rece ons, loss a laim is bas	eived by of use, o sed upo	Cardinal or loss of p n any of th	within 30 days after rofits incurred by it ie above stated re	er completion of the chemic its subsidial assens or otherwise Phone ReFax Resul	he applications, se. Suit:	□ Ye □ Ye	s 🗓	No No	Add'I Add'I		4,000				
Delivered By: Sampler - UPS		0	,0	0	Sample Con Cool Intac Yes	dition t/ Yes No	1	CHECH (Ini	(ED BY: tials)	1		e ema				Quein Q	asine	11V.CC	ett		



May 27, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE UNIT #68

Enclosed are the results of analyses for samples received by the laboratory on 05/26/11 16:12.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydorcarbons

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

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

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

Accreditation applies to public drinking water matrices.

Celeg & Kune

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



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.

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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Clay D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	Basin Environmental 8	ervice Tech	nologies, LLC	BI	LL TO	/ · · · · · · · · · · · · · · · · · · ·			ANA	LYSIS	REQUE	ST	Market Market Control and
Project Manager	^H Ben J. Arguijo			P.O. #:]							
Address: P.O.				Company: E	OPCO, LP								
City: Levingto	on Sta	ite: NM Zip:	88260	Attn: Tony	Savoie	_							
Phone #: (575)	396-2378 Fax	#:(575)396-1	- 29	Address: 52	2 w. Mermod	_							
Project#:		ect Owner: 30	PCO, LP	City: Carls	oad	_							
Project Name:	PLU #68			State: NM	Zip: 83220	_							
Project Location	: Poker Lake unit #	68 EDDY	Nin	Phone #: (43	2)556-8730	╛							
Sampler Name:	Jody Walters			Fax#:		┛.							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER. ACID/BASE: BAILICE / COOL BOOK OTHER: AND ADDRESS:	SAMPLING	BDISM	Chlorides	ในรห					
4101095	9 ml - 14 -	G G	# CO GRO GRO WAS SOIL OIL SLUU			. 	-	V					
	Floor #3	(-	X		5.26:11 1:22P.	~ _	_						
	***************************************					+							
													
			<u> </u>										
												 	
analyses. All claims includin service. In no event shall Ca	id Damoges, Cardinal's fizibility and electr's explain ig those for negligence and any other rause who profile he hable for incisental or consequental dr ig but or or related to the performance of service ()	usgever snall be deemed amages, including without is hereunder by Cardinal.	varved unless made in victing an limitation, business interruntions	to received by Carolnal , loss of use, or loss of ;	within 30 days after completion o rofits incurred by client its subsi-	t the applica drades, wase. esult: ult:	¤e □ Ye				575-4	41-3301	
Relinquished By	U: Date	· Jou W	ceived By:	Muni							WCF	ガルじ)
()	Time		served by:			Plcas	ie ema	nil re	sults to	om@bas	inenv.c	Om	
Delivered By: Sampler - UPS	(Circle One)	3.5	Sample Condition Cool, Intact Fyes Fye	tion CHEC	(ED BY:				Pet.com				
† Cardinal	cannot accept verbal chang	es. Please fax	written changes to	505-393-2476 # 2	6								Pag



May 31, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE UNIT #68

Enclosed are the results of analyses for samples received by the laboratory on 05/27/11 17:28.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

aleg & Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To:

(575) 396-1429

Received:

05/27/2011

Sampling Date:

05/27/2011

Reported:

05/31/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT #68

Sampling Condition: Sample Received By: ** (See Notes) Celey D. Keene

Project Number: Project Location: PLU - 68 TEMPORARY TANK SPILL EDDY COUNTY, NM

Sample ID: SE CORNER FLOOR (H101104-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/31/2011	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: AB				····	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/31/2011	ND	203	101	200	1.89	
DRO >C10-C28	<10.0	10.0	05/31/2011	ND	163	81.7	200	0.0275	
EXT DRO >C28-C35	<10.0	10.0	05/31/2011	ND					
Surrogate: 1-Chlorooctane	106	% 70-130							
Surrogate: 1-Chlorooctadecane	91.8	% 70-130)						

Sample ID: SW CORNER FLOOR (H101104-02)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/31/2011	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/31/2011	ND	203	101	200	1.89	
DRO >C10-C28	<10.0	10.0	05/31/2011	ND	163	81.7	200	0.0275	
EXT DRO >C28-C35	<10.0	10.0	05/31/2011	ND					
Surrogate: 1-Chlorooctane	98.9	70-130	ı						
Surrogate: 1-Chlorooctadecane	84.85	% 70-130							

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Celeg D. Keine



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

(575) 396-1429 Fax To:

Received:

05/27/2011

Sampling Date:

05/27/2011

Reported:

Soil

05/31/2011

Sampling Type:

** (See Notes)

Project Name:

POKER LAKE UNIT #68

Sampling Condition:

Project Number:

PLU - 68 TEMPORARY TANK SPILL

Sample Received By:

Celey D. Keene

Project Location:

EDDY COUNTY, NM

Sample ID: CENTER FLOOR (H101104-03)

BTEX 8021B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2011	ND	2.01	100	2.00	3.65	
Toluene*	<0.050	0.050	05/31/2011	ND	1.95	97.7	2.00	4.21	
Ethylbenzene*	<0.050	0.050	05/31/2011	ND	1.98	99.0	2.00	3.69	
Total Xylenes*	<0.150	0.150	05/31/2011	ND	5.86	97.7	6.00	3.97	
Surrogate: 4-Bromofluorobenzene (PIL	92.8	% 70-130	ı						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/31/2011	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/31/2011	ND	203	101	200	1.89	
DRO >C10-C28	<10.0	10.0	05/31/2011	ND	163	81.7	200	0.0275	
EXT DRO >C28-C35	<10.0	10.0	05/31/2011	ND					
Surrogate: 1-Chlorooctane	109	% 70-130							
Surrogate: 1-Chlorooctadecane	93.0	% 70-130	ı						

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Clay Ditreme



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

Fax To:

(575) 396-1429

Received:

05/27/2011

Sampling Date:

05/27/2011

Reported:

Soil

05/31/2011

Sampling Type:

Project Name:

POKER LAKE UNIT #68

Sampling Condition: Sample Received By: ** (See Notes) Celey D. Keene

Project Number: Project Location:

PLU - 68 TEMPORARY TANK SPILL

EDDY COUNTY, NM

Sample ID: NE CORNER FLOOR (H101104-04)

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/31/2011	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/31/2011	ND	203	101	200	1.89	
DRO >C10-C28	<10.0	10.0	05/31/2011	ND	163	81.7	200	0.0275	
EXT DRO >C28-C35	<10.0	10.0	05/31/2011	ND					
Surrogate: 1-Chlorooctane	122 9	% 70-130)						
Surrogate: 1-Chlorooctadecane	105	% 70-130	1						

Sample ID: NW CORNER FLOOR (H101104-05)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/31/2011	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/31/2011	ND	203	101	200	1.89	
DRO >C10-C28	<10.0	10.0	05/31/2011	ND	163	81.7	200	0.0275	
EXT DRO >C28-C35	<10.0	10.0	05/31/2011	ND					
Surrogate: 1-Chlorooctane	119	% 70-130	ı					•	
Surrogate: 1-Chlorooctadecane	109	% 70-130)						

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Celey D. Keine



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Fax To:

(575) 396-1429

Received:

05/27/2011

Sampling Date:

05/27/2011

Reported:

Sampling Type:

Project Name:

05/31/2011

Sampling Condition:

** (See Notes)

Project Number:

POKER LAKE UNIT #68 PLU - 68 TEMPORARY TANK SPILL

Sample Received By:

Celey D. Keene

Project Location:

EDDY COUNTY, NM

Sample ID: N WALL W END (H101104-06)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/31/2011	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/31/2011	ND	203	101	200	1.89	
DRO >C10-C28	<10.0	10.0	05/31/2011	ND	163	81.7	200	0.0275	
EXT DRO >C28-C35	<10.0	10.0	05/31/2011	ND					
Surrogate: 1-Chlorooctane	116	% 70-130)						
Surrogate: 1-Chlorooctadecane	106	% 70-130)						

Sample ID: N WALL E END (H101104-07)

hloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/31/2011	ND	416	104	400	3.77	
TPH 8015M	015M mg/kg		Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/31/2011	ND	203	101	200	1.89	
DRO >C10-C28	<10.0	10.0	05/31/2011	ND	163	81.7	200	0.0275	
EXT DRO >C28-C35	<10.0	10.0	05/31/2011	ND					
Surrogate: 1-Chlorooctane	117 %	6 70-130)						
Surrogate: 1-Chlorooctadecane	99.5 9	6 70-130	•						

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aleg 13 Kenne



Basin Environmental Service BEN J. ARGUIJO

P.O. Box 301

Lovington NM, 88260

Fax To:

(575) 396-1429

Received:

05/27/2011

Sampling Date:

05/27/2011

Reported:

05/31/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT #68

Sampling Condition:

** (See Notes)

Project Number:

PLU - 68 TEMPORARY TANK SPILL

Sample Received By:

Celey D. Keene

Project Location:

EDDY COUNTY, NM

Sample ID: N WALL MIDDLE (H101104-08)

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/31/2011	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/31/2011	ND	203	101	200	1.89	
DRO >C10-C28	<10.0	10.0	05/31/2011	ND	163	81.7	200	0.0275	
EXT DRO >C28-C35	<10.0	10.0	05/31/2011	ND					
Surrogate: 1-Chlorooctane	115	% 70-130	1		-				
Surrogate: 1-Chlorooctadecane	102	% 70-130							

Sample ID: E WALL N END (H101104-09)

hloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/31/2011	ND	416	104	400	3.77	
TPH 8015M	mg/	mg/kg		d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/31/2011	ND	203	101	200	1.89	
DRO >C10-C28	<10.0	10.0	05/31/2011	ND	163	81.7	200	0.0275	
EXT DRO >C28-C35	<10.0	10.0	05/31/2011	ND					
Surrogate: 1-Chlorooctane	120 %	6 70-130							
Surrogate: 1-Chlorooctadecane	103 %	6 70-130							

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Celeg D. Keine



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

Fax To:

Received:

05/27/2011

Sampling Date:

05/27/2011

Reported:

05/31/2011

Sampling Type:

106%

70-130

Sampling Condition:

** (See Notes)

Project Name:

POKER LAKE UNIT #68

Sample Received By:

Celey D. Keene

Project Number: Project Location:

Surrogate: 1-Chlorooctadecane

PLU - 68 TEMPORARY TANK SPILL EDDY COUNTY, NM

Sample ID: E WALL MIDDLE (H101104-10)

,	Result	Reporting Limit	Analyzed	Method Blank	nc.	~ ~			
		· -	Analyzed	Pieulou Dialik	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride <	<16.0	16.0	05/31/2011	ND	448	112	400	3.51	
TPH 8015M	mg/	'kg	Analyze	d By: AB					
Analyte R	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10 <	<10.0	10.0	05/31/2011	ND	203	101	200	1.89	
DRO >C10-C28	<10.0	10.0	05/31/2011	ND	163	81.7	200	0.0275	
EXT DRO >C28-C35	<10.0	10.0	05/31/2011	ND					

Sample ID: W WALL S END (H101104-11)

hloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/31/2011	ND	448	112	400	3.51	
TPH 8015M	mg/	mg/kg		d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/31/2011	ND	203	101	200	1.89	
DRO >C10-C28	<10.0	10.0	05/31/2011	ND	163	81.7	200	0.0275	
EXT DRO >C28-C35	<10.0	10.0	05/31/2011	ND					
Surrogate: 1-Chlorooctane	112 9	% 70-130					-		
Surrogate: 1-Chlorooctadecane	96.89	% 70-130							

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*=Accredited Analyte

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

Fax To:

(575) 396-1429

Received:

05/27/2011

Sampling Date:

05/27/2011

Reported:

05/31/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT #68

Sampling Condition: Sample Received By: ** (See Notes) Celey D. Keene

Project Number:

PLU - 68 TEMPORARY TANK SPILL

Project Location: EDDY COUNTY, NM

Sample ID: S WALL MIDDLE (H101104-12)

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	05/31/2011	ND	448	112	400	3.51	
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/31/2011	ND	203	101	200	1.89	
DRO >C10-C28	<10.0	10.0	05/31/2011	ND	163	81.7	200	0.0275	
EXT DRO >C28-C35	<10.0	10.0	05/31/2011	ND					
Surrogate: 1-Chlorooctane	118 9	% 70-130)						
Surrogate: 1-Chlorooctadecane	108 9	% 70-130)						

Sample ID: W WALL MIDDLE (H101104-13)

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	05/31/2011	ND	448	112	400	3.51	
TPH 8015M	mg ,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/31/2011	ND	203	101	200	1.89	
DRO >C10-C28	11.7	10.0	05/31/2011	ND	163	81.7	200	0.0275	
EXT DRO >C28-C35	<10.0	10.0	05/31/2011	ND					
Surrogate: 1-Chlorooctane	113	% 70-130)						
Surrogate: 1-Chlorooctadecane	103	% 70-130)						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine



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

Fax To:

(5

:

(575) 396-1429

Received:

05/27/2011

Sampling Date:

05/27/2011

Reported:

05/31/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT #68

Sampling Condition:

** (See Notes)

Project Number:

PLU - 68 TEMPORARY TANK SPILL

Sample Received By:

Celey D. Keene

Project Location:

EDDY COUNTY, NM

Sample ID: W WALL N END (H101104-14)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM			***	~-	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/31/2011	ND	448	112	400	3.51	
TPH 8015M	mg	/kg	Analyze	d By: AB				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/31/2011	ND	203	101	200	1.89	
DRO >C10-C28	<10.0	10.0	05/31/2011	ND	163	81.7	200	0.0275	
EXT DRO >C28-C35	<10.0	10.0	05/31/2011	ND					
Surrogate: 1-Chlorooctane	113	% 70-130)						. 1.03
Surrogate: 1-Chlorooctadecane	104	% 70-130)						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 9 of 12



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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alex & Kune

RDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 1

Company Name: Basin Frytronmental Service Tech. LLC								ELL TO						ANALYSIS REQUEST											
Project Manager: Ben J. Arquijo									O. #:																
Address: P.O. Box 30(Co	mpa	ny:	Bo	OPCO	LP					1						1	
City: Lovington State: NM Zip: 88260									Attn: Tony Savoie								1]					1	
Phone #: (575\396-2378 Fax #: (575) 396-1429									Address: 522 W. Mermad											ļ		l		1	
Project #: Project Owner: LP									City: Carls bad								1					l			
Project Name: PLU*68									State: NM Zip: 88220						1	1	ł		1	}	1	1		1	1
									Phone #: (432) 556-8730						1	ł			l		ŀ	ļ		l	
Sampler Name:	Troy Hah							Fax#:						$]$ Ξ	1		-	1	}						
FOR LAB USE ONLY			·			MATE	IX	PRESERV. SAMPLING						F	S	ŀ	İ			1					
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service. In no event shall Co	g those for negligance and any other on rdinal be liable for insidental or consequ	uza wiistacever eristi pe o rental demegas, including	withou	Watve Emile	den, busi	masa intern	iong en iptions,	a rece: less e:	vae by	r loss o	in wird of profits	n as days am Incurred by	er completion of t dient, its subsidi	ne applica arles,	Dia										
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2478

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2

Company Name:																ANALYSIS REQUEST											
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Project Location:										Phone #:									l			1					
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service. In no event shall Condinat be Natio for incidental or consequented damages, including without limitation, business interruptions, to affiliate or successors staing get of or related to the performance of services have undertain proceedings of whither such claim is Relinquished By: Description De							m.e.p	Phone R					BUIL	□ Ye	8 🛘	No	Add	Phone	#								
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June 08, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE UNIT #68

Enclosed are the results of analyses for samples received by the laboratory on 06/01/11 16:28.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydorcarbons

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

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Celey & Kune

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To: (575) 396-1429

Received:

06/01/2011

Sampling Date:

06/01/2011

Reported:

06/08/2011

Sampling Type:

Soil

Project Name:

06/08/2011

Sampling Condition:

Cool & Intact

Project Number:

POKER LAKE UNIT #68 PLU - 68 TEMPORARY TANK SPILL

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: SEC 4 B FLOOR 10' BGS (H101127-01)

BTEX 8021B	mg,	/kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2011	ND	1.94	96.8	2.00	4.92	
Toluene*	<0.050	0.050	06/03/2011	ND	1.92	96.1	2.00	5.37	
Ethylbenzene*	<0.050	0.050	06/03/2011	ND	1.90	95.0	2.00	8.08	
Total Xylenes*	<0.150	0.150	06/03/2011	ND	5.60	93.3	6.00	8.04	
Surrogate: 4-Bromofluorobenzene (PIL	92.1	% 70-130					.,		
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/02/2011	ND	400	100	400	7.69	
TPH 8015M	mg /	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/03/2011	ND	185	92.4	200	6.70	
DRO >C10-C28	39.2	10.0	06/03/2011	ND	156	77.9	200	12.7	
EXT DRO >C28-C35	<10.0	10.0	06/03/2011	ND					
Surrogate: 1-Chlorooctane	126	% 70-130							
Surrogate: 1-Chlorooctadecane	124 9	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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Celeg E. Keine



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

Fax To:

(575) 396-1429

Received:

06/01/2011

Sampling Date:

06/01/2011

Reported:

06/08/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT #68

Sampling Condition:

Cool & Intact

Project Number:

PLU - 68 TEMPORARY TANK SPILL

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: SEC 4 B SOUTH WALL 9' BGS (H101127-02)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/02/2011	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: AB				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	816	10.0	06/03/2011	ND	185	92.4	200	6.70	
DRO >C10-C28	1810	10.0	06/03/2011	ND	156	<i>77.</i> 9	200	12.7	
EXT DRO >C28-C35	97.4	10.0	06/03/2011	ND					
Surrogate: 1-Chlorooctane	102	% 70-130							
Surrogate: 1-Chlorooctadecane	72.3	% 70-130	ı						

Sample ID: SEC 4 B N WALLL 9' BGS (H101127-03)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM			·····			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/02/2011	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/03/2011	ND	185	92.4	200	6.70	
DRO >C10-C28	<10.0	10.0	06/03/2011	ND	156	77.9	200	12.7	
EXT DRO >C28-C35	<10.0	10.0	06/03/2011	ND					
Surrogate: 1-Chlorooctane	105 %	% 70-130						_	
Surrogate: 1-Chlorooctadecane	110%	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



Basin Environmental Service

BEN J. ARGUIJO P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received:

06/01/2011

Sampling Date:

06/01/2011

Reported:

Sampling Type:

Soil

Project Name:

06/08/2011

Sampling Condition:

Cool & Intact

POKER LAKE UNIT #68

Sample Received By:

Jodi Henson

Project Number: Project Location: PLU - 68 TEMPORARY TANK SPILL EDDY COUNTY, NM

Sample ID: SEC 2 & 3B FLOOR 6' BGS (H101127-04)

STEX 8021B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2011	ND	1.94	96.8	2.00	4.92	
Toluene*	0.171	0.050	06/03/2011	ND	1.92	96.1	2.00	5.37	
Ethylbenzene*	0.181	0.050	06/03/2011	ND	1.90	95.0	2.00	8.08	
Total Xylenes*	1.02	0.150	06/03/2011	ND	5.60	93.3	6.00	8.04	
Surrogate: 4-Bromofluorobenzene (PIL	92.3	% 70-130	1						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/02/2011	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	61.0	10.0	06/03/2011	ND	190	94.8	200	4.55	
DRO >C10-C28	666	10.0	06/03/2011	ND	153	76.3	200	8.70	
EXT DRO >C28-C35	37.3	10.0	06/03/2011	ND					
Surrogate: 1-Chlorooctane	131 9	6 70-130	· · · · · · · · · · · · · · · · · · ·						
Surrogate: 1-Chlorooctadecane	1169	6 70-130							

Cardinal Laboratories

*=Accredited Analyte

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

Celeg D. Keine



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

Received:

06/01/2011

Sampling Date:

06/01/2011

Reported:

06/08/2011

Sampling Type:

Soil

Reported.

0,00,2011

Sampling Condition:

Cool & Intact

Project Number

POKER LAKE UNIT #68

PLU - 68 TEMPORARY TANK SPILL

Complete Description

-

Project Number: Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: SEC 2 & 3B S WALL 5' BGS (H101127-05)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/02/2011	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/03/2011	ND	190	94.8	200	4.55	
DRO >C10-C28	58.6	10.0	06/03/2011	ND	153	76.3	200	8.70	
EXT DRO >C28-C35	<10.0	10.0	06/03/2011	ND					
Surrogate: 1-Chlorooctane	100 %	6 70-130)			· · · · · · · · · · · · · · · · · · ·			
Surrogate: 1-Chlorooctadecane	85.8%	% 70-130	1						

Sample ID: SEC 2 & 3B E WALL 3' BGS (H101127-06)

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	06/02/2011	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/03/2011	ND	190	94.8	200	4.55	
DRO >C10-C28	<10.0	10.0	06/03/2011	ND	153	76.3	200	8.70	
EXT DRO >C28-C35	<10.0	10.0	06/03/2011	ND					
Surrogate: 1-Chlorooctane	119%	6 70-130							
Surrogate: 1-Chlorooctadecane	122 %	6 70-130							

Cardinal Laboratories

*=Accredited Analyte

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

Celeg D. Kenne



Notes and Definitions

Z-01 One or more surrogates above historical limits.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remody for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All cisims, including those for negligence and any other cause whistowerer shall be deemed warved unless mode in withing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, behaling, without limitation, business interruptions, loss of use, or loss of profits incurred by clarify, regardless of whether such claims is based upon any of the above stated remons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with witton approved of Cardinal laboratories.

Celeg D. Kenna



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	Basin Environmental Service	Tech	nolog	gies, LLO	С		BI	LL TO					1	NAL	YSIS	RE	QUE:	ST			
Project Manage	r: Ben J. Arguijo					P.C). #:														
Address: P.O						Cor	npany: B	OPCO, LP]	ĺ	
City: Lovingto	on State: NM	Zip	882	60		Att	n: Tony	Savoie						1						-	
Phone #: (575		96-1	429			Add	dress: 522	w. Mer	mod					-					1	-	
Project#:	Project Owne	r: BO	PCO,	LP		City	y: Carlsb	ad				Ì		1							
Project Name:	Poker Lake Unit 68					Sta	te: NM	Zip: 8822	0	1		į		ļ							
Project Location						Pho	one #: (43	 2)556-87	30		ļ	ĺ								l	
Sampler Name:	Jody Walters					Fax	· #:			1,	,	4								l	
FOR LAB USE ONLY	,			MATR	IX		PRESERV.	SAMPL	ING	Ę	0			ļ					1	ĺ	
Lab I.D. HIDI177	Sample I.D.	(G)RAE OR (C)OM	# CONTAINERS	WASTEWATER SOIL	SLUDGE	OTHER:	ACID/BASE: ICE / COOL OTHER:	DATE	TIME	8015M	Chilorid.	18-TE									
- 1	Sec 4B Floor 10'Bas	C	1	У			X	6-1-11	11:10		X	X									
2	Sec 4B South Wall 9'Bos	G	1	Y			X	6-1-11	11:20	У	X	<u> </u>									
3	Sec 4B Northwell 9'Blas	G	1	<u>χ</u>			く	6-1-11	11.30	X	X										
Ų.	Sec 2+3B Floor 6'B65	6		X			×	6-1-11	1.10	X	X	×									
5	Sec 2438 Southwall 5'BHS	6)	X			X	6-1-11	1.20	X	X										
b	SIC243B East Wall 3 865	6	1	X		_	X	6-1-11	1:30	Х	X	ļ									,
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PLEASE NOTE: Unblink and branages. Caronia's leability and crient's exclusive remedy for any own arrisming whether does not increase of critic state of this, state of the amount paid of the applicable service. In no event shall Cardhol be finable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.

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Relinq⊭ii≰hed By <u>/</u> :	Date: 1 , Received By:	. /	Phone Result:	☐ Yes	□ No	Add'i Phone #:
1/m/Wat	"9:28 dodi.	Denson	Fax Result: REMARKS:	□ Yes	□ No	Add' Fax #:
Rejinguished By:	Date: Received By:		pleas	so emai'	rosu	is to pm@basinenv.com
Delivered By: (Circle One)	Sample	Condition CHECKED BY:	-1	savoie@E		•
Sampler - UPS - Bus - Other:	Cool Your No	Intact ((Initials) Pres No		ec v OT e.s.	Janes J. C. C.	



June 08, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE UNIT #68

Enclosed are the results of analyses for samples received by the laboratory on 06/01/11 16:28.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydorcarbons

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

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

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

Accreditation applies to public drinking water matrices.

Celeg & Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To: (575) 396-1429

Received:

06/01/2011

Sampling Date:

05/31/2011

Reported:

06/08/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT #68

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

PLU - 68 TEMPORARY TANK SPILL

Sample Received By:

Jodi Henson

Project Number: Project Location:

EDDY COUNTY, NM

Sample ID: SEC 6B FLOOR 9' BGS (H101128-01)

BTEX 8021B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2011	ND	1.94	96.8	2.00	4.92	
Toluene*	<0.050	0.050	06/03/2011	ND	1.92	96.1	2.00	5.37	
Ethylbenzene*	<0.050	0.050	06/03/2011	ND	1.90	95.0	2.00	8.08	
Total Xylenes*	<0.150	0.150	06/03/2011	ND	5.60	93.3	6.00	8.04	
Surrogate: 4-Bromofluorobenzene (PIL	92.8	% 70-130							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/03/2011	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/07/2011	ND	190	94.8	200	4.55	
DRO >C10-C28	133	10.0	06/07/2011	ND	153	76.3	200	8.70	
EXT DRO >C28-C35	<10.0	10.0	06/07/2011	ND					
Surrogate: 1-Chlorooctane	112	% 70-130)						
Surrogate: 1-Chlorooctadecane	114	% 70-130	,						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine



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

Fax To:

(575) 396-1429

Received:

06/01/2011

Sampling Date:

05/31/2011

Reported:

Sampling Type:

Soil

06/08/2011

Project Name:

POKER LAKE UNIT #68

Sampling Condition:

Cool & Intact

Project Number:

PLU - 68 TEMPORARY TANK SPILL

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: SEC 6B W WALL 8' BGS (H101128-02)

Chloride, SM4500Cl-B	mg/	mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/02/2011	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	đ By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/07/2011	ND	190	94.8	200	4.55	
DRO >C10-C28	<10.0	10.0	06/07/2011	ND	153	76.3	200	8.70	
EXT DRO >C28-C35	<10.0	10.0	06/07/2011	ND					
Surrogate: 1-Chlorooctane	98.4	% 70-130)						
Surrogate: 1-Chlorooctadecane	104 9	% 70-130)						

Sample ID: SEC 6B E WALL 8' BGS (H101128-03)

Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/02/2011	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/07/2011	ND	190	94.8	200	4.55	
DRO >C10-C28	<10.0	10.0	06/07/2011	ND	153	76.3	200	8.70	
EXT DRO >C28-C35	<10.0	10.0	06/07/2011	ND					
Surrogate: 1-Chlorooctane	102 9	% 70-130							
Surrogate: 1-Chlorooctadecane	109 9	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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Celent Keine



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

Fax To: (575) 396-1429

Received:

06/01/2011

Sampling Date:

05/31/2011

Reported:

06/08/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT #68

Sampling Condition:

Cool & Intact

Project Number:

PLU - 68 TEMPORARY TANK SPILL

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: SEC 6B N WALL 8' BGS (H101128-04)

Chloride, SM4500Cl-B	mg/	mg/kg		d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/02/2011	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/03/2011	ND	190	94.8	200	4.55	
DRO >C10-C28	97.5	10.0	06/03/2011	ND	153	76.3	200	8.70	
EXT DRO >C28-C35	<10.0	10.0	06/03/2011	ND					
Surrogate: 1-Chlorooctane	142 9	% 70-130)						
Surrogate: 1-Chlorooctadecane	134 %	% 70-130)						

Cardinal Laboratories *=Accredited Analyte

PLESE NOTE: Liability and Damuges. Cardina's liability and client's exclusive remody for any clean arising, whether bened in contract or tort, shall be limited to the amount pold by client for analyses. All claims, including those for negligence and any other cause whistowere shall be deemed waked unless made in withing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or accessors arising out of or related to the performance of the services hereunded by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with witten approved of Cardinal laboratories.

aleg to Kenne



Notes and Definitions

Z-01 One or more surrogates above historical limits.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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

Celeny D. Kaina



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	2: Basin Environmental Service		າກດໂດ	ries IIC	-	81	LLTO		46.000 To add 40.000	THE WAY THE REAL PROPERTY.	10.1000 ratur 1	۸A	ALYSI	S RE	QUE	ST	marereden	-	
Project Manage	r: Ben J. Arguijo	1001		31.077 Dide	P.	O. #:													**************************************
Address: P.O					Co	ompany: B	OPCO, LP										1		
City: Lovingt	on State: NM	Zip	: 882	60	Αt	tn: Tony	Savoie										1		
Phone #: (575				****	Ac	ddress: 522	w. Mer	mod									I		
Project #:	Project Owne	r: BC	PCO,	LF	Ci	ty: Carlsb	ad										İ		
Project Name:	Poker Lake Unit #68				St	ate: NM	Zip: 8822	0									Ì		
Project Location					PI	none #: (43	2)556-87	30											
Sampler Name:	Jody Walters				Fa	ıx #:													
FOR LAB USE CALY	3	Π.	П	MATRIX		PRESERV.	SAMPL	NG				ļ							
Lab I.D. H101128	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	WASTEWATER SOIL OIL	OTHER	ACID/BASE: ICE / COOL OTHER:	DATE	TIME	MSIO8	Chlorides	BTEX								
- 1	Sec 6 B Floor 9'B65	G	1	χ		X		1030Am	Y	Χ	Х								
7	Sec 6B Westwell 8'365	G	Ш	Х	1	χ		10:40AM		X				ļ	ļ				
3	Sec. 6 B EAS+ U=11 8'365	G		X		χ	53 -11	10:50 AM	Χ_	<u> X</u>				<u> </u>					
4	SoeloB North Wall 8'365	G	11_	χ		Х	5-31-11	11:00AM	X	X				<u> </u>	ļ				
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PLEASE NOTE: Liability ar	nd Damages, Cardinal's liability and client's exclusive remedy for	ану clas	11 215 00 1	whether based in contri	ot unto	st, shall be limited	o the amount pa	t id by the client for	lite							L			

PLEASE NOTE: Liability and Damages. Cardinal's flobility and stein's exclusive reinful for any date in reing whether hasce in contract or text, and the liability flower part of the amount paid by the client for the amplied has analyses. All claims including those for negligence and any other cause whatsoever shall be deemed white analyses. All claims including those for negligence and any other cause whatsoever shall be deemed white analyses interruptions, loss of uses, or loss of profix incurred by Elent, its subsidiaries.

Relinquished By:	Date: Received By:	Phone Result:
Inter	TT 28 Chick Dendon	REMARKS:
Relinquished By:	Date: Received By:	
10	Time:	
	<u>i</u>	Please email results to pm@basinenv.com
Delivered By: (Circle One)	Sample Condition CHECKED BY:	& TAsavoie@BassPet.com
Sampler - UPS - Bus - Other:	Cool Intact (mitials)	



June 13, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE UNIT #68

Enclosed are the results of analyses for samples received by the laboratory on 06/06/11 16:35.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydorcarbons

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

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

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

Accreditation applies to public drinking water matrices.

Celeg & Kune

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To:

(575) 396-1429

Analyzed By: CMS

Received:

06/06/2011

Sampling Date:

06/06/2011

Reported:

Sampling Type:

Soil

RTEY 2021R

06/13/2011

Cool & Intact

Project Name:

POKER LAKE UNIT #68

Sampling Condition:

Project Number:

PLU - 68 TEMPORARY TANK SPILL

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: AREA #7 FLOOR 12' BGS (H101169-01)

BTEX 8021B	mg,	/kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2011	ND	2.07	104	2.00	2.80	
Toluene*	<0.050	0.050	06/08/2011	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	06/08/2011	ND	2.11	106	2.00	2.37	
Total Xylenes*	<0.150	0.150	06/08/2011	ND	6.14	102	6.00	3.01	
Surrogate: 4-Bromofluorobenzene (PIL	95.8	% 70-130							
Chloride, SM45Q0CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/07/2011	ND	464	116	400	3.51	
TPH 8015M	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/11/2011	ND	209	105	200	1.94	
DRO >C10-C28	<10.0	10.0	06/11/2011	ND	189	94.5	200	2.13	
EXT DRO >C28-C35	<10.0	10.0	06/11/2011	ND					
Surrogate: 1-Chlorooctane	118	% 70-130							
Surrogate: 1-Chlorooctadecane	127	% 70-130	1						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any ofter cause whotspeerer shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, willhout limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Keine



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

Fax To:

(575) 396-1429

Received:

06/06/2011

Sampling Date:

06/06/2011

Reported:

Sampling Type:

Soil

06/13/2011

Cool & Intact

Project Name:

POKER LAKE UNIT #68

Sampling Condition: Sample Received By:

Jodi Henson

Project Number:

PLU - 68 TEMPORARY TANK SPILL EDDY COUNTY, NM

Project Location:

Sample ID: AREA #7 NORTH WALL 11' BGS (H101169-02)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19200	16.0	06/07/2011	ND	464	116	400	3.51	
TPH 8015M	mg/	kg	Analyze	Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/11/2011	ND	209	105	200	1.94	
DRO >C10-C28	<10.0	10.0	06/11/2011	ND	189	94.5	200	2.13	
EXT DRO >C28-C35	<10.0	10.0	06/11/2011	ND					
Surrogate: 1-Chlorooctane	139 %	6 70-130	1						
Surrogate: 1-Chlorooctadecane	152 %	6 70-130)						

Sample ID: AREA #7 SOUTH WALL 6' BGS (H101169-03)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/07/2011	ND	464	116	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	06/11/2011	ND	209	105	200	1.94		
DRO >C10-C28	<10.0	10.0	06/11/2011	ND	189	94.5	200	2.13		
EXT DRO >C28-C35	<10.0	10.0	06/11/2011	ND						
Surrogate: 1-Chlorooctane	130 9	% 70-130				<u> </u>				
Surrogate: 1-Chlorooctadecane	138 9	% 70-130	ı							

Cardinal Laboratories

*=Accredited Analyte

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Celent Karne



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

Fax To:

(575) 396-1429

Received:

06/06/2011

Sampling Date:

06/06/2011

Reported:

Sampling Type:

Soil

06/13/2011

Project Name:

POKER LAKE UNIT #68

Sampling Condition:

Cool & Intact

Project Number:

PLU - 68 TEMPORARY TANK SPILL

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: AREA #7 WEST WALL 11' BGS (H101169-04)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/07/2011	ND	464	116	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	06/11/2011	ND	209	105	200	1.94	
DRO >C10-C28	<10.0	10.0	06/11/2011	ND	189	94.5	200	2.13	
EXT DRO >C28-C35	<10.0	10.0	06/11/2011	ND					
Surrogate: 1-Chlorooctane	1179	% 70-130)						
Surrogate: 1-Chlorooctadecane	127 9	% 70-130)						

Sample ID: AREA #7 EAST WALL 11' BGS (H101169-05)

Chloride, SM4500CI-B	mg/k	rg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/07/2011	ND	464	116	400	3.51	
TPH 8015M	mg/l	mg/kg		Analyzed By: AB					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/11/2011	ND	209	105	200	1.94	
DRO >C10-C28	<10.0	10.0	06/11/2011	ND	189	94.5	200	2.13	
EXT DRO >C28-C35	<10.0	10.0	06/11/2011	ND					
Surrogate: 1-Chlorooctane	173 %	70-130							
Surrogate: 1-Chlorooctadecane	187 %	70-130							

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Celeg D. Keine-



Notes and Definitions

Z-01	One or more surrogates above historical limits.
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.
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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Celeng L. Kenne



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Company Name	Basin Environmental Service	Tecl	mol-	ogies, LLC		81	LL TO						ANAL	YSIS	RE	QUE:	ST			
Project Manage	^{f:} Ben J. Arguijo				Р.	O. #;					THE STREET							- Andrews		:nm.====
Address: P.O					C	ompany: Bo	OPCO, TJP													
City: Lovingt	on State: мм	Zip	: 88	260	Attn: Tony Savoie															
Phone #: (575) 396-2378 Fax #: (575) 3	96-1	429		Address: 522 w. Mermod															
Project#:	Project Owne	r: 30	PCO	, LP	Ci	ty: Carlsb	ad			1									Ì	
Project Name:	Poker Lake Unit 68				State: №4 Zip: 39220												1			
	n: Poker Lake Unit 68.	ED.	DΥ	NM	Pi	none #: (43:	2)556-87	30		1		Ì							1	
	Jody Walters				Fa	ax #:														
FOR LAB USF OULY	,		П	MATRIX		PRESERV.	SAMPL	ING]	1								1		
Lab I.D. 뉘1011년 ^C 1	Sample I.D.	(G)RAB OR (C)ON	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER:	ACID/BASE. ICE / COOL OTHER:	DATE	TIME	ROISM	Chlorides	BTEX									
- 1	AFEA #17 Floor 12'865	G		X ·		X	10-6-11	10:30Am	X	X	X									
2.	AREA #7 North Wall 111365	G	11	χ		Ϋ́	6-6-11	10:40 AM	Y	X										
	AREA#7 Southwall 6'B65	G	-;-	X	_ _	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		10,50Am	T 1/	X										
	AREAH 7 Westwall 11 B65	G		Χ		χ	10-10-11	11:00 Am	X,	X										
<u>_</u>	AREA #7 EASTURI) 11'B65	<u> </u>	Ш	X		X	6-6-11	11:10 AM	$\perp X$	X										
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PLEASE NOTE: Lianely a	nd Darnages. Cardinal's liability and client's exclusive remedy to	I row real	1 2050	a whether haved in 100	tract or to	nt shall be trided	to the amount of	d by the cheat far	Citio		<u> </u>		<u> </u>	<u> </u>	L	<u> </u>				-

service. In no evant alias Cardinal be liable for inociental or consequental damages, incloung various limitation, cossiess interruptions, loss of use or loss of profix sucured by etem, as subsidients allutates or various answer of the related to the performance of sentines are removed by Cardinal regardless of various relatives based upon any of the above space reasons or otherwise.

Relinquished By:	2010/11	Received By:	<i>i</i> 0 . :	Phone Result: Fax Result:	□ Yes □ Yes	□ No □ No	Add'l Phone #: Add'l Fax #:
Mall	Time 3/5)	While Miles		REMARKS:			
Relinguished By:	Date:	Received By:					
	Time:	_		وهم (۱۱	e omai:	resu'-	as to pa@basinenv.com
Delivered By: (Circle One)		Sample Condition	CHECKED BY:		ravoie#E		•
Sampler - UPS - Bus - Other:		5.52 Gool Intact Yes Tyes No No No	(Initials)				

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



April 17, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU 68

Enclosed are the results of analyses for samples received by the laboratory on 04/12/12 9:10.

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 accredited certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

aleg & Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To: (575) 396-1429

Received:

04/12/2012

04/17/2012

Reported: Project Name:

PLU 68

Project Number: Project Location: NONE GIVEN
EDDY COUNTY, NM

Sampling Date:

04/11/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: F.T.A. SOUTH WALL (H200841-01)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/16/2012	ND	2.08	104	2.00	2.80	
Toluene*	<0.050	0.050	04/16/2012	ND	2.15	108	2.00	2.84	
Ethylbenzene*	<0.050	0.050	04/16/2012	ND	2.14	107	2.00	2.99	
Total Xylenes*	<0.150	0.150	04/16/2012	ND	6.61	110	6.00	2.53	
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 64.4-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/16/2012	ND	400	100	400	11.3	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/14/2012	ND	191	95.6	200	6.82	
DRO >C10-C28	24.6	10.0	04/14/2012	ND	208	104	200	3.99	
EXT DRO >C28-C35	17.4	10.0	04/14/2012	ND					
Surrogate: 1-Chlorooctane	102 9	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	108 9	% 57.6-15	8						

Sample ID: F.T.A. EAST WALL (H200841-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/16/2012	ND	400	100	400	11.3	

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Celeg D. Keine



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

(575) 396-1429 Fax To:

Received:

04/12/2012

04/17/2012

Reported: Project Name:

PLU 68 NONE GIVEN

Project Number: Project Location:

Analyte

Analyte

EDDY COUNTY, NM

Sampling Date:

04/11/2012

Sampling Type:

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Soil

Sample ID: F.T.A. WEST WALL (H200841-03)

Chloride, SM4500CI-B

Chloride

Chloride

Ch

mg/kg

Analyzed By: AP

Result

32.0

Result

<16.0

Reporting Limit 16.0

Reporting Limit

16.0

Analyzed 04/16/2012

Analyzed

04/16/2012

Method Blank ND

Method Blank

ND

400

RS

% Recovery 100

True Value QC 400

RPD

Qualifier

Sample ID: F.T.A. FLOOR (H200841-04)

Chloride, SM4500CI-B

Analyzed By: AP

BS

400

% Recovery

100

True Value QC

400

RPD

11.3

RPD

11.3

11.3

Qualifier

Qualifier

Sample ID: F.T.A. NORTH WALL (H200841-05)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC		
hloride	32.0	16.0	04/16/2012	ND	400	100	400		

Cardinal Laboratories

*=Accredited Analyte

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Celength treme Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5



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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Celen D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Basin Environmental Service Tech	BILL TO	ANALYSIS REQUEST											
Project Manager: Ben J. Arguijo	P.O. #:						1200						
Address: F.O. Eox 301	Company: BOPCO, LP											ļ	
City: Lovington State: NM Zip:	Attn: Tony Savoie												
Phone #: (575) 396-2378	Address: 522 w. Mermod										1	į	
Project #: Project Owner: BOI	City: Carlsbad			l									
Project Name: PLU 68	State: NM Zip: 882										1		
Project Location: EDDY N M		Phone #: (432) 556-8								. 1			
Sampler Name: Jody Walters		Fax #:								.			
Lab I.D. Sample I.D. 80 97 97 97 98 98 98 98 98 98 98 98 98 98 98 98 98	d valved unlass made in witing and Climitation, business interruptions, I Tegal dass of whether such dain (Y 4-11-12 X 4-11-12 X 4-11-12 X 4-11-12 X 4-11-12 X 4-11-12	TIME 130 1:40 1:50 2:00 2:10 2:10	X X X X X X X X X X X X X X X X X X X	X Etva validad	X Billy			30.777.48.401.301.301.301.301.301.301.301.301.301.3				
Time: 130 -	ceived By:		Phone Re Fax Resul REMARKS	t: [) Yes			Phone # Fax #:		***************************************			
Rel/induighed By: Date: \(\frac{1}{\lambda \int \lambda	Sample Condition		~ <u>j</u>	Please & TAsa			ilts to	pm@ba	sinenv.	com			

Gardinal capacity and changes. Please fax

Sampler - UPS - Bus - Other:

envinances to 5d5/393-2475

JUNIOV + 26