# Basin Environmental Service Technologies, LLC

3100 Plains Highway P. O. Box 301 Lovington, New Mexico 88260 jwlowry@basinenv.com Office: (575) 396-2378 Fax: (575) 396-1429

čگ Effective Solutions

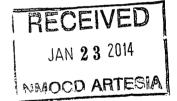
# **REMEDIATION SUMMARY**

# AND SITE CLOSURE REQUEST

BOPCO, LP POKER LAKE UNIT #140 TANK BATTERY Eddy County, New Mexico Unit Letter "E" (SW/NW), Section 32, Township 23 South, Range 30 East Latitude 32.263302° North, Longitude 103.910493° West NMOCD Reference #s 2RP-1907 & 2RP-2072

Prepared For:

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



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

December 2013

Joel (W. Low

**Project Manager** 

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## **1.0 INTRODUCTION & BACKGROUND INFORMATION**

Basin Environmental Service Technologies, LLC (Basin), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary and Site Closure Request* for the release site known as Poker Lake Unit #140 Tank Battery (PLU #140). The legal description of the release site is Unit Letter "E" (SW/NW), Section 32, Township 23 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.263302° North latitude and 103.910493° West longitude. The property affected by the release is owned by the State of New Mexico and administered by the New Mexico State Land Office (NMSLO). A "Site Location Map" is provided as Figure 1.

On September 9, 2013, BOPCO discovered a release had occurred at the PLU #140 Tank Battery. The release was attributed to the failure of a three-inch (3") poly line near a welded connection, allowing produced water to gravitate from the tank onto the ground outside the tank containment area. The release was reported to the New Mexico Oil Conservation Division (NMOCD) Artesia District Office on September 9, 2013. The "Release Notification and Corrective Action" (Form C-141) indicated approximately ten barrels (10 bbls) of crude oil and fifty barrels (50 bbls) of produced water were released, with no recovery. The initial Form C-141 indicated the release affected approximately three thousand, three hundred and thirty-four square feet (3,334 ft<sup>2</sup>) of pasture and one thousand, one hundred and sixty-two square feet (1,162 ft<sup>2</sup>) of lease road. During initial response activities, the tank valve was closed and the line was repaired; saturated soil around the spill area was scraped up and stockpiled on-site, pending final disposition. The Form C-141 is provided as Appendix A. General photographs of the release site are provided as Appendix B.

On September 19, 2013, BOPCO had a second release at the PLU #140 Tank Battery. The release was attributed to the failure of a three-inch (3") poly line. The Form C-141 indicated that a pin hole near a repair connection made on September 9, 2013, resulted in the release of approximately fifteen barrels (15 bbls) of produced water with approximately five barrels (5 bbls) being recovered. Some of the spill was contained inside the impervious containment, some of the spray area got outside of the containment and affected and area previously impacted by the reportable spill which occurred on September 9, 2013. Both releases were remediated simultaneously in accordance with the NMOCD's Guidelines for Remediation of Leaks, Spills and Releases.

## 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 32, Township 23 South, Range 30 East. A depth to groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately two hundred feet (200') below ground surface (bgs). Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

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

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

NMOCD guidelines indicate the PLU #140 Tank Battery release site has an initial ranking score of zero (0) points. The soil remediation levels for a site with a ranking score of zero (0) points are as follows:

- Benzene 10 mg/Kg (ppm)
- Benzene, ethylbenzene, toluene and xylene (BTEX) 50 mg/Kg (ppm)
- Total petroleum hydrocarbon (TPH) 5,000 mg/Kg (ppm)

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

## 3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On November 15, 2013, Basin began excavation activities at the release site. The floor and sidewalls of the exavation were advanced until field tests suggested concentrations of BTEX, TPH and chloride were less than NMOCD Regulatory Standards. Excavated material was stockpiled on-site, pending final disposition.

On November 18, 2013, two (2) confirmation soil samples were collected from the floor of the excavation and submitted to Cardinal Laboratories, of Hobbs, New Mexico, for analysis of chloride concentrations by EPA Method 4500 Cl-B. Laboratory analytical results indicate chloride concentrations ranged from 48.0 ppm for soil sample West Floor @ 1' to 144 ppm for soil sample East Floor @ 1' to. A summary of "Concentrations of Benzene, BTEX, TPH and Chloride in Soil" is provided in Table 1. Laboratory analytical reports are provided as Appendix C.

On November 20, 2013, two (2) soil samples (Center Road and Ravine Trench Floor) were collected from the floor of the excavation and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 752 ppm for soil sample Center Road to 1,230 ppm for soil sample Ravine Trench Floor. Soil samples Center Road and Ravine Trench Floor were also analyzed for concentrations of BTEX using EPA SW-846-8021b and TPH using EPA SW-846 8015M. Laboratory analytical results indicate BTEX and TPH concentrations were less than the appropriate laboratory method detection limit (MDL) in each of the submitted soil samples.

On November 26, 2013, three (3) soil samples (50' South, 100' Floor and 150' Floor) were collected from the floor of the excavation and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 272 ppm for soil sample 50' South to 768 ppm for soil sample 100' Floor.

On December 9, 2013, four (4) soil samples (North Wall, South Wall, East Wall and Floor) were collected from the floor and sidewalls of the excavation and submitted to the laboratory for

analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 32.0 ppm for soil sample East Wall to 592 ppm for soil sample Floor. Soil sample Floor was also analyzed for concentrations of BTEX and TPH, which were determined to be less than the appropriate laboratory MDL in each of the submitted soil samples.

On December 11, 2013, two (2) soil samples (Floor #2 and Floor #3) were collected from the floor of the excavation and submitted to the laboratory for analysis of chloride, BTEX and TPH concentrations. Laboratory analytical results indicate chloride concentrations ranged from 288 ppm for soil sample Floor #2 to 480 ppm for soil sample Floor #3. Analytical results indicated BTEX concentration were less than the appropriate laboratory MDL in each of the submitted soil samples. THP concentrations ranged from 119.1 ppm for soil sample Floor #3 to 1,206 ppm for soil sample Floor #2.

Between December 2 and 13, 2013, approximately six hundred cubic yards (600 yd<sup>3</sup>) of impacted material was transported to Lea Land, LLC (NMOCD Permit #WM-01-035) for disposal. The final dimensions of the primary excavation on the southeast side of the containment area were approximately thirty feet (30') in width, thirty-five feet (35') in length and three and one-half feet (3.5') in depth. Approximately four hundred feet (400') of a narrow flowpath traveling north from the well pad along the caliche access road was excavated to approximately three feet (3') bgs. Upon receiving laboratory analytical data from confirmation soil samples, the excavated areas were backfilled with locally purchased, non-impacted material. Following backfilling, the caliche well pad was repaired, and areas affected by the remediation activities were contoured to fit the surrounding topography.

# 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 PLU #140 Tank Battery excavation were analyzed by an NMOCD-approved laboratory. Laboratory analytical results indicated concentrations of BTEX, TPH and chloride were below NMOCD Regulatory Remediation Action Levels established for the site in each of the submitted soil samples, with the exception of soil sample Ravine Trench Floor, which exhibited a chloride concentration of 1,230 ppm. Based on these laboratory analytical results, Basin recommends BOPCO provide the NMOCD Artesia District Office and the NMSLO a copy of this *Remediation Summary and Site Closure Request* and request the NMOCD grant site closure to the PLU #140 Tank Battery release site.

# 6.0 LIMITATIONS

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

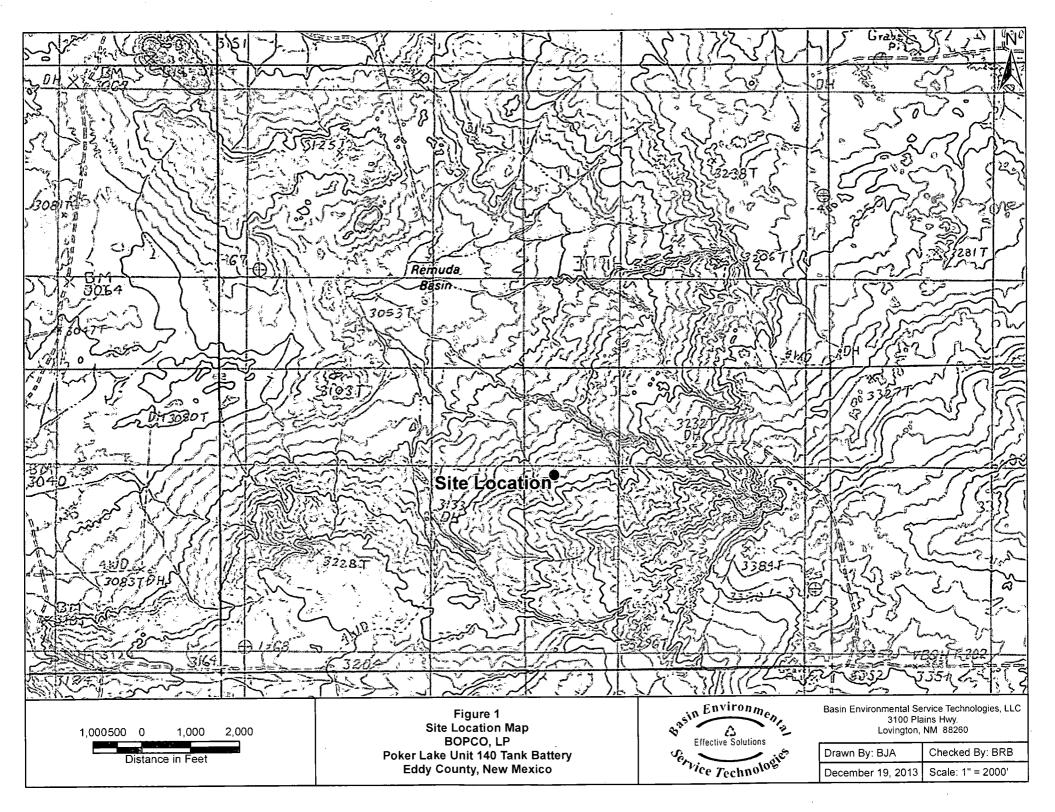
This report has been prepared for the benefit of BOPCO, LP. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Service Technologies, LLC, and/or BOPCO, LP.

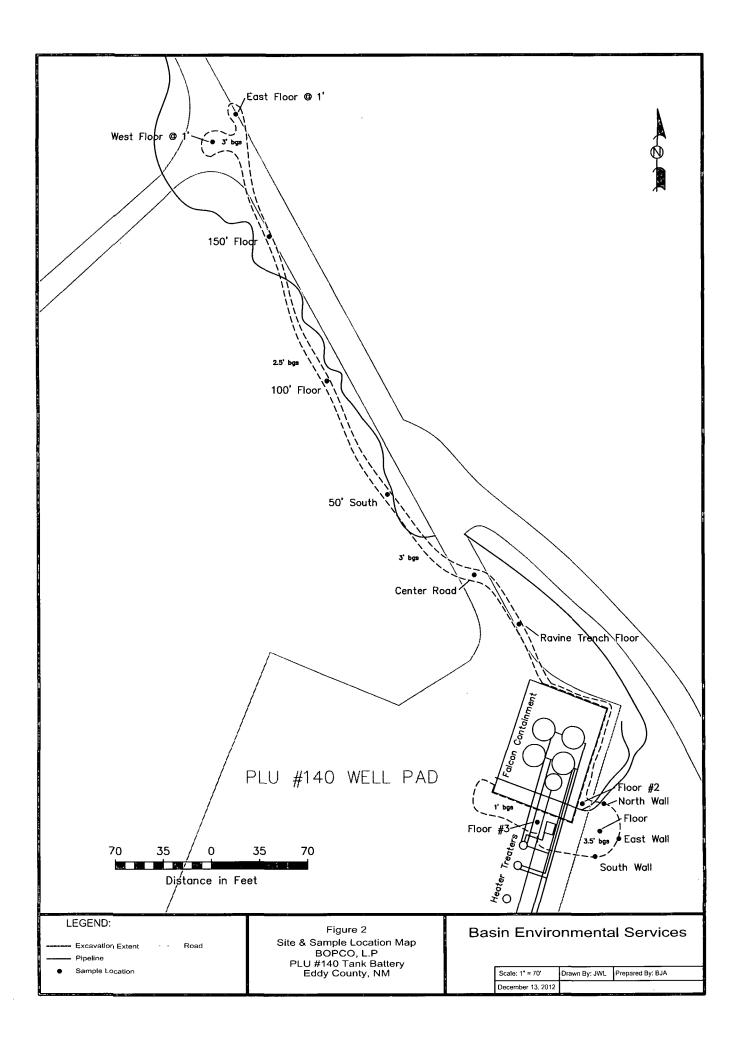
# 7.0 **DISTRIBUTION:**

- 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: Andrew Kraemer New Mexico State Land Office 602 N. Canal, Suite B. Carlsbad, New Mexico 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

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# TABLES

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## TABLE 1

## CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDES IN SOIL

## BOPCO, LP PLU #140 TANK BATTERY EDDY COUNTY, NEW MEXICO

			······································		METHOD: E	PA SW 846	-8021B, 503	0	MET	HOD: 80	15M	TOTAL	4500 CI-B
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C <sub>6</sub> -C <sub>12</sub> (mg/Kg)	DRO C <sub>12</sub> -C <sub>28</sub> (mg/Kg)	ORO C <sub>28</sub> -C <sub>35</sub> (mg/Kg)	TPH C <sub>6</sub> -C <sub>35</sub> (mg/Kg)	CHLORIDE (mg/Kg)
West Floor @ 1'	1'	11/18/2013	In-Situ	-	-	-	-	-	-	-	-	-	48.0
East Floor @ 1'	1'	11/18/2013	In-Situ	-	-	-	-	-	-	-	-	-	144
Center Road	2.5'	11/20/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	752
Ravine Trench Floor	3'	11/20/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,230
50' South	3'	11/26/2013	In-Situ	-	-	-	-		-		-		272
100' Floor	2.5'	11/26/2013	In-Situ	-	-	-	-	-	-	-	-	-	768
150' Floor	3'	11/26/2013	In-Situ		-	-		-	-	-	-	-	480
North Wall	2.5'	12/9/2013	In-Situ		-	-	-		-	-	-	-	80.0
South Wall	2.5'	12/9/2013	In-Situ	-	-	-	-	_	-	-	-	-	288
East Wall	2.5'	12/9/2013	In-Situ	-	_	-	-	_	-	-	-	-	32.0
Floor	3.5'	12/9/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	592
Floor #2	1'	12/11/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<50.0	771	435	1,206	288
Floor #3	1'	12/11/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	81.4	37.7	119.1	480
NMOCD Criteria	· · · · · · · · · · · · · · · · · · ·			10				50				5,000	1,000

- = Not analyzed.

# APPENDICES

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# Appendix A

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# **Release Notification and Corrective Action**

# (Form C-141)

State of New Mexico Energy Minerals and Natural Resources

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



NMOCD ARTESIA

**Release Notification and Corrective Action** 56033 **OPERATOR** Initial Report Final Report  $\boxtimes$ Contact: Tony Savoie Name of Company: BOPCO, L.P. 260737 Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 Telephone No. 575-887-7329 Facility Name: Poker Lake Unit 140 Tank Battery Facility Type: Exploration and Production Surface Owner: State of NM Mineral Owner: State of NM API No. 30-105-29876

# LOCATION OF RELEASE

!	Unit Letter E	Section 32	Township 23S	Range 30E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
		1							

Latitude N 32.263302 Longitude W 103.910493

## NATURE OF RELEASE

Type of Release: Crude oil and produced water	Volume of Release: 10 Bbls crude	Volume Recovered: None
	oil and 50 Bbls produced water	
Source of Release: 3" water transfer poly line	Date and Hour of Occurrence:	Date and Hour of Discovery
	9-9-13, time unkown	9-9-13 time 9:00 a.m.
Was Immediate Notice Given?	If YES, To Whom? NMOCD emerg	gency #104
🛛 Yes 🔲 No 🗍 Not Required		
By Whom? Tony Savoie	Date and Hour: 9/9/13 at approx. 1:	00 p.m.
Was a Watercourse Reached?	If YES, Volume Impacting the Wate	ercourse.
🗌 Yes 🔲 No		
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.*		
The 3" poly line failed at a welded connection. The pump was not running		ater was gravitating from the tank onto the
ground outside the tank containment area, the tank valve was closed and t	he line was repaired.	
Describe Area Affected and Cleanup Action Taken.* Approximately 333-	A co. ft. of pasture and approximately.	1162 age ft of road was officiated by the
release. All of the fluid had soaked into the ground. A one-call will be pla		
remediation plan will be submitted to the NMOCD.	leed and the saturated son will be serap	bed up and stockpried on-site. A
remediation plan will be sublimited to the NMOCD.		
I hereby certify that the information given above is true and complete to t	he best of my knowledge and understa	nd that pursuant to NMOCD rules and
regulations all operators are required to report and/or file certain release n		
public health or the environment. The acceptance of a C-141 report by th		
should their operations have failed to adequately investigate and remediat		
or the environment. In addition, NMOCD acceptance of a C-141 report d	loes not relieve the operator of respons	ibility for compliance with any other
federal, state, or local laws and/or regulations.		
	<u>OIL CONSERV</u>	ATION DIVISION
Signature ( As a Science)		A .
Signature: on Samu		
Printed Name: Tony Savoie	Approved by Environmental Specialis	It: Signed By MI14 DRAMMER
Timed Name, Tony Savole		
Title: Wasta Management and Remediation Specialist	SEP 11 2013	Expiration Data
Title: Waste Management and Remediation Specialist	SEP 11 2013	Expiration Date:
	Conditions of Approval:	
	Remediation per OCD Rule	Attached
Date: 9/10/03 Phone: 432-556-8730		

\* Attach Additional Sheets If Necessary

Phone: 432-556-8/30

Guidelines. SUBMIT REMEDIATION PROPOSAL NO LATER THAN:

2013

to her

2RP-190

# State of New Mexico **Energy Minerals and Natural Resources**

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

Form C-141 Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

API No. 30-105-29876

Release Notificat	ion and Corrective Actio	n	
nJMW 1332428471	OPERATOR	🛛 Initial Report	Final Report
Name of Company: BOPCO, L.P. 260737	Contact: Tony Savoie		
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329		
Facility Name: Poker Lake Unit 140 Tank Battery	oduction		
		-	

Surface Owner: State of NM

LOCATION OF RELEASE

Mineral Owner: State of NM

					1110/1 01 102				
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County	l
E	32	235	30E					Eddy	ł
		)				1	[		

Latitude N 32.263302 Longitude W 103.910493

## NATURE OF RELEASE

Type of Release: Produced water	Volume of Release: 15 Bbls produced water	Volume Recovered: 5 bbls from the impervious containment.								
Source of Release: 3" water transfer poly line	Date and Hour of Occurrence: 9-19-13, time unknown	Date and Hour of Discovery 9-19-13 time 9:00 a.m.								
Was Immediate Notice Given?	If YES, To Whom?									
By Whom?	Date and Hour:									
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	atercourse.								
Yes 🛛 No		RECEIVED								
If a Watercourse was Impacted, Describe Fully.*		NOV 15 2013								
		NMOCD ARTESIA								
Describe Cause of Problem and Remedial Action Taken.*										
The 3" poly line had a pin hole near a repair connection from a previous	release.									
Describe Area Affected and Cleanup Action Taken.* Some of the spill w outside the containment and affected an area previously impacted by a re cleaned up in accordance with the NMOCD standards beginning on 11/1	portable spill at the same location on 8/13.	9/9/13. Both spills are scheduled to be								
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release r public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remedia or the environment. In addition, NMOCD acceptance of a C-141 report of federal, state, or local laws and/or regulations.	notifications and perform corrective a the NMOCD marked as "Final Report" te contamination that pose a threat to	ctions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health								
	OIL CONSER	VATION DIVISION								
Signature: 1 Or Saulie Printed Name: Tony Savoic	Approved by Environmental Special	isted By Mily Bernun								
Title: Waste Management and Remediation Specialist	Approval Date:	Expiration Date:								
E-mail Address: tasavoie@basspet.com Date: 11/14/13 Phone: 432-556-8730	Conditions of Approval: Remediation per OCD Rule									
Date:     11/14/13     Phone:     432-556-8730     Guidelines.     SUBMIT REMEDIATION       Attach Additional Sheets If Necessary     PROPOSAL NO LATER THAN:     2-RP-201										

Hecember 20, 2013

Appendix B Photographs

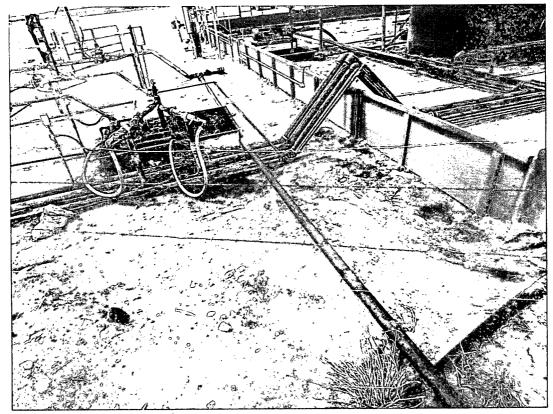
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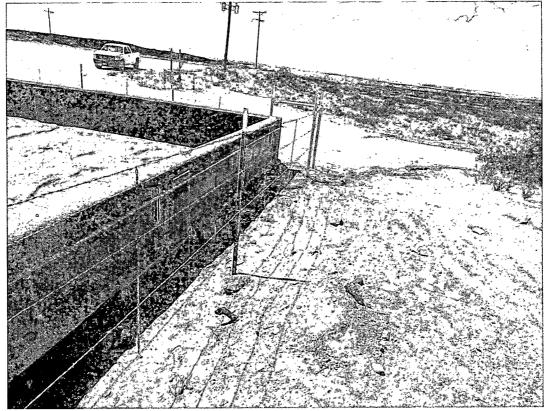
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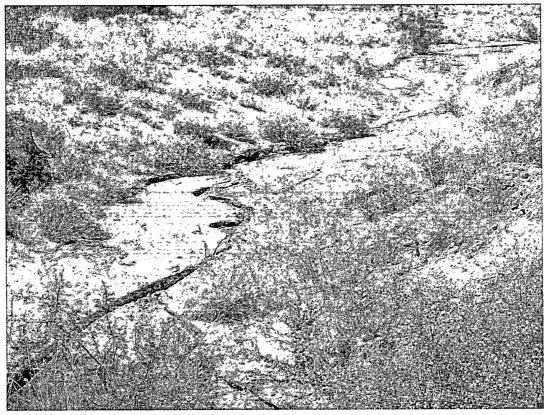
Photograph of surface impact from the initial release on the south side of the PLU #140 Tank Battery.



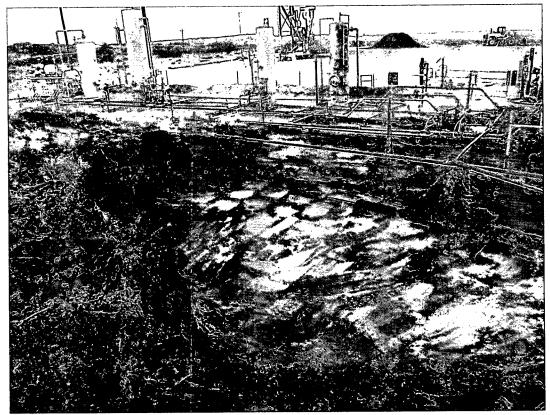
Photograph of surface impact from the initial release on the east side of the PLU #140 Tank Battery.



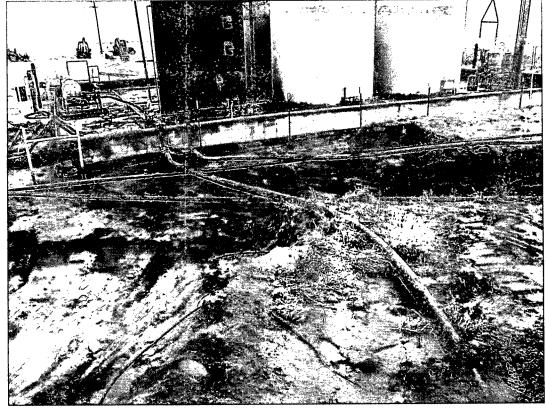
Photograph of surface impact from the initial release on the north side of the PLU #140 Tank Battery.



Photograph the initial release and flowpath at the PLU #140 Tank Battery Release Site.



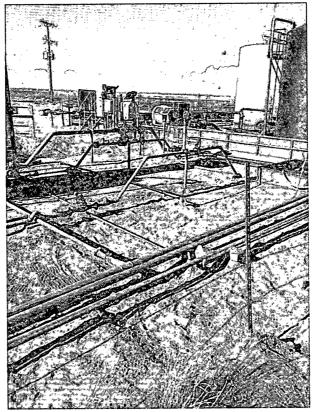
Photograph of the primary excavation southeast of the containment area at the PLU #140 Tank Battery. (Looking West)



Photograph of a portion of the excavation at the PLU #140 Tank Battery. (Looking West)



Photograph of the excavated flowpath at the PLU #140 Tank Battery. (Looking North)



Photograph of affected area south of the battery after remediation activities at the PLU #140 Tank Battery. (Looking Northwest)



Photograph of eastern portion of the PLU #140 Tank Battery after remediation activities. (Looking North)



Photograph of the affected drainage ditch after remediation activities. (Looking North)

# Appendix C

# Laboratory Analytical Reports



November 21, 2013

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: POKER LAKE 140

Enclosed are the results of analyses for samples received by the laboratory on 11/19/13 10:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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.

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,

Celez D. Kune

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

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

Received:	11/19/2013	Sampling Date:	11/18/2013
Reported:	11/21/2013	Sampling Type:	Soil
Project Name:	POKER LAKE 140	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY CO, NM		

## Sample ID: WEST FLOOR @ 1' (H302818-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/21/2013	ND	432	108	400	0.00	

## Sample ID: EAST FLOOR @ 1' (H302818-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/21/2013	ND	432	108	400	0.00	

#### **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 other cause whatscover 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 leable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reprodued except in full with written approval of Cardinal horarotines.

Celey Di Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

- ND
   Analyte NOT DETECTED at or above the reporting limit

   RPD
   Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by 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

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4

Page 4 of

# ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

Company Name:	Basin Environmental Service Technolo		:					BI	LL T <b>O</b>						ANAL	YSIS	REG	UES	r			
Project Manager:	Joel Lowry					P.O.	#:							•	1				· · ·			
Address: P.O. B	3ox 301				,	Com	pany	:	ворс	0, LP	<u>ן</u>											11
City: Lovington	State: NM	Zip: 88	8260			Attn:			Tony Savo	Die												
Phone #: (575)3	396-2378 <b>Fax #:</b> (575)39	6-1429				Addr			522 W. M		1						· ·		·	1.12		
Project #:	Project Owner			•		City:			Carlsbac		1							1				
Project Name:	PLU #140					State		٩M		88220	. 65	(M)	( <b>1</b> B)									
Project Location:	Eddy Co., NM					Phon			(432)556		Chloride	TPH (8015M)	BTEX (8021B)		· · ·			· ·				
Sampler Name:	Ben J. Arguijo				1	Fax #	¢:				ਤਿ	) H	Ж			:			1			
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PLEASE NOTE: Llability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after complotion of the applicable service. In no event shall Cardinal be liable for incidential or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

affiliates or successors origins and of or related to the nerformance of equipments by Cardinal regardless of whether such claim is haved upon any of the above

Relinquished By:	Date: // Received By:	Phone Result:	🛛 Yes	D No	Add'l Phone #	1
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111 kho	Time:	Please ema	ail results	to bjargu	ijo@basinenv.d	com,
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Delivered By: (Circle One)	Sample Condition D CHECKED BY:				_	
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FORM-006	No No		<u> </u>			
Revision 1.0	/†, Cardinal cannot accept refpal changes. Please fax	written changes	to 575_30	3-2476		
	11/19/14 10:40	Witten Ununged		J-2-10		



December 04, 2013

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: POKER LAKE 140

Enclosed are the results of analyses for samples received by the laboratory on 11/21/13 12:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred 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.

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,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

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

Received:	11/21/2013	Sampling Date:	11/20/2013
Reported:	12/04/2013	Sampling Type:	Soil
Project Name:	POKER LAKE 140	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY CO, NM		

### Sample ID: CENTER ROAD (H302855-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2013	ND	2.14	107	2.00	0.779	
Toluene*	<0.050	0.050	11/25/2013	ND	2.10	105	2.00	0.448	
Ethylbenzene*	<0.050	0.050	11/25/2013	ND	2.05	103	2.00	0.544	
Total Xylenes*	<0.150	0.150	11/25/2013	ND	6.00	99.9	6.00	0.513	
Total BTEX	<0.300	0.300	11/25/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 111 % 89.4-126

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	11/26/2013	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/03/2013	ND	192	96.2	200	3.40	
DRO >C10-C28	<10.0	10.0	12/03/2013	ND	197	98.6	200	2.56	
EXT DRO >C28-C35	<10.0	10.0	12/03/2013	ND					
Surrogate: 1-Chlorooctane	117	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	118	% 63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	11/21/2013	Sampling Date:	11/20/2013
Reported:	12/04/2013	Sampling Type:	Soil
Project Name:	POKER LAKE 140	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY CO, NM		

### Sample ID: RAVINE TRENCH FLOOR (H302855-02)

<10.0

<10.0

119%

119 %

10.0

10.0

65.2-140

63.6-154

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	11/25/2013	ND	2.14	107	2.00	0.779	
Toluene*	<0.050	0.050	11/25/2013	ND	2.10	105	2.00	0.448	
Ethylbenzene*	<0.050	0.050	11/25/2013	ND	2.05	103	2.00	0.544	
Total Xylenes*	<0.150	0.150	11/25/2013	ND	6.00	99.9	6.00	0.513	
Total BTEX	<0.300	0.300	11/25/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	114 9	89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	11/26/2013	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/03/2013	ND	192	96.2	200	3.40	

ND

ND

197

98.6

200

2.56

12/03/2013

12/03/2013

#### **Cardinal Laboratories**

DRO >C10-C28

EXT DRO >C28-C35

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Celey Di Kerne

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
   Samples reported on an as received basis (wet) unless otherwise noted on report

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celey Di Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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# ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-247	6									. *								1.1				<u>.</u>	:	
Company Name: Basin Environmental Service Technolo	gies,	LLC	;						ß	888	ll to						ANAL	YSIS	REG	UES	Ţ÷,÷			
Project Manager: Joel Lowry						· · ·	Р.С	), #:																
Address: P.O. Box 301				:			Co	mpa	iny:		BOPC	O, LP						:	1.					•••
City: Lovington State: NM	Zip:	8	826	0			Att	n:		:	Tony Savo	pie		ļ				ļ	ļ					
Phone #: (575)396-2378 Fax #: (575)39	6-142	9					Ad	dres	s:		522 W. M	arland	1 · .								. ,			
Project #: Project Owner	:	City:					Carlsbac	1					1	· ·				· · ·						
Project Name: PLU #140							Sta	te:	NM	1	Zip:	88220		(W)	18)						÷			
Project Location: Eddy Co., NM							Ph	one	#:	:	(432)556	-8730	Chloride	801	(802				:			:		.
Sampler Name: Ben J. Arguijo				• •				c #:	******			-	ਲੋ	TPH (8015M)	BTEX (8021B)			1				• • •		
FOR LAB USE ONLY				ا ۲۰۰۰۰۰۰	MATR	IX	:	PR	ESER	V.	SAMPLI	NG		<b>   </b>	8									
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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,

affliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based opph any of the above stated reasons or otherwise. Phone Result: Relinquished By: C Yes □ No Add'l Phone #: Date: Received B □ Yes 11/7/13 Fax Result: D No Add'l Fax #: REMARKS: Time Date:7 Received By: Relinguished By 11/21/3 Time: 12:55 Please email results to bjarguijo@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com Sample Condition Delivered By. (Circle One) CHECKED/B& Cool Intact Sampler - UPS - Bus - Other: FORM-006 Ves Ves Revision 1.0 † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 SU 1



December 05, 2013

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

**RE: POKER LAKE 140** 

Enclosed are the results of analyses for samples received by the laboratory on 11/27/13 8:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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.

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,

Celeg D. Kune

Celey D. Keene Lab Director/Quality Manager



### Analytical Results For:

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

Received:	11/27/2013	Sampling Date:	11/26/2013
Reported:	12/05/2013	Sampling Type:	Soil
Project Name:	POKER LAKE 140	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY CO, NM		

#### Sample ID: 50' SOUTH (H302903-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	12/04/2013	ND	416	104	400	3.92		

### Sample ID: 100' FLOOR (H302903-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					<u> </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	12/04/2013	ND	416	104	400	3.92	

#### Sample ID: 150' FLOOR (H302903-03)

Chloride, SM4500Cl-B mg/kg		Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	12/04/2013	ND	416	104	400	3.92	

#### **Cardinal Laboratories**

\*=Accredited Analyte

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Celey D.Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

 ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference

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

 \*\*\*
 Insufficient time to reach temperature.

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

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

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Celey Di Kure

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Dage 4 of 4

# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 8824

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Address: P.C	). Box 301						Cor	npany:	BOPCO	), LP									1	1.		
City: Lovingt	on State: NM	Zip	: 8	8260			Attr	<b>1:</b>	Tony Savo	e .				Î		• •			ł		:	•
Phone #: (57	5)396-2378 Fax #: (575)3	96-1	429				Add	ress:	522 W. Me	rmod				(ploH)					. <b>j</b>	i		
Project #:	Project Owne	er:					City	<i>ı</i> :	Carlsbad					Ä								
Project Name:							Sta	te: NM	Zip: 8	3220	<u>e</u>	5M)	218	BTEX								
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analyses. All claims includ	nd Damages. Cardinal's liability and client's exclusive remedy for ing those for negligence and any other cause whatsoever shall be	e deeme	ed waiv	ved unless made	e in writ	ting and	receiv	ed by Cardin	al within 30 days after co	mpletion of the ap	plicable											
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Revision 1.0



December 17, 2013

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: POKER LAKE UNIT #140

Enclosed are the results of analyses for samples received by the laboratory on 12/10/13 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

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

Received:	12/10/2013	Sampling Date:	12/09/2013
Reported:	12/17/2013	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT #140	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY CO, NM		

### Sample ID: NORTH WALL (H302973-01)

Chloride, SM4500Cl-B mg/kg		Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/16/2013	ND	432	108	400	3.77	

## Sample ID: SOUTH WALL (H302973-02)

Chloride, SM4500Cl-B	Analyze	d By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	12/16/2013	ND	432	108	400	3.77	

### Sample ID: EAST WALL (H302973-03)

Chloride, SM4500Cl-B mg/kg		Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2013	ND	432	108	400	3.77	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

.



## Analytical Results For:

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

Received:	12/10/2013	Sampling Date:	12/09/2013
Reported:	12/17/2013	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT #140	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY CO, NM		

## Sample ID: FLOOR (H302973-04)

BTEX 8021B	mg/	/kg	Analyze	d By: MS/			<u> </u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2013	ND	1.95	97.3	2.00	2.59	
Toluene*	<0.050	0.050	12/11/2013	ND	1.93	96.3	2.00	2.40	
Ethylbenzene*	<0.050	0.050	12/11/2013	ND	1.88	93.9	2.00	2.90	
Total Xylenes*	<0.150	0.150	12/11/2013	ND	5.47	91.1	6.00	3.41	
Total BTEX	<0.300	0.300	12/11/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 96.2 % 89.4-126

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	12/16/2013	ND	432	108	400	3.77	
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	12/11/2013	ND	184	92.1	200	0.824	
DRO >C10-C28	<10.0	10.0	12/11/2013	ND	183	91.5	200	4.56	
EXT DRO >C28-C35	<10.0	10.0	12/11/2013	ND					
Surrogate: 1-Chlorooctane	100	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	100	% 63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

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Celey Di Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

- ND
   Analyte NOT DETECTED at or above the reporting limit

   RPD
   Relative Percent Difference

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

   \*\*\*
   Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476 BILL TO Basin Environmental Service Technologies, LLC ANALYSIS REQUEST Company Name: P.O. #: Project Manager: Joel Lowry P.O. Box 301 Address: Company: BOPCO, LP Zip: 88260 Lovington State: NM Citv: Attn: Tony Savoie (575)396-2378 Fax #: (575)396-1429 Phone #: Address: 522 W. Marland **Project Owner:** Project #: City: Carlsbad BTEX (8021B) TPH (8015M) PLU #140 Project Name: State: NM Zip: 88220 Chloride Project Location: Eddy Co., NM Phone #: (432)556-8730 Sampler Name: Joel Lowry Fax #: MATRIX PRESERV SAMPLING FOR LAB USE ONLY G)RAB OR (C)OMF SROUNDWATER CONTAINERS VASTEWATER Sample I.D. Lab I.D. OTHER : ACID/BASE: ICE / COOL SLUDGE DTHER <u>j</u> H302973 H DATE TIME North Wall х G х X 12/9/13 100 1 2 South Wall X х G Х 12/9/13 105 3 East Wall X 12/9/13 X G х 110 1 U Floor X х х х х G 12/9/13 115 1

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days effer 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 profilis incurred by client, its subsidiaries,

affiliates or successors arising out of or related to the performance of	f services hereunder by Cardina	, regardless of whether such claim is based upon an	ly of the above stated reasons or ot	herwise.	
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 none Result:
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 No
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 No
 Add'l Fax #:

 EMARKS:

 Please email results to bjarguijo@basinenv.com,

 TASavoie@BassPet.com & SJWalters@BassPet.com

Page 5 of 5



December 18, 2013

JOEL LOWRY Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE UNIT #140

Enclosed are the results of analyses for samples received by the laboratory on 12/12/13 9:59.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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.

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,

Celez D. Kuna

Celey D, Keene Lab Director/Quality Manager



## Analytical Results For:

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

Received:	12/12/2013	Sampling Date:	12/11/2013
Reported:	12/18/2013	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT #140	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY CO, NM		

### Sample ID: FLOOR #2 (H303003-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2013	ND	1.94	96.9	2.00	1.16	
Toluene*	<0.050	0.050	12/13/2013	ND	1.95	97.5	2.00	0.216	
Ethylbenzene*	<0.050	0.050	12/13/2013	ND	1.95	97.6	2.00	1.18	
Total Xylenes*	<0.150	0.150	12/13/2013	ND	5.83	97.2	6.00	2.07	
Total BTEX	<0.300	0.300	12/13/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.5	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	12/18/2013	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	12/17/2013	ND	157	78.5	200	4.34	
DRO >C10-C28	771	50.0	12/17/2013	ND	194	96.8	200	2,72	
EXT DRO >C28-C35	435	50.0	12/17/2013	ND					
Surrogate: 1-Chlorooctane	129	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	202	% 63.6-15	4						

### **Cardinal Laboratories**

\*=Accredited Analyte

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Celey Di Kune

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	12/12/2013	Sampling Date:	12/11/2013
Reported:	12/18/2013	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT #140	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY CO, NM		

#### Sample ID: FLOOR #3 (H303003-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2013	ND	1.94	96.9	2.00	1.16	
Toluene*	<0.050	0.050	12/13/2013	ND	1.95	97.5	2.00	0.216	
Ethylbenzene*	<0.050	0.050	12/13/2013	ND	1.95	97.6	2.00	1.18	
Total Xylenes*	<0.150	0.150	12/13/2013	ND	5.83	97.2	6.00	2.07	
Total BTEX	<0.300	0.300	12/13/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.4	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP			<u>,</u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	12/18/2013	ND	416	104	400	3.92	
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	12/17/2013	ND	157	78.5	200	4.34	
DRO >C10-C28	81.4	10.0	12/17/2013	ND	194	96.8	200	2.72	
EXT DRO >C28-C35	37.7	10.0	12/17/2013	ND					
Surrogate: 1-Chlorooctane	102	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	108	% 63.6-15	4						

#### Cardinal Laboratories

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's hability and clent's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by dient for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waved 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 interruptors, loss of use, or loss of profits incurred by claims, issubsidianes, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal barrations.

Celey Di Kune

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 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

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 5

ARDINAL LABORATORIES

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5

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

Company Name:	Basin Environmental Service Techno	logie	s, L	LC				BILL TO					ANALYSIS REQUEST												
Project Manager:	Joel Lowry							Ρ.	.0.‡	¥:															
Address: P.O. I	Box 301							С	om	ban	y:		BOPC	O. LP							[	1			ł
City: Lovington	State: NM	Zip	: 8	826	0			A	ttn:			т	Fony Savo	ie											ļ
Phone #: (575)	396-2378 Fax #: (575)39	96-14	129					A	ddre	ess	:	5	522 W. Ma	arland											l
Project #:	Project Owner	:						С	ity:				Carlsbad	I							[				ĺ
Project Name:	PLU #140							S	tate	: 1	١M	Zip	p: 8	38220	e l	5M)	(8021B)				ļ	]			
Project Location:	Eddy Co., NM							P	hon	e #:	:	(	(432)556-	8730	Chloride	TPH (8015M)	80								
Sampler Name:	Joel Lowry							Fa	ax #	:					સિ	H H	втех						[		l
FOR LAB USE ONLY		Γ.	Γ		٨	IATR	IX		PF	RES	ERV	-	SAMPLIN	NG			BT				1				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER :		DATE	TIME											
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PLEASE NOTE: Density and paragoes, cardinals earning and parallel earning early again ansing window based on borated on the share entropy to the series of the analyses. At laters including those for negligence and any other care whatever share be deemed waived unless made in withing parally by Cardinal within 30 days after completion of the applicable service. In no event shall be fable for incidental or consequential damages, including without limitation, business interruptors, loss of use, or loss of profits incurred by client, as subsidiaries,

affiliates or successors arising out of or related to the performance	the of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated rea	asons or otherwise.
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Revision 1.0		
	† Cardinal cannot accept verbal changes. Please fax	t written changes to 575-393-2476
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