

Basin Environmental Service Technologies, LLC

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Lovington, New Mexico 88260
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REMEDIATION SUMMARY AND RISK-BASED SITE CLOSURE REQUEST

**BOPCO, LP
POKER LAKE UNIT #123 ILLEGAL DUMP
Eddy County, New Mexico
Unit Letter "K" (NE/SW), Section 22, Township 24 South, Range 31 East
Latitude 32.200863° North, Longitude 103.767542° West
NMOCD Reference #2RP-2134**

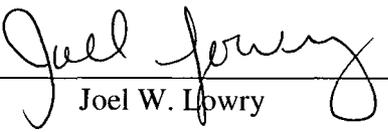
Prepared For:

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

Prepared By:

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

May 2014


Joel W. Lowry
Project Manager

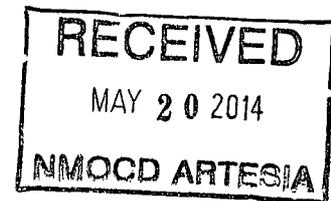


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1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary and Risk-Based Site Closure Request* for the release site known as Poker Lake Unit #123 Illegal Dump (PLU #123). The legal description of the release site is Unit Letter "K" (NE/SW), Section 22, Township 24 South, Range 31 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.2008630° North latitude and 103.767542° West longitude. The property affected by the release is owned by the United States Department of the Interior - Bureau of Land Management (BLM). A "Site Location Map" is provided as Figure 1.

On December 22, 2013, during a routine inspection, BOPCO discovered a produced water transport truck illegally dumped approximately one hundred (100 bbls) of produced water at the PLU #123 well location. The New Mexico Oil Conservation Division (NMOCD)-Artesia District Office and BLM were notified immediately upon discovery. The "Release Notification and Corrective Action" (Form C-141) indicated approximately 6,858 ft² of an area just east of the well that had recently been remediated and reclaimed from a release that occurred on May 28, 2012. The Form C-141 is provided as Appendix A. General photographs of the release site are provided as Appendix B.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information was unavailable for Section 22, Township 24 South, Range 31 East. A depth to groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately two hundred and seventy-five feet (275') 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 #123 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, Toluene, Ethylbenzene, and Xylenes (BTEX) – 50 mg/Kg (ppm)
- Total Petroleum Hydrocarbons (TPH) – 5,000 mg/Kg (ppm)

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

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On April 27, 2014, Basin began delineation activities at the release site. A test trench (TT-1) was advanced in the center of the inferred primary pooling area. During the advancement of the test trench, three (3) soil samples (TT-1 @ 6', TT-1 @ 10' and TT-1 @ 14') were collected and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated the chloride concentrations of soil samples TT-1 @ 6', TT-1 @ 10' and TT-1 @ 14' were 2,040 ppm, 3,680 ppm and 3,000 ppm, respectively. Soil sample TT-1 @ 6' was also analyzed for concentrations of TPH which were determined to be less than the laboratory method detection limit (MDL). Further advancement of the delineation trench was limited by instability of the sand. A summary of "Concentrations of Benzene, BTEX, TPH & Chloride in Soil" is provided in Table 1. A "Site and Sample Location Map" is provided as Figure 2. Laboratory analytical reports are provided as Appendix C.

On April 28, 2014, Basin began excavating impacted soil at the release site. The floor of the excavation was advanced to approximately five feet (5') bgs. Excavation sidewalls were advanced until field tests suggested concentrations of BTEX, TPH and chloride were below NMOCD regulatory standards. Excavated soil was stockpiled on-site, pending final disposition.

On April 29, 2014, seven (7) confirmation soil samples (NSW #1, NSW #2, NSW #3, SSW #1, SSW #2, Floor #1 and Floor #3) were collected from the excavated area and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 48.0 ppm for soil sample Floor #1 to 464 ppm for soil sample SSW #2. Soil sample Floor #3 was also analyzed for concentrations of BTEX and TPH, which were determined to be less than the appropriate laboratory MDL. The excavation was advanced toward the west.

On April 30, 2014, seven (7) confirmation soil samples (SSW #3, SSW #4, WSW #1, WSW #2, NSW #4, Floor #4 and Floor #5) were collected from the excavated area and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 32.0 ppm for soil sample WSW #1 to 3,720 ppm for soil sample Floor #4. Soil sample Floor #5 was also analyzed for concentrations of BTEX and TPH, which were determined to be less than the appropriate laboratory MDL.

On May 1, 2014, one (1) confirmation soil samples (ESW) was collected from the east sidewall of the excavation and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated the chloride concentration was 144 ppm.

On May 2, 2014, upon receiving NMOCD approval, a one-foot (1') layer of caliche was installed and compacted in the floor of the excavation in the areas represented by soil sample Floor #4 and TT-1. This engineering control was designed to inhibit the vertical migration of contaminants left in-situ. Upon installing the approved layer of caliche, the remaining portion of the excavation was backfilled with locally purchase, non-impacted material.

Between April 29 and May 2, 2014, approximately six hundred and eighty cubic yards (680 yd³) of impacted material was transported to Lea Land, Inc. (NMOCD Permit #WM-01-035), for disposal. The final dimensions of the excavation were approximately twelve (12) to fifty feet (50') in width, one hundred feet (100') in length and four (4) to five feet (5') in depth.

Following backfilling, areas affected by the remediation activities were compacted and contoured to match the surrounding topography. The site will be reseeded with a BLM-approved seed mixture at a time more conducive to germination.

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

Confirmation soil samples collected from the floor and sidewalls of the PLU #123 excavation were analyzed by an NMOCD-approved laboratory, which determined concentrations of BTEX, TPH and chloride were less than NMOCD regulatory standards in each of the submitted soil samples, with the exception of the soil samples collected from test trench TT-1 and Floor #4. As per the NMOCD, a one-foot (1') layer of compacted caliche was installed in the floor of the excavation atop areas exhibiting elevated chloride concentrations. Based on these laboratory analytical results and the installation of an approved engineering control, Basin recommends BOPCO provide the NMOCD-Artesia District Office and the BLM a copy of this *Remediation Summary and Risk-Based Site Closure Request* and request the NMOCD grant site closure to the PLU #123 Illegal Dump release site.

6.0 LIMITATIONS

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

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

7.0 DISTRIBUTION:

Copy 1: Mike Bratcher
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 2)
1301 E. Grand Avenue
Artesia, NM 88210

Copy 2: James Amos
Bureau of Land Management
602 E. Greene Street
Carlsbad, 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

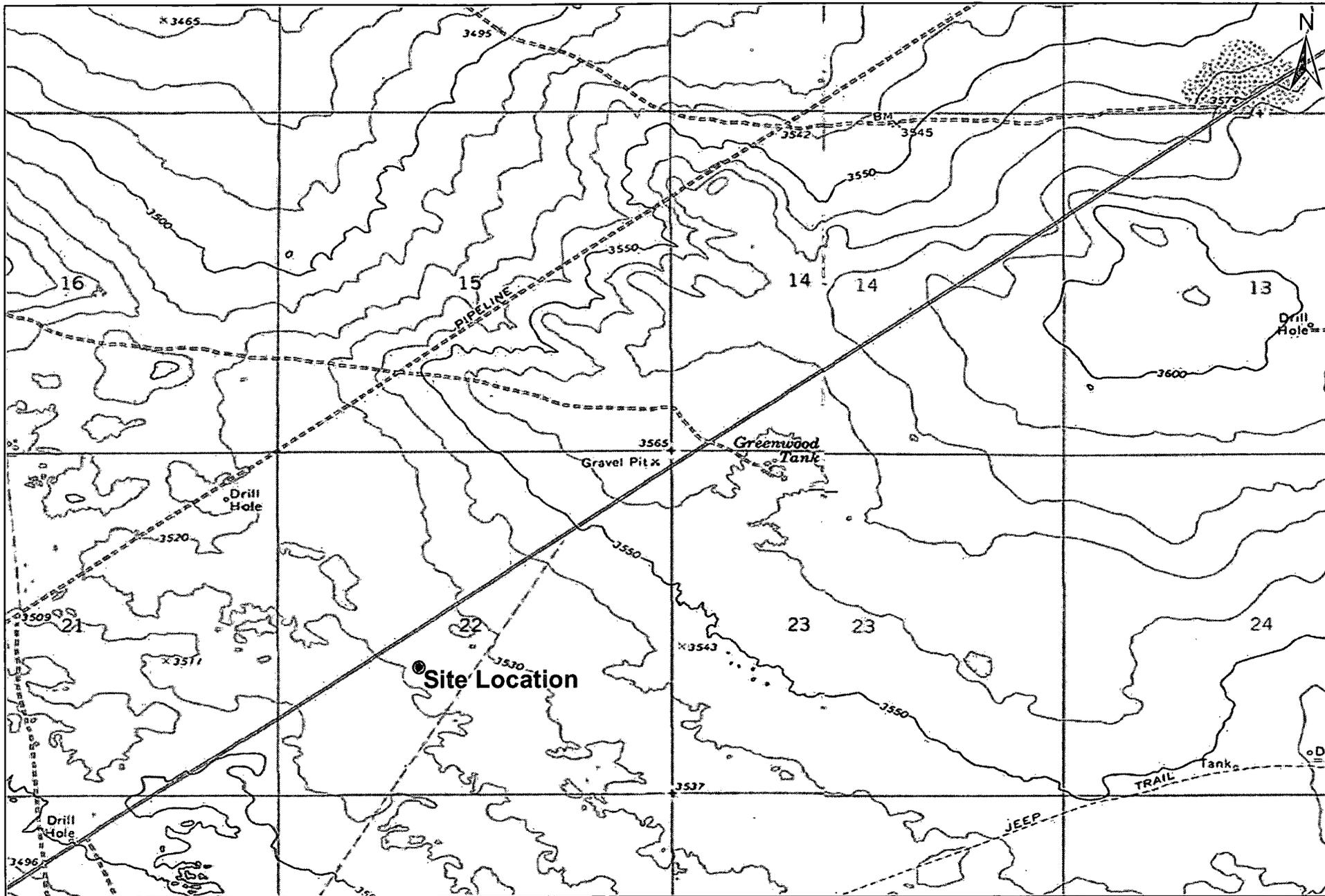
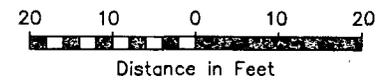
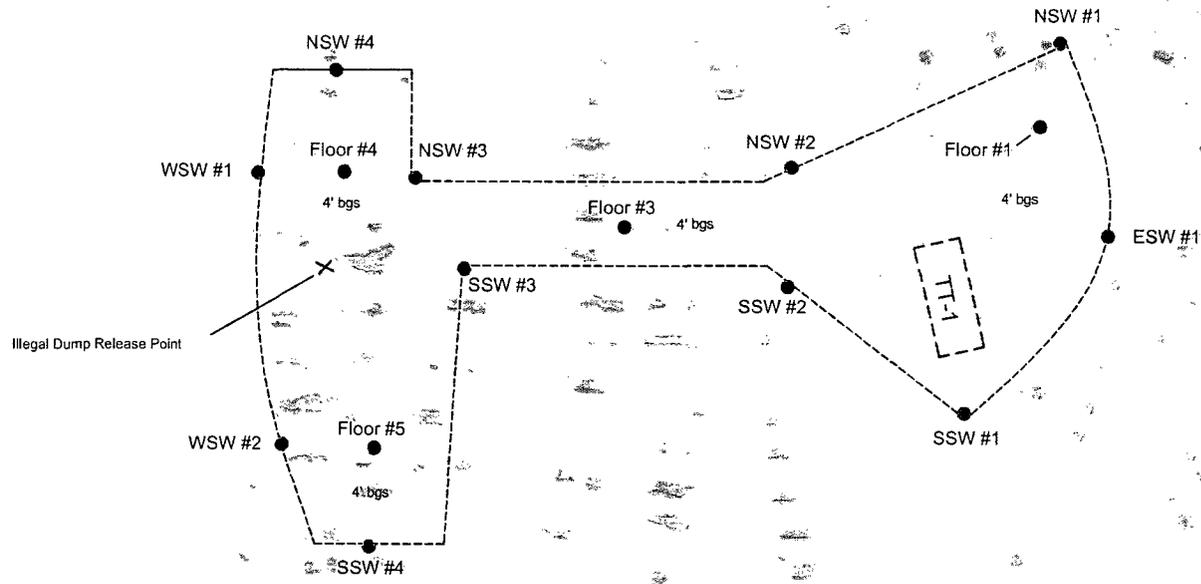


Figure 1
Site Location Map
BOPCO, LP
Poker Lake Unit #123
Eddy County, New Mexico
NMOCD Reference #: 2RP-1203



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

Drawn By: BJA	Checked By: BRB
December 23, 2013	Scale: 1" = 2,000'



Legend:

- Excavation Extent
- Field Sample Location
- x Illegal Release Point

Figure 2
Site and Sample Location Map
BOPCO, L.P.
PLU #123 Illegal Dump
Eddy County, New Mexico

Basin Environmental Services

Prep By: JWL	Checked By: BJA
May 7, 2014	Scale 1"=20'

TABLES

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

**BOPCO, LP
PLU #123 ILLEGAL DUMP
EDDY COUNTY, NEW MEXICO
NMOCD REFERENCE #: 2RP-2128**

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M			TOTAL TPH C ₆ -C ₃₅ (mg/Kg)	4500 Cl-B CHLORIDE (mg/Kg)
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)		
TT-1 @ 6'	6'	4/28/2014	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	2,040
TT-1 @ 10'	10'	4/28/2014	In-Situ	-	-	-	-	-	-	-	-	-	3,680
TT-1 @ 14'	14'	4/28/2014	In-Situ	-	-	-	-	-	-	-	-	-	3,000
NSW #1	2'	4/29/2014	In-Situ	-	-	-	-	-	-	-	-	-	96.0
NSW #2	2'	4/29/2014	In-Situ	-	-	-	-	-	-	-	-	-	80.0
NSW #3	2'	4/29/2014	In-Situ	-	-	-	-	-	-	-	-	-	112
SSW #1	2'	4/29/2014	In-Situ	-	-	-	-	-	-	-	-	-	256
SSW #2	2'	4/29/2014	In-Situ	-	-	-	-	-	-	-	-	-	464
Floor #1	4'	4/29/2014	In-Situ	-	-	-	-	-	-	-	-	-	48.0
Floor #3	4'	4/29/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
SSW #3	2'	4/30/2014	In-Situ	-	-	-	-	-	-	-	-	-	80.0
SSW #4	2'	4/30/2014	In-Situ	-	-	-	-	-	-	-	-	-	288
WSW #1	2'	4/30/2014	In-Situ	-	-	-	-	-	-	-	-	-	32.0
WSW #2	2'	4/30/2014	In-Situ	-	-	-	-	-	-	-	-	-	80.0
NSW #4	2'	4/30/2014	In-Situ	-	-	-	-	-	-	-	-	-	64.0
Floor #4	4'	4/30/2014	In-Situ	-	-	-	-	-	-	-	-	-	3,720
Floor #5	4'	4/30/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	304
ESW	2'	5/1/2014	In-Situ	-	-	-	-	-	-	-	-	-	144
NMOCD Criteria				10				50				5,000	1,000

- = Not analyzed.

APPENDICES

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

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

nJMW 400 335161

OPERATOR Initial Report Final Report

Name of Company: BOPCO, L.P. <i>260737</i>	Contact: Tony Savoie
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: PLU-123	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-28526
------------------------	------------------------	----------------------

LOCATION OF RELEASE

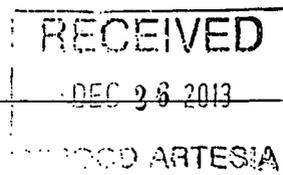
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	22	24S	31E	1980	South	1980	West	Eddy

Latitude N 32.200863 Longitude W 103.767542

NATURE OF RELEASE

Type of Release: Produced water	Volume of Release: 100 bbls	Volume Recovered: None
Source of Release: Unknown transport truck "Illegal Dump"	Date and Hour of Occurrence: 12/22/13 Time unknown	Date and Hour of Discovery: 12/22/13 at 3:09 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD emergency #104 and BLM	
By Whom? Tony Savoie	Date and Hour: 12/22/13 at 3:42 p.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*



Describe Cause of Problem and Remedial Action Taken.*

An unknown transport truck illegally dumped approximately 100 bbls of produced water at the well location.

Describe Area Affected and Cleanup Action Taken.*

The release affected approximately 6858 sq.ft. of an area just east of the well that had been recently remediated from a release that occurred on 5/28/12, and an area that had been reclaimed during the remediation effort. The remediation and pad interim reclamation were completed in October 2013, the final closure report and C-141 will be filed for the spill event of 5/28/12. A new remediation plan will be submitted for the illegal dump. The remediation will be done in accordance to the NMOCD and BLM guidelines.

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

Signature: <i>Tony Savoie</i>	OIL CONSERVATION DIVISION	
Printed Name: Tony Savoie	Approved by Environmental Specialist: <i>Michelle Brannon</i>	Signed By: <i>Michelle Brannon</i>
Title: Waste Management and Remediation Specialist	Approval Date: JAN 03 2014	Expiration Date:
E-mail Address: tasavoie@basspet.com	Conditions of Approval: Remediation per OCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION	Attached <input type="checkbox"/>
Date: 12/26/13 Phone: 432-556-8730		

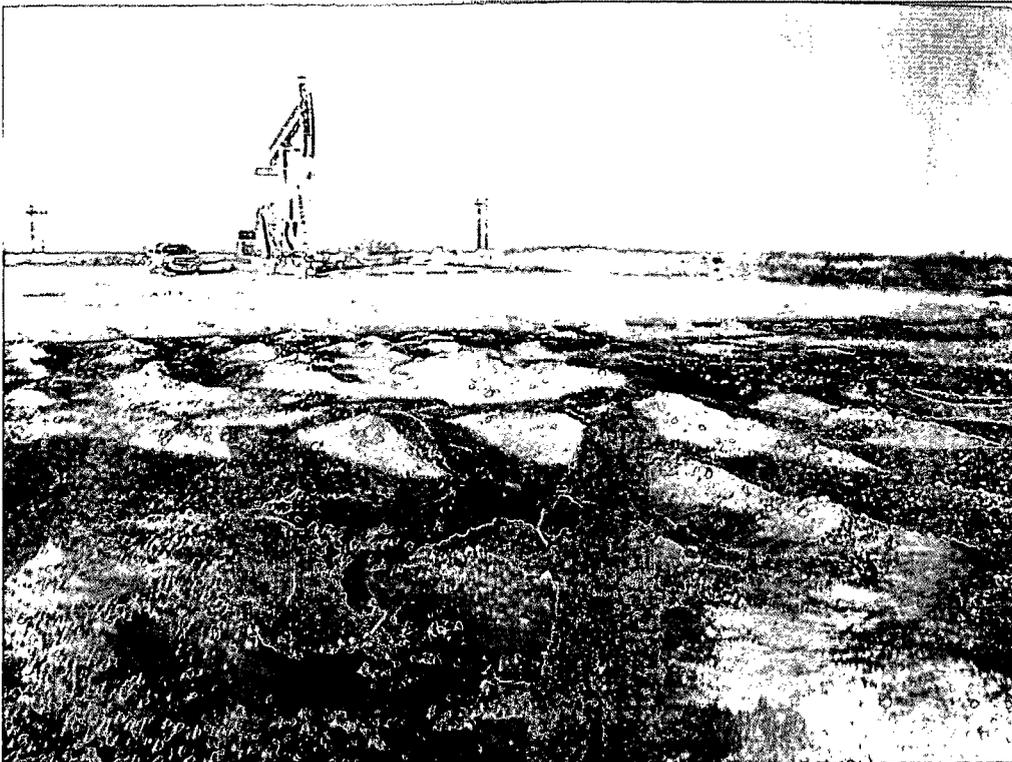
* Attach Additional Sheets If Necessary

PROPOSAL NO LATER THAN:
Feb 3, 2014 **ZRP-2134**

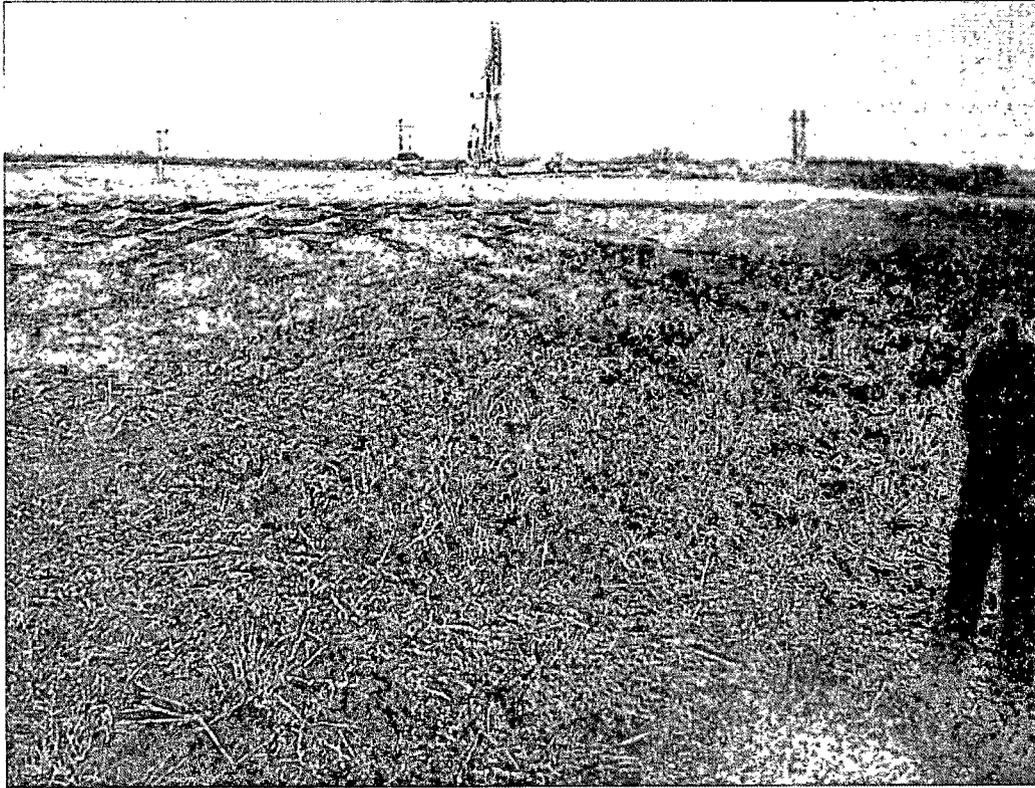
Appendix B
Photographs



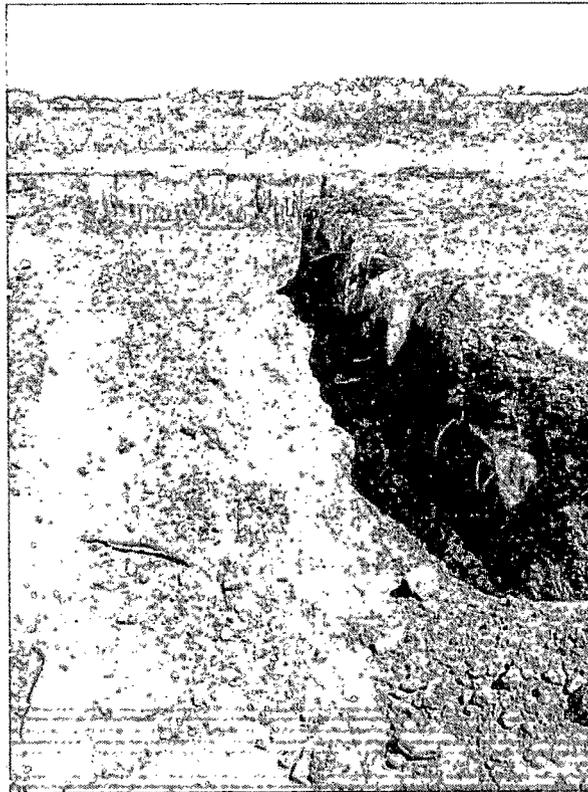
Photograph of the initial release at the PLU #123 Illegal Dump Release Site.



Photograph of the initial release at the PLU #123 Illegal Dump Release Site.



Photograph of the initial release at the PLU #123 Illegal Dump Release Site.



Photograph of excavation activities at the PLU #123 Illegal Dump Release Site.



Photograph of excavation activities at the PLU #123 Illegal Dump Release Site.



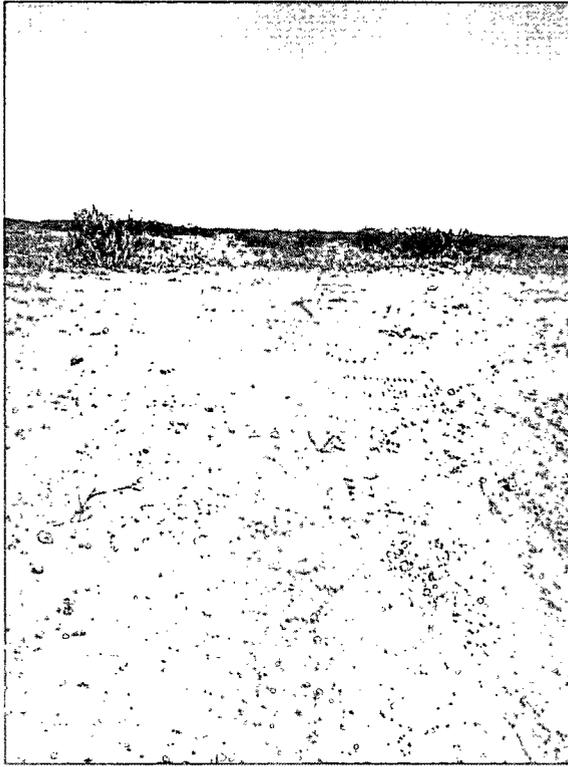
Photograph of excavation activities at the PLU #123 Illegal Dump Release Site.



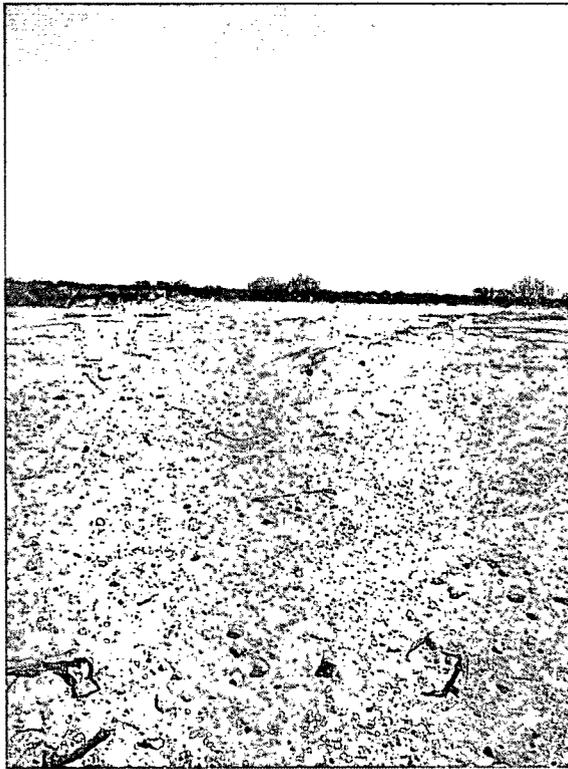
Photograph of the installation of caliche at the PLU #123 Illegal Dump Remediation Site.



Photograph of the installation of caliche at the PLU #123 Illegal Dump Remediation Site.



Photograph of the PLU #123 Illegal Dump Release Site after Remediation Activities.



Photograph of the PLU #123 Illegal Dump Release Site after Remediation Activities.

Appendix C
Laboratory Analytical Reports



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 05, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #123 ILLEGAL DUMP

Enclosed are the results of analyses for samples received by the laboratory on 04/29/14 12:00.

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, prominent initial "C".

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:	04/29/2014	Sampling Date:	04/28/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	PLU #123 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: TT - 1 @ 6' (H401278-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2040	16.0	04/30/2014	ND	400	100	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/01/2014	ND	184	92.1	200	3.15		
DRO >C10-C28	<10.0	10.0	05/01/2014	ND	203	101	200	3.24		
EXT DRO >C28-C35	<10.0	10.0	05/01/2014	ND						

Surrogate: 1-Chlorooctane 108 % 65.2-140
 Surrogate: 1-Chlorooctadecane 106 % 63.6-154

Sample ID: TT - 1 @ 10' (H401278-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3680	16.0	05/01/2014	ND	400	100	400	0.00		

Sample ID: TT - 1 @ 14' (H401278-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3000	16.0	05/01/2014	ND	400	100	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 whatsoever 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, 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 samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

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 whatsoever 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, 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 samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

May 08, 2014

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #123 ILLEGAL DUMP

Enclosed are the results of analyses for samples received by the laboratory on 04/30/14 12:05.

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/08/2014	Sampling Type:	Soil
Project Name:	PLU #123 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: NSW #1 (H401301-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/06/2014	ND	400	100	400	3.92		

Sample ID: NSW #2 (H401301-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/06/2014	ND	400	100	400	3.92		

Sample ID: NSW #3 (H401301-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/06/2014	ND	400	100	400	3.92		

Sample ID: SSW #1 (H401301-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	05/06/2014	ND	400	100	400	3.92		

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/08/2014	Sampling Type:	Soil
Project Name:	PLU #123 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SSW #2 (H401301-05)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	05/06/2014	ND	400	100	400	3.92	

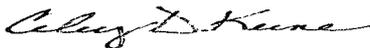
Sample ID: FLOOR #1 (H401301-06)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/06/2014	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 04/30/2014
 Reported: 05/08/2014
 Project Name: PLU #123 ILLEGAL DUMP
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/29/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FLOOR #3 (H401301-07)

BTEX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/05/2014	ND	2.17	109	2.00	0.904		
Toluene*	<0.050	0.050	05/05/2014	ND	2.33	117	2.00	2.93		
Ethylbenzene*	<0.050	0.050	05/05/2014	ND	2.25	112	2.00	2.74		
Total Xylenes*	<0.150	0.150	05/05/2014	ND	6.94	116	6.00	3.25		
Total BTEX	<0.300	0.300	05/05/2014	ND						

Surrogate: Dibromofluoromethane 96.0 % 61.3-142

Surrogate: Toluene-d8 107 % 71.3-129

Surrogate: 4-Bromofluorobenzene 99.0 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/06/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/06/2014	ND	186	92.9	200	5.79		
DRO >C10-C28	<10.0	10.0	05/06/2014	ND	218	109	200	6.85		
EXT DRO >C28-C35	<10.0	10.0	05/06/2014	ND						

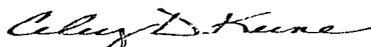
Surrogate: 1-Chlorooctane 107 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Basin Environmental Service Technologies, LLC				BILL TO				ANALYSIS REQUEST											
Project Manager: Ben Arguijo				P.O. #:				Chloride TPH (8015M) BTEX (8021B)											
Address: P.O. Box 301				Company: BOPCO, LP															
City: Lovington		State: NM		Zip: 88260		Attn: Tony Savoie													
Phone #: (575)396-2378		Fax #: (575)396-1429		Address: 522 W. Marland															
Project #:		Project Owner: BOPCO, LP		City: Carlsbad															
Project Name: PLU #123 Illegal Dump				State: NM														Zip: 88220	
Project Location: Eddy Co., NM				Phone #: (432)556-8730															
Sampler Name: Matt Taylor				Fax #:															
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.			SAMPLING						
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME				
	4401301																		
	1	NSW #1	G	1			X				X			4/29/14	1230				
	2	NSW #2	G	1			X				X			4/29/14	1245				
	3	NSW #3	G	1			X				X			4/29/14	1300				
	4	SSW #1	G	1			X				X			4/29/14	1315				
	5	SSW #2	G	1			X				X			4/29/14	1330				
	6	Floor #1	G	1			X				X			4/29/14	1345				
	7	Floor #3	G	1			X				X		X	4/29/14	1400				

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Relinquished By: <i>Matt Taylor</i>	Date: 4/29/14 Time: 1700	Received By: <i>Jul Jany</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>Jul Jany</i>	Date: 4/30/14 Time: 1115	Received By: <i>Damea Arguijo</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>UPS</i>	Date: 4/30/14 Time: 12:05	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	REMARKS: HOLD FOR TPH Please email results to pm@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com	
CHECKED BY: <i>[Signature]</i>				

FORM-006
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

-7.8 #54

May 09, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #123 ILLEGAL DUMP

Enclosed are the results of analyses for samples received by the laboratory on 05/01/14 9:05.

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

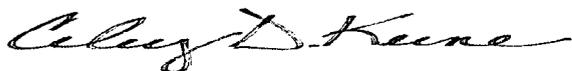
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	05/01/2014	Sampling Date:	04/30/2014
Reported:	05/09/2014	Sampling Type:	Soil
Project Name:	PLU #123 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SSW #3 (H401322-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/08/2014	ND	416	104	400	0.00		

Sample ID: SSW #4 (H401322-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	05/08/2014	ND	416	104	400	0.00		

Sample ID: WSW #1 (H401322-03)

Chloride, SM4500CI-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	05/08/2014	ND	416	104	400	0.00		

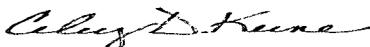
Sample ID: WSW #2 (H401322-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/08/2014	ND	416	104	400	0.00		

Cardinal Laboratories

*=Accredited Analyte

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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:	05/01/2014	Sampling Date:	04/30/2014
Reported:	05/09/2014	Sampling Type:	Soil
Project Name:	PLU #123 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: NSW #4 (H401322-05)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/08/2014	ND	416	104	400	0.00	

Sample ID: FLOOR #4 (H401322-06)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3720	16.0	05/08/2014	ND	416	104	400	0.00	

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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: 05/01/2014
 Reported: 05/09/2014
 Project Name: PLU #123 ILLEGAL DUMP
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/30/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FLOOR #5 (H401322-07)

BTEX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/09/2014	ND	2.37	119	2.00	0.0531		
Toluene*	<0.050	0.050	05/09/2014	ND	2.38	119	2.00	0.125		
Ethylbenzene*	<0.050	0.050	05/09/2014	ND	2.24	112	2.00	0.819		
Total Xylenes*	<0.150	0.150	05/09/2014	ND	6.91	115	6.00	0.228		
Total BTEX	<0.300	0.300	05/09/2014	ND						

Surrogate: Dibromofluoromethane 97.4 % 61.3-142

Surrogate: Toluene-d8 107 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	05/08/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/08/2014	ND	192	95.9	200	1.84		
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	220	110	200	12.1		
EXT DRO >C28-C35	<10.0	10.0	05/08/2014	ND						

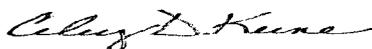
Surrogate: 1-Chlorooctane 96.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

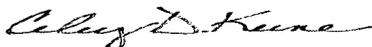
Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

May 08, 2014

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #123 ILLEGAL DUMP

Enclosed are the results of analyses for samples received by the laboratory on 05/02/14 9:10.

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	05/02/2014	Sampling Date:	05/01/2014
Reported:	05/08/2014	Sampling Type:	Soil
Project Name:	PLU #123 ILLEGAL DUMP	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	EDDY COUNTY, NM		

Sample ID: ESW (H401338-01)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/08/2014	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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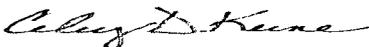
Notes and Definitions

- 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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