

Basin Environmental Service Technologies, LLC

3100 Plains Highway
P. O. Box 301
Lovington, New Mexico 88260

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REMEDIATION SUMMARY AND SITE CLOSURE REQUEST

BOPCO, LP
POKER LAKE UNIT #441H 8" Frac Hose
Eddy County, New Mexico
Unit Letter "P" (SE/SE), Section 18, Township 24 South, Range 30 East
Latitude 32.21082° North, Longitude 103.91292° West
NMOCD Reference #2RP- 2181

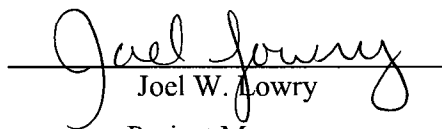
Prepared For:

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

March 2014


Joel W. Lowry
Project Manager

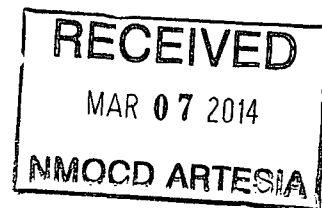


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1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary & Site Closure Request* for the release site known as Poker Lake Unit (PLU) #441H 8" Frac Hose. The legal description of the release site is Unit Letter "P" (SE/SE), Section 18, Township 24 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.21082° North latitude and 103.91292° 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 January 23, 2014, BOPCO discovered a release had occurred on an eight-inch (8") hose connected to a portable pump that was being used while fracking the PLU #441H well. The "Release Notification and Corrective Action" (Form C-141) indicated approximately forty-five barrels (45 bbls) of produced water was released; all of the water outside the pump containment soaked into the ground. During initial response activities, approximately two barrels (2 bbls) of produced water were recovered from the containment area and the affected section of hose was replaced. The initial Form C-141 indicated the release affected approximately one thousand, eight hundred and eighty-five square feet (1,885 ft²) of pasture land. 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 18, Township 24 South, Range 30 East. An inferred depth to groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately two hundred and twenty feet (220') 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 #441H 8" Frac Hose release site has an initial ranking score of zero (0) points. The soil remediation levels for a site with a ranking score of zero (0) points are as follows:

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

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

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On February 17, 2014, Basin began excavating impacted soil at the release site. The floor and sidewalls of the excavation were advanced until field tests suggested concentrations of benzene, toluene, ethylbenzene and xylene (BTEX), total petroleum hydrocarbons (TPH) and chloride were below NMOCD Regulatory Standards. Excavated material was stockpile on-site, pending final disposition. A “Site and Sample Location Map” is provided as Figure 2. Laboratory analytical reports are provided as Appendix C.

On February 18, 2014, six (6) confirmation soil samples (NSW #1, ESW #1, SSW #1, WSW #1, Floor #1 @ 2' and Floor #2 @ 10') 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 496 ppm for soil sample Floor #2 @ 10' to 16.0 ppm for soil samples NSW #1 and Floor #1 @ 2'. Soil samples Floor #1 @ 2' and Floor #2 @ 10' were also analyzed for concentrations of TPH, which were determined to be less than the laboratory method detection limit (MDL). Soil sample Floor #2 @ 10' was also analyzed for concentrations of BTEX, which were determined to be less than the laboratory MDL. Chloride, TPH and BTEX concentrations were below NMOCD Regulatory Standards in each of the submitted soil samples. A summary of “Concentrations of Benzene, BTEX, TPH and Chloride in Soil” is provided in Table 1.

On February 20, 2014, upon receiving laboratory analytical results from confirmation soil samples, the excavation was backfilled with locally purchased, non-impacted material. Between February 19 and 20, 2014, approximately two hundred and eighty cubic yards (280 yd³) of impacted material was transported to Lea Land, LLC (NMOCD Permit #WM-01-035) for disposal. Prior to backfilling, the final dimensions of the excavation were approximately fifty-two feet (52') in length, forty feet (40') in width and two (2) to ten feet (10') in depth.

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 #441H 8" Frac Hose release excavation were analyzed by an NMOCD-approved laboratory. Analytical results indicated concentrations of BTEX, TPH and chloride were below NMOCD Regulatory Standards in each of the submitted soil samples. Based on these laboratory analytical results, Basin recommends BOPCO provide the NMOCD Artesia District Office and BML a copy of this *Remediation Summary and Site Closure Request* and request the NMOCD grant site closure to the PLU #441H 8" Frac Hose release site.

6.0 LIMITATIONS

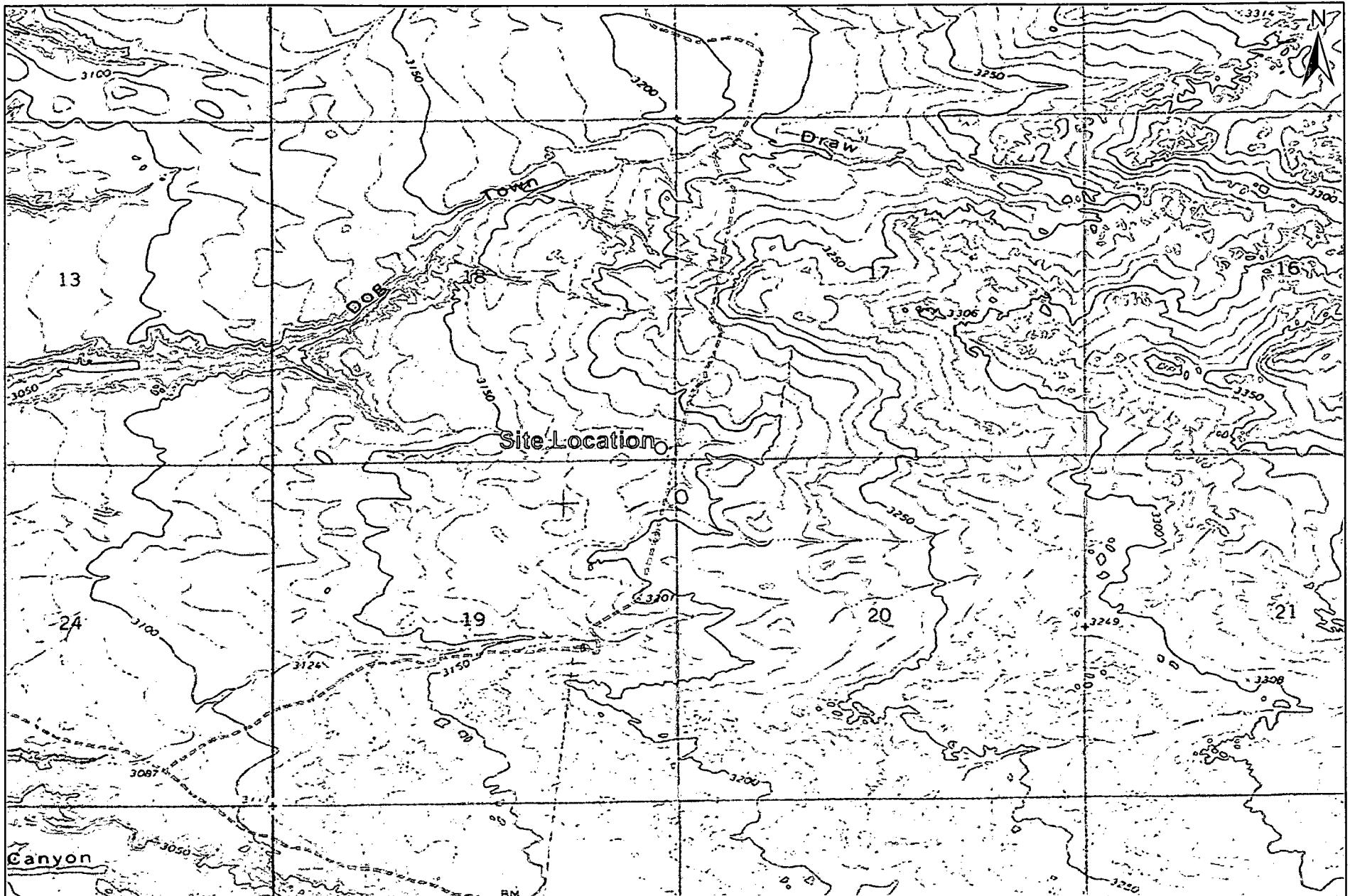
Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary and Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin has examined and relied upon documents referenced in the report and on oral statements made by 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: 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



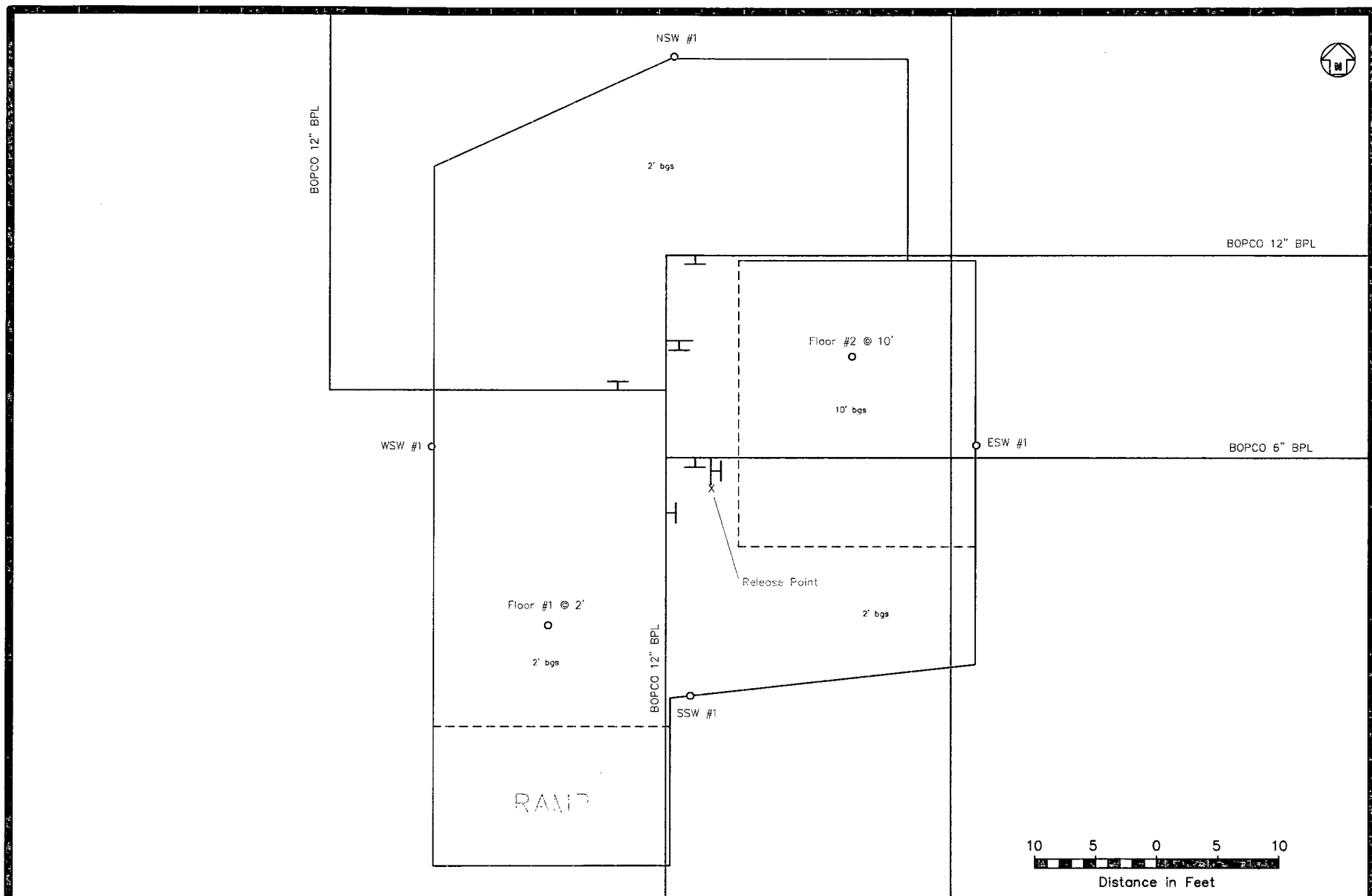
1,000 500 0 1,000 2,000
 Distance in Feet

Figure 1
Site Location Map
BOPCO, LP
Poker Lake Unit #441H 8" Frac Hose
Eddy County, New Mexico



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

Drawn By: BJA	Checked By: BRB
March 5, 2014	Scale: 1" = 2,000'



Legend:

- Excavation Extent
- Pipeline
- Sample Location
- X Release Point

Figure 2

Site & Sample Location Map
BOPCO, L.P.
PLU #441H 8" Frac Hose
Eddy County, New Mexico

Basin Environmental Services

Prep By: JWL	Checked By: BJA
March 5, 2014	Scale 1"=10'

TABLES

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDES IN SOIL

BOPCO, LP
 PLU #441H 8" FRAC HOSE
 EDDY COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M			TOTAL TPH	4500 CI-B
				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)	C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
NWS #1	18"	2/18/2014	In-Situ	-	-	-	-	-	-	-	-	-	16.0
ESW #1	8'	2/18/2014	In-Situ	-	-	-	-	-	-	-	-	-	112.0
SSW #1	18"	2/18/2014	In-Situ	-	-	-	-	-	-	-	-	-	64.0
WSW #1	18"	2/18/2014	In-Situ	-	-	-	-	-	-	-	-	-	64.0
Floor #1 @ 2'	2'	2/18/2014	In-Situ	-	-	-	-	-	<10.0	<10.0	10.1	10.1	16.0
Floor #2 @ 10'	10'	2/18/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	496
NMOCDC 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

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: BOPCO, L.P.	Contact: Tony Savoie	
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329	
Facility Name: PLU-441H The spill was located 2485 feet S.E. of the well location	Facility Type: Exploration and Production	
Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-41281

LOCATION OF RELEASE

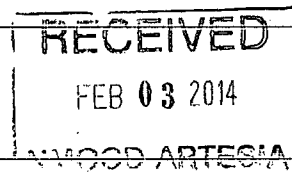
Unit Letter P	Section 18	Township 24S	Range 30E	Feet from the 192	North/South Line South	Feet from the 180	East/West Line East	County: Eddy
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Latitude N 32.21082 Longitude W 103.91292

NATURE OF RELEASE

Type of Release: Produced water	Volume of Release: 45 bbls.	Volume Recovered: 2 bbls
Source of Release: 8" frac hose	Date and Hour of Occurrence: 1/23/14 Time unknown	Date and Hour of Discovery: 1/23/14 at 2:30 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 the BLM	
By Whom? Tony Savoie	Date and Hour: 1/23/14 at 5:33 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 8" hose connected to a portable pump ruptured while fracking the PLU-441H well. The hose section was replaced.

Describe Area Affected and Cleanup Action Taken.*

The spill affected approximately 1885 sq.ft. of pasture, all of the water outside of the pump containment soaked into the ground. Approximately 2 bbls of water was recovered from the containment area.

The spill will be cleaned up in accordance to the NMOCD and BLM remediation guidelines.

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

Signature:		OIL CONSERVATION DIVISION	
Printed Name: Tony Savoie		Approved by Environmental Specialist:	
Title: Waste Management and Remediation Specialist		Approval Date:	Expiration Date:
E-mail Address: tasavoie@basspet.com		Conditions of Approval:	
Date: 2/3/14 Phone: 432-556-8730		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

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

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: BOPCO, L.P.	Contact: Tony Savoie
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: PLU-441H The spill was located 2485 feet S.E. of the well location 2RP-2181	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-41281
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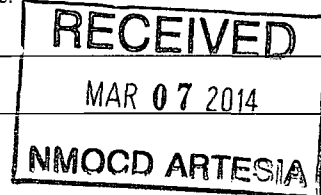
LOCATION OF RELEASE

Unit Letter P	Section 18	Township 24S	Range 30E	Feet from the 192	North/South Line South	Feet from the 180	East/West Line East	County: Eddy
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Latitude N 32.21082 **Longitude** W 103.91292

NATURE OF RELEASE

Type of Release: Produced water	Volume of Release: 45 bbls.	Volume Recovered: 2 bbls
Source of Release: 8" Frac Hose	Date and Hour of Occurrence: 1/23/14 Time unknown	Date and Hour of Discovery: 1/23/14 at 2:30 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 the BLM	
By Whom? Tony Savoie	Date and Hour: 1/23/14 at 5:33 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 8" hose connected to a portable pump ruptured while fracking the PLU-441H well. The hose section was replaced.

Describe Area Affected and Cleanup Action Taken.*
The spill affected approximately 1885 sq.ft. of pasture, all of the water outside of the pump containment soaked into the ground. Approximately 2 bbls of water was recovered from the containment area.
The spill will be cleaned up in accordance to the NMOCD and BLM remediation guidelines.

Remediation activities conducted at the PLU #441H Frac Hose Remediation Site were conducted in accordance with NMOCD and BLM remediation guidelines. Soil samples collected from the floor and sidewalls of the excavation were analyzed by an NMOCD-approved laboratory which determined concentrations of BTEX, TPH and Chloride were less than NMOCD Regulatory Standards. Between February 19 and 20, 2014, approximately 280 cy of impacted soil was excavated and transported to an NMOCD-approved disposal facility. Prior to backfilling, the final dimensions of the excavation were approximately 40' in width, 52' in length and 2'-10' in depth. **Please reference the attached Basin Environmental Services Technologies Remediation Summary and Site Closure Request for details of remediation activities.**

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

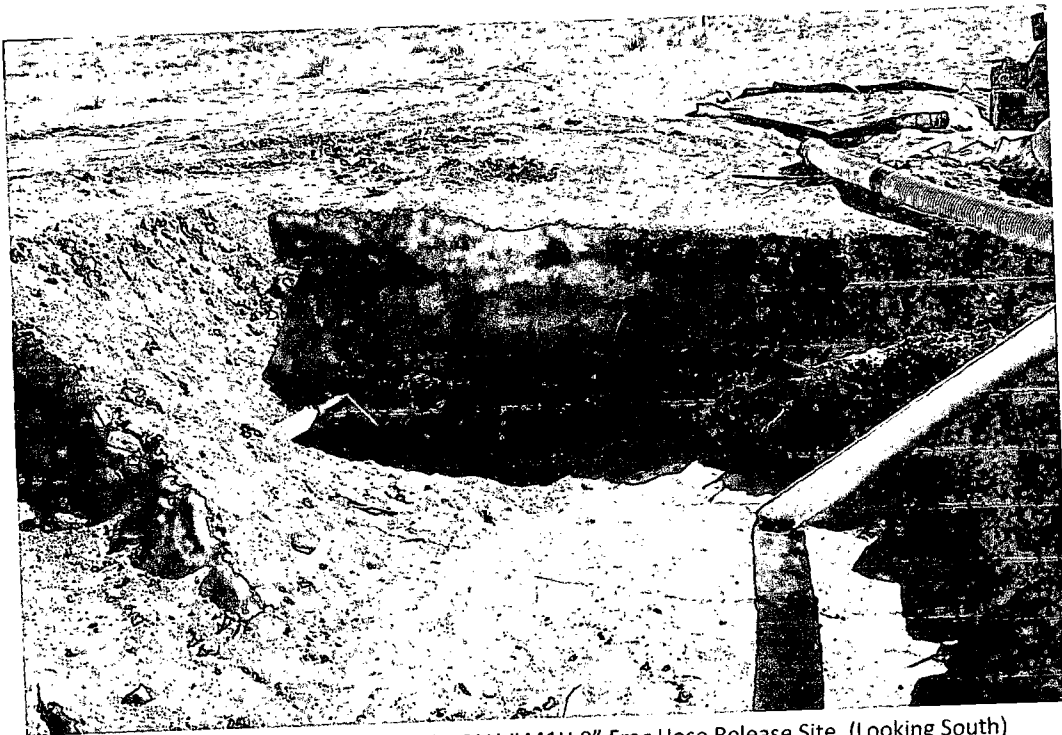
Signature: <u>Tony Savoie</u>		OIL CONSERVATION DIVISION	
Printed Name: Tony Savoie		Approved by Environmental Specialist:	
Title: Waste Management and Remediation Specialist		Approval Date:	Expiration Date:
E-mail Address: <u>tasavoie@basspet.com</u>		Conditions of Approval:	Attached <input type="checkbox"/>
Date: <u>2/3/14</u>		Phone: <u>432-556-8730</u>	

Appendix B

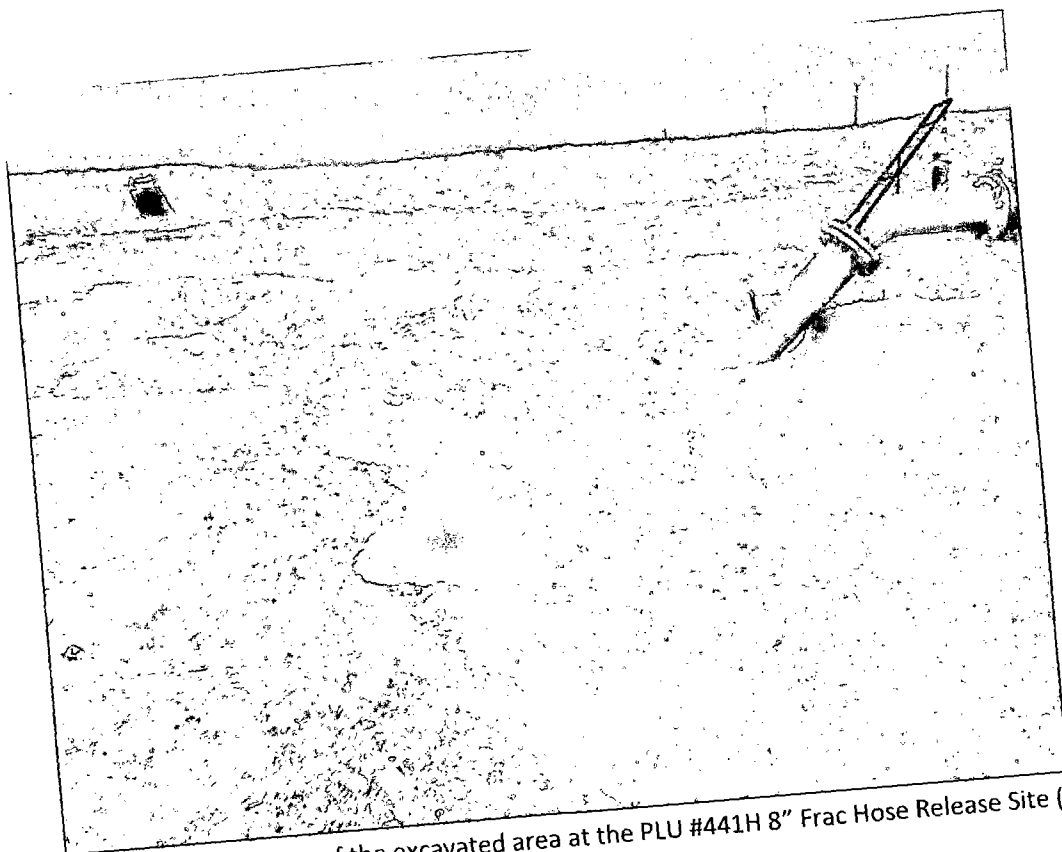
Photographs



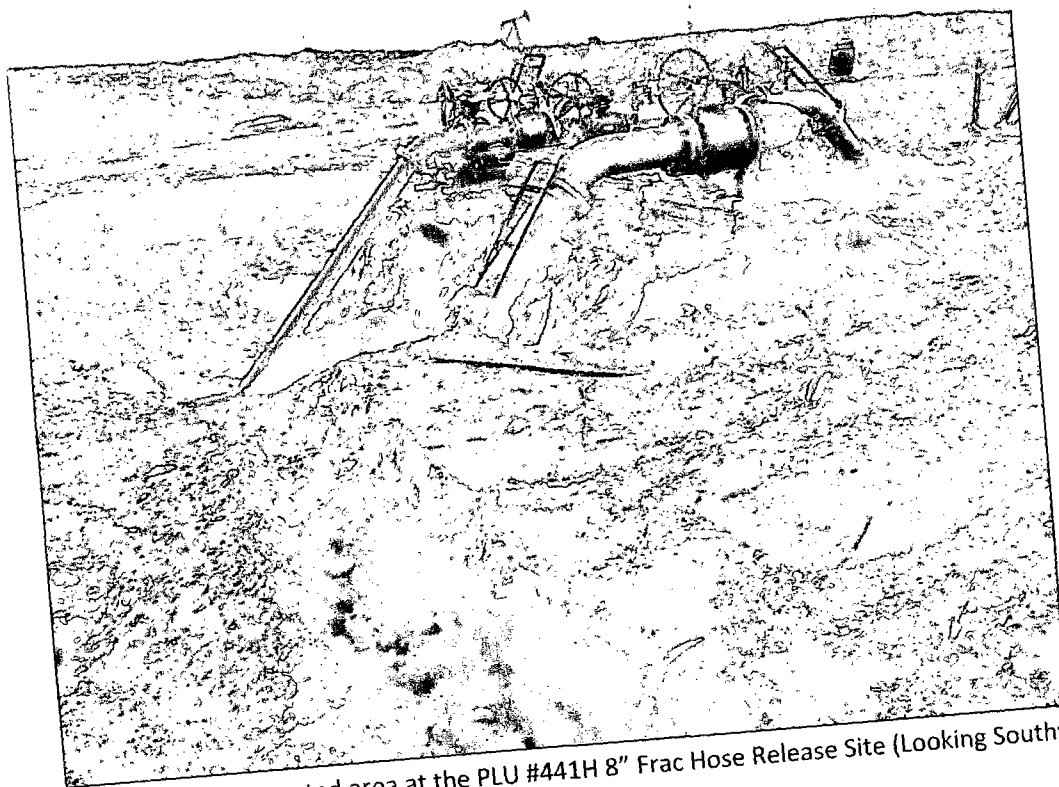
Photograph the initial release at the PLU #441H 8" Frac Hose Release Site. (Looking Northeast)



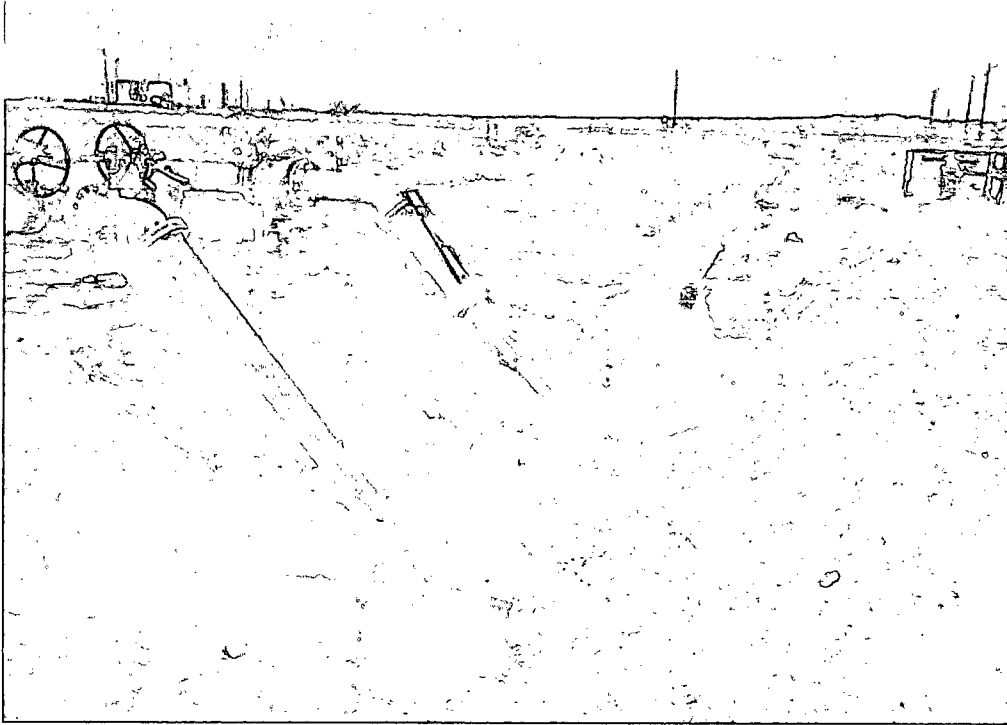
Photograph the initial release at the PLU #441H 8" Frac Hose Release Site. (Looking South)



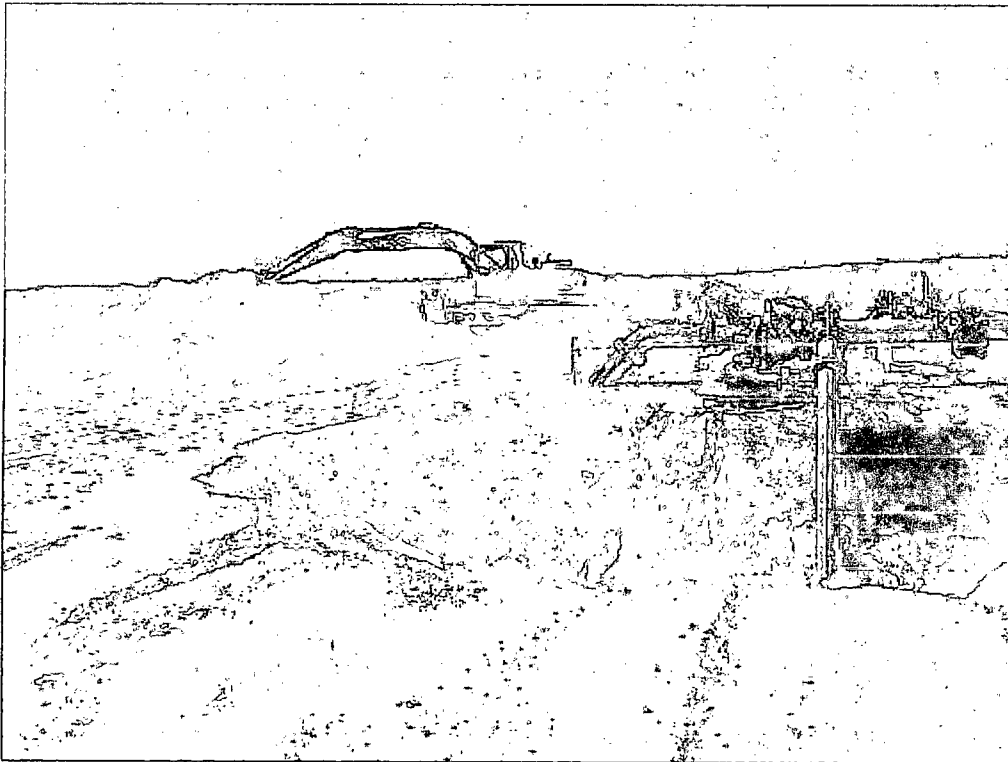
Photograph of the southern portion of the excavated area at the PLU #441H 8" Frac Hose Release Site (Looking West)



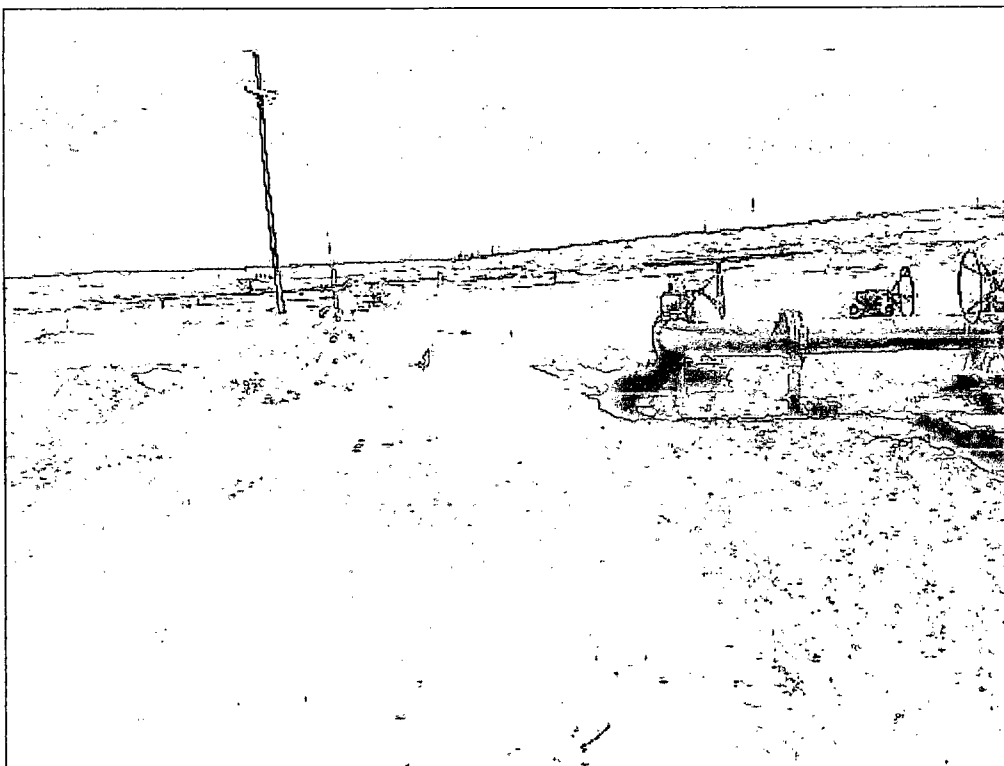
Photograph of the excavated area at the PLU #441H 8" Frac Hose Release Site (Looking Southwest)



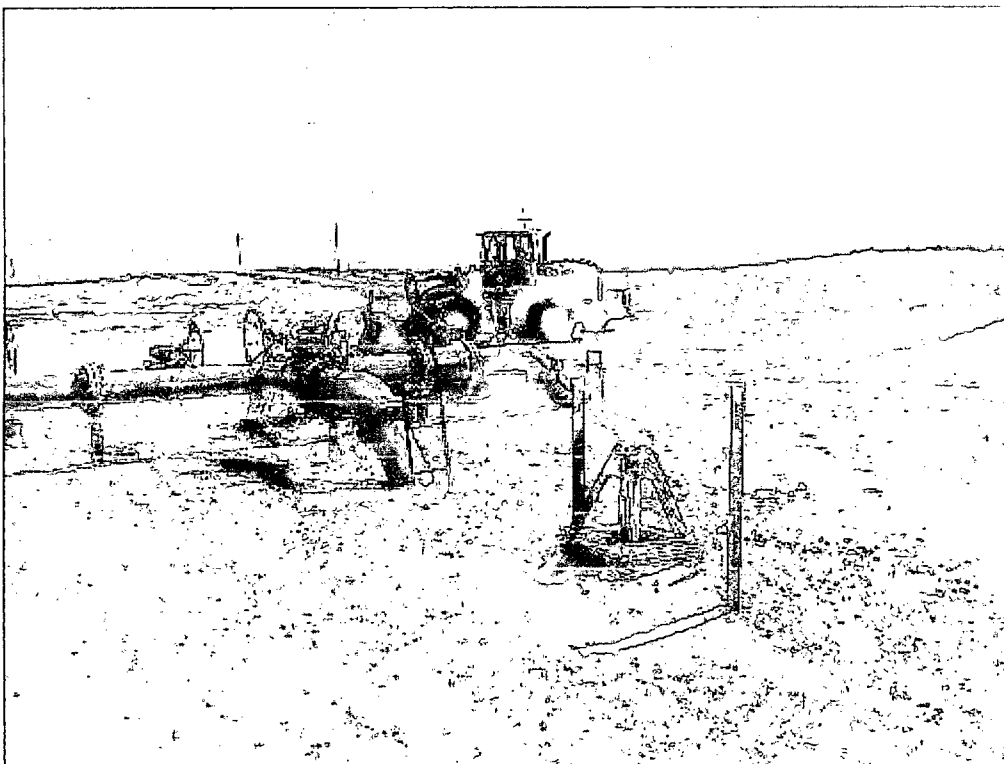
Photograph of the excavated area at the PLU #441H 8" Frac Hose Release Site (Looking North)



Photograph of backfilling activities at the PLU #441H 8" Frac Hose Release Site. (Looking West)



Photograph of backfilling activities at the PLU #441H 8" Frac Hose Release Site. (Looking East)



Photograph of the PLU #441H 8" Frac Hose Release Site after remediation activities. (Looking Southeast)

Appendix C

Laboratory Analytical Reports



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

February 25, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #441

Enclosed are the results of analyses for samples received by the laboratory on 02/19/14 15:20.

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 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: 02/19/2014
 Reported: 02/25/2014
 Project Name: PLU #441
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/18/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: NSW #1 (H400500-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/20/2014	ND	400	100	400	0.00	

Sample ID: ESW #1 (H400500-02)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/20/2014	ND	400	100	400	0.00		

Sample ID: SSW #1 (H400500-03)

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	02/20/2014	ND	400	100	400	0.00		

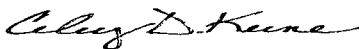
Sample ID: WSW #1 (H400500-04)

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	02/20/2014	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

Analytical Results For:

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

 Received: 02/19/2014
 Reported: 02/25/2014
 Project Name: PLU #441
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/18/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

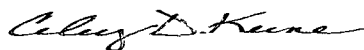
Sample ID: FLOOR #1 @ 2' (H400500-05)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/20/2014	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	02/20/2014	ND	194	96.8	200	13.2	
DRO >C10-C28	<10.0	10.0	02/20/2014	ND	183	91.4	200	14.2	
EXT DRO >C28-C35	10.1	10.0	02/20/2014	ND					
<hr/>									
Surrogate: 1-Chlorooctane	86.6 %	65.2-140							
Surrogate: 1-Chlorooctadecane	88.9 %	63.6-154							

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*=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: 02/19/2014
 Reported: 02/25/2014
 Project Name: PLU #441
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/18/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FLOOR #2 @ 10' (H400500-06)

BTX 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	02/25/2014	ND	2.05	103	2.00	6.46	
Toluene*	<0.050	0.050	02/25/2014	ND	2.16	108	2.00	4.76	
Ethylbenzene*	<0.050	0.050	02/25/2014	ND	2.04	102	2.00	6.61	
Total Xylenes*	<0.150	0.150	02/25/2014	ND	6.20	103	6.00	7.13	
Total BTX	<0.300	0.300	02/25/2014	ND					

Surrogate: Dibromofluoromethane 96.0 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 101 % 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	496	16.0	02/20/2014	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	02/20/2014	ND	194	96.8	200	13.2	
DRO >C10-C28	<10.0	10.0	02/20/2014	ND	183	91.4	200	14.2	
EXT DRO >C28-C35	<10.0	10.0	02/20/2014	ND					

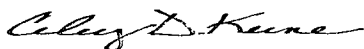
Surrogate: 1-Chlorooctane 90.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.9 % 63.6-154

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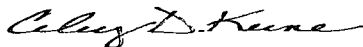
Notes and Definitions

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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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

Page 6 of 6

Company Name: Basin Environmental Service Technologies, LLC Project Manager: Joel Lowry Address: P.O. Box 301 City: Lovington State: NM Zip: 88260 Phone #: (575)396-2378 Fax #: (575)396-1429 Project #: Project Owner: Project Name: PLU #441 Project Location: Eddy Co., NM Sampler Name: Joel Lowry				BILL TO P.O. #: Company: BOPCO, LP Attn: Tony Savoie Address: 522 W. Marland City: Carlsbad State: NM Zip: 88220 Phone #: (432)556-8730 Fax #:		ANALYSIS REQUEST																					
FOR LAB USE ONLY Lab I.D. H400500				Sample I.D.				MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		PRESERV. ACID/BASE: ICE / COOL OTHER:		SAMPLING DATE TIME		Chloride TPH (8015M) BTEX (8021B)													
				(GRAB OR C)OMP. # CONTAINERS																							
				1 2 3 4 5 6		NSW #1 ESW #1 SSW #1 WSW #1 Floor #1 @ 2' Floor #2 @ 10'		G 1 G 1 G 1 G 1 G 1 G 1		X X X X X X		X X X X X X		2/14/14 2/14/14 2/14/14 2/14/14 2/14/14 2/14/14		900 910 920 930 940 950		x x x x x x x x x									

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Relinquished By: Joel Lowry		Date: 2/19/14 Time: 3:20		Received By: Heidi Henson		Date: Time:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS: RUSH CL-	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: FORM-006		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials)		Please email results to pm@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com			

Revision 1.0

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

#54

* Sample date changed as per Joel. 2/25/14 ch