

Basin Environmental Service Technologies, LLC

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

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Office: (575) 396-2378 Fax: (575) 396-1429



REMEDIATION SUMMARY AND SITE CLOSURE REQUEST

**BOPCO, LP
JAMES RANCH UNIT WELL #16
Eddy County, New Mexico
Unit Letter "H" (SE/NE), Section 36, Township 22 South, Range 30 East
Latitude 32.350408° North, Longitude 103.826691° West
NMOCD Reference #2RP- 2310**

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**

June 2014

**NM OIL CONSERVATION
ARTESIA DISTRICT**

JUL 01 2014

RECEIVED

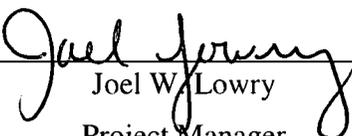

Joel W. Lowry
Project Manager

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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 Site Closure Request* for the release site known as James Ranch Unit Well #16 (JRU #16). The legal description of the release site is Unit Letter "H" (SE/NE), Section 36, Township 22 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.350408° North latitude and 103.826691° 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 May 16, 2014, BOPCO discovered a release had occurred at the JRU #16 Well. The release was attributed to the failure of the stuffing box packing due to high pressure on the flow line. An "E-Pot" on the wellhead failed to shut down the well due to a faulty float switch. The "Release Notification and Corrective Action" (Form C-141) indicated a release of approximately three barrels (3 bbls) of crude oil and ten barrels (10 bbls) of produced water affected approximately one thousand square feet (1,000 ft²) of caliche well pad. The stuffing box packing was replaced immediately. 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 depth to groundwater information was unavailable for Section 36, Township 22 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 one thousand feet (1,000') 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 one thousand feet (1,000') 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 JRU #16 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 June 2, 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 BTEX, TPH and chloride were below NMOCD regulatory standards. Excavated soil was stockpiled on-site, pending final disposition.

On June 3, 2014, fifteen (15) confirmation soil samples (NSW #1, NSW #2, ESW #1, ESW #2, ESW #3, SSW #1, SSW #2, SSW #3, WSW #1, WSW #2, WSW #3, WSW #4, Floor #1, Floor #2 and Floor #3) were collected from the excavation floor and sidewalls and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 48.0 ppm for soil sample SSW #3 to 672 ppm for soil sample ESW #2. Soil samples Floor #2 and Floor #3 were also analyzed for concentrations of TPH and BTEX. Laboratory analytical results indicated TPH concentrations ranged from 22.4 ppm for soil sample Floor #2 to 308 ppm for soil sample Floor #3. BTEX concentrations were less than the laboratory method detection limit. 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.

Between June 3 and 4, 2014, approximately two hundred and twenty cubic yards (220 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 forty feet (40') in width, seventy feet (70') in length and four feet (4') in depth. Upon receiving laboratory analytical data from confirmation soil samples, the excavated area was backfilled with locally purchased, non-impacted caliche. Following backfilling, areas affected by the remediation activities were compacted and graded to match the surrounding well pad.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

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

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

4.2 Decontamination of Equipment

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

4.3 Laboratory Protocol

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

5.0 SITE CLOSURE REQUEST

Confirmation soil samples collected from the floor and sidewalls of the JRU #16 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. Based on these laboratory analytical results, Basin recommends BOPCO provide the NMOCD-Artesia District Office and the BLM a copy of this *Remediation Summary and Site Closure Request* and request the NMOCD grant site closure to the JRU #16 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

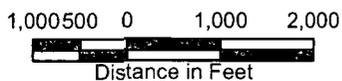
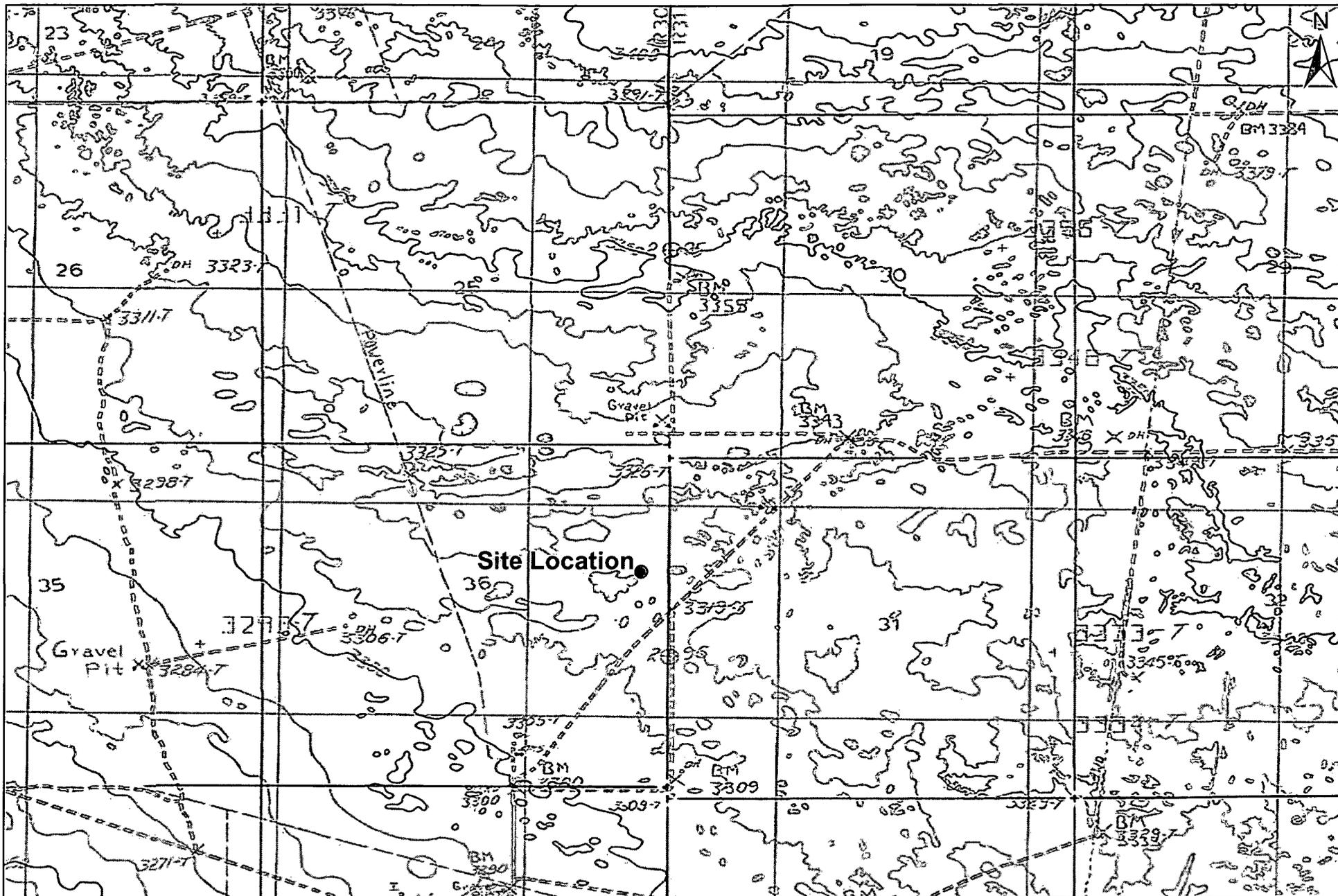
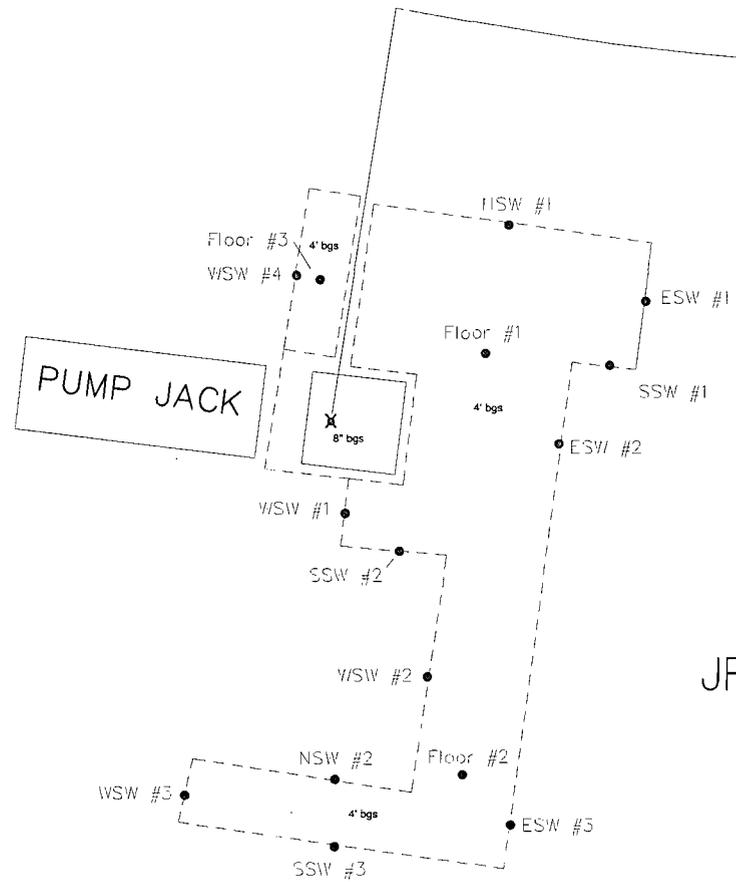


Figure 1
Site Location Map
BOPCO, LP
James Ranch Unit Well #16
Eddy County, New Mexico

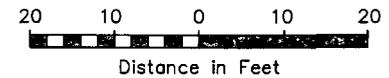


Basin Environmental Service Technologies, LLC
 3100 Plains Hwy.
 Lovington, NM 88260

Drawn By: BJA	Checked By: BRB
June 23, 2014	Scale: 1" = 2,000'



JRU #16 WELL PAD



Legend:

- Excavation Extent
- Sample Location
- 2 bgs
- Well Pad
- X Release Point

Figure 2
Site & Sample Location Map
 BOPCO, L.P.
 James Ranch Unit Well #16
 Eddy County, New Mexico
 NMOCD Ref# 2RP-

Basin Environmental Services

Prep By: JWL	Checked By: BJA
June 5, 2014	Scale 1"=20'

TABLES

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

**BOPCO, LP
JAMES RANCH UNIT WELL #16
EDDY COUNTY, NEW MEXICO
NMOCD REFERENCE #: 2RP-**

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)		
NSW #1	2.5'	6/3/2014	In-Situ	-	-	-	-	-	-	-	-	-	64.0
NSW #2	2.5'	6/3/2014	In-Situ	-	-	-	-	-	-	-	-	-	160
ESW #1	2.5'	6/3/2014	In-Situ	-	-	-	-	-	-	-	-	-	192
ESW #2	2.5'	6/3/2014	In-Situ	-	-	-	-	-	-	-	-	-	672
ESW #3	2.5'	6/3/2014	In-Situ	-	-	-	-	-	-	-	-	-	80.0
SSW #1	2.5'	6/3/2014	In-Situ	-	-	-	-	-	-	-	-	-	192
SSW #2	2.5'	6/3/2014	In-Situ	-	-	-	-	-	-	-	-	-	384
SSW #3	2.5'	6/3/2014	In-Situ	-	-	-	-	-	-	-	-	-	48.0
WSW #1	2.5'	6/3/2014	In-Situ	-	-	-	-	-	-	-	-	-	288
WSW #2	2.5'	6/3/2014	In-Situ	-	-	-	-	-	-	-	-	-	480
WSW #3	2.5'	6/3/2014	In-Situ	-	-	-	-	-	-	-	-	-	384
WSW #4	2.5'	6/3/2014	In-Situ	-	-	-	-	-	-	-	-	-	128
Floor #1	4'	6/3/2014	In-Situ	-	-	-	-	-	-	-	-	-	432
Floor #2	4'	6/3/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	22.4	<10.0	22.4	624
Floor #3	4'	6/3/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	250	58.3	308	464
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

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: James Ranch Unit Well #16	Facility Type: Exploration and Production
Surface Owner: State of New Mexico	Mineral Owner: State of New Mexico
API No. 30-015-28623	

LOCATION OF RELEASE

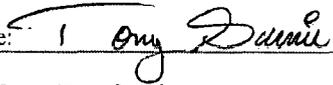
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County:
H	36	22S	30E	1980	North	660	East	Eddy

Latitude N 32.350408 Longitude W 103.826691

NATURE OF RELEASE

Type of Release: Crude oil and produced water	Volume of Release: 3 bbls of crude oil and 10 bbls produced water	Volume Recovered: None
Source of Release: Wellhead stuffing box	Date and Hour of Occurrence: Date 5/16/14 time Unknown	Date and Hour of Discovery: Date 5/16/14 at 10:40 a.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* The stuffing box packing failed due to high pressure on the flow line. The wellhead is equipped with an E-pot, the float switch in the E-pot failed to shut down the well. The stuffing box packing was replaced.		
Describe Area Affected and Cleanup Action Taken.* The release impacted approximately 1,000 sq.ft of caliche well pad. The fluid soaked into the ground. The spill area was left as is to reveal the stained area. Basin Environmental will remediate the area. Anticipated start date 5/28/14. The impacted area will be cleaned up in accordance to the NMOCD guidelines.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		

OIL CONSERVATION DIVISION

Signature: 	Approved by Environmental Specialist:	
Printed Name: Tony Savoie	Approval Date:	Expiration Date:
Title: Waste Management and Remediation Specialist	Conditions of Approval:	
E-mail Address: tasavoie@basspet.com	Attached <input type="checkbox"/>	
Date: 5/22/14	Phone: 432-556-8730	

* 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
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Release Notification and Corrective Action

2RP-2310

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: James Ranch Unit Well #16	Facility Type: Exploration and Production
Surface Owner: State of New Mexico	Mineral Owner: State of New Mexico
API No. 30-015-28623	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County:
H	36	22S	30E	1980	North	660	East	Eddy

Latitude N 32.350408 Longitude W 103.826691

NATURE OF RELEASE

Type of Release: Crude oil and produced water	Volume of Release: 3 bbls of crude oil and 10 bbls produced water	Volume Recovered: None
Source of Release: Wellhead stuffing box	Date and Hour of Occurrence: Date 5/16/14 time unknown	Date and Hour of Discovery: Date 5/16/14 10:40 a.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

NM OIL CONSERVATION
ARTESIA DISTRICT

JUL 01 2014

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

The stuffing box packing failed due to high pressure on the flow line. The wellhead is equipped with an E-pot, ~~RECEIVED~~ in the E-pot failed to shut down the well. The stuffing box was replaced.

Describe Area Affected and Cleanup Action Taken.*

The release impacted approximately 1,000 sq. ft. of caliche well pad. The fluid soaked into the ground. The spill area was left as is to reveal the stained area. Basin Environmental will remediate the area. Anticipated state date 5/28/14. The impacted area will be cleaned up in accordance to the NMOCD guidelines.

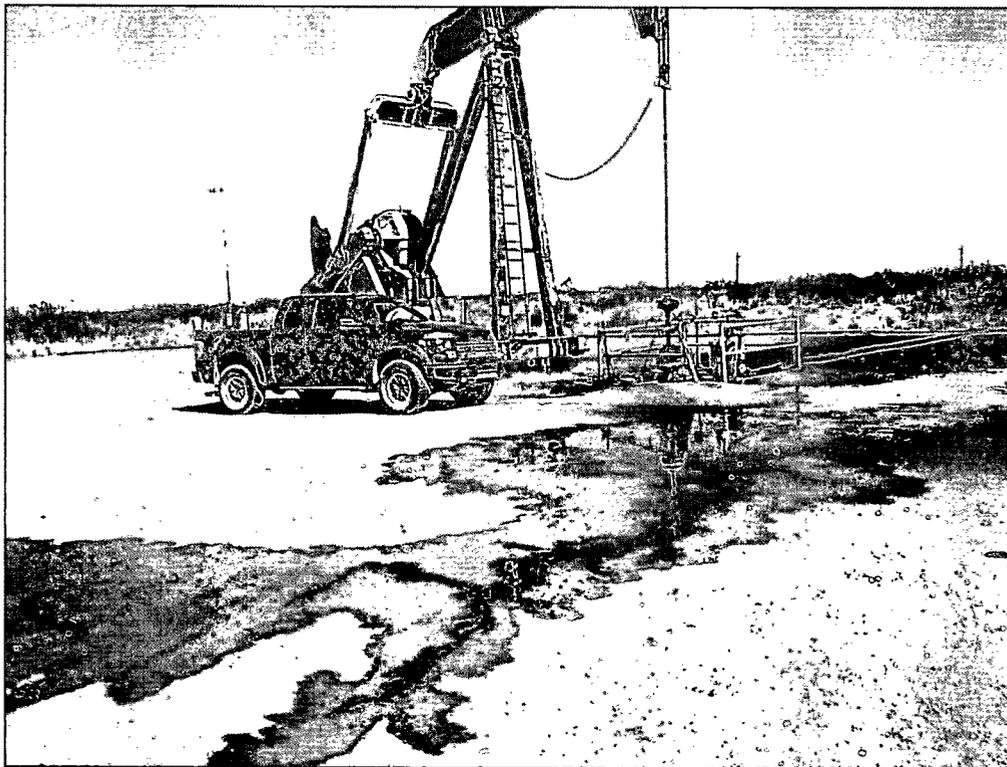
Approximately 220 cu. yds of impacted soil was excavated from an area measuring approximately 12' to 40' in width, 70' in length, and 4' in depth. Impacted soil was hauled to an NMOCD-approved disposal facility. **Please reference the attached Remediation Summary and Risk-Based Site Closure Request for detail 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.

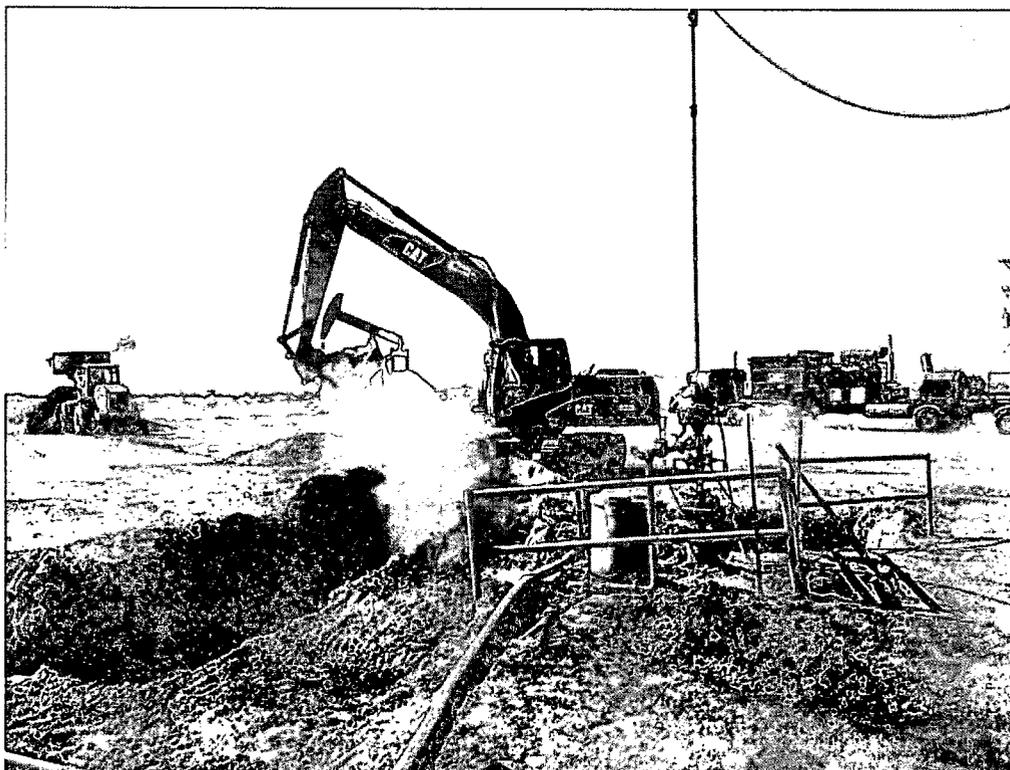
Signature: <i>Tony Savoie</i>	OIL CONSERVATION DIVISION	
Printed Name: Tony Savoie	Approved by Environmental Specialist:	
Title: Waste Management and Remediation Specialist	Approval Date:	Expiration Date:
E-mail Address: tasavoie@basspet.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 4/9/14 7/1/14	Phone: 432-556-8730	

* Attach Additional Sheets If Necessary

Appendix B
Photographs



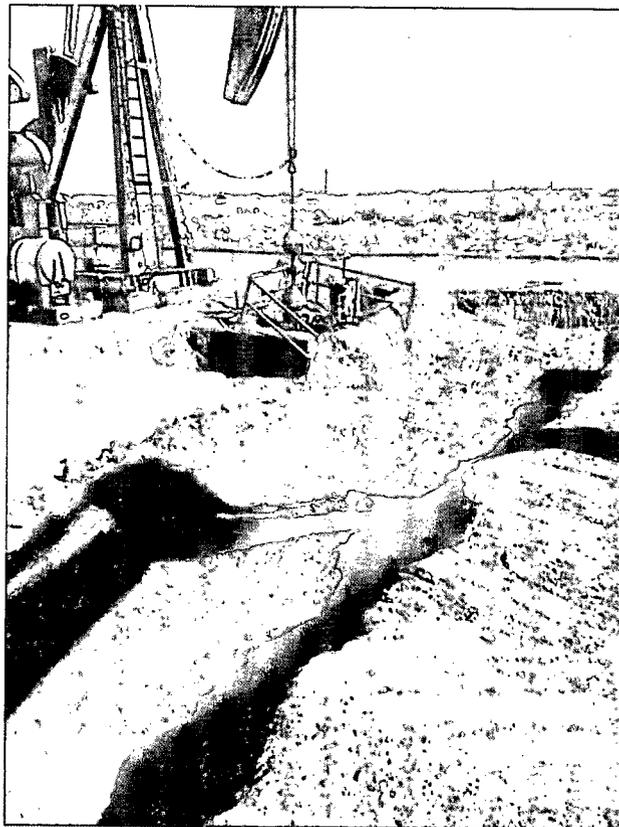
Photograph of the initial release at the JRU #16 Release Site.



Photograph of excavation activities at the JRU #16 Release Site.



Photograph of excavation activities at the JRU #16 Release Site.



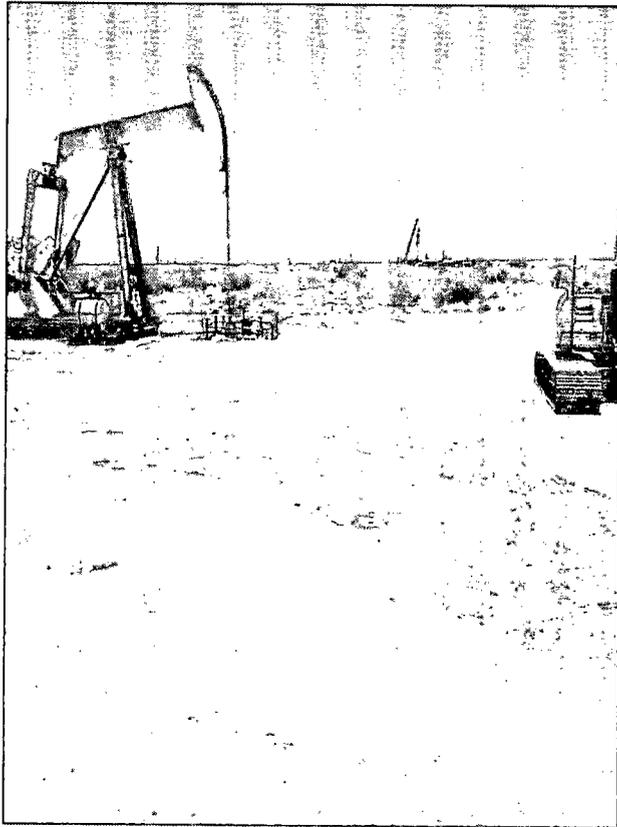
Photograph of a portion of the excavated area at the JRU #16 Release Site.



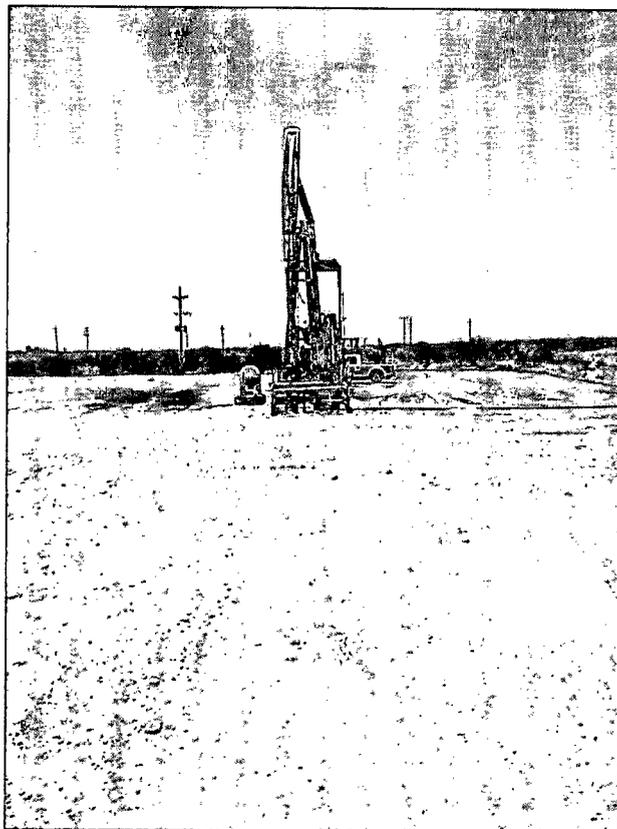
Photograph of backfilling activities at the JRU #16 Release Site.



Photograph of backfilling activities at the JRU #16 Release Site.



Photograph of the JRU #16 Release Site after remediation activities.



Photograph of the JRU #16 Release Site after remediation activities.

Appendix C
Laboratory Analytical Reports



June 12, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: JRU #16

Enclosed are the results of analyses for samples received by the laboratory on 06/04/14 15:15.

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: 06/04/2014
 Reported: 06/12/2014
 Project Name: JRU #16
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 06/03/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: NSW #1 (H401709-01)

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	06/05/2014	ND	400	100	400	0.00		

Sample ID: NSW #2 (H401709-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/05/2014	ND	400	100	400	0.00		

Sample ID: ESW #1 (H401709-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	06/05/2014	ND	400	100	400	0.00		

Sample ID: ESW #2 (H401709-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	06/05/2014	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: 06/04/2014
 Reported: 06/12/2014
 Project Name: JRU #16
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 06/03/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: ESW #3 (H401709-05)

Chloride, SM4500Cl-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	06/10/2014	ND	416	104	400	3.92		

Sample ID: SSW #1 (H401709-06)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	06/10/2014	ND	416	104	400	3.92		

Sample ID: SSW #2 (H401709-07)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	06/10/2014	ND	416	104	400	3.92		

Sample ID: SSW #3 (H401709-08)

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	06/10/2014	ND	416	104	400	3.92		

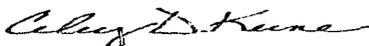
Sample ID: WSW #1 (H401709-09)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	06/10/2014	ND	416	104	400	3.92		

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Celest 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:	06/04/2014	Sampling Date:	06/03/2014
Reported:	06/12/2014	Sampling Type:	Soil
Project Name:	JRU #16	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: WSW #2 (H401709-10)

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	06/10/2014	ND	416	104	400	3.92		

Sample ID: WSW #3 (H401709-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	06/10/2014	ND	416	104	400	3.92		

Sample ID: WSW #4 (H401709-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	06/10/2014	ND	416	104	400	3.92		

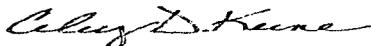
Sample ID: FLOOR #1 (H401709-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	06/10/2014	ND	416	104	400	3.92		

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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: 06/04/2014
 Reported: 06/12/2014
 Project Name: JRU #16
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 06/03/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FLOOR #2 (H401709-14)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2014	ND	2.09	105	2.00	1.02		
Toluene*	<0.050	0.050	06/06/2014	ND	2.24	112	2.00	0.546		
Ethylbenzene*	<0.050	0.050	06/06/2014	ND	2.03	101	2.00	1.45		
Total Xylenes*	<0.150	0.150	06/06/2014	ND	6.41	107	6.00	2.72		
Total BTEX	<0.300	0.300	06/06/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	06/10/2014	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<10.0	10.0	06/11/2014	ND	173	86.4	200	6.38			
DRO >C10-C28	22.4	10.0	06/11/2014	ND	173	86.3	200	6.55			
EXT DRO >C28-C35	<10.0	10.0	06/11/2014	ND							

Surrogate: 1-Chlorooctane 64.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 73.2 % 63.6-154

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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:	06/04/2014	Sampling Date:	06/03/2014
Reported:	06/12/2014	Sampling Type:	Soil
Project Name:	JRU #16	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: FLOOR #3 (H401709-15)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2014	ND	2.00	99.9	2.00	2.96		
Toluene*	<0.050	0.050	06/11/2014	ND	2.15	107	2.00	3.33		
Ethylbenzene*	<0.050	0.050	06/11/2014	ND	1.92	96.2	2.00	3.37		
Total Xylenes*	<0.150	0.150	06/11/2014	ND	5.97	99.5	6.00	3.41		
Total BTEX	<0.300	0.300	06/11/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 89.4-126

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	06/10/2014	ND	416	104	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	06/10/2014	ND	173	86.4	200	6.38		
DRO >C10-C28	250	10.0	06/10/2014	ND	173	86.3	200	6.55		
EXT DRO >C28-C35	58.3	10.0	06/10/2014	ND						

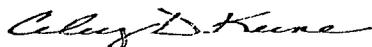
Surrogate: 1-Chlorooctane 71.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 80.5 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

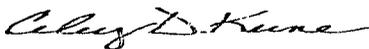
Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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 9 of 9

Company Name: Basin Environmental Service Technologies, LLC		BILL TO		ANALYSIS REQUEST										
Project Manager: Joel Lowry		P.O. #:		Chloride	TPH (8015M)	BTEX (8021B)	HOLD FOR TPH							
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:		City: Carlsbad												
Project Name: JRU #16		State: NM Zip: 88220												
Project Location: Eddy Co., NM		Phone #: (432)556-8730												
Sampler Name:		Fax #:												

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX						PRESERV.		SAMPLING										
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE									TIME
11	WSW #3	g 1			x						6/3/14	1310	x								
12	WSW #4	g 1			x						6/3/14	1320	x								
13	Floor #1	g 1			x						6/3/14	930	x								
14	Floor #2	g 1			x						6/3/14	935	x	x	x						
15	Floor #3	g 1			x						6/3/14	945	x	x	x						

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Relinquished By: <i>[Signature]</i>	Date: 6-3-14 Time: 5:00	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>[Signature]</i>	Date: 6-4-14 Time: 3:15	Received By: <i>[Signature]</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	4.60	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> No	REMARKS: HOLD FOR TPH Please email results to pm@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com	
		CHECKED BY: <i>[Signature]</i>		

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