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REMEDIATION SUMMARY AND RISK-BASED SITE CLOSURE REQUEST

BOPCO, LP

**POKER LAKE UNIT #295 FLOW LINE
&
POKER LAKE UNIT #216 FLOW LINE**

**Eddy County, New Mexico
Unit Letter "M" (SW/SW), Section 17, Township 24 South, Range 30 East
Latitude 32.211958° North, Longitude 103.911742° West
NMOCD Reference #2RP-1729 & 547**

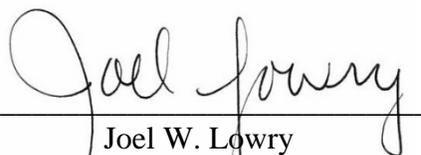
Prepared For:

**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**

January 2015



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 sites known as Poker Lake Unit #295 Flow Line (PLU #295) and Poker Lake Unit #216 Flow Line (PLU #216). The legal description of the release site is Unit Letter "M" (SW/SW), Section 17, Township 24 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.211958° North latitude and 103.911742° 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 June 26, 2013, BOPCO discovered a release had occurred on the PLU #295 flow line. The "Release Notification and Corrective Action" (Form C-141) indicated failure of a section of two and seven-eighths inch (2 7/8") steel flow line resulted in the release of two barrels (2 bbls) of crude oil and eighteen (18 bbls) of produced water. The release effected approximately one thousand square feet (1,000 ft²) of Rawhide Road and approximately five hundred square feet (500 ft²) of pasture. During initial response activities, a temporary pipeline clamp was placed on the pipe. The affected section of pipe has since been replaced. The Form C-141 is provided as Appendix A. General photographs of the release site are provided as Appendix B.

On July 1, 2014, an additional non-reportable release occurred adjacent to the previous release site. Failure of a section of two and seven-eighths inch (2 7/8") steel flow line resulted in the release of approximately two barrels (2 bbls) of crude oil and two barrels (2 bbls) of produced water. The release originated in the same area as the reportable release and flowed south, affecting soil within the bar ditch on the east side of Rawhide Road. Remediation of the June 26, 2013, reportable release and the July 1, 2014, non-reportable release will be conducted simultaneously.

Review of environmental records indicate an additional reportable release occurred at the same road crossing in 2010. The initial Form C-141 indicates that on March 21, 2010, BOPCO discovered a release on the Poker Lake Unit #216 flow line. It is estimated that approximately twenty-five barrels (25 bbls) of crude oil along with twenty-five barrels (25 bbls) of produced water were released with approximately forty barrels (40 bbls) of total fluid having been recovered. The release affected approximately one thousand square feet (1,000 ft²) of Rawhide Road along with one thousand, eight hundred square feet (1,800 ft²) of adjacent pasture land. The area in the road was excavated to repair the line. Limited remediation activities were conducted at the release site; final closure was never sought.

As per the NMOCD, the March 21, 2010 and June 26, 2013, reportable releases will be closed under one cover.

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 17, Township 24 South, Range 30 East. A depth to groundwater reference map utilized by the New Mexico Oil Conservation Division (NMOCD) indicates groundwater should be encountered between one hundred and seventy-five (175) and 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 PLU #295 flow line 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 November 11, 2014, Basin conducted an initial investigation at the release site. During the investigation, a series of hand-augered soil bores were advanced at the release point and along the inferred release flow path in an effort to determine the vertical and horizontal extent of soil impact. Three (3) soil samples (RP-1 @ 1', RP-1 @ 5' and RP-1 @ 10') were collected from the release point and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 4,000 ppm for soil sample RP-1 @ 1' to 1,060 ppm for soil sample RP-1 @ 10'. Soil sample RP-1 @ 1' was also analyzed for concentrations of BTEX and TPH, which were determined to be 0.152 ppm and 2,918 ppm, respectively. A summary of "Concentrations of Benzene, BTEX, TPH & Chloride in Soil" is provided in Table 1. A "Site & Sample Location Map" is provided as Figure 2. Laboratory analytical reports are provided as Appendix C.

Thirteen (13) soil samples (Road #1 @ 3", Road #1 @ 1', Road #2 @ 3", Road #3 @ 3", Road #4 @ 3", Road #5 @ 3", Road #6 @ 3", Road #6 @ 1', Road #6 @ 3', Road #6 @ 5', Road #6 @ 7', Road #6 @ 9' and Road #6 @ 11') were collected from the affected portion of Rawhide Road at approximate fifty-foot (50') increments and submitted to the laboratory for analysis of chloride concentration. Laboratory analytical results indicated chloride concentrations ranged from 4,640 ppm for soil sample Road #1 @ 1' to 176 ppm for soil sample Road #4 @ 3". Each of the submitted soil samples exhibited chloride concentrations below NMOCD regulatory standards with the exception of soil samples Road #1 @ 1' and Road #6 @ 1'. Soil samples Road #1 @ 3", Road #2 @ 3", Road #3 @ 3", Road #4 @ 3", Road #5 @ 3" and Road #6 @ 3" were also analyzed for concentrations of TPH. Analytical results indicated TPH concentrations were less than the laboratory method detection limit (MDL) for each of the submitted soil samples with the exception

of Road #1 @ 3", which exhibited a TPH concentration of 201 ppm. Soil sample Road #1 @ 3" was also analyzed for concentrations of BTEX, which were determined to be less than the appropriate laboratory MDL.

In addition, four (4) soil samples (Middle @ 1', Middle @ 4', Middle @ 5' and End @ 1') were collected from the affected bar ditch and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 5,120 ppm for soil sample Middle @ 1' to 48.0 ppm for soil sample End @ 1'. Soil sample Middle @ 1' was also analyzed for concentrations of BTEX and TPH, which were determined to be 2.95 ppm and 3,927 ppm, respectively.

On November 13, 2014, additional delineation trenches were advanced in the areas represented by sample points Road #1 and RP. Six (6) soil samples (Road #1 @ 3', Road #1 @ 5', Road #1 @ 7', Road #1 @ 9', Road #1 @ 11' and Road #1 @ 13') were collected at two foot intervals from sample point Road #1 and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 704 ppm for soil sample Road #1 @ 3' to 400 ppm for soil samples Road #1 @ 11' and Road #1 @ 13'. Soil sample Road #1 @ 13' was also analyzed for concentrations of BTEX and TPH which were determined to be less than the appropriate laboratory MDL.

One (1) additional soil sample (RP @ 11') was collected from a delineation trench advanced at the release point and submitted to the laboratory for analysis of chloride concentrations which were determined to be 704 ppm.

On November 18, 2014, Basin began excavating impacted soil in the southern portion of the affected bar ditch. 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 November 21, 2014, three (3) confirmation soil samples (ESW #2, WSW #2 and Floor #2) were collected from the floor and sidewalls of the excavated area and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical resulting indicated chloride concentrations ranged from 160 ppm for soil sample ESW #2 to less than the laboratory MDL for soil sample WSW #2. Soil sample Floor #2 was also analyzed for concentrations of BTEX and TPH, which were determined to be less than the appropriate laboratory MDL.

On December 5, 2014, five (5) soil samples (NSW #1, WSW #1, ESW #3, SSW #3 and WSW #3) were collected from the excavated area and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical resulting indicated chloride concentrations ranged from 5,120 ppm for soil sample WSW #1 to less than the laboratory MDL for soil samples SSW #3 and WSW #3. The excavation was advanced in the area represented by soil sample WSW #1.

One (1) soil sample (RP @ 13') was collected from a delineation trench advanced at the release point and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated the concentration of chloride was 240 ppm. Based on laboratory analytical results it was determined that vertical delineation had been achieved.

On December 17, 2015, three (3) confirmation soil samples (ESW #1, WSW #1b and Floor #1 [In-Situ]) were collected from the excavated area and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 4,720 ppm for soil sample Floor #1 [In-Situ] to less than the laboratory MDL for soil sample ESW #1. Soil sample Floor #1 [In-Situ] was also analyzed for concentrations of BTEX and TPH, which were determined to be less than the appropriate laboratory MDL.

On December 18, 2014, NMOCD and BOPCO representatives met to discuss remediation activities on the PLU #295 flow line release site. During the meeting, it was determined excavating additional affected soil from the oil field access roads posed a risk to public safety and would impede traffic.

On December 19, 2014, upon advancing the excavation to the maximum extent practicable, Basin began backfilling the excavated area with locally purchased, non-impacted soil. Excavation backfill was compacted and contoured to match the surrounding topography.

Between December 17 and 30, 2014, approximately three hundred and forty cubic yards (340 yd³) of impacted material was transported to Lea Land, Inc. (NMOCD Permit #WM-01-035) for disposal. Prior to backfilling, the final dimensions of the excavation were approximately ten (10) to twenty-two feet (22') in width, one hundred and forty feet (140') in length and one (1) to four feet (4') 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

Remediation activities conducted at the PLU #295 Flow Line and PLU #216 Flow Line release sites met the objectives set forth by the NMOCD. Impacted soil was excavated to the maximum extent practicable given the numerous active pipelines and proximity of widely used oil field access roads. Confirmation soil samples collected from the floor and sidewalls of the PLU #295 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 soil sample Floor #1 [In-Situ]. 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 Risk-Based Site Closure Request* and request the NMOCD grant site closure to the PLU #295 Flow Line and PLU #216 Flow Line release sites.

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

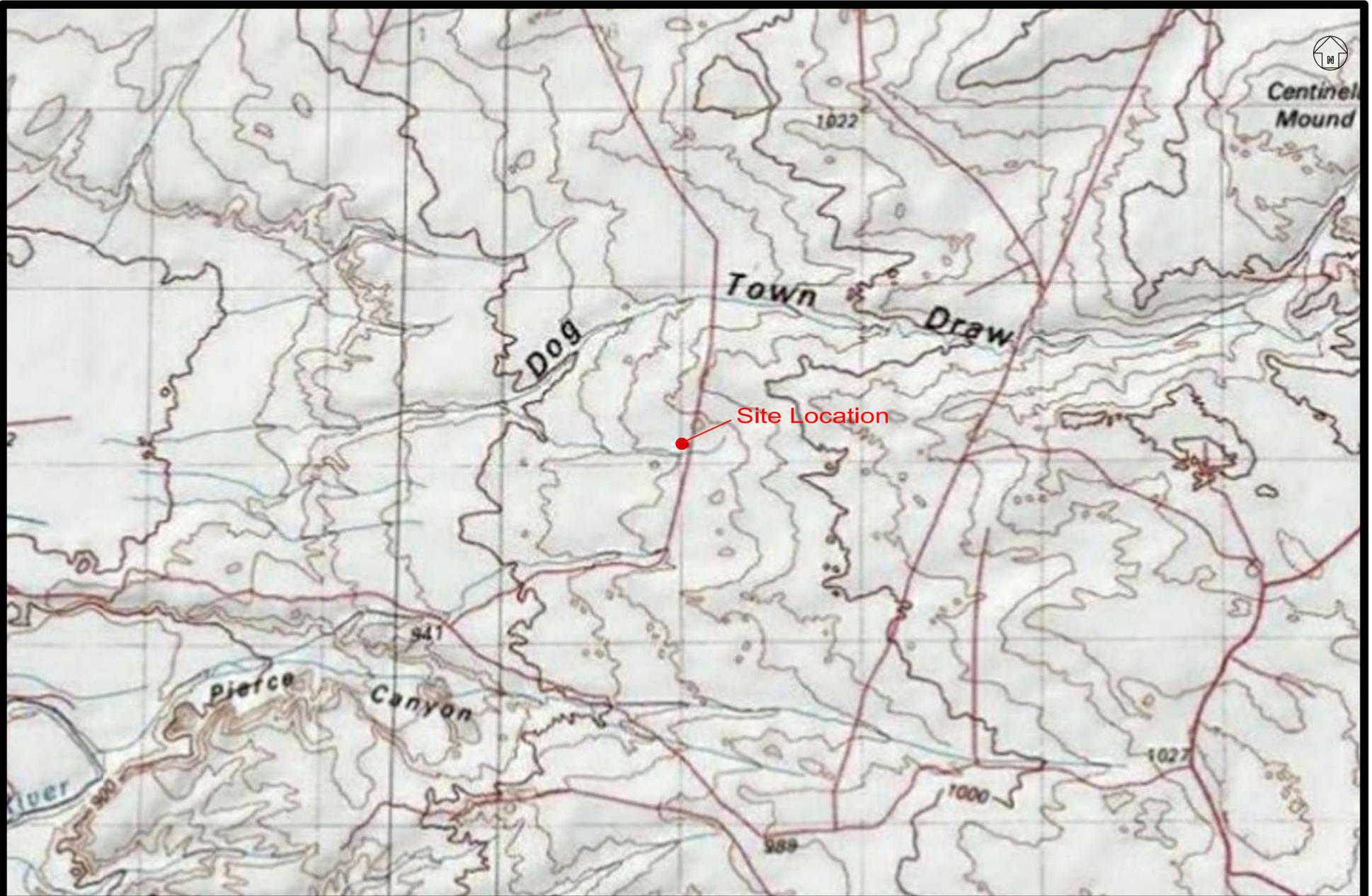


Figure 1
Site Location Map
BOPCO, LP
PLU #295 Flow Line
Eddy County, New Mexico

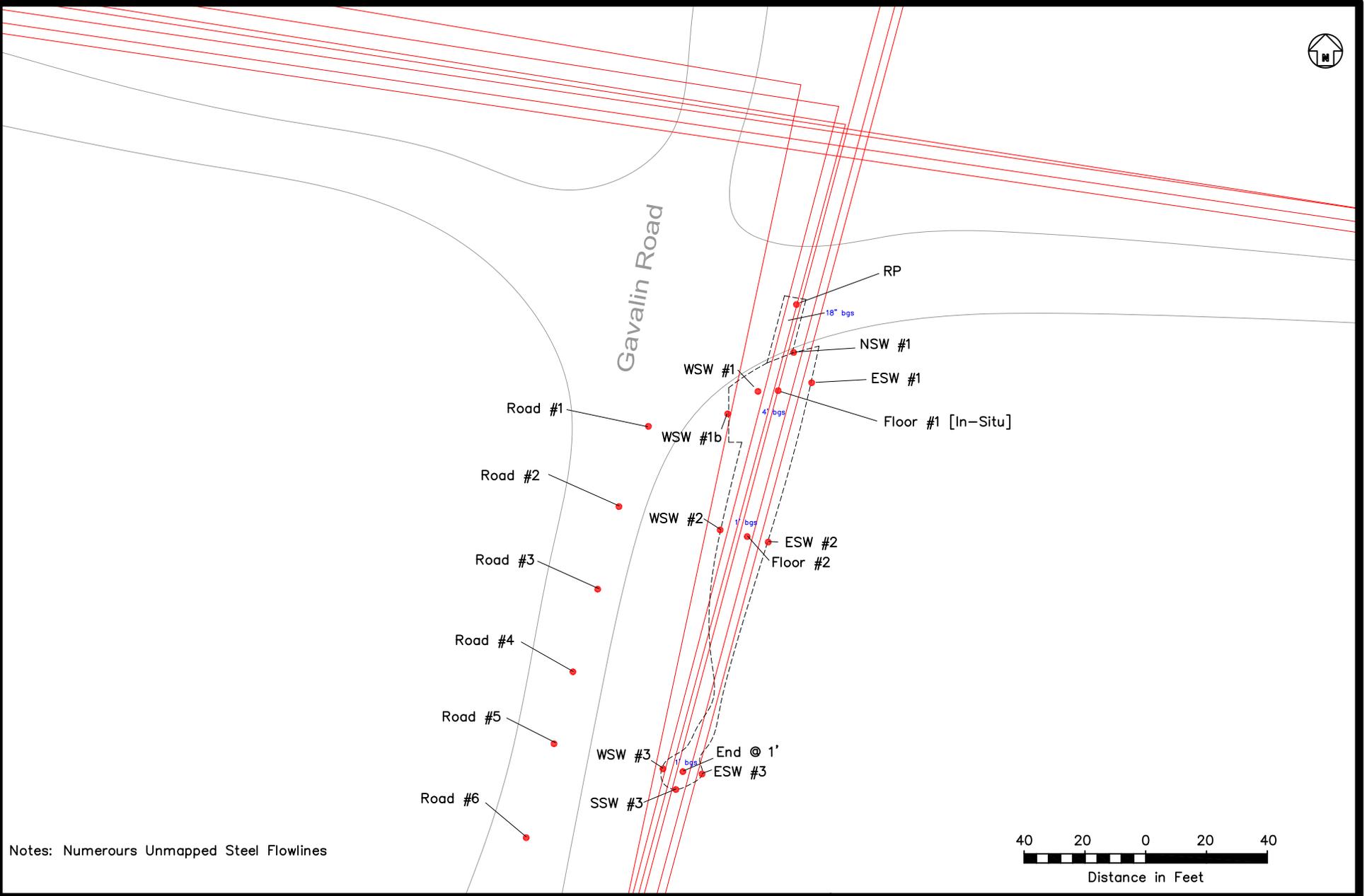
Basin Environmental Service Technologies

Prep By: JWL

Checked By: BJA

January 16, 2015

Scale 1"=4000'



Notes: Numerous Unmapped Steel Flowlines



Legend:

-----	Excavation Extent
—	Steel Flow Line
●	Sample Location

Figure 2
 Site & Sample Location Map
 BOPCO, L.P.
 PLU #295 Flow Line
 Eddy County, New Mexico

Basin Environmental Services

Prep By: JWL	Checked By: BJA
December 1, 2014	Scale 1"=40'

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

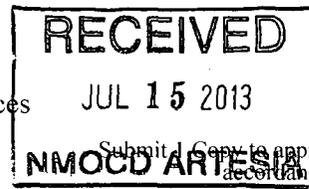
BOPCO, LP
PLU #295 FLOW LINE
EDDY COUNTY, NEW MEXICO
NMOCD REFERENCE #: 2RP-1729

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 CI-B CHLORID E (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)		
RP-1 @ 1'	1'	11/11/2014	In-Situ	<0.050	<0.050	<0.050	0.152	0.152	<100	2,500	418	2,918	4,000
RP-1 @ 5'	5'	11/11/2014	In-Situ	-	-	-	-	-	-	-	-	-	1,760
RP-1 @ 10'	10'	11/11/2014	In-Situ	-	-	-	-	-	-	-	-	-	1,060
Road #1 @ 3"	3"	11/11/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	169	32.2	201	672
Road #1 @ 1'	1'	11/11/2014	In-Situ	-	-	-	-	-	-	-	-	-	4,640
Road #2 @ 3"	3"	11/11/2014	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	224
Road #3 @ 3"	3"	11/11/2014	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	432
Road #4 @ 3"	3"	11/11/2014	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	176
Road #5 @ 3"	3"	11/11/2014	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	272
Road #6 @ 3"	3"	11/11/2014	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	368
Road #6 @ 1'	1'	11/11/2014	In-Situ	-	-	-	-	-	-	-	-	-	1,180
Road #6 @ 3'	3'	11/11/2014	In-Situ	-	-	-	-	-	-	-	-	-	912
Road #6 @ 5'	5'	11/11/2014	In-Situ	-	-	-	-	-	-	-	-	-	880
Road #6 @ 7'	7'	11/11/2014	In-Situ	-	-	-	-	-	-	-	-	-	512
Road #6 @ 9'	9'	11/11/2014	In-Situ	-	-	-	-	-	-	-	-	-	544
Road #6 @ 11'	11'	11/11/2014	In-Situ	-	-	-	-	-	-	-	-	-	496
Middle @ 1'	1'	11/11/2014	Excavated	<0.100	<0.100	0.328	2.62	2.95	270	3,150	507	3,927	5,120
Middle @ 4'	4'	11/11/2014	In-Situ	-	-	-	-	-	-	-	-	-	896
Middle @ 5'	5'	11/11/2014	In-Situ	-	-	-	-	-	-	-	-	-	224
End @ 1'	1'	11/11/2014	In-Situ	-	-	-	-	-	-	-	-	-	48.0
Road #1 @ 3'	3'	11/13/2014	In-Situ	-	-	-	-	-	-	-	-	-	704
Road #1 @ 5'	5'	11/13/2014	In-Situ	-	-	-	-	-	-	-	-	-	384
Road #1 @ 7'	7'	11/13/2014	In-Situ	-	-	-	-	-	-	-	-	-	464
Road #1 @ 9'	9'	11/13/2014	In-Situ	-	-	-	-	-	-	-	-	-	384
Road #1 @ 11'	11'	11/13/2014	In-Situ	-	-	-	-	-	-	-	-	-	400
Road #1 @ 13'	13'	11/13/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	400
RP @ 11'	11'	11/13/2014	In-Situ	-	-	-	-	-	-	-	-	-	704
ESW #2	2'	11/21/2014	In-Situ	-	-	-	-	-	-	-	-	-	160
WSW #2	2'	11/21/2014	In-Situ	-	-	-	-	-	-	-	-	-	<16.0
Floor #2	3'	11/21/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
NSW #1	3'	12/5/2014	In-Situ	-	-	-	-	-	-	-	-	-	432
WSW #1	3'	12/5/2014	Excavated	-	-	-	-	-	-	-	-	-	5,120
ESW #3	6"	12/5/2014	In-Situ	-	-	-	-	-	-	-	-	-	16.0
SSW #3	6"	12/5/2014	In-Situ	-	-	-	-	-	-	-	-	-	<16.0
WSW #3	6"	12/5/2014	In-Situ	-	-	-	-	-	-	-	-	-	<16.0
RP @ 13'	13'	12/5/2014	In-Situ	-	-	-	-	-	-	-	-	-	240
ESW #1	2'	12/17/2014	In-Situ	-	-	-	-	-	-	-	-	-	<16.0
WSW #1b	2'	12/17/2014	In-Situ	-	-	-	-	-	-	-	-	-	496
Floor #1 [In-Situ]	4'	12/17/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4,720
NMOCD Criteria				10				50				5,000	1,000

- = Not analyzed.

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

Release Notification and Corrective Action

nJMW 1319840879

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-295 The spill location is 800 ft. east of the PLU-213 Tank Battery and approximately 5080 ft. north east of the well location.	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-35549
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	17	24S	30E					Eddy

Latitude N 32.211958 Longitude W 103.911742

NATURE OF RELEASE

Type of Release: Crude oil and produced water	Volume of Release: 2 bbls oil and 18 bbls water	Volume Recovered: 0
Source of Release: 2 7/8" flow line	Date and Hour of Occurrence: 6/26/13 time unknown	Date and Hour of Discovery: 6/26/13 at 8:00 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 flow developed a leak due to external corrosion, a temporary leak clamp was placed on the pipe. The bad section of pipe will be replaced.

Describe Area Affected and Cleanup Action Taken.*
Approximately 1000 sq. ft of the rawhide road and approximately 500 sq. ft. of pasture. All of the spilled fluid soaked into the ground, the spill area will be remediated 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: Signed By <i>Mike Brannon</i>	
Title: Waste Management and Remediation Specialist	Approval Date: JUL 16 2013	Expiration Date:
E-mail Address: <i>tasavoie@basspet.com</i>	Conditions of Approval: Remediation per OCD Rule & Guidelines, & Attached <input type="checkbox"/> like approval by BLM. SUBMIT REMEDIATION	
Date: 7/14/13	Phone: 432-556-8730	

* Attach Additional Sheets If Necessary

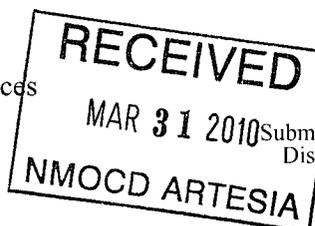
PROPOSAL NO LATER THAN:
August 16, 2013

2RP-1729

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

State of New Mexico
Energy Minerals and Natural Resources

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



Form C-141
Revised October 10, 2003
Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

30-015-33861
MKMW 1101252818

OPERATOR

Initial Report Final Report

Name of Company BOPCO, L.P.	260737	Contact Tony Savoie
Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220		Telephone No. 432-556-8730
Facility Name Poker Lake Unit #216		Facility Type E&P

Surface Owner Federal	Mineral Owner Federal	Lease No.
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	17	24S	30E					Eddy

Latitude N 32.21200 Longitude W 103.91197

NATURE OF RELEASE

Type of Release: Produced water and crude oil	Volume of Release: 25 Bbbls of Produced water and 25 Bbbls of crude oil	Volume Recovered: 40 Bbbls
Source of Release: Flow Line	Date and Hour of Occurrence: 3/21/10 Approximately 8:00 p.m.	Date and Hour of Discovery: 3/21/10 8:30 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 "Randy"	
By Whom? Tony Savoie	Date and Hour 3/22/10 12:06 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.* A 2 3/8" flow developed a leak under the caliche road known a Rawhide road, the flow line is a conduit under the road with approximately 20 other flow lines. Crews started shutting in wells and excavating the area to determine the exact well. A vacuum truck was on-site and began recovering oil from the excavated area. The affected line was replaced the same day.

Describe Area Affected and Cleanup Action Taken.*The spill affected approximately 1000 sq.ft. of lease road and approximately 1800 sq. ft. of pasture land. The area in the road was excavated to repair the line, due to the number of lines in the conduit and traffic requirements soil samples were collected from the excavated area in the road and backfilled. The area will be delineated and a remediation plan will be submitted in accordance with the NMOCD recommended 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 District Supervisor: Signed By <i>Mike Brannon</i>	
Title: Waste Mgmt. & Remediation Specialist	Approval Date: <u>3/3/11</u>	Expiration Date:
E-mail Address: TASavoie@BassPet.com	Conditions of Approval: Remediation per OCD Rules & Guidelines. SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:	
Date: 3/29/10 Phone: 432-556-8730	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

PROPOSAL NOT LATER THAN:

4/3/11

2RP-547



Photograph of June 26, 2013, release at the PLU #295 Flow Line Remediation Site.



Photograph of surface staining from July 1, 2014, release at the PLU #295 Flow Line Remediation Site.



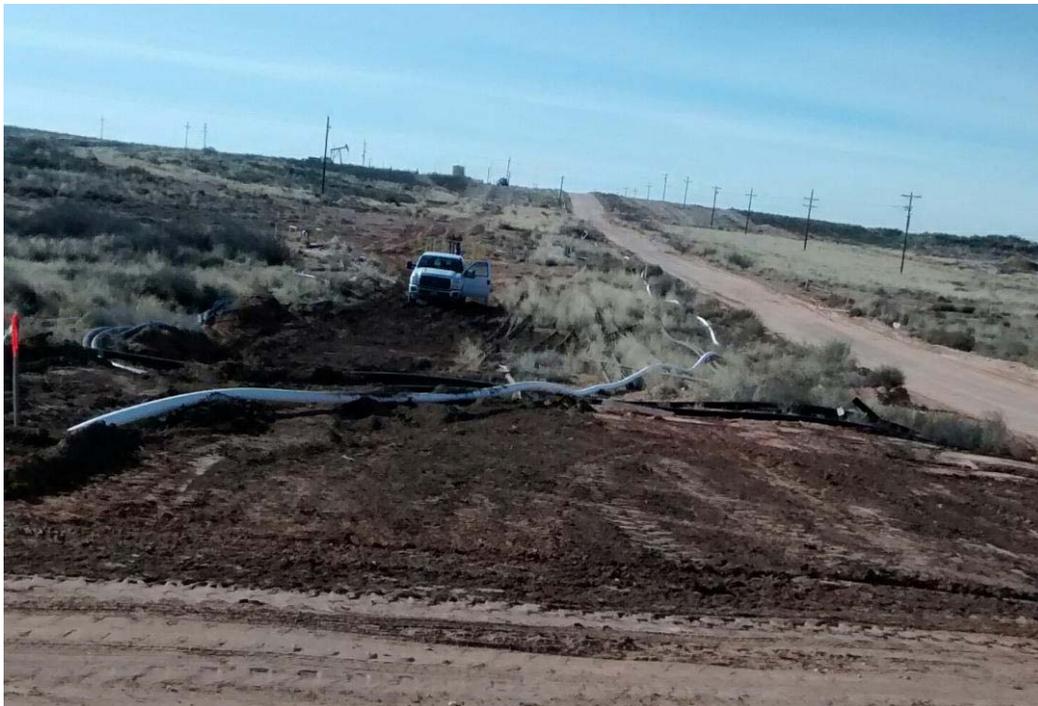
Photograph of surface staining from July 1, 2014, release at the PLU #295 Flow Line Remediation Site.



Photograph of excavation activities at the PLU #295 Flow Line Remediation Site.



Photograph of excavation activities at the PLU #295 Flow Line Remediation Site.



Photograph of the PLU #295 Flow Line Release Site after remediation activities.



November 14, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #295 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 11/12/14 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at 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".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 11/12/2014
 Reported: 11/14/2014
 Project Name: PLU #295 FLOWLINE
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 11/11/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: RP @ 1' (H403481-01)

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	11/13/2014	ND	1.74	87.0	2.00	10.0	
Toluene*	<0.050	0.050	11/13/2014	ND	1.65	82.6	2.00	10.2	
Ethylbenzene*	<0.050	0.050	11/13/2014	ND	1.61	80.5	2.00	10.3	
Total Xylenes*	0.152	0.150	11/13/2014	ND	4.82	80.4	6.00	10.9	
Total BTEX	<0.300	0.300	11/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	11/13/2014	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: ms						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	11/13/2014	ND	190	95.2	200	1.52		
DRO >C10-C28	2500	100	11/13/2014	ND	198	99.1	200	1.60		
EXT DRO >C28-C35	418	100	11/13/2014	ND						

Surrogate: 1-Chlorooctane 126 % 47.2-157

Surrogate: 1-Chlorooctadecane 203 % 52.1-176

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: 11/12/2014
 Reported: 11/14/2014
 Project Name: PLU #295 FLOWLINE
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 11/11/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: RP @ 5' (H403481-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	11/13/2014	ND	400	100	400	7.69	

Sample ID: RP @ 10' (H403481-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	11/13/2014	ND	400	100	400	7.69	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report





November 14, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #295 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 11/12/14 13:40.

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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.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/12/2014	Sampling Date:	11/11/2014
Reported:	11/14/2014	Sampling Type:	Soil
Project Name:	PLU #295 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: ROAD #1 @ 3" (H403480-01)

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	11/13/2014	ND	1.74	87.0	2.00	10.0	
Toluene*	<0.050	0.050	11/13/2014	ND	1.65	82.6	2.00	10.2	
Ethylbenzene*	<0.050	0.050	11/13/2014	ND	1.61	80.5	2.00	10.3	
Total Xylenes*	<0.150	0.150	11/13/2014	ND	4.82	80.4	6.00	10.9	
Total BTEX	<0.300	0.300	11/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 61-154

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	11/13/2014	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	11/13/2014	ND	190	95.2	200	1.52	
DRO >C10-C28	169	10.0	11/13/2014	ND	198	99.1	200	1.60	
EXT DRO >C28-C35	32.2	10.0	11/13/2014	ND					

Surrogate: 1-Chlorooctane 107 % 47.2-157
Surrogate: 1-Chlorooctadecane 129 % 52.1-176

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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: 11/12/2014
 Reported: 11/14/2014
 Project Name: PLU #295 FLOWLINE
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 11/11/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: ROAD #1 @ 1' (H403480-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	11/13/2014	ND	400	100	400	3.92	

Sample ID: ROAD #2 @ 3" (H403480-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/13/2014	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	11/13/2014	ND	190	95.2	200	1.52	
DRO >C10-C28	<10.0	10.0	11/13/2014	ND	198	99.1	200	1.60	
EXT DRO >C28-C35	<10.0	10.0	11/13/2014	ND					

Surrogate: 1-Chlorooctane 103 % 47.2-157

Surrogate: 1-Chlorooctadecane 117 % 52.1-176

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Analytical Results For:

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

 Received: 11/12/2014
 Reported: 11/14/2014
 Project Name: PLU #295 FLOWLINE
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 11/11/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: ROAD #3 @ 3" (H403480-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	11/13/2014	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	11/13/2014	ND	190	95.2	200	1.52	
DRO >C10-C28	<10.0	10.0	11/13/2014	ND	198	99.1	200	1.60	
EXT DRO >C28-C35	<10.0	10.0	11/13/2014	ND					
<i>Surrogate: 1-Chlorooctane</i>	<i>102 %</i>	<i>47.2-157</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>116 %</i>	<i>52.1-176</i>							

Sample ID: ROAD #4 @ 3" (H403480-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/13/2014	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	11/13/2014	ND	190	95.2	200	1.52	
DRO >C10-C28	<10.0	10.0	11/13/2014	ND	198	99.1	200	1.60	
EXT DRO >C28-C35	<10.0	10.0	11/13/2014	ND					
<i>Surrogate: 1-Chlorooctane</i>	<i>106 %</i>	<i>47.2-157</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>119 %</i>	<i>52.1-176</i>							

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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: 11/12/2014
 Reported: 11/14/2014
 Project Name: PLU #295 FLOWLINE
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 11/11/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: ROAD #5 @ 3" (H403480-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	11/13/2014	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	11/13/2014	ND	190	95.2	200	1.52	
DRO >C10-C28	<10.0	10.0	11/13/2014	ND	198	99.1	200	1.60	
EXT DRO >C28-C35	<10.0	10.0	11/13/2014	ND					
<i>Surrogate: 1-Chlorooctane</i>	<i>110 %</i>	<i>47.2-157</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>124 %</i>	<i>52.1-176</i>							

Sample ID: ROAD #6 @ 3" (H403480-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	11/13/2014	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	11/13/2014	ND	190	95.2	200	1.52	
DRO >C10-C28	<10.0	10.0	11/13/2014	ND	198	99.1	200	1.60	
EXT DRO >C28-C35	<10.0	10.0	11/13/2014	ND					
<i>Surrogate: 1-Chlorooctane</i>	<i>112 %</i>	<i>47.2-157</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>126 %</i>	<i>52.1-176</i>							

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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:	11/12/2014	Sampling Date:	11/11/2014
Reported:	11/14/2014	Sampling Type:	Soil
Project Name:	PLU #295 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: ROAD #6 @ 1' (H403480-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	11/13/2014	ND	400	100	400	3.92	

Sample ID: ROAD #6 @ 3' (H403480-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	11/13/2014	ND	400	100	400	7.69	

Sample ID: ROAD #6 @ 5' (H403480-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	11/13/2014	ND	400	100	400	7.69	

Sample ID: ROAD #6 @ 7' (H403480-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	11/13/2014	ND	400	100	400	7.69	

Sample ID: ROAD #6 @ 9' (H403480-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	11/13/2014	ND	400	100	400	7.69	

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: 11/12/2014
 Reported: 11/14/2014
 Project Name: PLU #295 FLOWLINE
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 11/11/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: ROAD #6 @ 11' (H403480-13)
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	11/13/2014	ND	400	100	400	7.69	

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

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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

2072

Company Name:		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:																							
Project #:		City:																							
Project Name: PLU #295 Flow Line		State: NM Zip:																							
Project Location: Eddy Co., NM		Phone #:																							
Sampler Name: Joel Lowry		Fax #:																							
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME											
H403480																									
11	Road #6 @ 7'	g	1			x				x			11/11/14	1310	x										
12	Road # 6 @ 9'	g	1			x				x			11/11/14	1320	x										
13	Road #6 @ 11'	g	1			x				x			11/11/14	1330	x										

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 11-12-14	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 9:30	<i>DR Blakum</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: 11-12-14	Received By:	REMARKS:	
<i>DR Blakum</i>	Time: 1:40	<i>Calveene</i>	Run Highest TPH for BTEX	
Delivered By: (Circle One)		Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:	-3.4°C	Cool <input type="checkbox"/> Intact <input type="checkbox"/>	<i>CSH</i>	
		Yes <input type="checkbox"/> No <input type="checkbox"/>		

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

#54



November 14, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #295 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 11/12/14 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at 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, flowing "C" and "K".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 11/12/2014
 Reported: 11/14/2014
 Project Name: PLU #295 FLOWLINE
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 11/11/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: MIDDLE @ 1' (H403482-01)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	11/13/2014	ND	1.74	87.0	2.00	10.0	
Toluene*	<0.100	0.100	11/13/2014	ND	1.65	82.6	2.00	10.2	
Ethylbenzene*	0.328	0.100	11/13/2014	ND	1.61	80.5	2.00	10.3	
Total Xylenes*	2.62	0.300	11/13/2014	ND	4.82	80.4	6.00	10.9	
Total BTEX	2.95	0.600	11/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	11/13/2014	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	270	50.0	11/13/2014	ND	190	95.2	200	1.52	
DRO >C10-C28	3150	50.0	11/13/2014	ND	198	99.1	200	1.60	
EXT DRO >C28-C35	507	50.0	11/13/2014	ND					

Surrogate: 1-Chlorooctane 148 % 47.2-157

Surrogate: 1-Chlorooctadecane 175 % 52.1-176

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: 11/12/2014
 Reported: 11/14/2014
 Project Name: PLU #295 FLOWLINE
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 11/11/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: MIDDLE @ 4' (H403482-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	11/13/2014	ND	400	100	400	7.69	

Sample ID: MIDDLE @ 5' (H403482-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/13/2014	ND	400	100	400	7.69	

Sample ID: END @ 1' (H403482-04)

Chloride, SM4500CI-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	11/13/2014	ND	400	100	400	7.69	

Cardinal Laboratories

*=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



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

1 of 1

Company Name: Joel Lowry Project Manager: P.O. Box 301 Address: Lovington City: Lovington Phone #: (575)396-2378 Project #: Project Name: PLU #295 Flow Line Project Location: Eddy Co., NM Sampler Name: Joel Lowry		State: NM Zip: 88260 Fax #: (575)396-1429 Project Owner: City: State: NM Zip: Phone #: Fax #:		BILL TO P.O. #: Company: BOPCO, LP Attn: Tony Savole Address: City: State: NM Zip: Phone #: Fax #:		ANALYSIS REQUEST					
FOR LAB USE ONLY Lab I.D.: H403192- Sample I.D.:		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER MATRIX SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:		PRESERV. SAMPLING		DATE TIME		Chloride TPH (8015M) BTEX (8021B) HOLD FOR TPH			
Middle @ 1' Middle @ 4' Middle @ 5' End @ 1'		g 1 g 1 g 1 g 1		X X X X		11/11/14 11/11/14 11/11/14 11/11/14		X X X X			
Relinquished By: [Signature] Date: 11-12-14 Time: 9:30		Received By: [Signature] Date: 11-12-14 Time: 1:40		Sample Condition Cod Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: [Signature] (Initials)		REMARKS: Run Highest TPH for BTEX Please email results to pm@basinetv.com, TASavole@BassPet.com, acruth@basspet.com			

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

#57



November 18, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #295 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 11/14/14 10:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at 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, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 11/14/2014
 Reported: 11/18/2014
 Project Name: PLU #295 FLOWLINE
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 11/13/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: ROAD #1 @ 3' (H403513-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	11/17/2014	ND	400	100	400	3.92	

Sample ID: ROAD #1 @ 5' (H403513-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	11/17/2014	ND	400	100	400	3.92	

Sample ID: ROAD #1 @ 7' (H403513-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	11/17/2014	ND	400	100	400	3.92	

Sample ID: ROAD #1 @ 9' (H403513-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	11/17/2014	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
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

 Received: 11/14/2014
 Reported: 11/18/2014
 Project Name: PLU #295 FLOWLINE
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 11/13/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: ROAD #1 @ 11' (H403513-05)
Chloride, SM4500Cl-B
mg/kg
Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	11/17/2014	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
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	11/14/2014	Sampling Date:	11/13/2014
Reported:	11/18/2014	Sampling Type:	Soil
Project Name:	PLU #295 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: ROAD #1 @ 13' (H403513-06)

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	11/18/2014	ND	1.83	91.4	2.00	8.21	
Toluene*	<0.050	0.050	11/18/2014	ND	1.76	88.2	2.00	6.70	
Ethylbenzene*	<0.050	0.050	11/18/2014	ND	1.75	87.4	2.00	6.66	
Total Xylenes*	<0.150	0.150	11/18/2014	ND	5.27	87.9	6.00	6.78	
Total BTEX	<0.300	0.300	11/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	11/17/2014	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	11/14/2014	ND	212	106	200	1.79	
DRO >C10-C28	<10.0	10.0	11/14/2014	ND	213	107	200	1.12	
EXT DRO >C28-C35	<10.0	10.0	11/14/2014	ND					

Surrogate: 1-Chlorooctane 102 % 47.2-157

Surrogate: 1-Chlorooctadecane 99.9 % 52.1-176

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: 11/14/2014
 Reported: 11/18/2014
 Project Name: PLU #295 FLOWLINE
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 11/13/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: RP @ 11' (H403513-07)
Chloride, SM4500Cl-B
mg/kg
Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	11/17/2014	ND	400	100	400	3.92	

Cardinal Laboratories

*=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



Celey D. Keene, Lab Director/Quality Manager



December 02, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #295 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 11/24/14 14:20.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/24/2014	Sampling Date:	11/21/2014
Reported:	12/02/2014	Sampling Type:	Soil
Project Name:	PLU #295 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: ESW #2 (H403614-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/25/2014	ND	400	100	400	0.00	

Sample ID: WSW #2 (H403614-02)

Chloride, SM4500CI-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	11/25/2014	ND	400	100	400	0.00	

Sample ID: FLOOR #2 (H403614-03)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2014	ND	1.60	80.0	2.00	13.3	
Toluene*	<0.050	0.050	12/01/2014	ND	1.61	80.7	2.00	12.3	
Ethylbenzene*	<0.050	0.050	12/01/2014	ND	1.58	79.0	2.00	13.8	
Total Xylenes*	<0.150	0.150	12/01/2014	ND	4.75	79.2	6.00	14.1	
Total BTEX	<0.300	0.300	12/01/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 61-154

Chloride, SM4500CI-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	11/25/2014	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

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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: 11/24/2014
 Reported: 12/02/2014
 Project Name: PLU #295 FLOWLINE
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 11/21/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FLOOR #2 (H403614-03)

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	11/26/2014	ND	197	98.5	200	2.78	
DRO >C10-C28	<10.0	10.0	11/26/2014	ND	208	104	200	0.274	
EXT DRO >C28-C35	<10.0	10.0	11/26/2014	ND					
<i>Surrogate: 1-Chlorooctane</i>	<i>125 %</i>	<i>47.2-157</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>138 %</i>	<i>52.1-176</i>							

Cardinal Laboratories

*=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



Celey D. Keene, Lab Director/Quality Manager



December 09, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #295 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 12/08/14 10:45.

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".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	12/08/2014	Sampling Date:	12/05/2014
Reported:	12/09/2014	Sampling Type:	Soil
Project Name:	PLU #295 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: NSW #1 (H403729-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	12/08/2014	ND	432	108	400	0.00	

Sample ID: WSW #1 (H403729-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	12/08/2014	ND	432	108	400	0.00	

Sample ID: ESW #3 (H403729-03)

Chloride, SM4500CI-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	12/08/2014	ND	416	104	400	3.92	

Sample ID: SSW #3 (H403729-04)

Chloride, SM4500CI-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	12/08/2014	ND	416	104	400	3.92	

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: 12/08/2014
 Reported: 12/09/2014
 Project Name: PLU #295 FLOWLINE
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 12/05/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WSW #3 (H403729-05)

Chloride, SM4500CI-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	12/08/2014	ND	416	104	400	3.92	

Sample ID: RP @ 13' (H403729-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/08/2014	ND	416	104	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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RPD	Relative Percent Difference
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***	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



Celey D. Keene, Lab Director/Quality Manager



December 29, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #295 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 12/19/14 11:15.

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.

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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".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	12/19/2014	Sampling Date:	12/17/2014
Reported:	12/29/2014	Sampling Type:	Soil
Project Name:	PLU #295 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: ESW #1 (H403888-01)

Chloride, SM4500CI-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	12/22/2014	ND	400	100	400	0.00	

Sample ID: WSW #1B (H403888-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	12/22/2014	ND	400	100	400	0.00	

Sample ID: FLOOR #1 (IN-SITU) (H403888-03)

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	12/23/2014	ND	1.87	93.4	2.00	4.37	
Toluene*	<0.050	0.050	12/23/2014	ND	1.85	92.3	2.00	4.87	
Ethylbenzene*	<0.050	0.050	12/23/2014	ND	1.68	83.9	2.00	8.18	
Total Xylenes*	<0.150	0.150	12/23/2014	ND	4.99	83.1	6.00	9.33	
Total BTEX	<0.300	0.300	12/23/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	12/22/2014	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

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: 12/19/2014
 Reported: 12/29/2014
 Project Name: PLU #295 FLOWLINE
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 12/17/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: FLOOR #1 (IN-SITU) (H403888-03)
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	12/22/2014	ND	201	100	200	4.10	
DRO >C10-C28	<10.0	10.0	12/22/2014	ND	195	97.4	200	1.72	
EXT DRO >C28-C35	<10.0	10.0	12/22/2014	ND					

Surrogate: 1-Chlorooctane 89.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 100 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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



Celey D. Keene, Lab Director/Quality Manager

