# Basin Environmental Service Technologies, LLC

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



## **REMEDIATION SUMMARY**

## AND RISK-BASED SITE CLOSURE REQUEST

**BOPCO, LP** 

POKER LAKE UNIT #347H Eddy County, New Mexico Unit Letter "C" (NE/NW), Section 11, Township 25 South, Range 30 East Latitude 32.15100° North, Longitude 104.85560° West NMOCD Reference #2RP-2527

Prepared For:

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

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

March 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 site known as Poker Lake Unit #347H (PLU #347H). The legal description of the release site is Unit Letter "C" (NE/NW), Section 11, Township 25 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.15100° North latitude and 104.85560° 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 September 20, 2014, BOPCO discovered a release had occurred at the PLU #347H. Failure of a two inch (2") hammer union at the well head resulted in the release of approximately sixty-five barrels (65 bbls) of crude oil and twelve barrels (12 bbls) of produced water. The "Release Notification and Corrective Action" (Form C-141) indicated a combination of rain water, crude oil and produced water affected approximately twenty-seven thousand, two hundred square feet (27,200 ft<sup>2</sup>) of caliche well pad and adjacent lease road, along with fifty-three thousand, seven hundred square feet (53,700 ft<sup>2</sup>) of pasture area. During initial response activities approximately five barrels (5 bbls) of crude oil and two barrels (2 bbls) of produced water were recovered along with forty barrels (40 bbls) of potential rain water mixture. The Form C-141 is provided as Appendix A. General photographs of the release site are provided as Appendix B.

## 2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information was unavailable for Section 11, Township 25 South, Range 30 East. A depth to groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately two hundred twenty-five feet (225') below ground surface (bgs). Based on the New Mexico Oil Conservation Division (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') feet of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

NMOCD guidelines indicate the PLU #347H release site has an initial ranking score of ten (10) points. The soil remediation levels for a site with a ranking score of ten (10) 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 September 24, 2014, Basin conducted an initial investigation at the release site. During the initial investigation, representative soil samples were collected from the affected well pad, bar ditch and pasture area in an effort to determine the nature and extent of soil impact.

Twenty (20) soil samples (SP #1 @ Surface, SP #1 @ 18", SP #2 @ Surface, SP #2 @ 6", SP #3 @ Surface, SP #3 @ 18", SP #4 @ Surface, SP #4 @ 6", SP #5 @ Surface, SP #5 @ 6", SP #6 @ Surface, SP #6 @ 6", SP #7 @ Surface, SP #7 @ 6", SP #8 @ Surface, SP #8 @ 6", SP #9 @ Surface-WC, SP #9 @ 6", SP #10 @ Surface and SP #10 @ 6") were collected from the affected pasture area in the western portion of the release site and submitted the laboratory for analysis of TPH concentrations. Laboratory analytical results indicated TPH concentrations ranged from less than the laboratory MDL for soil samples SP #3 @ 18" and SP #8 @ 6" to 18,086 ppm for soil sample SP #6 @ Surface. Each of the submitted soil samples exhibited TPH concentrations below NMOCD regulatory guidelines with the exception of soil samples SP #5 @ Surface, SP #6 @ Surface, SP #7 @ Surface and SP #9 @ Surface. Soil samples SP #1 @ Surface, SP #1 @ 18", SP #2 @ Surface, SP #3 @ Surface, SP #4 @ Surface, SP #5 @ Surface, SP #6 @ Surface, SP #7 @ Surface, SP #8 @ Surface, SP #9 @ Surface, SP #9 @ 6" and SP #10 @ Surface were also analyzed for concentrations of chloride. Laboratory analytical results indicated chloride concentration were less than the laboratory MDL in each of the submitted soil samples with the exception of soil sample SP #1 @ 18", which exhibited a chloride concentrations of 64.0 ppm. Based on laboratory analytical results, it was determined that the affected pasture in the western portion of the release site had not been impacted above NMOCD regulatory guidelines with the exception of areas characterized by soil samples SP #5, SP #6, SP #7 and SP #9. 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.

Ten (10) soil samples (Ditch 1 @ Surface, Ditch 1 @ 6", Ditch 2 @ Surface, Ditch 2 @ 6", Ditch 3 @ Surface, Ditch 3 @ 6", Ditch 4 @ Surface, Ditch 4 @ 6", Ditch 5 @ Surface-WC and Ditch 5 @ 6") were collected from the affected bar ditch in the southern portion of the release site and submitted the laboratory for analysis of TPH concentrations. Laboratory analytical results indicated TPH concentrations ranged from less than the laboratory method detection limit (MDL) for soil sample Ditch 4 @ Surface to 7,124 ppm for soil sample Ditch 2 @ Surface. Each of the submitted soil samples exhibited TPH concentrations below NMOCD regulatory guidelines with the exception of soil samples Ditch 2 @ Surface, Ditch 5 @ 6". Soil samples Ditch 1 @ Surface, Ditch 2 @ Surface, Ditch 3 @ Surface, Ditch 5 @ 6" were also analyzed for concentrations of chloride. Laboratory analytical results indicated chloride concentration were less than the laboratory MDL in each of the submitted soil samples with the exception of soil sample Ditch 3 @ Surface, which exhibited a chloride concentration of soil sample Ditch 3 @ Surface, which exhibited the submitted soil samples with the exception of soil sample Ditch 3 @ Surface, which exhibited the submitted soil samples with the exception of soil sample Ditch 3 @ Surface, which exhibited a chloride concentration were less than the laboratory MDL in each of the submitted soil samples with the exception of soil sample Ditch 3 @ Surface, which exhibited a chloride concentration of the release site had not been impacted above

NMOCD regulatory guidelines with the exception of areas characterized by soil samples Ditch 2 and Ditch 5.

Four (4) soil samples (WP #3 @ Surface, WP #3 @ 6", WP #4 @ Surface and WP #4 @ 6") were collected from the affected well pad at the release site and submitted the laboratory for analysis of TPH concentrations. Laboratory analytical results indicated TPH concentrations ranged from less than the laboratory MDL for soil sample WP #4 @ 6" to 4,870 ppm for soil sample WP #3 @ Surface. Each of the submitted soil samples exhibited TPH concentrations below NMOCD regulatory guidelines. Soil samples WP #3 @ Surface and WP #4 @ Surface were also analyzed for concentrations of chloride which were determined to be less than the laboratory MDL and 64.0 ppm respectively.

On September 26, 2014, affected areas outside the caliche well pad were treated with a Micro-Blaze<sup>®</sup> solution in an effort to enhance bioremediation and natural attenuation of hydrocarbon-impacted soils and vegetation.

On September 30, 2014, twenty-seven (27) additional soil samples (WP #1 @ Surf., WP #1 @ 6", WP #1 @ 3', WP #2 @ Surf., WP #2 @ 1', WP #1a @ 1'. WP #1a @ 3', WP #1b @ 1', WP #1b @ 3', S. of WP #1 @ 1', S. of WP #1 @ 1', W. of WP #1 @ 3', WW of WP #1 @ 1', WW of WP #1 @ 3', S. of Well Head @ 1', S. of Well Head @ 3', WP #2a @ 1', WP #2a @ 3', WP #2b @ 1', WP #2b @ 3', S. of WP #2 @ 1', S. of WP #2 @ 3', E. of WP #2 @ 1', E. of WP #2 @ 3', SW Well Head @ 1' and SW Well Head @ 3') were collected from the affected caliche well pad and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory MDL for soil sample WP #2b @ 1' to 5,840 ppm for soil sample S. of WP #2 @ 1'. Each of the submitted soil samples exhibited chloride concentrations below NMOCD regulatory guidelines with the exception of soil samples WP #1 @ 6", WP #2 @ 1', W. of WP #1 @ 1', WP #2a @ 1', SP #2a @ 3', S. of WP #2 @ 1', S. of WP #2 @ 1', W. of WP #1 @ 1', WP #2a @ 1', SP #2a @ 3', S. of WP #2 @ 1', S. of WP #2 @ 1', S. of WP #2 @ 1'. It was unclear as to whether chloride impacted soils discovered during the September 30, sampling event were related to the immediate release, a historical release or an illegal dump.

On December 10, 2014, three (3) soil samples (Past. WC #1, Past WC #2 and Past WC #3) were collected from the "worst case" areas within the affected pasture to measure the effects of the Micro- Blaze<sup>®</sup> treatment. Each of the collected soil samples was submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX concentrations were less than the appropriate laboratory MDL in each of the submitted soil samples. TPH concentration ranged from 4,984 ppm for soil sample Past. WC #1 to 20,280 ppm for soil sample Past. WC #2. Chloride concentrations ranged from less than the laboratory MDL for soil samples Past. WC #1 and Past. WC #3 to 32.0 ppm for soil sample Past. WC #2.

On December 12, 2014, Basin began excavating impacted soil on the caliche well pad at the release site. The excavation sidewalls were advanced until field test results suggested concentrations of BTEX, TPH and chloride were less than NMOCD regulatory guidelines. The floor of the excavation was advanced until field test results suggested concentrations of BTEX, TPH and chloride were less than NMOCD regulatory guidelines or three feet (3') bgs, whichever was less. Excavated soil was stockpiled on-site, pending final disposition.

On December 15, 2014, nine (9) confirmation soil samples (NSW #1, SSW #1, ESW #1, ESW #2, ESW #3, E. Floor #1, E. Floor #2, E. Floor #3 and E. Floor #4) were collected from the excavated area and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory MDL for soil samples ESW #2, E. Floor #3 and E. Floor #4 to 352 ppm for soil sample SSW #1. Soil sample E. Floor #3 was also analyzed for concentrations of BTEX and TPH, which were determined to be less than the appropriate laboratory MDL. The excavation was advanced toward the west.

On December 17, 2014, four (4) confirmation soil samples (NOFL NSW #2, NOFL N. Floor #2, NOWH Floor #1 and NOWH Floor #2) were collected from the excavated area and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 128 ppm for soil sample NOFL NSW #2 to 1,340 ppm for soil sample NOWH Floor #1. Soil sample NOWH Floor #2 was also analyzed for concentrations of BTEX and TPH, which were determined to be less than the appropriate laboratory MDL. The excavation was advanced toward the west.

On December 18, 2014, six (6) confirmation soil samples (NFL S. Floor #3, NFL SSW #3, NFL N. Floor #3, NFL NSW #3, NFL WSW #1 and NFL W. Floor #1) were collected from the excavated area and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory MDL for soil sample NFL N. Floor #3 to 512 ppm for soil sample NFL W. Floor #1. Soil sample NOWH Floor #2 was also analyzed for concentrations of BTEX and TPH, which were determined to be less than the appropriate laboratory MDL. The excavation was advanced toward the west.

On December 19, 2014, three (3) confirmation soil samples (NOFL WSW #2, NOFL SSW #4 and NOFL S. Floor #4) were collected from the excavated area and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory MDL for soil samples NOFL SSW #4 and NOFL S. Floor #4 to 256 ppm for soil sample NOFL WSW #2.

In addition, a delineation trench (TT-1) was advanced in the area characterized by soil sample NOWH Floor #1. During the advancement of the delineation trench, three (3) soil samples (TT-1 @ 4', TT-1 @ 6' and TT-1 @ 8') were collected and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 1,040 ppm for soil sample TT-1 @ 4' to less than the laboratory MDL for soil sample TT-1 @ 12'. Excavation activities continued on the south side of the flow line.

On January 5, 2015, four (4) soil samples (SFL WSW #1, SFL SSW #2, SFL W. Floor #1 and SFL S. Floor #2) were collected from the excavated area and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory MDL for soil samples SFL W. Floor #1 and SFL S. Floor #2 to 320 ppm for soil sample SFL WSW #1.

On January 7, 2015, three (3) confirmation soil samples (SFL WSW #2, SFL SSW #3 and SFL S. Floor #3) were collected from the excavated area and submitted to the laboratory for analysis

of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 304 ppm for soil sample SFL S. Floor #3 to 752 ppm for soil sample SFL WSW #2.

On January 8, 2015, a twenty-millimeter (20-mm) polyethylene liner measuring one hundred feet (100') by one hundred feet (100') was placed on the floor of the excavation around the well head. The liner was extended over areas exhibiting chloride concentrations above NMOCD regulatory guidelines characterized by soil samples NOWH Floor #1 and TT-1 @ 4'. This engineering control was designed to inhibit the vertical migration of contaminants left in-situ as well as mitigate and future releases. A one-foot (1') layer of pad-sand was installed above and below the liner to help maintain its integrity during backfilling activities. Upon installing polyethylene liner, the excavation was backfilled with locally purchase, non-impacted material.

On January 14, 2015, six (6) soil samples (WC #1a @ Surf., WC #1a @ 6", WC #2a @ Surf., WC #2a @ 6", WC #3a @ Surf. and WC #3a @ 6") were collected from the "worst case" areas within the affected pasture to measure the effects of the Micro- Blaze<sup>®</sup> treatment. Each of the collected soil samples was submitted to the laboratory for analysis of TPH concentrations. Laboratory analytical results indicated TPH concentration ranged from 88.6 ppm for soil sample WC #1a @ Surf. to 5,170 ppm for soil sample WC #3a @ Surf. Soil samples WC #1a @ Surf., WC #2a @ Surf. and WC #3a @ Surf. were also analyzed for concentrations of BTEX, which were determined to be less than the appropriate laboratory MDL. Soil samples WC #1a @ 6", WC #2a @ 6" and WC #3a @ 6" were analyzed for concentration of chloride, which were determined to be less than the laboratory MDL. Laboratory analytical results suggest hydrocarbon impacted soils within the affected pasture area appear to be naturally attenuating.

Between December 17, 2014, and January 13, 2015, approximately two thousand, seven hundred eighty cubic yards  $(2,780 \text{ yd}^3)$  of impacted material was transported to Lea Land, Inc. (NMOCD Permit #WM-01-035), for disposal. The final dimensions of the excavation on the south side of the pump jack were twenty-five (25) to thirty feet (30') in width, two hundred feet (200') in length and four feet (4') in depth. The final dimensions of the excavation on the north side of the pump jack were twenty-five (25) to thirty-five feet (35') in width, two hundred feet (200') in length and four feet (4') in depth.

Check for vegetative growth. Resample pasture in spring?

## 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 excavated area on the PLU #347H well pad were analyzed by an NMOCD-approved laboratory, which determined concentrations of BTEX, TPH and chloride were less than NMOCD regulatory guidelines in each of the submitted soil samples, with the exception of soil samples NOWH Floor #1 and TT-1 @ 4'. A twenty-millimeter (20-mm) polyethylene liner was installed in the floor of the excavation atop affected soil exhibiting chloride concentrations above NMOCD regulatory guidelines in the areas represented by soil samples NOWH Floor #1 and TT-1 @ 4'. Laboratory analytical results from soil samples collected from the affected pasture suggests that the area was not effected by chloride and that the hydrocarbon impacted soils are naturally attenuating. Based on these laboratory analytical results and the installation of an approved engineering control, Basin recommends BOPCO provide the NMOCD Artesia District Office and the BLM a copy of this *Remediation Summary and Risk-Based Site Closure Request* and request the NMOCD grant site closure to the PLU #347H release site.

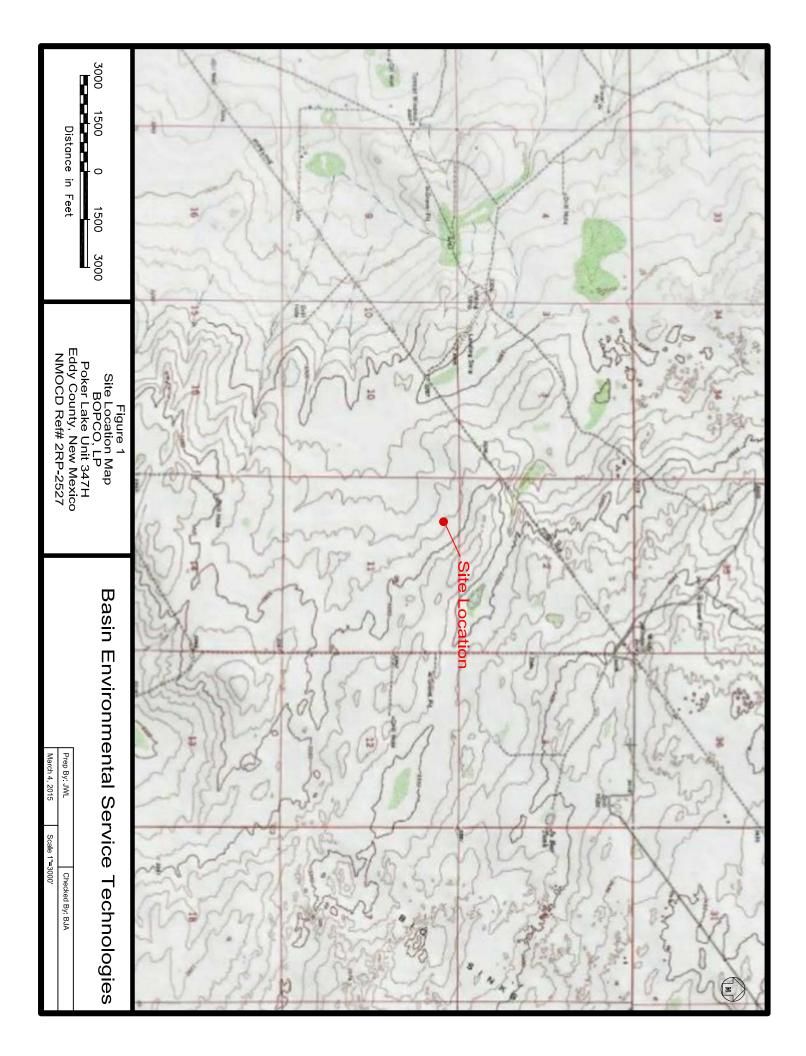
## 6.0 LIMITATIONS

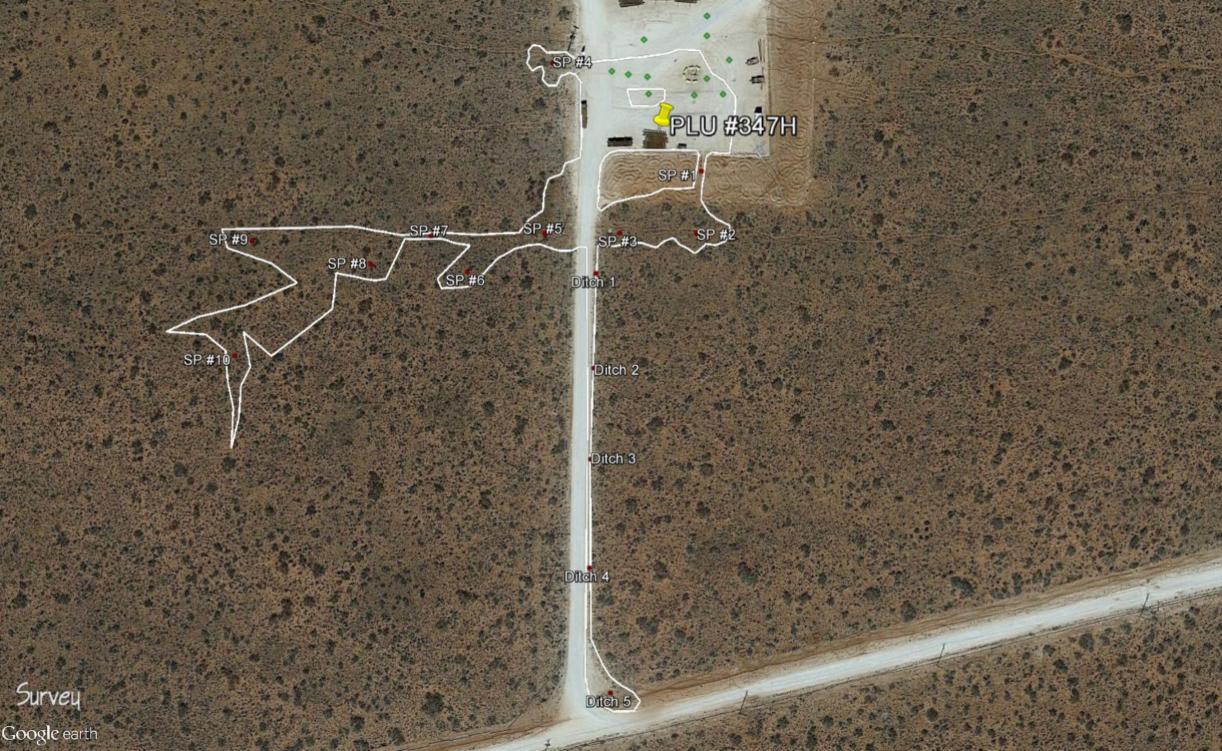
Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary and Risk-Based Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin has examined and relied upon documents referenced in the report and on oral statements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

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

## 7.0 **DISTRIBUTION:**

- Copy 1: Mike Bratcher New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division (District 2) 1301 E. Grand Avenue Artesia, NM 88210
- Copy 2: James Amos Bureau of Land Management 602 E. Greene Street Carlsbad, New Mexico 88220
- Copy 3: Tony Savoie BOPCO, LP 522 W. Mermod, Suite 704 Carlsbad, NM 88220
- Copy 4: Basin Environmental Service Technologies, LLC P.O. Box 301 Lovington, NM 88260







October 03, 2014

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

RE: PLU #347 H

Enclosed are the results of analyses for samples received by the laboratory on 09/30/14 10:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	09/30/2014	Sampling Date:	09/24/2014
Reported:	10/03/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: DITCH 1 SURFACE (H402975-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/01/2014	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	10.7	10.0	10/01/2014	ND	192	96.2	200	3.58	
DRO >C10-C28	2500	10.0	10/01/2014	ND	206	103	200	2.67	
EXT DRO >C28-C35	464	10.0	10/01/2014	ND					
Surrogate: 1-Chlorooctane	105	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	213	% 52.1-17	6						

## Sample ID: DITCH 1 @ 6" (H402975-02)

TPH 8015M	mg/k	g	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/01/2014	ND	192	96.2	200	3.58	
DRO >C10-C28	55.4	10.0	10/01/2014	ND	206	103	200	2.67	
EXT DRO >C28-C35	18.2	10.0	10/01/2014	ND					
Surrogate: 1-Chlorooctane	93.2 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	101 %	52.1-17	6						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/30/2014	Sampling Date:	09/24/2014
Reported:	10/03/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: DITCH 2 @ SURFACE (H402975-03)

Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/01/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	124	10.0	10/01/2014	ND	192	96.2	200	3.58	
DRO >C10-C28	5860	10.0	10/01/2014	ND	206	103	200	2.67	
EXT DRO >C28-C35	1140	10.0	10/01/2014	ND					
Surrogate: 1-Chlorooctane	128	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	191	52.1-17	6						

## Sample ID: DITCH 2 @ 6" (H402975-04)

TPH 8015M	mg/k	(g	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/01/2014	ND	192	96.2	200	3.58	
DRO >C10-C28	331	10.0	10/01/2014	ND	206	103	200	2.67	
EXT DRO >C28-C35	71.7	10.0	10/01/2014	ND					
Surrogate: 1-Chlorooctane	94.2 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	111 %	52.1-17	6						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/30/2014	Sampling Date:	09/24/2014
Reported:	10/03/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: DITCH 3 @ SURFACE (H402975-05)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/01/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/01/2014	ND	192	96.2	200	3.58	
DRO >C10-C28	16.9	10.0	10/01/2014	ND	206	103	200	2.67	
EXT DRO >C28-C35	<10.0	10.0	10/01/2014	ND					
Surrogate: 1-Chlorooctane	92.1	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	103	% 52.1-17	6						

## Sample ID: DITCH 3 @ 6" (H402975-06)

TPH 8015M	mg/l	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/01/2014	ND	192	96.2	200	3.58	
DRO >C10-C28	11.0	10.0	10/01/2014	ND	206	103	200	2.67	
EXT DRO >C28-C35	<10.0	10.0	10/01/2014	ND					
Surrogate: 1-Chlorooctane	93.8 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	101 %	52.1-17	6						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/30/2014	Sampling Date:	09/24/2014
Reported:	10/03/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: DITCH 4 @ SURFACE (H402975-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/01/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/01/2014	ND	194	97.2	200	4.49	
DRO >C10-C28	<10.0	10.0	10/01/2014	ND	208	104	200	6.33	
EXT DRO >C28-C35	<10.0	10.0	10/01/2014	ND					
Surrogate: 1-Chlorooctane	91.3	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	96.5	% 52.1-17	6						

## Sample ID: DITCH 4 @ 6" (H402975-08)

TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/01/2014	ND	194	97.2	200	4.49	
DRO >C10-C28	18.1	10.0	10/01/2014	ND	208	104	200	6.33	
EXT DRO >C28-C35	<10.0	10.0	10/01/2014	ND					
Surrogate: 1-Chlorooctane	92.2 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	95.2 9	52.1-17	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	09/30/2014	Sampling Date:	09/24/2014
Reported:	10/03/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: DITCH 5 @ SURFACE-WC (H402975-09)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/01/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/01/2014	ND	194	97.2	200	4.49	
DRO >C10-C28	589	10.0	10/01/2014	ND	208	104	200	6.33	
EXT DRO >C28-C35	145	10.0	10/01/2014	ND					
Surrogate: 1-Chlorooctane	94.3	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	121	% 52.1-17	6						

## Sample ID: DITCH 5 @ 6" (H402975-10)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/01/2014	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/01/2014	ND	194	97.2	200	4.49	
DR0 >C10-C28	4060	10.0	10/01/2014	ND	208	104	200	6.33	
EXT DRO >C28-C35	978	10.0	10/01/2014	ND					
Surrogate: 1-Chlorooctane	88.9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	165	% 52.1-17	6						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	09/30/2014	Sampling Date:	09/24/2014
Reported:	10/03/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: WP #3 SURFACE (H402975-11)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/01/2014	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/01/2014	ND	194	97.2	200	4.49	
DR0 >C10-C28	3870	10.0	10/01/2014	ND	208	104	200	6.33	
EXT DRO >C28-C35	1000	10.0	10/01/2014	ND					
Surrogate: 1-Chlorooctane	94.4	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	171	% 52.1-17	6						

## Sample ID: WP #3 @ 6" (H402975-12)

TPH 8015M	mg/l	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/01/2014	ND	194	97.2	200	4.49	
DRO >C10-C28	10.5	10.0	10/01/2014	ND	208	104	200	6.33	
EXT DRO >C28-C35	27.2	10.0	10/01/2014	ND					
Surrogate: 1-Chlorooctane	96.9 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	103 %	52.1-17	6						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	09/30/2014	Sampling Date:	09/24/2014
Reported:	10/03/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: WP #4 SURFACE (H402975-13)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/01/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/01/2014	ND	194	97.2	200	4.49	
DRO >C10-C28	150	10.0	10/01/2014	ND	208	104	200	6.33	
EXT DRO >C28-C35	57.1	10.0	10/01/2014	ND					
Surrogate: 1-Chlorooctane	96.2	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	102	% 52.1-17	6						

## Sample ID: WP #4 @ 6" (H402975-14)

TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/01/2014	ND	194	97.2	200	4.49	
DRO >C10-C28	<10.0	10.0	10/01/2014	ND	208	104	200	6.33	
EXT DRO >C28-C35	<10.0	10.0	10/01/2014	ND					
Surrogate: 1-Chlorooctane	96.3 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	<i>99.2</i> 9	% 52.1-17	6						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	09/30/2014	Sampling Date:	09/24/2014
Reported:	10/03/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: SP #1 @ SURFACE (H402975-15)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/01/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/01/2014	ND	194	97.2	200	4.49	
DRO >C10-C28	1490	10.0	10/01/2014	ND	208	104	200	6.33	
EXT DRO >C28-C35	321	10.0	10/01/2014	ND					
Surrogate: 1-Chlorooctane	102	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	130	% 52.1-17	6						

## Sample ID: SP #1 @ 18" (H402975-16)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/01/2014	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/02/2014	ND	194	97.2	200	4.49	
DRO >C10-C28	<10.0	10.0	10/02/2014	ND	208	104	200	6.33	
EXT DRO >C28-C35	11.9	10.0	10/02/2014	ND					
Surrogate: 1-Chlorooctane	94.4	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	106	% 52.1-17	6						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	09/30/2014	Sampling Date:	09/24/2014
Reported:	10/03/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: SP #2 @ SURFACE (H402975-17)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/01/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/02/2014	ND	194	97.2	200	4.49	
DRO >C10-C28	3230	10.0	10/02/2014	ND	208	104	200	6.33	
EXT DRO >C28-C35	777	10.0	10/02/2014	ND					
Surrogate: 1-Chlorooctane	95.5	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	145	% 52.1-17	6						

## Sample ID: SP #2 @ 6" (H402975-18)

TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/02/2014	ND	194	97.2	200	4.49	
DRO >C10-C28	16.2	10.0	10/02/2014	ND	208	104	200	6.33	
EXT DRO >C28-C35	24.7	10.0	10/02/2014	ND					
Surrogate: 1-Chlorooctane	85.6 %	47.2-15	7						
Surrogate: 1-Chlorooctadecane	88.2 %	52.1-17	6						

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Received:	09/30/2014	Sampling Date:	09/24/2014
Reported:	10/03/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: SP #3 @ SURFACE (H402975-19)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/01/2014	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/02/2014	ND	194	97.2	200	4.49	
DRO >C10-C28	13.3	10.0	10/02/2014	ND	208	104	200	6.33	
EXT DRO >C28-C35	<10.0	10.0	10/02/2014	ND					
Surrogate: 1-Chlorooctane	97.0	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	101	% 52.1-17	6						

## Sample ID: SP #3 @ 18" (H402975-20)

TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/02/2014	ND	194	97.2	200	4.49	
DRO >C10-C28	<10.0	10.0	10/02/2014	ND	208	104	200	6.33	
EXT DRO >C28-C35	<10.0	10.0	10/02/2014	ND					
Surrogate: 1-Chlorooctane	99.2 %	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	103 %	6 52.1-17	6						

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Reported:	10/03/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: SP #4 SURFACE (H402975-21)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/01/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/02/2014	ND	194	97.2	200	4.49	
DRO >C10-C28	85.7	10.0	10/02/2014	ND	208	104	200	6.33	
EXT DRO >C28-C35	24.7	10.0	10/02/2014	ND					
Surrogate: 1-Chlorooctane	86.5 \$	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	94.9 \$	% 52.1-17	6						

## Sample ID: SP #4 @ 6" (H402975-22)

TPH 8015M	mg/k	g	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/02/2014	ND	194	97.2	200	4.49	
DRO >C10-C28	22.7	10.0	10/02/2014	ND	208	104	200	6.33	
EXT DRO >C28-C35	<10.0	10.0	10/02/2014	ND					
Surrogate: 1-Chlorooctane	96.8 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	106 %	52.1-17	6						

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Received:	09/30/2014	Sampling Date:	09/24/2014
Reported:	10/03/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: SP #5 SURFACE (H402975-23)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/01/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	58.5	10.0	10/02/2014	ND	194	97.2	200	4.49	
DRO >C10-C28	4940	10.0	10/02/2014	ND	208	104	200	6.33	
EXT DRO >C28-C35	938	10.0	10/02/2014	ND					
Surrogate: 1-Chlorooctane	113 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	171 9	52.1-17	6						

## Sample ID: SP #5 @ 6" (H402975-24)

TPH 8015M	mg/l	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/02/2014	ND	194	97.2	200	4.49	
DRO >C10-C28	251	10.0	10/02/2014	ND	208	104	200	6.33	
EXT DRO >C28-C35	71.1	10.0	10/02/2014	ND					
Surrogate: 1-Chlorooctane	95.3 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	103 %	52.1-17	6						

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Received:	09/30/2014	Sampling Date:	09/24/2014
Reported:	10/03/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: SP #6 SURFACE (H402975-25)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/01/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	516	100	10/02/2014	ND	194	97.2	200	4.49	
DR0 >C10-C28	15000	100	10/02/2014	ND	208	104	200	6.33	
EXT DRO >C28-C35	2570	100	10/02/2014	ND					
Surrogate: 1-Chlorooctane	208 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	396 9	% 52.1-17	6						

## Sample ID: SP #6 @ 6" (H402975-26)

TPH 8015M	mg/k	g	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/02/2014	ND	194	97.2	200	4.49	
DRO >C10-C28	502	10.0	10/02/2014	ND	208	104	200	6.33	
EXT DRO >C28-C35	89.8	10.0	10/02/2014	ND					
Surrogate: 1-Chlorooctane	98.0 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	110 %	52.1-17	6						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	09/30/2014	Sampling Date:	09/24/2014
Reported:	10/03/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: SP #7 SURFACE (H402975-27)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/01/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	372	100	10/02/2014	ND	176	87.8	200	8.19	
DR0 >C10-C28	12200	100	10/02/2014	ND	183	91.5	200	7.74	
EXT DRO >C28-C35	2180	100	10/02/2014	ND					
Surrogate: 1-Chlorooctane	183 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	314 9	% 52.1-17	6						

## Sample ID: SP #7 @ 6" (H402975-28)

TPH 8015M	mg/l	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/02/2014	ND	176	87.8	200	8.19	
DRO >C10-C28	48.3	10.0	10/02/2014	ND	183	91.5	200	7.74	
EXT DRO >C28-C35	19.8	10.0	10/02/2014	ND					
Surrogate: 1-Chlorooctane	97.5 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	104 %	52.1-17	6						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/30/2014	Sampling Date:	09/24/2014
Reported:	10/03/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: SP #8 SURFACE (H402975-29)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/01/2014	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/02/2014	ND	176	87.8	200	8.19	
DRO >C10-C28	405	10.0	10/02/2014	ND	183	91.5	200	7.74	
EXT DRO >C28-C35	101	10.0	10/02/2014	ND					
Surrogate: 1-Chlorooctane	99.6	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	125	% 52.1-17	6						

## Sample ID: SP #8 @ 6" (H402975-30)

ТРН 8015М	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/02/2014	ND	176	87.8	200	8.19	
DRO >C10-C28	<10.0	10.0	10/02/2014	ND	183	91.5	200	7.74	
EXT DRO >C28-C35	<10.0	10.0	10/02/2014	ND					
Surrogate: 1-Chlorooctane	102 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	104 9	52.1-17	6						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/30/2014	Sampling Date:	09/24/2014
Reported:	10/03/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: SP #9 SURFACE-WC (H402975-31)

Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/01/2014	ND	416	104	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	137	100	10/02/2014	ND	176	87.8	200	8.19	
DRO >C10-C28	13300	100	10/02/2014	ND	183	91.5	200	7.74	
EXT DRO >C28-C35	2600	100	10/02/2014	ND					
Surrogate: 1-Chlorooctane	rrogate: 1-Chlorooctane 133 % 47.2-								
Surrogate: 1-Chlorooctadecane 703 % 52.1-1			6						

## Sample ID: SP #9 @ 6" (H402975-32)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/01/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/02/2014	ND	176	87.8	200	8.19	
DRO >C10-C28	370	10.0	10/02/2014	ND	183	91.5	200	7.74	
EXT DRO >C28-C35	86.0	10.0	10/02/2014	ND					
Surrogate: 1-Chlorooctane	89.5	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	99.3	% 52.1-17	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/30/2014	Sampling Date:	09/24/2014
Reported:	10/03/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: SP #10 SURFACE (H402975-33)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/01/2014	ND	416	104	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/02/2014	ND	176	87.8	200	8.19	
DRO >C10-C28	57.6	10.0	10/02/2014	ND	183	91.5	200	7.74	
EXT DRO >C28-C35	17.9	10.0	10/02/2014	ND					
Surrogate: 1-Chlorooctane	97.9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane		52.1-17	6						

## Sample ID: SP #10 @ 6" (H402975-34)

TPH 8015M	mg/k	g	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/02/2014	ND	176	87.8	200	8.19	
DRO >C10-C28	32.1	10.0	10/02/2014	ND	183	91.5	200	7.74	
EXT DRO >C28-C35	11.1	10.0	10/02/2014	ND					
Surrogate: 1-Chlorooctane	93.8 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	103 %	52.1-17	6						

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Celeg D. Keine

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.
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

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Ison 301     State:     NM     Zip:     B82200     Address:     S2     S2     Main       PUB3717     Fax #:     (F7)980-1429     Address:     S2     Ninhad     Project Owner:     For Sister     Project Owner:     Project Owner: <th></th> <th></th> <th></th> <th>Statement of the local division of the local</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>				Statement of the local division of the local						
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Inc.       Lole Lowy       P.O. #:       Company:       BOPCOLIP         Ins.       Fax #:       (57)396-1429       Address:       52.W. Maind         PUL#37H       Fax #:       (37)56-373       Fax #:       (37)56-373         Pul#37H       Fax #:       Fax #:       (37)56-373       Fax #:       (37)56-373         Pul#37       Fax #:       Fax #:       Fax #:       (37)56-373       Fax #:       (37)56-373         Pul#37       Gitcl Curver       Fax #:       Gitcl Curver       Fax #:       (37)4       Fax #:				Initials)		Cool Intact		4	•	Sampler - UPS - B
Project Owner:       For #       Company: Endy Co, NM       BOPCO, LP         PU #347H       Fax #: (575)36-1429       Address: For % Save Project Owner:       City: Fax #: (575)36-1429       Address: For % Save Project Owner:       City: Fax #: For % Save Project Owner:       City: Fax #: Fax #: Fax #: Fax #: Fax #: Dide 1 Surf       Project Owner:       Fax #: Fax #: Fax #: Fax #: Dide 1 Surf       Fax #: Fax #: Fax #: Dide 1 Surf       Project Owner:       Fax #: Fax #: Fax #: Dide 1 Surf       Fax #: Fax #: F	et.com & SJWalters@BassPet.com	e@BassPe	TASavoi	ECKED BY:	3	Sample Conditi			ircle One)	Delivered By: (C
Project Owner:       Project Owner:       Company:       BOPCO, LP         PUU#347H       State: NM       Zip:       88260       Attn::       Tony Savie         PUU#347H       Froject Owner:       City:       Carlot Savie       BoPCO, LP         PUU#347H       Froject Owner:       City:       Carlot Savie       BoPCO, LP         PUU#347H       Froject Owner:       City:       Carlot Savie       BoPCO, LP         PUU#347H       Savie:       NM       Zip:       Savie:       City:       Carlot Savie         PUU#347H       Froject Owner:       Faxie:       NM       Zip:       Carlot Savie       BoPCO, LP         No       Faxie:       NM       Zip:       Carlot Savie       BoPCO, LP       Savie:       Carlot Savie       BoPCO, LP       Savie:       Savie:       Carlot Savie       BoPCO, LP       Savie:       BoPCO, LP	s to pm@basinenv.com,	mail result	Please e					Time:	l	
Provide	HOI D FOR TPH					By:	eceived		_	Relinquished By:
Image:     Joid Lowy       i:     P:O. Bx 301     State: NM     Zip:     88200     Ath::     Tony Savole       i::     Final #:     Pinal #:     Signa #:     Signa #:     Signa #:     Signa #:       i::     Final #:     Final #:     Signa #:     Signa #:     Signa #:     Signa #:       i::     Final #:     Final #:     Signa #:     Signa #:     Signa #:     Signa #:       i::     Final #:     Signa #:     Signa #:     Signa #:     Signa #:     Signa #:       i::     Final #:     Signa #:     Signa #:     Signa #:     Signa #:     Signa #:       i::     Sample I.D.     Sample I.D.     MARX     Final #:     Signa #:     Signa #:       i::     Ditch 1 Surf     g     g     1     X     Signa #:     Signa #:       i::     Ditch 1 @ 6"     g     g     1     X     Signa #:     Signa #:       g::     Ditch 3 @ Surf     g     1     X     Signa #:     Signa #:     Signa #:       g::     Ditch 3 @ Surf     g     1     X     Signa #:     Signa #:     Signa #:     Signa #:     Signa #:       g::     Ditch 3 @ Surf     g     1     X     Signa #:     Sig			REMARKS:	P (	ens	the r	20			for lor
Inanger:         Joel Lowy         PO.#:         Company:         BOPCO, IP           Company:         State:         NM <zip:< td="">         88260         Attr:         Tony Savole           (575)396-2378         Fax#:         (575)396-1429         Address:         522.W. Marland         Tony Savole           (575)396-2378         Fax#:         (575)396-1429         Address:         522.W. Marland         Tony Savole           (575)396-2378         Fax#:         (575)396-1429         Address:         522.W. Marland         S22.W. Marland           (anne:         PUJ#371H         State:         NM<zip:< td="">         522.W. Marland         S22.W. Marland           (anne:         FUJ#371H         State:         NM<zip:< td="">         S22.W. Marland         S22.W. Marland           (anne:         FUJ#371H         State:         NM<zip:< td="">         S22.W. Marland         S22.W. Marland           (anne:         FUJ#371H         State:         NM<zip:< td="">         S22.W. Marland         S22.W. Marland           (anne:         FUJ#371H         State:         NM<zip:< td="">         S22.W. Marland         S22.W. Marland&lt;</zip:<></zip:<></zip:<></zip:<></zip:<></zip:<>	No		Phone Result: Fax Result:			By:	eceived			n n
Inanager:         Joel Lowry         P.O. #:         Company:         BOPCO, LP           Company:         State:         NM         Zip:         88260         Attn:         Tony Savole           (575)396-2378         Fax #:         (575)396-1429         Address:         S2W. Marland         Tony Savole           (575)396-2378         Fax #:         (575)396-1429         Address:         S2W. Marland         Tony Savole           (575)396-2378         Fax #:         (575)396-1429         Address:         S2W. Marland         Tony Savole           (575)396-2378         Fax #:         (575)396-1429         Address:         S2W. Marland         S2W. Marland           (575)396-2378         Fax #:         (575)396-1429         Address:         S2W. Marland         S2W. Marland           (575)396-2378         Fax #:         (575)396-1429         Marlan         Fax #:         (432)556-8739           (575)396-2378         Fax #:         (575)396-1429         Marlan         Fax #:         (432)556-8739           (D)         Ditch 1 Surf         (9)         (1)         Marlan         Fax #:         (432)556-8739           (1)         Ditch 1 Surf         (9)         (1)         Addresse:         (1)         (1)			, its subsidiaries, is or otherwise.	of profits incurred by client, of the above stated reason	ss of use, or loss o based upon any o	whether such claim is	t limitation, bus	f services hereunder by Cardina	of or related to the performance of	affiliates or successors arising out
Anarager:       Joel Lowry       Pol. #:       Company:       BOPC0. LP         Lovington       State:       NM       Zip:       88260       Attn:       Torry Savele         ame:       PU#347H       Fax #: (575)396-1429       Address:       S22W. Mariand       Fax #: (375)396-1429         ame:       PU#347H       Project Owner:       City:       State:       NM       Zip:       88220         amme:       Var (CL/Avc       Project Owner:       City:       State:       NM       Zip:       88220         Name:       Var (CL/Avc       Project Owner:       Fax #: (373)56-84730       Fax #: (433)56-84730       Fax #: (433)56-84730         Name:       Var (CL/Avc       Fax #: (373)56-120       Project Owner:       Fax #: (433)56-84730       Fax #: (433)56-84730         Name:       Var (CL/Avc       Fax #: (373)56-84730       Fax #: (433)56-84730       Fax #: (433)56-84730       Fax #: (433)56-84730         Anticity:       Var (CL/Avc       Fax #: (373)56-100       Fax #: (433)56-84730       Fax #: (433)56-84730       Fax #: (433)56-84730         Anticity:       Ditch 1 Suff       G       GOUNDWATER       Fax #: (433)56-84730       Fax #: (433)56-84730       Fax #: (433)56-84730         Anticity:       Ditch 2 @ Suff       GOUNDWATE		able	the client for the mpletion of the applica	al within 30 days after cor	r tort, shall be limit received by Cardin	s made in writing and i	n ansing wheth d waived unles	use whatsoever shall be deeme	e for negligence and any other ca	analyses. All claims including thos
Joel Lowy         P.O. #:         Company: Company: Hours:         Dev. #:           396-2378         Fax #: (575)396-1429         Address: Fax #: (575)396-1429         Address: Address: S22 W. Marland           PLU #347H         Fax #: (575)396-1429         Address: Fax #: (575)396-1429         State: NM Zip: B0PCO.LP City: Carlsbad           Eddy Co., NM         Fax #: (575)396-1429         Address: Fax #: (575)396-1429         State: NM Zip: B0PCO.LP S22W. Marland           Eddy Co., NM         Fax #: (575)396-1429         Project Owner: Fax #: (432)556-8730         Chioside           Eddy Co., NM         Ditch 1 Surf         (6) RAB OR (C)OMP. (G) RAB OR (C)OMP. Ditch 1 @ G''         Fax #: (432)556-8730         State: NM Zip: B0PCO.LP Proseerv. Fax #: (432)556-8730           Ditch 1 @ Urf         @ f 1         X         Fax #: (1000 BC         State: NM Zip: B0PCO.LP Proseerv. Soll         State: NM Zip: B0PCO.LP Proseerv. (432)556-8730           Ditch 1 @ G''         g 1         X         State: NM Zip: B0PCO.LP Proseerv. Ditch 2 @ Surf         g 1         X         9328/14         1000         X         X           Ditch 1 @ Surf         g 1         X         I         X         9328/14         1000         X         X         X         X         I         I         I           Ditch 2 @ Surf         g 1         X         <			-	9/28/14	×	×	1	0 6"	Ditch 5 (0	PLEASE NOTE: Liability and Dam
Joel Lowy         P.O. #:         Company: Company: Box 301         BOPCO, LP           396-2378         Fax #: (575)396-1429         Address: Fax #: (575)396-1429         Address: S22.V. Marland           Project Owner:         City:         Carlsbad           Box 301         Fax #: (575)396-1429         Address: S22.V. Marland           Project Owner:         City:         Carlsbad           Project Owner:         Fax #:         City:         Carlsbad           Phone #:         (432)566-8730         Fax #:         Fax #:           Sample I.D.         BOR (C)OMP.         Fax #:         Fax #:           Ditch 1 Surf         G 1         G ROUNDWATER         Fax #:         Chloride           Ditch 1 Q 6"         G 1         G ROUNDWATER         MATER:         Chloride           Ditch 2 Q Surf         G 1         X         X         9/2#14         1000         X         X           Ditch 4 Q 6"         G 1         X         X         Y         Y         X         X         X         X           Ditch 4 Q 6"         G 1         X         Y         Y         X         X         X         X         X         X           Ditch 1 X         G 1         X		-	-	9/28/14	×	×	-		Ditch 5 (0) Si	5-1
Joel Lowy         P.O. #:         Company:         BOPCO, LP           396-2378         Fax #: (575)396-1429         Address:         522 W. Marland           Project Owner:         Fax #: (575)396-1429         Address:         522 W. Marland           Project Owner:         Fax #: (575)396-1429         Address:         522 W. Marland           Project Owner:         Fax #: (575)396-1429         Fax #: (575)396-1429         Fax #: Carlabad           Project Owner:         Fax #: (575)396-1429         State: NM         Zip:         Gardress:           Eddy Co., NM         Fax #: (575)396-1429         Phone #: (432)556-8730         Fax #: (432)556-8730         Fax #: (575)396-1429           Sample I.D.         MATRX         PRESERV         SampLing         Fax #: (575)396-1429         Phone #: (432)556-8730           Ditch 1 Surf         G ROUNDWATER         MATRX         PRESERV         SampLing         Fax #: (575)396-1429           Ditch 2 @ Surf         g 1         4         S OIL         DATE         TIME         Chloride           Ditch 2 @ Surf         g 1         4         X         9/28/14         1010         X         X         1           Ditch 2 @ Surf         g 1         X         1         X         9/28/14         1010		1 ×	1035	9/20/14	×	×	-		Ditch 4 (	29
Joel Lowy         P.O. #:         Company:         BOPCO, LP           396-2378         Fax #: (575)396-1429         Attn::         Tony Savoie           396-2378         Fax #: (575)396-1429         Attn::         Tony Savoie           PIU #347H         Fax #: (575)396-1429         Attr::         Tony Savoie           Box 301         Fax #: (575)396-1429         Attr::         Tony Savoie           PIU #347H         Fax #: (575)396-1429         Attr::         City::         Carlsbad           PEddy Co., NM         Fax #: (575)396-1429         Marrax         Phone #: (432)566-8730         Phone #: (432)566-8730           Pibe:         Fax #:         Fax #:         (432)566-8730         Phone #: (432)566-8730           Ditch 1 Sunf         GIRAB OR (C)OMP.         Fax #:         Fax #: (432)566-8730         Preserv           Ditch 1 Sunf         GIRAB OR (C)OMP.         Fax #:         (432)566-8730         Preserv         Sample I.D.           Ditch 1 Sunf         GIRAB OR (C)OMP.         Fax #:         TIME         Finate:         MPU           Ditch 2 @ Sunf         g         1         X         OIL         DATE         TIME           Ditch 3 @ Sunf         g         1         X         OIL         DATE         Fa				9/28/14	×	×	-		Uitch 4 @	2-
Joel Lowry       P.O. #:       Company:       BOPCO, LP         306-2378       Fax #: (375)396-14229       Address:       522 W. Marland         Project Owner:       Fax #: (575)396-14229       Address:       522 W. Marland         Project Owner:       Fax #: (575)396-14229       State: NM Zip:: 88220       State: NM Zip:: 88220         Eddy Co., NM       Fax #:       Chips::       Carlsbad         Project Owner:       Fax #:       Fax #:       Yes         Sample I.D.       MATRIX       Preservi       Samplung         Ditch 1 Surf       g       4       GROUNDWATER       ACID/BASE:         Ditch 1 Surf       g       1       X       SUDGE       TPH (8015M)         BTEX (8021B)       Ditch 1 @ 6"       g       1       X       9128/14       1000       X       X         Ditch 2 @ Surf       g       1       X       9128/14       1010       X       X       1       1       X         Ditch 2 @ Surf       g       1       X       9128/14       1010       X       X       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1		1 ×	1025	9/28/14	×	×	-		Ditch 3 (	16
Joel Lowry       P.O. #:       Company:       BOPCO, LP         Box 301       State: NM       Zip:       88260       Attn:       Tony Savoie         386-2378       Fax #:       (575)396-1429       Address:       522 W. Marland         Project Owner:       Project Owner:       City:       Carlsbad         PLU #347H       Project Owner:       State: NM       Zip:       88220         Eddy Co., NM       Project Owner:       Fax #:       Carlsbad         PLU #347H       Fax #:       Carlsbad       102566-8730         Project Owner:       Fax #:       Fax #:       Carlsbad         Phone #:       (432)566-8730       Project Owner:       Fax #:         Sample I.D.       GROUNDWATER       PRESERV       Samplus       Fax #:         Ditch 1 Surf       G       GROUNDWATER       MATRIX       PRESERV       Samplus         Ditch 2 @ Surf       g       1       x       Soil L       State:       TPH (8015M)         BTEX (8021B)       HOLD FOR TPH       1000       x       x       State:       x       x         Ditch 2 @ Surf       g       1       x       91/2414       1010       x       x         BTEX (8021B) <td></td> <td></td> <td>-</td> <td>9/28/14</td> <td>×</td> <td>×</td> <td></td> <td></td> <td>Ditch 3 @</td> <td>- 6</td>			-	9/28/14	×	×			Ditch 3 @	- 6
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Joel Lowry     P.O. #:       Box 301     State: NM Zip: 88260       Project Owner:     Fax #: (575)396-1429       Project Owner:     Project Owner:       Project Owner:     Carlsbad       Project Owner:     Carlsbad       Project Owner:     State: NM Zip: 88260       Kith:     Tony Savoie       Box 301     Address:       Sample I.D.     State: NM Zip: 88220       (G)RAB OR (C)OMP.     State: NM Zip: 88220       Phone #:     (432)556-8730       OIL     Fax #:       SoilL     Fax #:       OIL     Fax #:       (G)RAB OR (C)OMP.     Fax #:       # CONTAINERS     PRESERV.       SoilL     Fax #:       (G)RAB OR (C)OMP.     Fax #:       # CONTAINERS     PRESERV.       SoilL     SoilL       SoilL     Fax #:       (G)RAB OR (C)OMP.     Preserv.       SoilL     Fax #:       (G)RAB OR (C)OMP.     Fax #:       HOLD FOR TPH     HOLD FOR TPH		-	-	9/26/14	×	×	g 1	a	Ditch 1	) _
Joel Lowry         PLU         Box 301         State:         NM         Zip:         88260         Attn:         Tony Savoie           396-2378         Fax #: (575)396-1429         Address:         522 W. Marland         Project Owner:         Company:         BOPCO, LP           G)RAB OR (C)OMP.         Contrainers         State:         NM         Zip:         88220           G)RAB OR (C)OMP.         Eddy Co., NM         Zip:         State:         NM         Zip:         88220           G)RAB OR (C)OMP.         Entry:         Carisbad         Phone #:         (432)556-8730         Entry:         Chloride           THER:         PRESERV         Samplury         Fax #:         (432)556-8730         Entry:         There:           CDI/BASE:         PRESERV         Samplury         Fax #:         (432)556-8730         Entry:         THER:         THE:         THE: <td></td> <td></td> <td>IIME</td> <td>0</td> <td>0 A</td> <td>s C</td> <td>#</td> <td></td> <td></td> <td></td>			IIME	0	0 A	s C	#			
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Basin Environmental Service Technologies, LLC BILL TO ANALYSIS	ANALYSIS REQUEST			BILL TO		.C	gies,	ntal Service Techno	Basin Environmer	Company Name:

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Page 23 of 23

5



October 08, 2014

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

RE: PLU #347 H

Enclosed are the results of analyses for samples received by the laboratory on 10/03/14 13:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	10/03/2014	Sampling Date:	09/30/2014
Reported:	10/08/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

#### Sample ID: WP #1 @ SURF. (H403035-01)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	10/06/2014	ND	400	100	400	0.00	

### Sample ID: WP #1 @ 6" (H403035-02)

Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	10/06/2014	ND	400	100	400	0.00	

#### Sample ID: WP #1 @ 3' (H403035-03)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	10/06/2014	ND	400	100	400	0.00	

#### Sample ID: WP #2 @ SURF. (H403035-04)

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	10/06/2014	ND	400	100	400	0.00	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/03/2014	Sampling Date:	09/30/2014
Reported:	10/08/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

#### Sample ID: WP #2 @ 1' (H403035-05)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	10/06/2014	ND	400	100	400	0.00	

# Sample ID: WP #1A @ 1' (H403035-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/06/2014	ND	400	100	400	0.00	

# Sample ID: WP #1A @ 3' (H403035-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	10/06/2014	ND	400	100	400	0.00	

#### Sample ID: WP #1B @ 1' (H403035-08)

Chloride, SM4500CI-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	10/06/2014	ND	400	100	400	0.00	

# Sample ID: WP #1B @ 3' (H403035-09)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/06/2014	ND	400	100	400	0.00	

# **Cardinal Laboratories**

\*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/03/2014	Sampling Date:	09/30/2014
Reported:	10/08/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

#### Sample ID: S. OF WP #1 @ 1' (H403035-10)

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	10/06/2014	ND	400	100	400	0.00	

# Sample ID: S. OF WP #1 @ 3' (H403035-11)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	10/06/2014	ND	400	100	400	0.00	

# Sample ID: W. OF WP #1 @ 1' (H403035-12)

Chloride, SM4500Cl-B	ide, SM4500Cl-B mg/kg			Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	10/06/2014	ND	400	100	400	0.00	

#### Sample ID: W. OF WP #1 @ 3' (H403035-13)

Chloride, SM4500Cl-B	500Cl-B mg/kg			Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/06/2014	ND	400	100	400	0.00	

#### Sample ID: WW. OF WP #1 @ 1' (H403035-14)

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	10/06/2014	ND	400	100	400	0.00	

# **Cardinal Laboratories**

\*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/03/2014	Sampling Date:	09/30/2014
Reported:	10/08/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

# Sample ID: WW. OF WP #1 @ 3' (H403035-15)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/06/2014	ND	400	100	400	0.00	

# Sample ID: S. OF WELL HEAD @ 1' (H403035-16)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	10/06/2014	ND	400	100	400	0.00	

# Sample ID: S. OF WELL HEAD @ 3' (H403035-17)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/06/2014	ND	400	100	400	0.00	

#### Sample ID: WP #2A @ 1' (H403035-18)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	10/06/2014	ND	400	100	400	0.00	

# Sample ID: WP #2A @ 3' (H403035-19)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	10/06/2014	ND	400	100	400	0.00	

# **Cardinal Laboratories**

\*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/03/2014	Sampling Date:	09/30/2014
Reported:	10/08/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

#### Sample ID: WP #2B @ 1' (H403035-20)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/06/2014	ND	400	100	400	0.00	

# Sample ID: WP #2B @ 3' (H403035-21)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/06/2014	ND	400	100	400	0.00	

# Sample ID: S. OF WP #2 @ 1' (H403035-22)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5840	16.0	10/06/2014	ND	400	100	400	0.00	

#### Sample ID: S. OF WP #2 @ 3' (H403035-23)

Chloride, SM4500Cl-B	00Cl-B mg/kg			Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	10/06/2014	ND	400	100	400	0.00	

#### Sample ID: E. OF WP #2 @ 1' (H403035-24)

Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/06/2014	ND	400	100	400	0.00	

# **Cardinal Laboratories**

\*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/03/2014	Sampling Date:	09/30/2014
Reported:	10/08/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

#### Sample ID: E. OF WP #2 @ 3' (H403035-25)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/06/2014	ND	400	100	400	0.00	

# Sample ID: SE WELL HEAD @ 1' (H403035-26)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	10/06/2014	ND	400	100	400	0.00	

# Sample ID: SE WELL HEAD @ 3' (H403035-27)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/06/2014	ND	400	100	400	0.00	

#### **Cardinal Laboratories**

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

- ND
   Analyte NOT DETECTED at or above the reporting limit

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

#### 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 sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 8 of 11

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 9 of 1

	(575) 393-2326 FAX (575) 39	3-247	6																			1	04	3	
Company Name Project Manager	Basis		-					P	.0. #	and the local division of the local division	<b>B</b> /	LL TO			_		_	ANA	ALYS	IS R	EQUE	EST			
Address: P.O. City: Lovingto								t	omp					-											Τ
	State. In				60			A	ttn:																
	)396-2378 Fax #: (57	5)396-	1429	9				A	ddres	ss:															
Project #:	Project Ow	ner:						c	ity:					1											
	PLU #347H						1		ate:	NI	1	Zin			ŝ	â	H T								
Project Location:	Eddy Co., NM								none			Lip.		ride	151	021	FOR 1								
Sampler Name:	JOEC LOWRY							1	x #:	<i>n</i> .				Chloride	TPH (8015M)	BTEX (8021B)	L C								
FOR LAB USE ONLY			Т	Γ	M	ATRI	х		PRE	SER	V.	SAMPL	ING	- °	直	E	НОГР		1.1						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	DTHER :	ACID/BASE:	ICE / COOL	VITEN .	DATE	TIME				I								
	WP #1 @ Surf.	g	1		x					x		9/30/14	1000	x							<u> </u>				
E.	WP #1 @ 6"	g	1		x					x		9/30/14	1005	x		-									
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Þ	WP #1a @ 3'	g	1		x				>	1	9	9/30/14	1030	x							$\vdash$		$\rightarrow$	$\rightarrow$	_
8	WP #1b @ 1'	g	1		x				x		9	9/30/14	1035	x								-+	-+	+	-
16	WP #1b @ 3'	g	1	_	x				×		9	9/30/14	1040	x		-				-		$\rightarrow$	$\rightarrow$	+	_
	S. of WP #1 @ 1' images. Cardinal's liability and client's exclusive remedy for a	g g	1	hoth	X				x		9	9/30/14	1045	x								$\rightarrow$	$\rightarrow$	+	-

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 anal service. In no event shall Cardinal be liable for incidental or consequental 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 ab

Relinquished By:	time: Received By:	back Phone Results Phone Results Fax Result: REMARKS:	□ Yes □ No	Add'I Phone #: Add'I Fax #: HOLD FOR TPH	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	5,8°2 Sample Condition Cool Intact Ves Ves No No	CHECKED BY:	email results to pm bie@BassPet.com &	@basinenv.com, & SJWalters@BassPet.com	
Revision 1.0	† Cardinal cannot accept verbal of	changes. Please fax written cha	nges to 575-393-247	6	

ARDINAL LABORATORIES

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# Page 10 of

2 of 3

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

Company Name	Basin		-					Т			P	ILL TO	100000000000000000000000000000000000000	84	-										/
Project Manage	r: Joel Lowry								2.0.	#.	1.24				_	_	_	AN	IALY:	SIS F	REQU	EST			
Address: P.O	. Box 301							t						-										T	T
City: Lovingto	on State: NN	1 7:	<b>n</b> ·	882	0.00				Com	-	y:														
Phone #: (575	5)396-2378 Fax #: (575				.00			A	ttn:																
Project #:	1 un #. (0/1		142	9				A	ddre	ess:	:														
Project Name:	Project Ow	ner:						c	ity:								1-								
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Project Location	: Eddy Co., NM							P	hone	e #:				rid	015	302	FOR								
Sampler Name:	JOEC LOWRY								ax #:					Chloride	TPH (8015M)	X	L L								
FOR LAB USE ONLY			Т	Т	1	MATE	XIX		PR	ESE	RV.	SAMPL	ING	1°	1 à	BTEX	НОГР								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	AIN	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME				T								
11	S. of WP #1 @ 3'	g	1			x				x		9/30/14	1050	×				+	+		+	+	-	$\vdash$	
1a	W. of WP #1 @ 1'	g	1			x				x		9/30/14	1055	x					+	+				$\vdash$	
13	W. of WP #1 @ 3'	g	1			x				x		9/30/14	1100	x				-	+	+	+		-	$\vdash$	
	WW. of WP #1 @ 1'	g	1			x				x		9/30/14	1105	x					+			-		$\vdash$	
15	WW. of WP #1 @ 3'	g	1			x				x		9/30/14	1110	x						-					
16	S. of Well Head @ 1'	g	1			x				x		9/30/14	1115											$ \rightarrow $	
17	S. of Well Head @ 3'	g	1			x				x	-	9/30/14	1120	X				-		-	-				
18	WP #2a @ 1'	g	1			x				x		9/30/14	1125	X			_		-	-					
	WP #2a @ 3'	g	1			x				x	-	9/30/14		x					-						
20	WP #2b @ 1'	0	1		-	x				x	-	9/30/14	1130	x											
EASE NOTE: Liability and D	amages. Cardinal's liability and client's exclusive remedy for an	ny claim a	risina	whothe	r hono					~	_ L_	0/00/14	1135	x										T	

ility 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 consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

affliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Relinquished By: Date: Received By: Phone Result: □ Yes □ No Add'l Phone #: 10/3/1 Fax Result: □ Yes inda □ No Time: Add'I Fax #: ul REMARKS: 7:2 Relinquished By: Date: Received By: 3 14 HOLD FOR TPH Time: Please email results to pm@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com Delivered By: (Circle One) Sample Condition CHECKED BY: Cool Intact Sampler - UPS - Bus - Other: (Initials) 0 Ves Yes FORM-006 † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 Revision 1.0

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

<b>Company Name</b>	Basin					and the second second					-	7878977979					-					/	0 1	77
Project Manage	r: Joel Lowry								.0. #	the state of the s	511	LL TO						ANA	LYSI	S R	EQUE	ST		CONTRACT OF CONTRACT
Address: P.O	. Box 301						2							-										
City: Lovingto	n State: NA	1 7	p:	002	60			C	omp	any:														
Phone #: (575	i)396-2378 Fax #: (575		-		00			A	ttn:															
Project #:	Project Ow		1423	9				A	ddre	SS:														
Project Name:	PLU #347H	ner:						C	ity:								I I							
Project Location								St	ate:	NM	/ 2	Zip:		e	TPH (8015M)	BTEX (8021B)	H							
								P	none	#:				Chloride	301	802	FOR							
FOR LAB USE ONLY	JOEL LOWAL		_	_				Fa	x #:					Ē	Ξ	X	0	-						
CALCED DOLL ONLY					M	ATR	IX		PRE	SER	V.	SAMPLI	NG	1	₽	BTE	НОГР							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL OTHER :		DATE	TIME				-							
21	WP #2b @ 3'	g	1		)	(				x		9/30/14	1140	x									$\rightarrow$	
- 23	S. of WP #2 @ 1'	g	1		)	(				x		9/30/14	1145	x							$\vdash$		-+	$\rightarrow$
23	S. of WP #2 @ 3'	g	1		)	1	1			x	1	9/30/14	1250	x							$\vdash$	+	-+	-
25	E. of WP #2 @ 1'	g	1		)					x	4	9/30/14	1255	x			-					$\rightarrow$	$\rightarrow$	
25	E. of WP #2 @ 3'	g	1		x					x	9	9/30/14	1300	x			-+					-+	+	+
10000000000000000000000000000000000000	SE Well Head @ 1'	g	1		x				3	ĸ	9	9/30/14	1305	x								-+	+	+
$\alpha$	SE Well Head @ 3'	g	1		x				)	<	9	9/30/14	1310	x							-+	-+	+	
28	WP#2@3'		1		X				1	6					h	h						-+		-
																		-+	-+		$\rightarrow$	-+	-+	
ASE NOTE: Liability and D	amages. Cardinal's liability and client's exclusive remedy for a tose for negligence and any other cause whatsoever shall be					n contra writing a					Г			-			-+				$\rightarrow$	$\rightarrow$	$\rightarrow$	+

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.

 Date:
 Received Rv:
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 fits incurred by client, its subsidiaries Relinquished By:

Quel form		i cha h	Phone Result:       Yes       No       Add'l Phone #:         Fax Result:       Yes       No       Add'l Fax #:         REMARKS:       Yes       No       Add'l Fax #:	
Relinquished By: <u>Auto</u> <u>Active</u> Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Date: 3/14 Received B	any eresting CHECKEDBY:	HOLD FOR TPH Please email results to pm@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com	
FORM-006 Revision 1.0		No No	written changes to 575-393-2476	



December 12, 2014

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

RE: PLU #347 H

Enclosed are the results of analyses for samples received by the laboratory on 12/11/14 11:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	12/11/2014	Sampling Date:	12/10/2014
Reported:	12/12/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

# Sample ID: PAST. WC #1 (H403774-01)

BTEX 8021B	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2014	ND	2.06	103	2.00	0.335	
Toluene*	<0.050	0.050	12/11/2014	ND	2.03	101	2.00	0.553	
Ethylbenzene*	<0.050	0.050	12/11/2014	ND	1.91	95.7	2.00	1.50	
Total Xylenes*	<0.150	0.150	12/11/2014	ND	5.75	95.9	6.00	1.57	
Total BTEX	<0.300	0.300	12/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 61-154							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/11/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	12/11/2014	ND	197	98.4	200	1.87	
DRO >C10-C28	4140	50.0	12/11/2014	ND	209	105	200	1.93	
EXT DRO >C28-C35	844	50.0	12/11/2014	ND					
Surrogate: 1-Chlorooctane	87.6	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	139 9	52.1-17	6						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/11/2014	Sampling Date:	12/10/2014
Reported:	12/12/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: PAST. WC #2 (H403774-02)

BTEX 8021B	mg,	′kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2014	ND	2.06	103	2.00	0.335	
Toluene*	<0.050	0.050	12/11/2014	ND	2.03	101	2.00	0.553	
Ethylbenzene*	<0.050	0.050	12/11/2014	ND	1.91	95.7	2.00	1.50	
Total Xylenes*	<0.150	0.150	12/11/2014	ND	5.75	95.9	6.00	1.57	
Total BTEX	<0.300	0.300	12/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 61-154	!						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/11/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	12/11/2014	ND	197	98.4	200	1.87	
DRO >C10-C28	16800	50.0	12/11/2014	ND	209	105	200	1.93	
EXT DRO >C28-C35	3480	50.0	12/11/2014	ND					
Surrogate: 1-Chlorooctane	111 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	330	52.1-17	6						

# **Cardinal Laboratories**

# \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/11/2014	Sampling Date:	12/10/2014
Reported:	12/12/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: PAST. WC #3 (H403774-03)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2014	ND	2.06	103	2.00	0.335	
Toluene*	<0.050	0.050	12/11/2014	ND	2.03	101	2.00	0.553	
Ethylbenzene*	<0.050	0.050	12/11/2014	ND	1.91	95.7	2.00	1.50	
Total Xylenes*	<0.150	0.150	12/11/2014	ND	5.75	95.9	6.00	1.57	
Total BTEX	<0.300	0.300	12/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 61-154	!						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/11/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	12/11/2014	ND	197	98.4	200	1.87	
DRO >C10-C28	6940	50.0	12/11/2014	ND	209	105	200	1.93	
EXT DRO >C28-C35	1600	50.0	12/11/2014	ND					
Surrogate: 1-Chlorooctane	88.0	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	172	% 52.1-17	6						

#### Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

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

#### **Cardinal Laboratories**

# \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim 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 whatscever 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 those of use, or loss of profits incurred by client, its subsidiaries, affiliates or successor 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. Keine

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	(575) 393-2326 FAX (575) 393-2476	476							ANALYSIS		REQUEST
Company Name:				BILLIO		1	1				_
Project Manager:	Joel Lowry		P.O. #:		_						
Address: P.O. Box 301	ox 301		Company:	BOPCO, LP							
City: Lovington	State: NM	Zip: 88260	Attn:	Tony Savoie							
e #:	(575)396-2378 Fax #: (575)396-1429	396-1429	Address:								
	Project Owner:	er:	City:			1)	B)	PH			
ame:	PLU #347H		State: NM Z	Zip:	de	151	021	RT			
n:	Eddy Co., NM		Phone #:		nlori	(80	X (8	FO			
Sampler Name:			Fax #:		CI	ΡН	TE				
		MATRIX	IX PRESERV.	SAMPLING	-	т	в	н			
Lab I.D.	Sample I.D.	G)RAB OR (C)OMP. CONTAINERS CONTAINERS COUNDWATER VASTEWATER COIL	SLUDGE DTHER : ACID/BASE: ICE / COOL OTHER :	DATE TIME					Rush		
THUS IN	Dact WC #1	1 #	X	12/10/14 230	×	×	×	t	-		
)	Past. WC #2	a 1 ×	×	12/10/14 235	×	×	×	t	4		
1	Deet MO #3	*	×	12/10/14 240	×	×	×	-	1		
G	Past. WC #3	9 1 ×	×			$\vdash$	<u> </u>	$\mathbb{H}$			
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PLEASE NOTE: Liability and I analyses. All claims including the service. In no event shall Cardi	PLEASE MOTTE: Liability and Camage's. Caronial is serving and unersely expression of the applicable analyses. All calms including those for negligence and any other cause whatsone whatsone valved unless made in writing and received by. Or loss of profits incurred by clent, its subaidantes, service. In no event sub Cardinal be liable for incidential or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by clent, its subaidantes, service. In no event sub Cardinal be liable for incidential or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by clent, its subaidantes, service.	e deemed waived unless made in writin ng without limitation, business interrupt	ng and received by Cardinal within to tions, loss of use, or loss of profits i there is based upon any of the abo	30 days after completion of the incurred by client, its subsidia over stated reasons or otherwing otherwing the states of the	ne applicabi ries, se.	•					
Affiliates or successors arising of Relinquished By:	Rinke or successors arising out of or related to the performance of services instrumeter by Carrier Regelved B Relinquished By: Timps: 2 Timps:	A Received By:	D	Phone Resu Fax Result: REMARKS:	Phone Result: Fax Result: REMARKS:		□ Yes		Add'l	Add'l Phone #: Add'l Fax #:	3
Refinavished B	Date: // -/ -/ -/ -/ -/ -/ -/ -/ -/ -/ -/ -/	Received By:	Alende		lease ASavo	email vie@B	result	to pr	n@basi acruth	@bas	Please email results to pm@basinenv.com, TASavoie@BassPet.com, acruth@basspet.com
Dational Bur	(Circle One)	1	Sample Condition CHECK	CHECKED BY:							

† Cardinal cannot accept verbal changes Please fax written changes to 575-393-2476 80 Cool Intact Yes Yes No No No

Sampler - UPS - Bus - Other:

1

Delivered By: (Circle One)

#24

FORM-006 Revision 1.0



December 23, 2014

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

RE: PLU #347 H

Enclosed are the results of analyses for samples received by the laboratory on 12/16/14 13:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	12/16/2014	Sampling Date:	12/15/2014
Reported:	12/23/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

# Sample ID: NSW #1 (H403827-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/18/2014	ND	416	104	400	0.00	

# Sample ID: SSW #1 (H403827-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	12/18/2014	ND	400	100	400	0.00	

# Sample ID: ESW #1 (H403827-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/18/2014	ND	400	100	400	0.00	

# Sample ID: ESW #2 (H403827-04)

Chloride, SM4500Cl-B	mg/kg			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/18/2014	ND	400	100	400	0.00	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/16/2014	Sampling Date:	12/15/2014
Reported:	12/23/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: ESW #3 (H403827-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	32.0	16.0	12/18/2014	ND	400	100	400	0.00			

# Sample ID: E. FLOOR #1 (H403827-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/18/2014	ND	400	100	400	0.00	

# Sample ID: E. FLOOR #2 (H403827-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/18/2014	ND	400	100	400	0.00	

#### **Cardinal Laboratories**

\*=Accredited Analyte

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Celeg D. Keine



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

Received:	12/16/2014	Sampling Date:	12/15/2014
Reported:	12/23/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: E. FLOOR #3 (H403827-08)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2014	ND	1.81	90.7	2.00	8.31	
Toluene*	<0.050	0.050	12/19/2014	ND	1.79	89.7	2.00	8.41	
Ethylbenzene*	<0.050	0.050	12/19/2014	ND	1.69	84.4	2.00	9.67	
Total Xylenes*	<0.150	0.150	12/19/2014	ND	5.07	84.5	6.00	10.4	
Total BTEX	<0.300	0.300	12/19/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 61-154							
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/18/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/17/2014	ND	212	106	200	1.65	
DRO >C10-C28	<10.0	10.0	12/17/2014	ND	196	98.2	200	0.529	
EXT DRO >C28-C35	<10.0	10.0	12/17/2014	ND					
Surrogate: 1-Chlorooctane	87.9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	94.7	% 52.1-17	6						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/16/2014	Sampling Date:	12/15/2014
Reported:	12/23/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

# Sample ID: E. FLOOR #4 (H403827-09)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/18/2014	ND	400	100	400	0.00	

#### **Cardinal Laboratories**

# \*=Accredited Analyte

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Celeg D. Keine



# **Notes and Definitions**

- ND
   Analyte NOT DETECTED at or above the reporting limit

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Loratories.

Celeg D. Keine

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 (575) 303-2326 FAY (575) 303-2476

Company Name:	(515) 595-2520 TAX (515) 555 A									B	11	L TO					1	ANAL	YSIS	REC	QUES	Т	 	
Project Manager:	Joel Lowry							P.	0. #	ŧ:	-													
Address: P.O. B								Co	Company: BOPCO, LP											1				
City: Lovington	State: NM	Zip					tn:			Tony Savoi	е													
	96-2378 Fax #: (575)				1					ess:														
Project #:	Project Own				-	ty:							-	Ŧ										
	PLU #347H						-	: NM	1 3	Zip:			2M)	(8021B)	FOR TPH									
	Eddy Co., NM	_		177						e #:				Did	301	(80	NOR 1							
Project Location:	-			-					ax #					Chloride	TPH (8015M)	BTEX								
Sampler Name: S	steve Taylor		<b>T</b>	-		MAT	RIX	I a		RESER	v.	SAMPLIN	IG .	ľ	₽	E	НОГР							
FOR LAB USE ONLY		e.							T								-							
Lab I.D. H403827	Sample I.D.	(G)RAB OR (C)OMP	AINE	GROUNDWATER	NASTEWATER	SOIL	OIL	SLUDGE OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME					-						
1	NSW #1	g	-	Ť		x			Т	x	Τ	12/15/14		x										
2	SSW #1	g				x				x		12/15/14	1.	x				_			-			
3	ESW #1	g				x				x		12/15/14		x		-			-	-	-	-		_
3	. ESW #2	g	1			x				x		12/15/14		x	<u> </u>	-		-	-	-	-	-		_
5	ESW #3	9	1		~	x				x		12/15/14	Contra and	x	_	-	-	-	-	-	-			-
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67	E. Floor #2	9	1			x				x		12/15/14		x	-	-	-	-	-	-	-			
8	E. Floor #3	g	1			x				x		12/15/14		x	x	x	-	-	-	-	-	-		_
9	E. Floor #4	g	1			x				x		12/15/14		х			-		-	-	-	-		

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 whatscever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable

analyses. All claims including mose for negligence and any other cause windowere mail or deelined water diffes links in the set of t

affiliates or successors arising out of or related to the performance	e of services hereunder by Cardinal, regardless of whether such claim is build upon any or the	Phone Result:  Yes No Add'l Phone #:
Relinguished By:	Date: Received By:	Fax Result:  Ves  No Add'I Fax #:
$\cap$	12.16.14	REMARKS:
Last for	12:45 Wuly Jakta	LEMARNS.
Relinguished By:	Date: Received By:	
0 1	12.16.14 10 di Nay May	Please email results to pm@basinenv.com,
Alle Sich -	Tinley 25 MALL MENDON	TASavoie@BassPet.com, acruth@basspet.com
July 14th	Sample Condition CHECKED BY:	
Delivered By: (Circle One)		
/	- Sibi Cool Intact (Initials)	
Sampler - UPS - Bus - Other:		
	No No	

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

# 54

FORM-006 Revision 1.0



December 23, 2014

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

RE: PLU #347 H

Enclosed are the results of analyses for samples received by the laboratory on 12/18/14 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	12/18/2014	Sampling Date:	12/17/2014
Reported:	12/23/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

# Sample ID: NOFL NSW #2 (H403868-01)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/19/2014	ND	432	108	400	3.77	

# Sample ID: NOFL NORTH FLOOR #2 (H403868-02)

Chloride, SM4500Cl-B	SM4500CI-B mg/kg			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	12/19/2014	ND	432	108	400	3.77	

# Sample ID: NOWH FLOOR #1 (H403868-03)

Chloride, SM4500Cl-B	Analyze	d By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	12/19/2014	ND	432	108	400	3.77	

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/18/2014	Sampling Date:	12/17/2014
Reported:	12/23/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: NOWH FLOOR #2 (H403868-04)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/22/2014	ND	1.75	87.5	2.00	8.93	
Toluene*	<0.050	0.050	12/22/2014	ND	1.73	86.3	2.00	9.59	
Ethylbenzene*	<0.050	0.050	12/22/2014	ND	1.63	81.6	2.00	10.7	
Total Xylenes*	<0.150	0.150	12/22/2014	ND	4.90	81.7	6.00	11.5	
Total BTEX	<0.300	0.300	12/22/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 61-154							
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/19/2014	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/22/2014	ND	191	95.3	200	4.92	
DRO >C10-C28	<10.0	10.0	12/22/2014	ND	204	102	200	1.30	
EXT DRO >C28-C35	<10.0	10.0	12/22/2014	ND					
Surrogate: 1-Chlorooctane	82.5	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	79.5	% 52.1-17	6						

#### Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

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.
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#### Cardinal Laboratories

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Celeg D. Keine

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(575) 595-2520 1 AK (610) 000 211	-									BIL	LTO		100				ANAL	YSIS	REC	UES	T		
Company Name:	le el l'entre							P.C	0. #															
Project Manager:	Joel Lowry							-	-	any		BOPCO	D, LP											
Address: P.O. B	State: NM	7in <sup>.</sup>	88	260					tn:	any		Tony Savoi												
City: Lovington				200				-		ess:		i ony ouron												
Phone #: (575)3	96-2378 Fax #: (575)396		23														I							
Project #:	Project Owner:							-	ty:			Zini			Ŵ	1B)	TP							
Project Name: P	PLU #347H										M	Zip:		ride	015	802	OR							
Project Location:	Eddy Co., NM							-		e #:				Chloride	TPH (8015M)	BTEX (8021B)	HOLD FOR TPH							
Sampler Name: N	Matt Taylor	_				ATRI	×	Fa	ax #	ESE	RV	SAMPLI	NG	10	l ₫	BTE	<u>d</u>							
FOR LAB USE ONLY	Sample I.D.	G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASIEWAIEK		DGE	OTHER :	SE		OTHER :	DATE	TIME											
1190,000	NOFL NSW #2	g	1	Ŭ		x			Т	x		12/17/14	0900	x		-	-	-	-	<u> </u>	-	-	-	
2	NOFL N. Floor #2	g	1		1	x				x		12/17/14	0905	×	-	-	-	-		-		-	-	$\vdash$
23	NOWH Floor #1	g	1			x				x		12/17/14	0910	x			-	-			-		-	
4	NOWH Floor #2	g	1			x				x		12/17/14	0915	x	x	x	-		-	-	-	-	-	
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	Damages. Cardinal's liability and client's exclusive remedy for any				hared	lincor	tracto	or tort	shall	be limit	ed to th	he amount paid by	the client for the	0						_	1	-		
analyses. All claims including	those for negligence and any other Ladoe minacorto chauding within the liable for incidental or consequential damages, including without of or related to the performance of services hereunder by Can	thout I dinal, r	egardi ece	on, busin ess of w ived	ess int	such o	one lo	ee of	1158 0	or loss o	f profit	ts incurred by clien	t, its subsidiaries	esult: ult:			No No		'l Phone 'l Fax #					
Rélinquished By Delivered By: Sampler - UPS	(Circle One) - Bus - Other:	10	per per		Sam Coo	ple ( Tes No	ntac	Yes			(In	CKED BY:		Savoi	e@Ba	issPe	.com,	acrut	sinenv h@ba	.com, sspet.	com			
		l	inal	can		acce	ept U	ver H	bal H	char SY	nges	s. Please fa	ax written	chan	ges to	575-3	93-247	76						



December 23, 2014

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

RE: PLU #347 H

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

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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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	12/19/2014	Sampling Date:	12/18/2014
Reported:	12/23/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

# Sample ID: NFL S. FLOOR #3 (H403891-01)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	12/22/2014	ND	400	100	400	0.00	

# Sample ID: NFL SSW #3 (H403891-02)

Chloride, SM4500Cl-B	Analyze	d By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	12/22/2014	ND	400	100	400	0.00	

#### Sample ID: NFL N. FLOOR #3 (H403891-03)

Chloride, SM4500Cl-B	Analyze	d 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: NFL NSW #3 (H403891-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/22/2014	ND	400	100	400	0.00	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/19/2014	Sampling Date:	12/18/2014
Reported:	12/23/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

#### Sample ID: NFL WSW #1 (H403891-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/22/2014	ND	400	100	400	0.00	

# Sample ID: NFL W. FLOOR #1 (H403891-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	12/22/2014	ND	400	100	400	0.00	

# **Cardinal Laboratories**

\*=Accredited Analyte

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Celeg D. Keine



# **Notes and Definitions**

- ND
   Analyte NOT DETECTED at or above the reporting limit

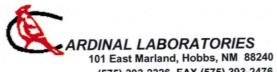
   RPD
   Relative Percent Difference
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Celeg D. Keine



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5

Company Name:	(575) 393-2326 FAX (575) 393-2										<b>B</b> ]]	LL TO						ANAL	YSIS	REC	QUES	Т		
Project Manager:	Joel Lowry							Ρ.	0.															
Address: P.O.								C	omr	any:		BOPC	O, LP	1										
City: Lovington		Zip	: 8	382	60				tn:			Tony Savo												
Phone #: (575)										ess:		Tony Cure												
	Project Owne		120					-	ty:								-							
Project #:		51.						-	-			7:			ε	18)	FOR TPH							
Project Name:	PLU #347H										м	Zip:		ġ	15	05	R			÷				
Project Location:	Eddy Co., NM							Pł	non	e #:				Chloride	80	8)	L L							
Sampler Name:	SLEVE TAYIO/		_					Fa	ax #	-	_			ð	TPH (8015M)	ВТЕХ (8021В)	НОГР							
FOR LAB USE ONLY						ITAN	RIX		PF	RESE	RV.	SAMPLI	NG	1		-	¥							
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											
1	NFL S. Floor #3	g	1	Т		x				x		12/18/14		x										
2	NFL SSW #3	g	Ι.			x				x		12/18/14		x			-	-					-	_
2	NFL N. Floor #3	g	1			x				x		12/18/14		x										_
4	NFL NSW #3	g	1			x				x		12/18/14		x					-			-		_
5	NFL WSW #1	g	1			x				x		12/18/14		x										-
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anayees. As cellms including trose for negregate and any other cause miniscrete state to devine the analysis including and the state of the state of

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 reduc	Phone Result:  Yes No Add'l Phone #:
Relinguished By:	Date: Received By:	
6	12-19-14 // 1 1 11	
Dullhour	Time: 30 July Walle	REMARKS:
Relinquished By:	Date: 2.19 14 Received By:	
Joef Walts	Time: 15 1 1 Millel	Please email results to pm@basinenv.com, TASavoie@BassPet.com, acruth@basspet.com
Delivered By: (Circle One)	Sample Condition CHECKED/BY:	
Sampler - UPS - Bus - Other:		

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

HR



December 23, 2014

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

RE: PLU #347 H

Enclosed are the results of analyses for samples received by the laboratory on 12/22/14 15:00.

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Method EPA 524.4	Regulated VOCs (V1, V2, V3)

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Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	12/22/2014	Sampling Date:	12/19/2014
Reported:	12/23/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

# Sample ID: TT - 1 @ 4' (H403911-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	12/23/2014	ND	400	100	400	0.00	

# Sample ID: TT - 1 @ 8' (H403911-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	12/23/2014	ND	400	100	400	0.00	

#### Sample ID: TT - 1 @ 12' (H403911-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/23/2014	ND	400	100	400	0.00	

# Sample ID: NOFL WSW #2 (H403911-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/23/2014	ND	400	100	400	0.00	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/22/2014	Sampling Date:	12/19/2014
Reported:	12/23/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

# Sample ID: NOFL SSW #4 (H403911-05)

Chloride, SM4500Cl-B mg/kg		Analyze	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/23/2014	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 daim 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 whatscever 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 those of use, or loss of profits incurred by client, its subsidiaries, affiliates or successor 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.

Celeg D. Keine



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

Received:	12/22/2014	Sampling Date:	12/19/2014
Reported:	12/23/2014	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

# Sample ID: NOFL S. FLOOR #4 (H403911-06)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/23/2014	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	100 \$	% 61-154							
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/23/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/23/2014	ND	192	95.9	200	0.542	
DRO >C10-C28	<10.0	10.0	12/23/2014	ND	186	93.1	200	0.738	
EXT DRO >C28-C35	<10.0	10.0	12/23/2014	ND					
Surrogate: 1-Chlorooctane	98.1	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	114 9	52.1-17	6						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
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

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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

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Project Manager:	Joel Lowry				P.O. #:	*														
Address: P.O. Box 301	x 301				Company:	pany:	BOPCO, LP	, F												
City: Lovington	State: NM	Zip:	Zip: 88260	0	Attn:		Tony Savoie											. /.		
Phone #: (575)396-2378	Fax #:	(575)396-1429	09		Address:	ess:			·											
Project #:	Project Owner:	er:			City:							PH								
ame:	PLU 347H				State:	NM	Zip:			15N	021	RT								
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FOR LAB USE ONLY		P.		MATRIX	T	PRESERV.	SAMPLING	G		-		н								
Lab I.D.	Sample I.D.	RAB OR (C)OMP	ONTAINERS OUNDWATER	STEWATER L JDGE	HER : D/BASE:	/ COOL HER :														
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L.	TT-1 @ 12'	9	1	×		×	12/19/14		×	$\downarrow$										
4	NOFL WSW #2	g	1	×		×	12/19/14		×	1										
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PLEASE NOTE: Liability and Da analyses. All claims including the service. In no event shall cardina	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's sociusive 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 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 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 analyses. All claims including the best in role and and and and and and analyses including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subaidaines, to an any and an analyses including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subaidaines, to any and an analyses including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subaidaines, to any and an analyses are analyses.	any claim an deemed wa g without lim	ising wheth ived unless ritation, bus	er based in contract or made in writing and n iness interruptions, los	r tort, shall eceived by ss of use, c	be limited to the Cardinal within or loss of profits	amount paid by th 30 days after comp ncurred by client, i	e client for the oletion of the applic ts subsidiaries,	able											
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2.20 † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 Sample Condition Cool Intact Yes Pres No No No

Sampler - UPS - Bus - Other:

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FORM-006 Revision 1.0



January 12, 2015

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

RE: PLU #347 H

Enclosed are the results of analyses for samples received by the laboratory on 01/07/15 11:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	01/07/2015	Sampling Date:	01/05/2015
Reported:	01/12/2015	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

## Sample ID: SFL WSW #1 (H500040-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/08/2015	ND	416	104	400	0.00	

## Sample ID: SFL SSW #2 (H500040-02)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/08/2015	ND	416	104	400	0.00	

## Sample ID: SFL W. FLOOR #1 (H500040-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/08/2015	ND	416	104	400	0.00	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/07/2015	Sampling Date:	01/05/2015
Reported:	01/12/2015	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: SFL S. FLOOR #2 (H500040-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2015	ND	1.72	86.1	2.00	5.71	
Toluene*	<0.050	0.050	01/09/2015	ND	1.69	84.6	2.00	7.04	
Ethylbenzene*	<0.050	0.050	01/09/2015	ND	1.63	81.6	2.00	8.36	
Total Xylenes*	<0.150	0.150	01/09/2015	ND	4.91	81.8	6.00	8.55	
Total BTEX	<0.300	0.300	01/09/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.1	% 61-154	!						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/08/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/08/2015	ND	190	94.9	200	1.64	
DRO >C10-C28	<10.0	10.0	01/08/2015	ND	177	88.5	200	0.912	
EXT DRO >C28-C35	<10.0	10.0	01/08/2015	ND					
Surrogate: 1-Chlorooctane	89.3	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	88.0	% 52.1-17	6						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

- ND
   Analyte NOT DETECTED at or above the reporting limit

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

#### 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 sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Loratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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	Joel Lowry			P.O. #:										-		
Address: P.O. Box 301	301			Company:	BOPCO, LP	ס										
2	State: NM	Zip:	88260	Attn: To	Tony Savoie											
Phone #: (575)396-2378	2378 Fax #: (575)396-1429	-142	9	Address:												
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† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 Sample Condition Cool Intact PYes PYes No No No

CHECKED BY:

Please email results to pm@basinenv.com, TASavoie@BassPet.com, acruth@basspet.com

Date: Time:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

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FORM-006 Revision 1.0

Page 5 of 5



January 09, 2015

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

RE: PLU #347 H

Enclosed are the results of analyses for samples received by the laboratory on 01/08/15 9:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	01/08/2015	Sampling Date:	01/07/2015
Reported:	01/09/2015	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

## Sample ID: SFL WSW #2 (H500052-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	01/08/2015	ND	400	100	400	0.00	

## Sample ID: SFL SSW #3 (H500052-02)

Chloride, SM4500Cl-B	mg,	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	01/08/2015	ND	400	100	400	0.00	

## Sample ID: SFL S. FLOOR #3 (H500052-03)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	01/08/2015	ND	400	100	400	0.00	

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

- ND
   Analyte NOT DETECTED at or above the reporting limit

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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-	SFL WSW #2	9	-						_	×	-	1/7/15		×						$\vdash$	$\vdash$			-		
4	SFL SSW #3	9	-			×			_	×	^	1/7/15		×						$\vdash$	$\vdash$	-	-	-		
W	SFL S. Floor #3	Q	-			×				×	^	1/7/15		×							-	_				
										X																
PLEASE NOTE: Liability and Da analyses. All claims including tho service. In no event shall Cardina affiliates or successors arising our	PLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remedy for any cliem arising whether based in contract or fort, shall be limited to the amount paid by the client for the manayees. All claims including those for negligence and any other cause whatsoever shall be deemed waived unlines made in writing and received by Cardinal writin 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidential camages, including writinut limitation, business interruptions, loss of use, or loss of profils incurred by client, its subdiarities, artificate or successors arising out of related to the performance of services hereunder by Cardinal, negatives of whether such claims based upon any of the above stated reasons or otherwise.	iny claim a deemed w j without li Jardinal, n	irising v raived u mitation	whethe inless in, busin ss of w	r base made ness in	d in co n writtin terrupt	ntract ng and ions, k	or tort, receiv pss of i	shall   ed by use, o	Cardin Cardin r loss c	al with al with of profit of the a	he amount paid by in 30 days after corr s incurred by client bove stated reason	the client for the npletion of the applic its subsidiaries, s or otherwise.	cable												
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dinal cannot accept verbal changes. Please fax written changes to 575-393-2476

FORM-006 Revision 1.0



January 20, 2015

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

RE: PLU #347 H

Enclosed are the results of analyses for samples received by the laboratory on 01/15/15 10:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	01/15/2015	Sampling Date:	01/14/2015
Reported:	01/20/2015	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

## Sample ID: WC #1A @ SURFACE (H500141-01)

BTEX 8021B	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2015	ND	1.79	89.5	2.00	13.9	
Toluene*	<0.050	0.050	01/19/2015	ND	1.81	90.4	2.00	16.3	
Ethylbenzene*	<0.050	0.050	01/19/2015	ND	1.77	88.5	2.00	14.9	
Total Xylenes*	<0.150	0.150	01/19/2015	ND	5.33	88.8	6.00	14.6	
Total BTEX	<0.300	0.300	01/19/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 61-154	1						
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/16/2015	ND	181	90.6	200	6.29	
DRO >C10-C28	70.6	10.0	01/16/2015	ND	184	91.9	200	12.1	
EXT DRO >C28-C35	18.0	10.0	01/16/2015	ND					
Surrogate: 1-Chlorooctane	103 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	120 9	52.1-17	6						

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/15/2015	Sampling Date:	01/14/2015
Reported:	01/20/2015	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: WC #1A @ 6" (H500141-02)

	-	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<16.0	16.0	01/16/2015	ND	432	108	400	3.77	
mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	01/16/2015	ND	181	90.6	200	6.29	
<10.0	10.0	01/16/2015	ND	184	91.9	200	12.1	
<10.0	10.0	01/16/2015	ND					
103 %	47.2-15	7						
111 %	6 52.1-17	6						
	<16.0 mg/ Result <10.0 <10.0 <10.0	<16.0 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0 103 % 47.2-15	<16.0         16.0         01/16/2015           mg/kg         Analyzed           Result         Reporting Limit         Analyzed           <10.0	<16.0         16.0         01/16/2015         ND           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank           <10.0	<16.0     16.0     01/16/2015     ND     432       mg/kg     Analyzed By: MS     Method Blank     BS       Result     Reporting Limit     Analyzed     Method Blank     BS       <10.0	<16.0     16.0     01/16/2015     ND     432     108       mg/kg     Analyzed By: MS     Method Blank     BS     % Recovery       <10.0	<16.0       16.0       01/16/2015       ND       432       108       400         mg/kg       Analyzed By: MS       MS       Kecovery       True Value QC         <10.0	<16.0       16.0       01/16/2015       ND       432       108       400       3.77         mg/kg       Analyzed By: MS       Method Blank       BS       % Recovery       True Value QC       RPD         <10.0

### **Cardinal Laboratories**

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/15/2015	Sampling Date:	01/14/2015
Reported:	01/20/2015	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: WC #2A @ SURFACE (H500141-04)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2015	ND	1.79	89.5	2.00	13.9	
Toluene*	<0.050	0.050	01/19/2015	ND	1.81	90.4	2.00	16.3	
Ethylbenzene*	<0.050	0.050	01/19/2015	ND	1.77	88.5	2.00	14.9	
Total Xylenes*	<0.150	0.150	01/19/2015	ND	5.33	88.8	6.00	14.6	
Total BTEX	<0.300	0.300	01/19/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 61-154	!						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/16/2015	ND	181	90.6	200	6.29	
DRO >C10-C28	396	10.0	01/16/2015	ND	184	91.9	200	12.1	
EXT DRO >C28-C35	159	10.0	01/16/2015	ND					
Surrogate: 1-Chlorooctane	98.3	% 47.2-15	7						

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/15/2015	Sampling Date:	01/14/2015
Reported:	01/20/2015	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: WC #2A @ 6" (H500141-05)

Chloride, SM4500Cl-B	mg/kg Analyzed By: AP								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/16/2015 ND		432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/16/2015	ND	181	90.6	200	6.29	
DRO >C10-C28	<10.0	10.0	01/16/2015	ND	184	91.9	200	12.1	
EXT DRO >C28-C35	<10.0	10.0	01/16/2015	ND					
Surrogate: 1-Chlorooctane	104	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	123	% 52.1-17	6						

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever 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, whot limitation, business interruptions, loss of gronts incurred by client, its subsidiaries, affiliates or successor 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.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/15/2015	Sampling Date:	01/14/2015
Reported:	01/20/2015	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: WC #3A @ SURFACE (H500141-07)

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	01/19/2015	ND	1.79	89.5	2.00	13.9	
Toluene*	<0.050	0.050	01/19/2015	ND	1.81	90.4	2.00	16.3	
Ethylbenzene*	<0.050	0.050	01/19/2015	ND	1.77	88.5	2.00	14.9	
Total Xylenes*	<0.150	0.150	01/19/2015	ND	5.33	88.8	6.00	14.6	
Total BTEX	<0.300	0.300	01/19/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	61-154	1						
TPH 8015M	mg/	kg	Analyze	Analyzed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	01/16/2015	ND	191	95.7	200	0.192	
DRO >C10-C28	4110	50.0	01/16/2015	ND	203	101	200	1.87	
EXT DRO >C28-C35	1060	50.0	01/16/2015	ND					
Surrogate: 1-Chlorooctane	103 %	6 47.2-15	7						

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/15/2015	Sampling Date:	01/14/2015
Reported:	01/20/2015	Sampling Type:	Soil
Project Name:	PLU #347 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: WC #3A @ 6" (H500141-08)

CI-B mg/kg Analyzed By: AP								
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<16.0	16.0	01/16/2015 ND		432	108	400	3.77	
mg	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	01/16/2015	ND	191	95.7	200	0.192	
<10.0	10.0	01/16/2015	ND	203	101	200	1.87	
<10.0	10.0	01/16/2015	ND					
97.7	% 47.2-15	7						
113	% 52.1-17	6						
	Result <16.0 mg, Result <10.0 <10.0 <10.0 97.7	Result         Reporting Limit           <16.0	Result         Reporting Limit         Analyzed           <16.0	Result         Reporting Limit         Analyzed         Method Blank           <16.0	Result         Reporting Limit         Analyzed         Method Blank         BS           <16.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <16.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <16.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <16.0

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

## \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 9 of 9

	(575) 393-2320 FAX (575) 393-24	10			-			1			D		LTO						ΔΝΔΙ	YSIS	RE	QUES	т				
Company Name:											D	11	110								T						
Project Manager:	Joel Lowry							P	.0.	#:																	
Address: P.O. B								C	om	npar	ny:		BOPCO	O, LP													
City: Lovington	State: NM	Zip:	88	3260	)			A	ttn	:			Tony Savoi	ie													
Phone #: (575)3	96-2378 Fax #: (575)39	6-14	29					A	dd	res	s:													1			
Project #:	Project Owner	:						City:					-	n n	ТРН												
Project Name: F	PLU #347H							State: NM Zip:				de	15M	21E	E Z												
Project Location:	Eddy Co., NM							P	Phone #:			lori	Chloride TPH (8015M) BTEX (8021B) IOLD FOR TPI														
Sampler Name:	Steve Taylor							F	Fax #:		చ	TPH	1	НОГР													
FOR LAB USE ONLY					N	IAT	RIX	_	F	PRE	SER	v.	SAMPLI	NG	7	-	in in	오									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHEK :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	22				-				*				
1	WC #1a @ Surf.	g	1			x					x		1/14/15		L	· x	x	<u> </u>			-	1	-	-		-	
2	WC #1a @ 6"	g	1			x					x		1/14/15	1	x	x	-	<u> </u>	-					-		-	
2 3 4	WC #1a @ 1'	g	1	4.5		x					x		1/14/15		L		<u> </u>	X			+					-	
¥ V	WC #2a @ Surf.	g	1			x					x	1	1/14/15		128.00	x	x	<u> </u>			+					-	
5	WC #2a @ 6"	g	1			x					x		1/14/15		x	x		<u> </u>	-	-			-			-	
6	WC #2a @ 1'	g	1			х					x		1/14/15		1	<u> </u>		x	-	+		-	<u> </u>			-	
7	WC #3a @ Surf.	g	1			х					x		1/14/15		L	x	x		-			+				-	
5	WC #3a @ 6"	g	1			х					x		1/14/15		x	x	-			-				-	-	-	
8	WC #3a @ 1'	g	1			x		-			x		1/14/15		-		-	x	-				-		-	-	
										d be b	mited to		amount paid by t	the client for the						1	1			I			

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 wavever unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed wavever unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed wave with the initiation intermed by unless for many claims.

service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

athilates or successors ansing out or or related to the performance of s Relinquished By:	Date: 1-15-15 Received By:	Phone Result:         I Yes         I No         Add'l Phone #:           Fax Result:         I Yes         I No         Add'l Fax #:
Lack Journ	Time :00 Stalan	REMARKS:
Relinquished By:	Date: 15-15 Received By:	
Khlakunl	Time: 0:00 COUL SENDON	Please email results to pm@basinenv.com, TASavoie@BassPet.com, acruth@basspet.com
Delivered By: (Circle One)	Sample Condition CHECKED BY: Cool Intact (Initials)	
Sampler - UPS - Bus - Other:	40 Ves Ves	

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

Date: 2 - 5 - 2016

Phone: 432-214-3704

# 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: Bradley Blevins Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 Telephone No. 575-887-7329 Facility Name: PLU 347 Facility Type: Exploration and Production Surface Owner: Federal Mineral Owner: Federal API No. 30-015-38668 **LOCATION OF RELEASE** Unit Letter Section Township North/South Line Feet from the Range Feet from the East/West Line County С 11 25S 30E 540 1440 Eddy Latitude: 32.15100 Longitude: 103.85560

# NATURE OF RELEASE

Type of Release: Crude oil and Produced Water	Volume of Release: 65 barrels crude oil and 12 barrels PW	Volume Recovered: 5 barrels crude oil and 2 barrels PW				
Source of Release: 2 inch hammer union on wellhead	Date and Hour of Occurrence: 9-20-14 time unknown	Date and Hour of Discovery: 9-20-14 @ 10:50am				
Was Immediate Notice Given?	If YES, To Whom? First reported to EHS at 11:56am as 5 barrels crude oil floating on rain water on location. Could not access until 8:00am on 9-22-14 due to heavy flooding rains. Reported correction and release amounts to Heather in person 8:00am on 9-22-14 Tony S.					
By Whom? Tony Savoie	Date and Hour					
Was a Watercourse Reached?	If YES, Volume Impacting the Wat	tercourse.				
If a Watercourse was Impacted, Describe Fully.*						
Describe Cause of Problem and Remedial Action Taken.* A hammer union leaked on wellhead, connection was re tightened.						
Describe Area Affected and Cleanup Action Taken.* The release impacted approximately 27,200 sq feet of the caliche pad and rain water and crude oil. The entire impacted area was sampled on 9-24- The chloride impacted area on pad was excavated and hauled to a state a backfilled with clean topsoil and caliche.	14. The crude oil impacted areas was t	reated twice with micro blace on 9-26-14.				
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remedia or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	notifications and perform corrective ac ne NMOCD marked as "Final Report" te contamination that pose a threat to g	tions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health				
Signature: Thally Ban	OIL CONSERV	VATION DIVISION				
Printed Name: Bradley Blevins	Approved by Environmental Specialis	st:				
Title: Assistant Remediation Foreman	Approval Date:	Expiration Date:				
E-mail Address: bblevins@basspet.com	Conditions of Approval:	Attached				