### Basin Environmental Service Technologies, LLC

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# REMEDIATION SUMMARY & RISK-BASED SITE CLOSURE REQUEST

BOPCO, LP
POKER LAKE UNIT #162
Eddy County, New Mexico
Unit Letter "C" (NE/NW), Section 6, Township 24 South, Range 30 East
Latitude 32.252159° North, Longitude 103.923572° West
NMOCD Reference #: 2RP-2265

Prepared For:

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

Prepared By:
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October 2014

Ben J. Arguijo Project Manager

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#### 1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin Environmental), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary & Risk-Based Site Closure Request* for the release site known as Poker Lake Unit (PLU) #162. The legal description of the release site is Unit Letter "C" (NE/NW), Section 6, Township 24 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.252159° North latitude and 103.923572° West longitude. The property affected by the release is owned by the United States Department of the Interior – Bureau of Land Management (BLM). Please reference Figure 1 for a "Site Location Map".

On April 20, 2014, BOPCO discovered a release had occurred at the PLU #162 well. A one-inch (1") high pressure hose connecting the flow line to the well failed at the coupling, resulting in a release of approximately four hundred barrels (400 bbls) of produced water.

The release was immediately reported to the New Mexico Oil Conservation Division (NMOCD) Artesia District Office on April 20, 2014. The "Release Notification and Corrective Action" (Form C-141) indicated approximately four hundred barrels (400 bbls) of produced water were released, with no recovery. The section of hose was replaced during initial response activities.

According to the Form C-141, the release impacted an area of the well pad measuring approximately twenty-two thousand, five hundred square feet (22,500 ft<sup>2</sup>) and an area of adjacent pastureland measuring approximately fifteen thousand square feet (15,000 ft<sup>2</sup>).

Prior to commencement of remediation activities, a representative of the BLM was consulted in order to determine whether or not an archaeological survey of the affected area would be required. It was determined that no known or suspected archaeological sites would be encroached upon, and no archaeological survey was required.

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 6, Township 24 South, Range 30 East. A depth-to-groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately one hundred and sixty-five feet (165') below ground surface (bgs). Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

A search of the NMWRRS database indicated there are no water wells within one thousand feet (1,000') of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

There are no surface water bodies within one thousand feet (1,000') of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

NMOCD guidelines indicate the PLU #162 release site has an initial ranking score of zero (0) points. The soil remediation levels for a site with a ranking score of zero (0) points are as follows:

- Benzene 10 mg/Kg (ppm)
- Benzene, ethylbenzene, toluene, and xylenes (BTEX) 50 mg/Kg (ppm)
- Total petroleum hydrocarbons (TPH) 1,000 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

Following initial response activities, on April 21, 2014, Basin Environmental commenced remediation activities at the release site. To facilitate remediation activities, the release site was divided into two (2) sections: Pasture Excavation and Pad Excavation. On April 21 and 22, 2014, a series of delineation trenches were advanced in the affected pastureland in the primary pooling area and along the flow path of the release to investigate the vertical and horizontal extent of impacted soil. Soil samples were field-screened using a chloride test kit, and a general outline of the Pasture Excavation was established.

On April 23, 2014, excavation of the Pasture Excavation commenced. Excavated soil was stockpiled on-site, pending final disposition.

On April 28, 2014, eight (8) confirmation soil samples (SP #1, SP #2a, SP #3, SP #4, SP #5, SP #6b, SP #7, and SP #8a) were collected from the sidewalls of the Pasture Excavation and submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis of chloride concentrations using Environmental Protection Agency (EPA) Method 4500 Cl-B. Soil samples S.P. #2a, S.P. #6b, and S.P. #8a were also analyzed for TPH and BTEX concentrations using EPA Methods SW-846 8015M and SW-846 8021b, respectively. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory method detection limit (MDL) in soil samples S.P. #2a, S.P. #3, S.P. #5, S.P. #6b, S.P. #7, and S.P. #8a to 1,120 mg/kg in soil sample S.P. #1. TPH and BTEX constituent concentrations in soil samples S.P. #2a, S.P. #6b, and S.P. #8a were less than the appropriate laboratory MDL. Soil sample locations are depicted in Figure #2, "Site & Sample Location Map". Laboratory analytical results are summarized in Table 1, "Concentrations of Benzene, BTEX, TPH & Chloride in Soil".

Review of laboratory analytical results indicated further excavation was required in the area represented by soil sample SP #1.

During the course of excavation activities, an area of deeper soil impact was discovered in the floor of the Pasture Excavation. From May 6 through May 9, 2014, a series of eight (8) delineation trenches (TT-12 through TT-19) were advanced in the floor the excavation to investigate the vertical extent of impacted soil. Delineation trenches TT-12 through TT-17 were advanced from east to west in the primary pooling area of the release, beginning with trench TT-12 in the eastern portion of the Pasture Excavation and ending with trench TT-16 in the western portion of the excavation. Delineation trenches TT-18 and TT-19 were advanced along the flow path of the

release, in the northern portion of the excavation. The delineation trenches were spaced approximately fifty feet (50') apart and were advanced in ten-foot (10') horizontal increments. The trenches were initially advanced to approximately five feet (5') bgs, and soil samples collected from the trench floors were field-screened with a chloride field test kit. Subsequent soil samples were collected at approximately two-foot (2') vertical increments. A selection of representative soil samples were submitted to the laboratory for confirmatory chloride, TPH, and/or BTEX analyses.

Delineation trench TT-12 was advanced north-to-south in the eastern floor of the Pasture Excavation. The trench ranged in depth from approximately five feet (5') to approximately nineteen feet (19') bgs. Five (5) confirmation soil samples (TT-12 SP #1b, TT-12 SP #2, TT-12 SP #2d, TT-12 SP #2f, and TT-12 SP #3) were submitted to the lab for analysis of chloride, TPH, and/or BTEX concentrations. Laboratory analytical results indicated chloride concentrations ranged from 48.0 mg/kg in soil sample TT-12 SP #1b to 9,730 mg/kg in soil sample TT-12 SP #2d. TPH and BTEX constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples.

Delineation trench TT-13 was advanced north-to-south in the floor of the Pasture Excavation, approximately fifty feet (50') to the west of trench TT-12. The trench ranged in depth from approximately five feet (5') to approximately fifteen feet (15') bgs. Five (5) confirmation soil samples (TT-13 SP #1b, TT-13 SP #2, TT-13 SP #2c, TT-13 SP #2e, and TT-13 SP #3) were submitted to the laboratory for analysis of TPH, BTEX, and/or chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 16.0 mg/kg in soil sample TT-13 SP #3 to 8,530 mg/kg in soil sample TT-13 SP #2. TPH and BTEX constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples.

Delineation trench TT-14 was advanced north-to-south in the floor of the Pasture Excavation, approximately fifty feet (50') to the west of trench TT-13. The trench ranged in depth from approximately five feet (5') to approximately fifteen feet (15') bgs. Six (6) soil samples (TT-14 SP #1, TT-14 SP #1f, TT-14 SP #2, TT-14 SP #2c, TT-14 SP #2e, and TT-14 SP #3) were submitted to the laboratory for analysis of TPH, BTEX, and/or chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory MDL in soil sample TT-14 SP #2e to 10,300 mg/kg in soil sample TT-14 SP #1. TPH and BTEX constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples.

Delineation trench TT-15 was advanced north-to-south in the floor of the Pasture Excavation, approximately fifty feet (50') to the west of trench TT-14. The trench ranged in depth from approximately five feet (5') to approximately sixteen feet (16') bgs. Five (5) soil samples (TT-15 SP #1, TT-15 SP #2, TT-15 SP #2e, and TT-15 SP #3b) were submitted to the laboratory for analysis of TPH, BTEX, and/or chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 48.0 mg/kg in soil sample TT-15 SP #3b to 8,640 mg/kg in soil sample TT-15 SP #2. TPH and BTEX constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples.

Delineation trench TT-16 was advanced north-to-south in the floor of the Pasture Excavation, approximately fifty feet (50') to the west of trench TT-15. The trench ranged in depth from approximately five feet (5') to approximately eleven feet (11') bgs. Four (4) soil samples (TT-16 SP #1, TT-16 SP #2, TT-16 SP #2c, and TT-16 SP #3) were submitted to the laboratory for analysis

of TPH, BTEX, and/or chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory MDL in soil sample TT-16 SP #2c to 2,240 mg/kg in soil sample TT-16 SP #2. TPH and BTEX constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples.

Delineation trench TT-17 was advanced north-to-south in the floor of the Pasture Excavation, approximately fifty feet (50') to the west of trench TT-16. The trench averaged approximately five feet (5') in depth. One (1) confirmation soil sample (TT-17 SP #2) was submitted to the laboratory for analysis of TPH, BTEX, and chloride concentrations. Laboratory analytical results indicated the chloride concentration was 32.0 mg/kg, and TPH and BTEX constituent concentrations were less than the appropriate laboratory MDL.

Delineation trench TT-18 was advanced northwest-to-southeast along the midline of the flow path of the release, approximately twenty-five feet (25') to the northwest of trench TT-15. The trench ranged in depth from approximately five feet (5') to approximately fifteen feet (15') bgs. Seven (7) confirmation soil samples (TT-18 SP #4, TT-18 SP #5, TT-18 SP #5c, TT-18 SP #5e, TT-18 SP #6, TT-18 SP #7a, and TT-18 SP #10) were submitted to the laboratory for analysis of chloride, TPH, and/or BTEX concentrations. Laboratory analytical results indicated chloride concentrations ranged from 48.0 mg/kg in soil sample TT-18 SP #10 to 7,280 mg/kg in soil sample TT-18 SP #6. TPH and BTEX constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples.

Delineation trench TT-19 was advanced east-to-west across the flow path of the release, from the eastern wall of the excavation to the western wall, and bisected trench TT-18. The trench was advanced to a total depth of approximately five feet (5') bgs. Two (2) confirmation soil samples (TT-19 SP #1 and TT-19 SP #3) were submitted to the laboratory for analysis of chloride, TPH, and BTEX concentrations. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory MDL in soil sample TT-19 SP #3 to 320 mg/kg in soil sample TT-19 SP #1. TPH and BTEX constituent concentrations were less than the appropriate laboratory MDL in both soil samples.

On May 9, 2014, following advancement of delineation trench TT-19, trench TT-12 was reexcavated to approximately nineteen feet (19') bgs. One (1) soil sample was collected from the floor of the trench, field-screened with a chloride field test kit, and submitted to the laboratory for analysis of chloride, TPH, and BTEX concentrations. Laboratory analytical results indicated the chloride concentration was 32.0 mg/kg. TPH and BTEX constituent concentrations were less than the appropriate laboratory MDL.

The Pasture Excavation was advanced in the area represented by soil sample S.P. #1, and six (6) confirmation soil samples (S.P. #1B, S.P. #9, S.P. #10A, S.P. #11, S.P. #12A, and S.P. #14) were collected from the sidewalls of the excavation and submitted to the laboratory for analysis of chloride concentrations. Soil samples S.P. #1B, S.P. #10A, and S.P. #12A were also analyzed for concentrations of TPH and BTEX. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory MDL in soil sample S.P. #10A to 1,300 mg/kg in soil sample S.P. #9. TPH and BTEX constituent concentrations in soil samples S.P. #1B, S.P. #10A, and S.P. #12A were less than the appropriate laboratory MDL.

On May 12, 2014, excavation of the Pad Excavation commenced. Excavated soil was stockpiled on-site, pending final disposition.

On May 14, 2014, ten (10) soil samples (Pad Floor #2, Pad Floor #5, Pad Floor #7, Pad Floor #8, Pad SP #2, Pad SP #4, Pad SP #6, Pad SP #8, Pad SP #9, Pad SP #10) were collected from the floor and sidewalls of the Pad Excavation and submitted to the laboratory for analysis of chloride concentrations. Soil samples Pad Floor #2, Pad Floor #5, Pad Floor #7, and Pad Floor #8 were also analyzed for concentrations of TPH and BTEX. Laboratory analytical results indicated chloride concentrations ranged from 64.0 mg/kg in soil sample Pad SP #10 to 1,100 mg/kg in soil sample Pad SP #4. TPH and BTEX constituent concentrations in soil samples Pad Floor #2, Pad Floor #5, Pad Floor #7, and Pad Floor #8 were less than the appropriate laboratory MDL.

Further excavation of the area represented by soil sample Pad SP #4 was deemed impracticable due to the presence of active pipelines and electrical conduit adjacent to the excavation.

On May 20, 2014, fourteen (14) soil samples (Pad Floor #4b, Pad Floor #6b, Pad Floor #11, Pad Floor #12, Pad Floor #13, Pad Floor #14, Pad SP #7b, Pad SP #11, Pad SP #12, Pad SP #13, Pad SP #14, Pad SP #15, Pad SP #16, and Pad SP #17) were collected from the floor and sidewalls of the Pad Excavation and submitted to the laboratory for analysis of chloride concentrations. Soil samples Pad Floor #4b, Pad Floor #6b, Pad Floor #11, and Pad Floor #14 were also analyzed for concentrations of TPH and BTEX. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory MDL in soil samples Pad Floor #12 and Pad Floor #13 to 2,040 mg/kg in soil sample Pad SP #13. TPH and BTEX constituent concentrations in soil samples Pad Floor #4b, Pad Floor #6b, Pad Floor #11, and Pad Floor #14 were less than the appropriate laboratory MDL.

Further excavation in the area represented by soil sample Pad SP #13 was deemed impracticable due to the presence of an active pipeline adjacent to the excavation.

On May 21, 2014, a twenty-millimeter (20mm), impermeable, polyurethane liner was installed on the floor of the Pasture Excavation at approximately three feet (3') bgs. The placement and size of the liner was determined by reviewing field-screen results and laboratory analytical data from the delineation trenches advanced at the site from May 6 through May 9, 2014. The footprint of the liner is depicted in Figure 2, "Site & Sample Location Map".

On May 27, 2014, eight (8) soil samples (Pad Floor #15, Pad Floor #16, Pad SP #20, Pad SP #21, Pad SP #22, Pad SP #23, Pad SP #24, and Pad SP #25) were collected from the floor and sidewalls of the Pad Excavation and submitted to the laboratory for analysis of chloride concentrations. Soil sample Pad Floor #16 was also analyzed for concentrations of TPH and BTEX. Laboratory analytical results indicated chloride concentrations ranged from 16.0 mg/kg in soil sample Pad Floor #16 to 464 mg/kg in soil sample Pad SP #23. TPH and BTEX constituent concentrations in soil sample Pad Floor #16 were less than the appropriate laboratory MDL.

On May 28, 2014, four (4) soil samples (Pad Floor #9, Pad Floor #10, Pad SP #18, and Pad SP #19) were collected from the floor and sidewalls of the Pad Excavation and submitted to the laboratory for analysis of chloride concentrations. Soil samples Pad Floor #9 and Pad Floor #10 were also analyzed for concentrations of TPH and BTEX. Laboratory analytical results indicated chloride concentrations ranged from 64.0 mg/kg in soil sample Pad Floor #9 to 560 mg/kg in soil

sample Pad SP #18. TPH and BTEX constituent concentrations in soil sample Pad Floor #9 and Pad Floor #10 were less than the appropriate laboratory MDL.

On June 2, 2014, the Pad Excavation was advanced in the area of soil sample Pad SP #7b. One (1) confirmation soil sample (Pad SP #7c) was collected from the sidewall of the excavation and submitted to the laboratory for analysis of chloride, TPH, and BTEX concentrations. Laboratory analytical results indicated the chloride concentration was 80.0 mg/kg. TPH and BTEX constituent concentrations were less than the appropriate laboratory MDL.

On June 5, 2014, the Pasture Excavation was advanced in the area of soil sample SP #9. One (1) soil sample (SP #9b) was collected from the sidewall of the excavation and submitted to the laboratory for analysis of chloride, TPH, and BTEX concentrations. Laboratory analytical results indicated the chloride concentration was 176 mg/kg. TPH and BTEX constituent concentrations were less than the appropriate laboratory MDL.

Based on laboratory analytical results and field-screens, from May 20 through June 11, 2014, the Pasture and Pad Excavations were backfilled with locally purchased, non-impacted material, compacted, and contoured to fit the surrounding topography. The final dimensions of the Pasture Excavation were approximately two hundred and eighty-five feet (285') in length, varying in width from approximately twenty-five feet (25') to approximately two hundred and sixty feet (260') along the flow path of the release, and approximately four feet (4') in depth. The final dimensions of the Pad Excavation were approximately one hundred and sixty-five feet (165') in length, varying in width from approximately thirty feet (30') to approximately one hundred and forty feet (140'), and varying in depth from approximately one and one-half feet (2.5') bgs.

On June 18, 2014, the affected pastureland was seeded with a BLM-approved seed mixture.

#### 4.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) PROCEDURES

#### 4.1 Soil Sampling

Soil samples were delivered to Cardinal Laboratories 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 Methods 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

The PLU #162 release site was excavated to the extent practicable. Soil samples collected from the floors and sidewalls of the excavations were analyzed by an NMOCD-approved laboratory, and concentrations of benzene, BTEX, and TPH were below the recommended remediation action levels (RRAL's) established for the site by the NMOCD.

A twenty-millimeter (20mm), impermeable, polyurethane liner was installed on the floor of the Pasture excavation prior to backfilling. This engineered control will help mitigate future releases and effectively inhibit vertical migration of contaminants to groundwater. In-situ soil exhibiting chloride contaminations above the RRAL established for the site will be remediated upon decommission and/or abandonment of the currently active well, pipelines, and/or electrical utilities.

Basin Environmental recommends BOPCO provide the NMOCD Artesia District Office and the BLM a copy of this *Remediation Summary & Risk-Based Site Closure Request* and request the NMOCD grant site closure to the PLU #162 release site.

#### 6.0 LIMITATIONS

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

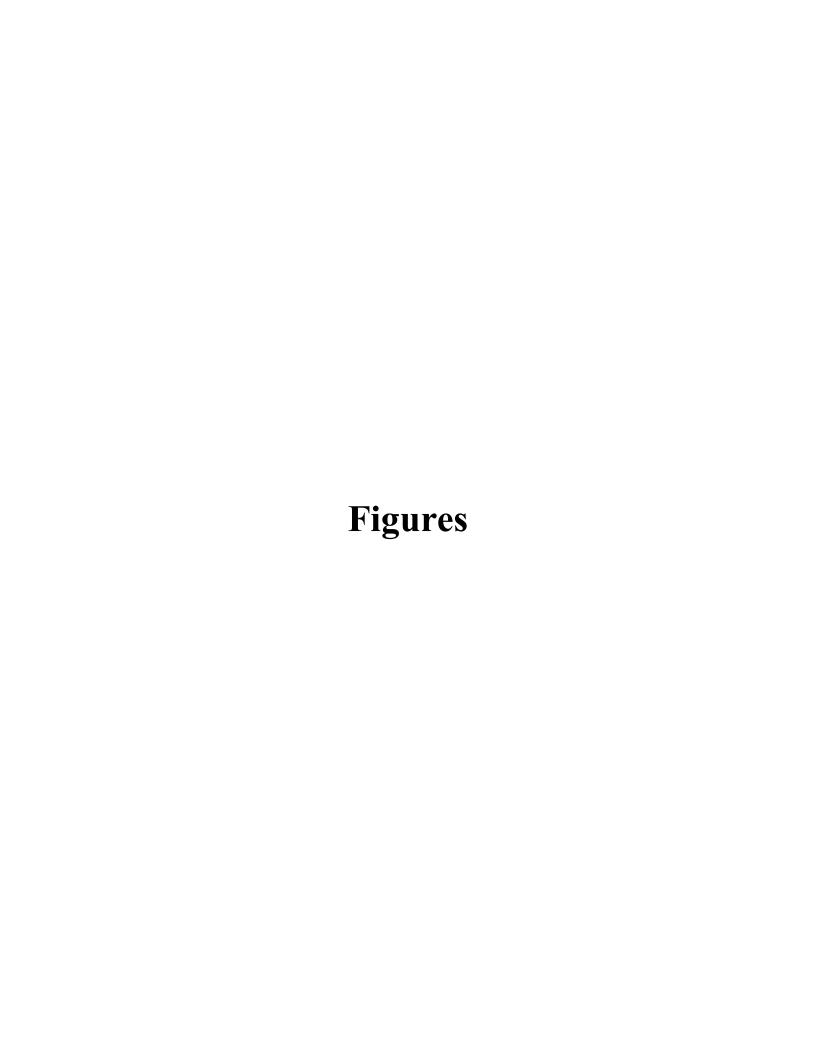
BOPCO, LP

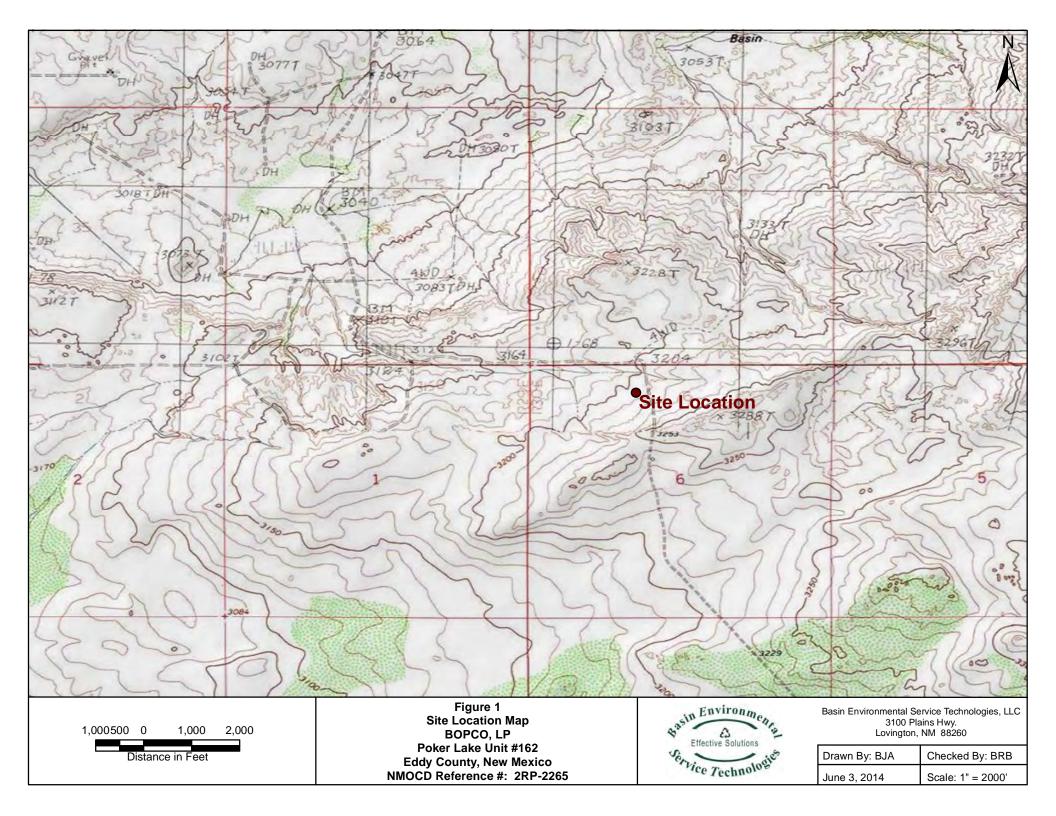
522 W. Mermod, Suite 704 Carlsbad, NM 88220

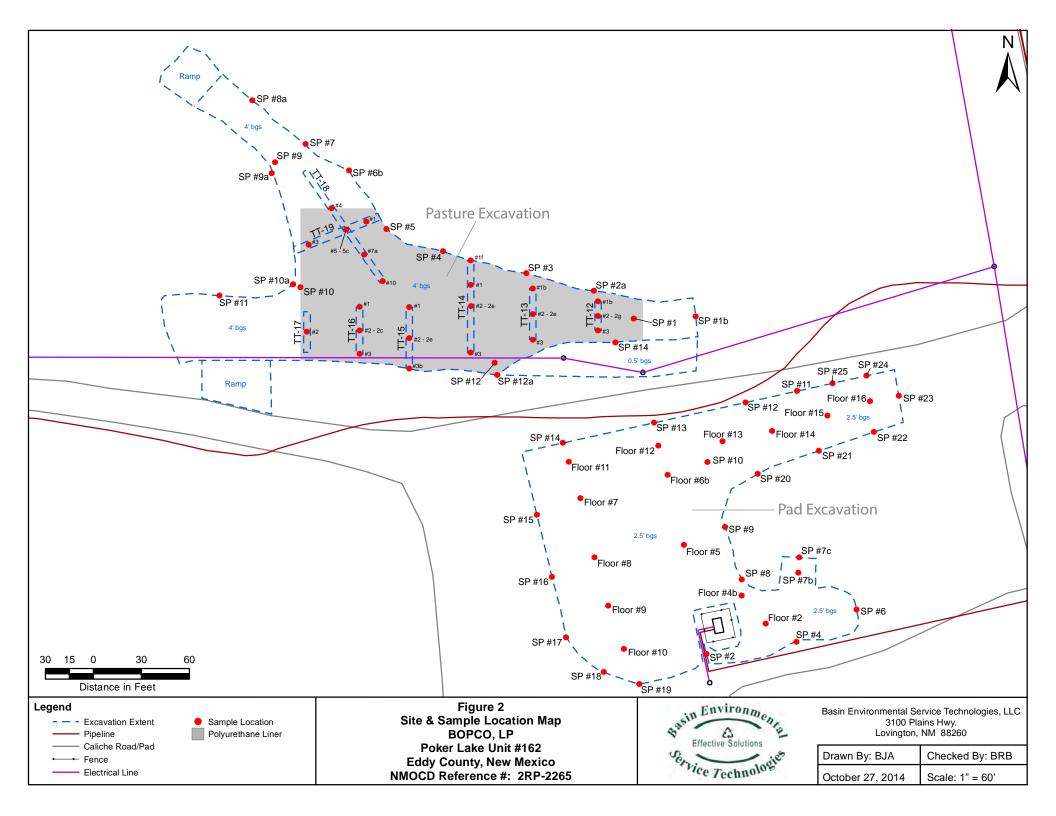
Copy 4: Basin Environmental Service Technologies, LLC

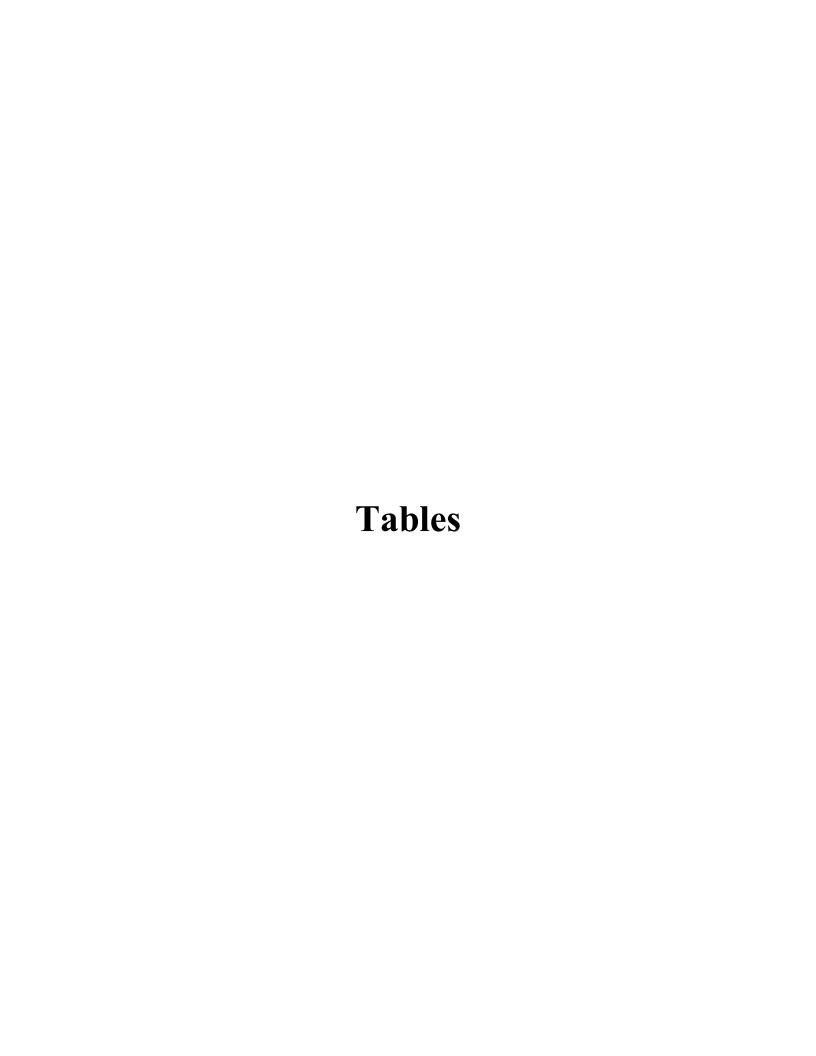
P.O. Box 301

Lovington, NM 88260









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

#### BOPCO, LP POKER LAKE UNIT #162 EDDY COUNTY, NEW MEXICO NMOCD REFERENCE #: 2RP-2265

		SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030						THOD: 80	TOTAL	4500 CI-B	
SAMPLE LOCATION	SAMPLE DEPTH (BGS)			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C <sub>6</sub> -C <sub>12</sub> (mg/Kg)	DRO C <sub>12</sub> -C <sub>28</sub> (mg/Kg)	ORO C <sub>28</sub> -C <sub>35</sub> (mg/Kg)	TPH C <sub>6</sub> -C <sub>35</sub> (mg/Kg)	CHLORIDE (mg/Kg)
SP #1	3'	4/28/2014	Excavated	-	-	-	-	-	-	-	-	-	1,120
SP #2a	3'	4/28/2014	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SP #3	3'	4/28/2014	In-Situ	-	-	-	-	-	-	-	-	-	<16.0
SP #4	3'	4/28/2014	In-Situ	-	-	-	-	-	-	-	-	-	16.0
SP #5	3'	4/28/2014	In-Situ	-	-	-	-	-	-	-	-	-	<16.0
SP #6b	3'	4/28/2014	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SP #7	3'	4/28/2014	In-Situ	-	=	-	=	-	-	-	-	-	<16.0
SP #8a	3'	4/28/2014	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<16.0
TT-12 SP #1b	5'	5/6/2014	In-Situ	< 0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	48.0
TT-12 SP #2	5'	5/6/2014	In-Situ	< 0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	6,660
TT-12 SP #2d	13'	5/6/2014	In-Situ	-	-	-	-	-	-	-	-	-	9,730
TT-12 SP #2f	17'	5/6/2014	In-Situ	-	-	_	_	-	_	-	-	-	8,530
TT-12 SP #2g	19'	5/9/2014	In-Situ	< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
TT-12 SP #3	5'	5/6/2014	In-Situ	-	-	-	-	-	-	-	-	-	9,060
		0,0,0											3,000
TT-13 SP #1b	7'	5/6/2014	In-Situ	-	-	-	-	-	-	-	-	-	336
TT-13 SP #2	5'	5/6/2014	In-Situ	_	_	_	_	_	_	-	_	_	8,530
TT-13 SP #2c	11'	5/6/2014	In-Situ	_	_	_	_	_	_	_	_	_	7,730
TT-13 SP #2e	15'	5/6/2014	In-Situ	_	_	_	_	-	_	_	_	-	64.0
TT-13 SP #3	5'	5/6/2014	In-Situ	_	_	_	_	_	_	_	_	_	16.0
		0/0/2011	0										. 5.5
TT-14 SP #1	5'	5/7/2014	In-Situ	-	-	-	-	-	-	-	-	-	10,300
TT-14 SP #1f	7'	5/7/2014	In-Situ	< 0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
TT-14 SP #2	5'	5/7/2014	In-Situ	< 0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	6,400
TT-14 SP #2c	11'	5/7/2014	In-Situ		101000	101000		101000	<10.0	<10.0	<10.0	<10.0	3,200
TT-14 SP #2e	15'	5/7/2014	In-Situ	< 0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<16.0
TT-14 SP #3	5'	5/7/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
		0///2011	0	10.000	10.000	10.000	101100	10.000	1.0.0	11010	11010	11010	52.0
TT-15 SP #1	5'	5/7/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	448
TT-15 SP #2	5'	5/7/2014	In-Situ	-	-	-	-	-	-	-	-	-	8,640
TT-15 SP #2c	12'	5/7/2014	In-Situ	-	_	_	_	_	_	<u> </u>	_	_	3,720
TT-15 SP #2e	16'	5/7/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	384
TT-15 SP #3b	7'	5/7/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
11.00. 1100	,	5,.,2017	Oita	10.000	10.000	10.000	40.100	10.000	1.0.0	1.0.0	1.0.0	1.0.0	.5.0
TT-16 SP #1	5'	5/8/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	224
TT-16 SP #2	5'	5/8/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2,240
TT-16 SP #2c	11'	5/8/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0

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

#### BOPCO, LP POKER LAKE UNIT #162 EDDY COUNTY, NEW MEXICO NMOCD REFERENCE #: 2RP-2265

	METHOD: EPA SW 846-8021B, 5030 METHOD: 8015M							15M	TOTAL	4500 CI-B			
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)		TOTAL XYLENES	TOTAL BTEX	GRO C <sub>6</sub> -C <sub>12</sub>	DRO C <sub>12</sub> -C <sub>28</sub>	ORO C <sub>28</sub> -C <sub>35</sub>	TPH C <sub>6</sub> -C <sub>35</sub>	CHLORIDE (mg/Kg)
	(= 3.5)			(9/119/	(9,9)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(9/119/
TT-16 SP #3	5'	5/8/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	368
TT-17 SP #2	5'	5/8/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
	_												
TT-18 SP #4	5'	5/8/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
TT-18 SP #5	5'	5/8/2014	In-Situ	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,660
TT-18 SP #5c	11'	5/8/2014	In-Situ	- 0.050	- 0.050	- 0.050	- 0.450	- 0.000	-	-	-	- 40.0	2,200
TT-18 SP #5e	15'	5/8/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	192
TT-18 SP #6 TT-18 SP #7a	5' 10'	5/8/2014 5/8/2014	In-Situ	<0.050	- <0.050	- <0.050	- <0.150		<10.0	- <10.0	- 10.0	- 10.0	<b>7,280</b> 336
TT-18 SP #/a	5'		In-Situ		<0.050			<0.300			<10.0	<10.0	
11-10 07 #10	5	5/8/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
TT-19 SP #1	5'	5/9/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	320
TT-19 SP #3	5'	5/9/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
11-19-01-#0		3/3/2014	III-Oitu	<0.030	<b>VO.030</b>	<b>VO.030</b>	<0.130	<0.500	<10.0	<10.0	<10.0	<10.0	<10.0
SP #1b	3'	5/9/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SP #9	3'	5/9/2014	Excavated	-	-	-	-	-	-	-	-	-	1,300
SP #10a	3'	5/9/2014	In-Situ	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SP #11	3'	5/9/2014	In-Situ	-	-	-	-	-	-	-	-	-	240
SP #12a	3'	5/9/2014	In-Situ	< 0.050	< 0.050	<0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	144
SP #14	3'	5/9/2014	In-Situ	-	-	-	-	-	-	-	-	-	64.0
Pad Floor #2	1.5'	5/14/2014	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	336
Pad Floor #5	1.5'	5/14/2014	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	240
Pad Floor #7	2'	5/14/2014	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	176
Pad Floor #8	2'	5/14/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	304
Pad SP #2	1'	5/14/2014	In-Situ	-	-	-	-	-	-	-	-	-	960
Pad SP #4	1'	5/14/2014	In-Situ	-	-	-	-	-	-	-	-	-	1,100
Pad SP #6	1'	5/14/2014	In-Situ	-	-	-	-	=	-	-	-	-	944
Pad SP #8	1'	5/14/2014	In-Situ	-	-	-	-	=	-	-	-	-	640
Pad SP #9	1'	5/14/2014	In-Situ	-	-	-	-	-	-	-	-	-	672
Pad SP #10	1'	5/14/2014	In-Situ	-	-	-	-	-	-	-	-	-	64.0
D   E  "41		E (0.0 (0.0 : :	1 00	0.050	0.055	0.056	0.456	0.005	10.5	10.6	10.5	40.0	
Pad Floor #4b	2'	5/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
Pad Floor #6b	2.5'	5/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	432
Pad Floor #11	2.5'	5/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
Pad Floor #12	2.5'	5/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	<16.0
Pad Floor #13	2.5'	5/20/2014	In-Situ	-	_	-	-	-	-	-	-	-	<16.0

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

#### BOPCO, LP POKER LAKE UNIT #162 EDDY COUNTY, NEW MEXICO NMOCD REFERENCE #: 2RP-2265

	T	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030						THOD: 80	TOTAL	4500 CI-B	
SAMPLE LOCATION	SAMPLE DEPTH (BGS)			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C <sub>6</sub> -C <sub>12</sub> (mg/Kg)	DRO C <sub>12</sub> -C <sub>28</sub> (mg/Kg)		TPH C <sub>6</sub> -C <sub>35</sub>	CHLORIDE (mg/Kg)
Pad Floor #14	2.5'	5/20/2014	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	144
Pad SP #7b	1'	5/20/2014	Excavated	-	-	-	-	-	-	-	-	-	1,150
Pad SP #11	2'	5/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	208
Pad SP #12	2'	5/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	192
Pad SP #13	2'	5/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	2,040
Pad SP #14	2'	5/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	64.0
Pad SP #15	2'	5/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	96.0
Pad SP #16	2'	5/20/2014	In-Situ	-	-	-	-	-	-	-	-	1	144.0
Pad SP #17	2'	5/20/2014	In-Situ	-	-	-	-	-	-	-	-	ı	160
Pad Floor #15	2.5'	5/27/2014	In-Situ	-	-	-	-	-	-	-	-		32.0
Pad Floor #16	2.5'	5/27/2014	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	16.0
Pad SP #20	2'	5/27/2014	In-Situ	-	-	-	-	-	-	-	-		384
Pad SP #21	2'	5/27/2014	In-Situ	-	-	-	-	-	-	-	-	-	288
Pad SP #22	2'	5/27/2014	In-Situ	-	-	-	-	-	-	-	-	-	80.0
Pad SP #23	2'	5/27/2014	In-Situ	-	-	-	-	-	-	-	-	-	464
Pad SP #24	2'	5/27/2014	In-Situ	-	-	-	-	-	-	-	-	ı	80.0
Pad SP #25	2'	5/27/2014	In-Situ	-	-	-	-	-	-	-	-	-	64.0
Pad Floor #9	2.5'	5/28/2014	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	64.0
Pad Floor #10	2.5'	5/28/2014	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	144
Pad SP #18	2'	5/28/2014	In-Situ	-	-	-	-	-	-	-	-	-	560
Pad SP #19	2'	5/28/2014	In-Situ	-	-	-	-	-	-	-	-	-	272
Pad SP #7c	1'	6/2/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
SP #9a	1'	6/5/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	176
NMOCD Recomm	ended Remo	ediation Act	ion Level	10				50				5,000	1,000
- = Not analyzed.													

 <sup>- =</sup> Not analyzed.



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

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District IV 1020 S. St. Francis Dr., Santa Fe, NM 87505

#### State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

Form C-141

			Kei	ease Nothi	cation	n and Co	orrective A	ction	1						
aHMP	14118	29494				<b>OPERA</b>	ГOR			al Report	П	Final Repo			
		OPCO, L.P.		26073	7	Contact: Tony Savoie									
Address: 52	22 W. Men	mod, Suite 7		oad, N.M. 88220		Telephone No. 575-887-7329									
Facility Na	me: PLU-1	62				Facility Type: Exploration and Production									
Surface Ow	ner: Feder	al		Mineral C	)wner:	ner: Federal API No. 30-015-35522									
		•		LOCA	ATIO	N OF REI	LEASE								
Unit Letter C							Feet from the 1855	East/\ We	West Line est	County Eddy					
	1		<u> </u>			-	e W 103.923572								
		<del></del>		<u>NAT</u>	URE	OF RELI		——							
Type of Rele Source of Re			ar inication	n lina		<del></del>	Release: 400 bbls			Recovered: Necovered:					
						4/20/14 tim	e unknown			t 5:00 a.m.	covery				
Was Immedi	ate Notice C		Yes [	No □ Not Re	equired	If YES, To NMOCD e	Whom? mergency #104 ar	nd the E	BLM						
By Whom? T						<del></del>	our: 4/20/14 at 9:								
Was a Water	course Reac		Yes 🗵	No		If YES, Volume Impacting the Watercourse.    RECEIVED									
If a Watercou	ırse was Imr	pacted, Descri	be Fully.*			<u> </u>			<u> </u>		ΛĽΤ	<del>-  </del>			
	·	,							ļ	APR 24 OCD AF		SIA			
Describe Cau A 1" high pre				Taken.* to the well failed	at the c	oupling. The	hose section was i	eplaced	i		AND THE PERSON NAMED IN	,			
survey. Basin	acted approx Environme	kimately 22,5 ntal began de	00 sq.ft. o	en.* f well pad area an activities on 4/21// NMOCD and BL	14 and s	tarted removis	ng impacted soil of	e area. ' on 4/22/	The site wa	s cleared by nediation is	the BL in prog	.M Arch gress.			
regulations al public health should their o	I operators a or the environ perations ha ment. In ad	or required to comment. The eve failed to a dition, NMO	report and acceptance dequately CD accept	is true and compled/or file certain ree of a C-141 repoinvestigate and reance of a C-141 r	clease no rt by the emediate	otifications and NMOCD mate contamination	d perform correct rked as "Final Re n that pose a thre	ive action port" do at to gro	ons for rele oes not relic ound water,	eases which the eve the oper surface was	may end ator of l ter, hum	danger liability nan health			
-						OIL CONSERVATION DIVISION									
Signature:	1 ong	Zunu				1/ /									
Printed Name	: Tony Savo	ie			^	Approved by E	Environmental Spe	ecialist:	the	M	,				
Title: Waste Management and Remediation Specialist  Approval Date: 4/28/14  Expiration Date: NA										4					
E-mail Addres	ss: tasavoie	)basspet.com	<u> </u>			Conditions of				Attached					
Date: 4/24/14				hone: 432-556-87	/30 lil	Remediation per OCD Rule & Guidolinea &									
Attach Additional Sheets If Necessary  Phone: 432-556-8730   like approval by BLM. SUBMIT REMEDIATION PROPOSAL NO LATER THAN:  227 - 2263											265				

Appendix B Photographs



Poker Lake Unit #162 – Point of Release



Poker Lake Unit #162 – Release Site (Looking Southwest)



Poker Lake Unit #162 – Release Site (Looking West)



Poker Lake Unit #162 – Release Site (Looking Northwest)



Poker Lake Unit #162 – Release Site (Looking East)



Poker Lake Unit #162 – Release Site (Looking North)



Poker Lake Unit #162 – Release Site (Looking South)



Poker Lake Unit #162 – Release Site (Looking South)



Poker Lake Unit #162 – Release Site (Looking West)



Poker Lake Unit #162 – Pasture Excavation (Looking West)



Poker Lake Unit #162 – Pasture Excavation (Looking Northeast)



Poker Lake Unit #162 – Pasture Excavation (Looking Southwest)



Poker Lake Unit #162 – Pasture Excavation (Flow Path; Looking Northwest)



Poker Lake Unit #162 – Pasture Excavation (Flow Path; Looking Southeast)



Poker Lake Unit #162 – Pasture Excavation (Looking East-Southeast)



Poker Lake Unit #162 – Delineation Trenching



Poker Lake Unit #162 – Delineation Trenching (TT-12)



Poker Lake Unit #162 – Pad Excavation (Looking West)



Poker Lake Unit #162 – Pad Excavation (Looking Northwest)



Poker Lake Unit #162 – Pad Excavation (Looking North)



Poker Lake Unit #162 – Pad Excavation (Looking Southwest)



Poker Lake Unit #162 – Pad Excavation (Following Additional Excavation in Area of Soil Sample Pad Floor #6; Looking West)



Poker Lake Unit #162 – Pad Excavation (Following Additional Excavation in Area of Soil Sample Pad Floor #6; Looking West)



Poker Lake Unit #162 – Pad Excavation (Following Additional Excavation in Area of Soil Sample Pad SP #7; Looking Southeast)



Poker Lake Unit #162 – Liner Installation



Poker Lake Unit #162 – Liner Installation



Poker Lake Unit #162 – Liner Installation



Poker Lake Unit #162 – Liner Installation



Poker Lake Unit #162 – Liner Installation & Backfilling

# Appendix E Laboratory Analytical Reports



May 13, 2014

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #162

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

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

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.

Celey D. Kuno

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/30/2014

Reported: 05/13/2014
Project Name: PLU #162
Project Number: NONE GIVEN

Project Location: EDDY COUNTY, NM

mg/kg

Sampling Date: 04/28/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: S. P. #1 (H401300-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	05/06/2014	ND	400	100	400	3.92	

Analyzed By: ms

#### Sample ID: S. P. #2A (H401300-02)

**BTEX 8260B** 

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2014	ND	2.32	116	2.00	5.07	
Toluene*	<0.050	0.050	05/12/2014	ND	2.22	111	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/12/2014	ND	2.07	103	2.00	5.42	
Total Xylenes*	<0.150	0.150	05/12/2014	ND	6.37	106	6.00	5.59	
Total BTEX	<0.300	0.300	05/12/2014	ND					
Surrogate: Dibromofluoromethane	96.3	% 61.3-14	12						
Surrogate: Toluene-d8	106	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	98.9	% 65.7-14	!1						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/06/2014	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/12/2014	ND	195	97.3	200	0.174	
DRO >C10-C28	<10.0	10.0	05/12/2014	ND	205	102	200	0.686	
EXT DRO >C28-C35	<10.0	10.0	05/12/2014	ND					

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service BEN J. ARGUIJO

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/30/2014 Sampling Date: 04/28/2014

Reported: Sampling Type: Soil 05/13/2014

Project Name: PLU #162 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: S. P. #2A (H401300-02)

TPH 8015M

TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

127 % 65.2-140 Surrogate: 1-Chlorooctane 130 % Surrogate: 1-Chlorooctadecane 63.6-154

#### Sample ID: S. P. #3 (H401300-03)

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	05/06/2014	ND	400	100	400	3.92	

#### Sample ID: S. P. #4 (H401300-04)

Chloride, SM4500CI-B	loride, SM4500Cl-B mg/kg								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/06/2014	ND	400	100	400	3.92	

#### Sample ID: S. P. #5 (H401300-05)

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	05/06/2014	ND	400	100	400	3.92	

Cardinal Laboratories \*=Accredited Analyte

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/30/2014 Sampling Date: 04/28/2014

Reported: 05/13/2014 Sampling Type: Soil

EDDY COUNTY, NM

Project Name: PLU #162 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Sample ID: S. P. #6B (H401300-06)

Project Location:

BTEX 8260B	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	05/12/2014	ND	2.32	116	2.00	5.07	
Toluene*	<0.050	0.050	05/12/2014	ND	2.22	111	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/12/2014	ND	2.07	103	2.00	5.42	
Total Xylenes*	<0.150	0.150	05/12/2014	ND	6.37	106	6.00	5.59	
Total BTEX	<0.300	0.300	05/12/2014	ND					
Surrogate: Dibromofluoromethane	97.8	% 61.3-14	2						
Surrogate: Toluene-d8	104	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	98.0	% 65.7-14	1						
Chloride, SM4500CI-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	05/06/2014	ND	400	100	400	3.92	
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	05/12/2014	ND	195	97.3	200	0.174	
DRO >C10-C28	<10.0	10.0	05/12/2014	ND	205	102	200	0.686	
EXT DRO >C28-C35	<10.0	10.0	05/12/2014	ND					
Surrogate: 1-Chlorooctane	119 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	120	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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Basin Environmental Service

BEN J. ARGUIJO P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/30/2014 Sampling Date: 04/28/2014

Reported: 05/13/2014 Sampling Type: Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: S. P. #7 (H401300-07)

Chloride, SM4500CI-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	05/06/2014	ND	400	100	400	3.92	

Cardinal Laboratories \*=Accredited Analyte

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/30/2014 Sampling Date: 04/28/2014

Reported: 05/13/2014 Sampling Type: Soil

EDDY COUNTY, NM

Project Name: PLU #162 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Sample ID: S. P. #8A (H401300-08)

Project Location:

BTEX 8260B	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	05/12/2014	ND	2.32	116	2.00	5.07	
Toluene*	<0.050	0.050	05/12/2014	ND	2.22	111	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/12/2014	ND	2.07	103	2.00	5.42	
Total Xylenes*	<0.150	0.150	05/12/2014	ND	6.37	106	6.00	5.59	
Total BTEX	<0.300	0.300	05/12/2014	ND					
Surrogate: Dibromofluoromethane	94.3	% 61.3-14	2						
Surrogate: Toluene-d8	103	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	101	% 65.7-14	1						
Chloride, SM4500CI-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	05/06/2014	ND	400	100	400	3.92	
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	05/12/2014	ND	195	97.3	200	0.174	
DRO >C10-C28	<10.0	10.0	05/12/2014	ND	205	102	200	0.686	
EXT DRO >C28-C35	<10.0	10.0	05/12/2014	ND					
Surrogate: 1-Chlorooctane	125	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	128	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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# ARDINAL LABORATORIES

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Basin Environmental Service Techno	ologie	es, L	LC						B	3/1	L TO					ANALYSIS REQUEST
Project Manager:	Ben Arguijo							P.0	0. #:	:							
Address: P.O. E	Box 301							Co	mp	any:		ВОРС	O, LP	1			
City: Lovington	State: NM	Zip	: 8	8260	)			Att	n:			Tony Savo	ie				
Phone #: (575)	396-2378 Fax #: (575)3	96-14	129					Ad	dre	ss:		522 W. Ma	arland				
Project #:	Project Owne	r:	BC	OPC	O, LI	Р		Cit	v:			Carlsbad	1	1			
Project Name:	PLU #162									NN	1 :		38220		N N	18)	*
Project Location:	Eddy Co., NM							1	one			(432)556-		Chloride	TPH (8015M)	BTEX (8021B)	
Sampler Name:									x #:			(102)000	0.00	1 š	H	×	##
FOR LAB USE ONLY		Т	Г		MA	ATRI	IX	1	_	ESER	v.	SAMPLIN	NG	1~	F	BT	万
Lab I.D. H401300	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	100	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME				BTEX
1	S.P. #1	G	1		)	<				X		4/28/14	0910	X	1	1	
2	S.P. #2a	G	1		)	ζ.				X		4/28/14	1050	X			$\times$
3	S.P. #3	G	1		)	K				Х		4/28/14	0930	Х			
4	S.P. #4	G	1		>	K				X		4/28/14	0940	X			
5	S.P. #5	G	1		)	K				X		4/28/14	0950	X	HOLA	3	
6	S.P. #6b	G	1	Ш	)	K	1			X		4/28/14	1300	Х	H	100	$\times$
7	S.P. #7	G	1		)	K				Х		4/28/14	1010	X			
8	S.P. #8a	G	1		)	K	-	1		X		4/28/14	1200	Х	1	1	$\times$
											1						

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Relinquished By:	Date: , / / Received By;	Phone Result:    Yes    No    Add'l Phone #:
211211	9/28/14 6//-	Fax Result:
2 Hy Blech	Time: (200)	REMARKS:
Polineviehed Pou	1700 Parist Bur	1611 Go TPH/BIEK
Relinquished By:	Date: 4/30/14 Received By:	HOLD 1111/1/21.
6/44	Time; and	Please email results to bjarguijo@basinenv.com,
1/1/	Time you ame of	TASavoie@BassPet.com & SJWalters@BassPet.com
Delivered By: (Circle One)	11100	HECKED BY:
0 1 UDO D OIL	MUNICOOL Intact	(Initials)
Sampler - UPS - Bus - Other: FORM-006	TISU No No	A Added 5/12/14 as pur Ben. Ch
Revision 1.0	012:05 + Cardinal cannot accept verbal change	es. Please fax written changes to 575-393-2476



May 21, 2014

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #162

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

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/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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.

Celey D. Keens

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Received: 05/14/2014
Reported: 05/21/2014

Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/06/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: TT-12 SP #1B (H401462-01)

BTEX 8260B	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	05/17/2014	ND	2.19	110	2.00	3.33	
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464	
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90	
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93	
Total BTEX	<0.300	0.300	05/17/2014	ND					
Surrogate: Dibromofluoromethane	100 5	% 61.3-14	12						
Surrogate: Toluene-d8	101 9	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	99.9	% 65.7-14	1						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/19/2014	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	05/18/2014	ND	198	99.0	200	9.70	
DRO >C10-C28	<10.0	10.0	05/18/2014	ND	227	114	200	10.0	
EXT DRO >C28-C35	<10.0	10.0	05/18/2014	ND					
Surrogate: 1-Chlorooctane	112 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	110 9	% 63.6-15	4						

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EDDY COUNTY, NM

# **Analytical Results For:**

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

 Received:
 05/14/2014
 Sampling Date:
 05/06/2014

 Reported:
 05/21/2014
 Sampling Type:
 Soil

Reported:05/21/2014Sampling Type:SoilProject Name:PLU #162Sampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi Henson

#### Sample ID: TT-12 SP #2 (H401462-02)

Project Location:

BTEX 8260B	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	05/17/2014	ND	2.19	110	2.00	3.33	
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464	
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90	
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93	
Total BTEX	<0.300	0.300	05/17/2014	ND					
Surrogate: Dibromofluoromethane	97.4	% 61.3-14	2						
Surrogate: Toluene-d8	102	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	102	% 65.7-14	1						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6660	16.0	05/19/2014	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	05/18/2014	ND	198	99.0	200	9.70	
DRO >C10-C28	<10.0	10.0	05/18/2014	ND	227	114	200	10.0	
EXT DRO >C28-C35	<10.0	10.0	05/18/2014	ND					
Surrogate: 1-Chlorooctane	110	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	109	% 63.6-15	4						

#### Cardinal Laboratories \*=Accredited Analyte

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Basin Environmental Service BEN J. ARGUIJO

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date: 05/06/2014

Reported: 05/21/2014 Sampling Type: Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: TT-12 SP #2D (H401462-03)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

16.0

8530

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 9730 16.0 05/19/2014 ND 400 100 400 0.00

Sample ID: TT-12 SP #2F (H401462-04)

Chloride

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

ND

400

100

400

0.00

05/19/2014

Cardinal Laboratories \*=Accredited Analyte

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date: 05/09/2014

Reported: 05/21/2014 Sampling Type: Soil
Project Name: PLU #162 Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By: Jodi Henson Project Location: EDDY COUNTY, NM

#### Sample ID: TT-12 SP #2G (H401462-05)

BTEX 8260B	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	05/17/2014	ND	2.19	110	2.00	3.33	
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464	
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90	
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93	
Total BTEX	<0.300	0.300	05/17/2014	ND					
Surrogate: Dibromofluoromethane	96.1	% 61.3-14	22						
Surrogate: Toluene-d8	100	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	104	% 65.7-14	1						
Chloride, SM4500CI-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	05/19/2014	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	05/19/2014	ND	198	99.0	200	9.70	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	227	114	200	10.0	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					
Surrogate: 1-Chlorooctane	112 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	111 9	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager

Jodi Henson

Sample Received By:



#### Analytical Results For:

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date: 05/06/2014

Reported: 05/21/2014 Sampling Type: Soil
Project Name: PLU #162 Sampling Condition: Cool & Intact

Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

#### Sample ID: TT-12 SP #3 (H401462-06)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9060	16.0	05/19/2014	ND	400	100	400	0.00	
Sample ID: TT-13 SP #1	В (Н401462-0	7)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	05/19/2014	ND	400	100	400	0.00	
Sample ID: TT-13 SP #2	(H401462-08	)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8530	16.0	05/19/2014	ND	400	100	400	0.00	
Sample ID: TT-13 SP #2	C (H401462-0	9)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7730	16.0	05/19/2014	ND	400	100	400	0.00	
Sample ID: TT-13 SP #2	E (H401462-1	0)							
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	05/19/2014	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service

BEN J. ARGUIJO P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date: 05/06/2014

Reported: 05/21/2014 Sampling Type: Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: TT-13 SP #3 (H401462-11)

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 05/19/2014 ND 400 100 400 0.00

Sample ID: TT-14 SP #1 (H401462-12)

Chloride, SM4500Cl-B Analyzed By: AP Result Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier Analyte % Recovery Chloride 10300 16.0 05/19/2014 400 100 400 0.00 ND

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EDDY COUNTY, NM

# Analytical Results For:

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date: 05/07/2014

Reported: 05/21/2014 Sampling Type: Soil Project Name: PLU #162 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

#### Sample ID: TT-14 SP #1F (H401462-13)

Project Location:

BTEX 8260B	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	05/17/2014	ND	2.19	110	2.00	3.33	
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464	
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90	
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93	
Total BTEX	<0.300	0.300	05/17/2014	ND					
Surrogate: Dibromofluoromethane	96.8	% 61.3-14	22						
Surrogate: Toluene-d8	98.3	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	99.7	% 65.7-14	1						
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	05/19/2014	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					
Surrogate: 1-Chlorooctane	118 5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	116 9	% 63.6-15	4						

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date: 05/07/2014

Reported: 05/21/2014 Sampling Type: Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: TT-14 SP #2 (H401462-14)

BTEX 8260B	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	05/17/2014	ND	2.19	110	2.00	3.33	
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464	
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90	
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93	
Total BTEX	<0.300	0.300	05/17/2014	ND					
Surrogate: Dibromofluoromethane	100 9	% 61.3-14	2						
Surrogate: Toluene-d8	101 9	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	98.2	% 65.7-14	1						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	05/19/2014	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					
Surrogate: 1-Chlorooctane	112 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	112 9	63.6-15	4						

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date: 05/07/2014

Reported: 05/21/2014 Sampling Type: Soil

EDDY COUNTY, NM

Project Name: PLU #162 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Sample ID: TT-14 SP #2C (H401462-15)

Project Location:

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	05/19/2014	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					
Surrogate: 1-Chlorooctane	104	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	103	% 63.6-15	4						

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Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date: 05/07/2014

Reported: 05/21/2014 Sampling Type: Soil Project Name: PLU #162 Sampling Condition: Cool & Intact

Sample Received By: Project Number: NONE GIVEN Jodi Henson Project Location: EDDY COUNTY, NM

#### Sample ID: TT-14 SP #2E (H401462-16)

BTEX 8260B	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	05/17/2014	ND	2.19	110	2.00	3.33	
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464	
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90	
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93	
Total BTEX	<0.300	0.300	05/17/2014	ND					
Surrogate: Dibromofluoromethane	101	% 61.3-14	2						
Surrogate: Toluene-d8	98.5	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	101	% 65.7-14	1						
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	05/19/2014	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					
Surrogate: 1-Chlorooctane	105	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	104	% 63.6-15	4						

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Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date: 05/07/2014

Reported: 05/21/2014 Sampling Type: Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: TT-14 SP #3 (H401462-17)

BTEX 8260B	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	05/17/2014	ND	2.19	110	2.00	3.33	
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464	
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90	
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93	
Total BTEX	<0.300	0.300	05/17/2014	ND					
Surrogate: Dibromofluoromethane	96.3	% 61.3-14	2						
Surrogate: Toluene-d8	99.3	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	105 9	% 65.7-14	1						
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	05/19/2014	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					
Surrogate: 1-Chlorooctane	117 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	114 9	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date: 05/07/2014

Reported: 05/21/2014 Sampling Type: Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: TT-15 SP #1 (H401462-18)

BTEX 8260B	mg/	'kg	Analyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2014	ND	2.19	110	2.00	3.33	
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464	
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90	
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93	
Total BTEX	<0.300	0.300	05/17/2014	ND					
Surrogate: Dibromofluoromethane	97.8	% 61.3-14	2						
Surrogate: Toluene-d8	99.0	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	101 9	% 65.7-14	1						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	05/19/2014	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					
Surrogate: 1-Chlorooctane	118 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	118 9	% 63.6-15	4						

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Basin Environmental Service BEN J. ARGUIJO

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date: 05/07/2014

Reported: 05/21/2014 Sampling Type: Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: TT-15 SP #2 (H401462-19)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

**Chloride** 8640 16.0 05/19/2014 ND 400 100 400 0.00

Sample ID: TT-15 SP #2C (H401462-20)

Chloride, SM4500Cl-B Analyzed By: AP Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier Analyte Result % Recovery Chloride 3720 16.0 05/19/2014 400 100 400 0.00 ND

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date: 05/07/2014

Reported: 05/21/2014 Sampling Type: Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: TT-15 SP #2E (H401462-21)

BTEX 8260B	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	05/17/2014	ND	2.19	110	2.00	3.33	
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464	
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90	
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93	
Total BTEX	<0.300	0.300	05/17/2014	ND					
Surrogate: Dibromofluoromethane	97.6	% 61.3-14	22						
Surrogate: Toluene-d8	101	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	101	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	05/19/2014	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					
Surrogate: 1-Chlorooctane	120	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane									

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date: 05/07/2014

Reported: 05/21/2014 Sampling Type: Soil Project Name: PLU #162 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Sample ID: TT-15 SP #3B (H401462-22)

EDDY COUNTY, NM

Project Location:

BTEX 8260B	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	05/17/2014	ND	2.19	110	2.00	3.33	
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464	
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90	
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93	
Total BTEX	<0.300	0.300	05/17/2014	ND					
Surrogate: Dibromofluoromethane	101 9	% 61.3-14	2						
Surrogate: Toluene-d8	99.4	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	99.3	% 65.7-14	1						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/19/2014	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					
Surrogate: 1-Chlorooctane	104 5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	103 9	63.6-15	4						

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date: 05/08/2014

Reported: 05/21/2014 Sampling Type: Soil Project Name: PLU #162 Sampling Condition: Cool & Intact

Sample Received By: Project Number: NONE GIVEN Jodi Henson Project Location: EDDY COUNTY, NM

#### Sample ID: TT-16 SP #1 (H401462-23)

BTEX 8260B	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	05/17/2014	ND	2.19	110	2.00	3.33	
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464	
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90	
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93	
Total BTEX	<0.300	0.300	05/17/2014	ND					
Surrogate: Dibromofluoromethane	103	% 61.3-14	22						
Surrogate: Toluene-d8	98.7	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	103	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/19/2014	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					
Surrogate: 1-Chlorooctane	132	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	130	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date: 05/08/2014

Reported: 05/21/2014 Sampling Type: Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: TT-16 SP #2 (H401462-24)

BTEX 8260B	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	05/17/2014	ND	2.19	110	2.00	3.33	
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464	
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90	
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93	
Total BTEX	<0.300	0.300	05/17/2014	ND					
Surrogate: Dibromofluoromethane	99.4	% 61.3-14	2						
Surrogate: Toluene-d8	98.9	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	101 9	% 65.7-14	1						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	05/19/2014	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					
Surrogate: 1-Chlorooctane	132 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	130 9	% 63.6-15	4						

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

 Received:
 05/14/2014
 Sampling Date:
 05/08/2014

 Reported:
 05/21/2014
 Sampling Type:
 Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: TT-16 SP #2C (H401462-25)

BTEX 8260B	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	05/17/2014	ND	2.19	110	2.00	3.33	
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464	
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90	
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93	
Total BTEX	<0.300	0.300	05/17/2014	ND					
Surrogate: Dibromofluoromethane	99.1	% 61.3-14	2						
Surrogate: Toluene-d8	99.4	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	99.4	% 65.7-14	1						
Chloride, SM4500CI-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	05/19/2014	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	05/20/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/20/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/20/2014	ND					
Surrogate: 1-Chlorooctane	118	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	115	% 63.6-15	4						

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date: 05/08/2014

Reported: 05/21/2014 Sampling Type: Soil Project Name: PLU #162

EDDY COUNTY, NM

Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

#### Sample ID: TT-16 SP #3 (H401462-26)

Project Location:

BTEX 8260B	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	05/17/2014	ND	2.19	110	2.00	3.33	
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464	
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90	
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93	
Total BTEX	<0.300	0.300	05/17/2014	ND					
Surrogate: Dibromofluoromethane	102	% 61.3-14	22						
Surrogate: Toluene-d8	101	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	103	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	05/19/2014	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					
Surrogate: 1-Chlorooctane	117 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	116	% 63.6-15	4						

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05/08/2014



# **Analytical Results For:**

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date:
Reported: 05/21/2014 Sampling Type:

Reported:05/21/2014Sampling Type:SoilProject Name:PLU #162Sampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: TT-17 SP #2 (H401462-27)

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	05/19/2014	ND	1.82	91.0	2.00	3.64	
Toluene*	<0.050	0.050	05/19/2014	ND	1.82	91.2	2.00	4.04	
Ethylbenzene*	<0.050	0.050	05/19/2014	ND	1.76	88.0	2.00	4.46	
Total Xylenes*	<0.150	0.150	05/19/2014	ND	5.51	91.9	6.00	4.52	
Total BTEX	<0.300	0.300	05/19/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 89.4-12	6						
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	05/19/2014	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	05/20/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/20/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/20/2014	ND					
Surrogate: 1-Chlorooctane	113 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	112 9	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager

05/08/2014



# Analytical Results For:

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date:

Reported: 05/21/2014 Sampling Type: Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: TT-18 SP #4 (H401462-28)

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	05/19/2014	ND	1.82	91.0	2.00	3.64	
Toluene*	<0.050	0.050	05/19/2014	ND	1.82	91.2	2.00	4.04	
Ethylbenzene*	<0.050	0.050	05/19/2014	ND	1.76	88.0	2.00	4.46	
Total Xylenes*	<0.150	0.150	05/19/2014	ND	5.51	91.9	6.00	4.52	
Total BTEX	<0.300	0.300	05/19/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 89.4-12	6						
Chloride, SM4500CI-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	05/19/2014	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					
Surrogate: 1-Chlorooctane	93.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	94.1	% 63.6-15	4						

Surrogate: 1-Chlorooctadecane 94.1 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date: 05/08/2014

EDDY COUNTY, NM

Reported:05/21/2014Sampling Type:SoilProject Name:PLU #162Sampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi Henson

#### Sample ID: TT-18 SP #5 (H401462-29)

Project Location:

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	05/19/2014	ND	1.82	91.0	2.00	3.64	
Toluene*	<0.050	0.050	05/19/2014	ND	1.82	91.2	2.00	4.04	
Ethylbenzene*	<0.050	0.050	05/19/2014	ND	1.76	88.0	2.00	4.46	
Total Xylenes*	<0.150	0.150	05/19/2014	ND	5.51	91.9	6.00	4.52	
Total BTEX	<0.300	0.300	05/19/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1660	16.0	05/19/2014	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					
Surrogate: 1-Chlorooctane	123	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	123	% 63.6-15	4						

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Basin Environmental Service

BEN J. ARGUIJO P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date: 05/08/2014

Reported: 05/21/2014 Sampling Type: Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: TT-18 SP #5C (H401462-30)

Chloride, SM4500Cl-B mg/kg		/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	05/19/2014	ND	416	104	400	0.00	

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05/08/2014



# **Analytical Results For:**

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date:

Reported:05/21/2014Sampling Type:SoilProject Name:PLU #162Sampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: TT-18 SP #5E (H401462-31)

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	05/19/2014	ND	1.82	91.0	2.00	3.64	
Toluene*	<0.050	0.050	05/19/2014	ND	1.82	91.2	2.00	4.04	
Ethylbenzene*	<0.050	0.050	05/19/2014	ND	1.76	88.0	2.00	4.46	
Total Xylenes*	<0.150	0.150	05/19/2014	ND	5.51	91.9	6.00	4.52	
Total BTEX	<0.300	0.300	05/19/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/19/2014	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	05/20/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/20/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/20/2014	ND					
Surrogate: 1-Chlorooctane	109	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	108	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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Basin Environmental Service BEN J. ARGUIJO

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date: 05/08/2014

Reported: 05/21/2014 Sampling Type: Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: TT-18 SP #6 (H401462-32)

Chioride, SM4500CI-B	mg/	кд	Anaiyze	а ву: АР					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7280	16.0	05/19/2014	ND	416	104	400	0.00	

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

 Received:
 05/14/2014
 Sampling Date:
 05/08/2014

 Reported:
 05/21/2014
 Sampling Type:
 Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: TT-18 SP #7A (H401462-33)

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	05/19/2014	ND	1.82	91.0	2.00	3.64	
Toluene*	<0.050	0.050	05/19/2014	ND	1.82	91.2	2.00	4.04	
Ethylbenzene*	<0.050	0.050	05/19/2014	ND	1.76	88.0	2.00	4.46	
Total Xylenes*	<0.150	0.150	05/19/2014	ND	5.51	91.9	6.00	4.52	
Total BTEX	<0.300	0.300	05/19/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	05/19/2014	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					
Surrogate: 1-Chlorooctane	118 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	116	% 63.6-15	4						

\*=Accredited Analyte

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Celey D. Keine

Cardinal Laboratories

05/08/2014



#### Analytical Results For:

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date:

EDDY COUNTY, NM

Reported:05/21/2014Sampling Type:SoilProject Name:PLU #162Sampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi Henson

#### Sample ID: TT-18 SP #10 (H401462-34)

Project Location:

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	05/19/2014	ND	1.82	91.0	2.00	3.64	
Toluene*	<0.050	0.050	05/19/2014	ND	1.82	91.2	2.00	4.04	
Ethylbenzene*	<0.050	0.050	05/19/2014	ND	1.76	88.0	2.00	4.46	
Total Xylenes*	<0.150	0.150	05/19/2014	ND	5.51	91.9	6.00	4.52	
Total BTEX	<0.300	0.300	05/19/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 89.4-12	6						
Chloride, SM4500CI-B	g t is, is the control of the co		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/19/2014	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					
Surrogate: 1-Chlorooctane	82.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	82.5	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014

Reported: 05/21/2014 Project Name: PLU #162 Project Number: NONE GIVEN Project Location: EDDY COUNTY, NM Sampling Date: 05/09/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

#### Sample ID: TT-19 SP #1 (H401462-35)

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	05/19/2014	ND	1.82	91.0	2.00	3.64	
Toluene*	<0.050	0.050	05/19/2014	ND	1.82	91.2	2.00	4.04	
Ethylbenzene*	<0.050	0.050	05/19/2014	ND	1.76	88.0	2.00	4.46	
Total Xylenes*	<0.150	0.150	05/19/2014	ND	5.51	91.9	6.00	4.52	
Total BTEX	<0.300	0.300	05/19/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 89.4-12	6						
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	05/19/2014	ND	416	104	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	<10.0	10.0	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	

Surrogate: 1-Chlorooctane 162 % 65.2-140 Surrogate: 1-Chlorooctadecane 159 % 63.6-154

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

 Received:
 05/14/2014
 Sampling Date:
 05/09/2014

 Reported:
 05/21/2014
 Sampling Type:
 Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: TT-19 SP #3 (H401462-36)

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	05/19/2014	ND	1.82	91.0	2.00	3.64	
Toluene*	<0.050	0.050	05/19/2014	ND	1.82	91.2	2.00	4.04	
Ethylbenzene*	<0.050	0.050	05/19/2014	ND	1.76	88.0	2.00	4.46	
Total Xylenes*	<0.150	0.150	05/19/2014	ND	5.51	91.9	6.00	4.52	
Total BTEX	<0.300	0.300	05/19/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 89.4-12	6						
Chloride, SM4500Cl-B	/kg	Analyze	d By: AP						
Analyte				Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/19/2014	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					
Surrogate: 1-Chlorooctane	107	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	107	% 63.6-15	4						

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#### **Notes and Definitions**

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Basin Environmental Service Techn	ologie	es, l	LC					BI	LL TO					ANALYSIS REQUEST	
Project Manager:	Ben Arguijo						P	.0.#	:							
Address: P.O. 6	Box 301						c	omp	any:	ВОР	CO, LP	1				
City: Lovington	State: NM	Zip	: 8	8260			A	ttn:		Tony Sav	voie .	1				
Phone #: (575)	396-2378 Fax #: (575)3	96-1	429				A	ddre	ss:	522 W. M		1				
Project #:	Project Owne	er:	В	OPCC	, LF	)	c	ity:		Carlsba	ed					
Project Name:	PLU #162						s	tate:	NM	Zip:	88220		SZ	18		
Project Location:	Eddy Co., NM							hone		(432)556		F	301	(8021B)		
Sampler Name:	Stetson Kirkpatrick							ax #:		13/		Chloride	FPH (8015M)	втех (		
FOR LAB USE ONLY		T	Π		MA	TRIX		PR	ESERV.	SAMPL	ING	1 ~	₽	E I		
Lab I.D. H401442	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	ACID/BASE:	ICE / COOL OTHER:	DATE	TIME					
1	TT-12 SP#1B	Ģ	1		X			1	X	5/6/14		X	X	X		
2 3	TT-12 4#2	11	П		11			1			0915		X	X		
	TT-12 SP #20	П	П								1015					
4	TT-12 SP#2F	11	Ш		1					V,	1035	Ш				
5	TT-12 SP#26	11	Ш		1			1		579/14		Ш	X	X		
U	TT-12 4 # 3	$\perp$	Ш					_		5/0/14						
7	TT-13 8#1B	11									1300					
8	TT-13 SP#2		11		1						1235	$\perp$				
9	TT-13 SP#2C	11	П			,					1330	11				
10	TT-13 SH-2E  Damages, Cardinal's liability and client's Sectionlusive ren		1	1	1				1/	V	1350	IV				

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 subsidieries,

affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: // Rece	ived By:		Phone Result:	☐ Yes	□ No	Add'l Phone #:	
	5/6/14	11/		Fax Result:	☐ Yes	□ No	Add'l Fax #:	
Stelan Kirkety	Time: /700	1/1/		REMARKS:				
Relinquished By:		Ned By:	7				rguijo@basinenv.com, & SJWalters@BassPet.com	
Defivered By: (Circle One) Sampler - UPS - Bus - Other: FORM-006	0.600	Sample Condition Cool Intact Yes Yes No No	CHECKED BY: (Initials)					

5/14/14 † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Basin Environmental Service Techn	ologie	es, L	LC						E	3//	LL TO					ANAL	YSIS	REQUES	Т	
Project Manager:	Ben Arguijo							P.(	0. #:												
Address: P.O. B	8ox 301							Co	mp	any:		ВОРО	0, LP	1							
City: Lovington	State: NM	Zip	: 8	826	0			Att	n:			Tony Save	oie								
Phone #: (575)3	96-2378 Fax #: (575)3	96-14	429					Ad	dres	ss:		522 W. M	arland								
Project #:	Project Owne	r:	ВС	OPC	0, 1	P		Cit	v:			Carlsbac	1	1		_			-11		
Project Name: P	PLU #162									NN	1	Zip:	88220		S S	18		- 11			
Project Location:	Eddy Co., NM								one			(432)556		i i	200	805					
Sampler Name: S	Stetson Kirkpatrick								x #:					Chloride	TPH (8015M)	BTEX (8021B)					
FOR LAB USE ONLY		Т			N	ATR	X		PRE	SER	٧.	SAMPLI	NG	1	₽	E I					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME								
- 11	TT-13 SP #3	G	1			X	-			X		3/10/14	1240	X				+			
					1	1	F				1							1			
						1				1	1										
											+							+			
					4	-					1							-			
	Damages. Cardinal's liability and client's Sectioniusive rem										+										

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

Relinquished By:		ived By:		Phone Result:	☐ Yes	□ No	Add'l Phone #:	
	5/6/14	///		Fax Result:	☐ Yes	□ No	Add'l Fax #:	
Stelan Kinkety	Time: 1700	1/1/1		REMARKS:				
Relinquished By:	Date: 5/14/14 Recei	ived 8v;	7	Please em TASavoie	nail resul @BassP	ts to bja	rguijo@basinenv.com, k SJWalters@BassPet.com	
Delivered By: (Circle One)		Sample Condition Cool Intact	CHECKED BY: (Initials)		0			
Sampler - UPS - Bus - Other: FORM-006	0.400	Yes Yes	4.U.					
Dovinion-1 0			,					

5/14/14 † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

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

## **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

3/10

Company Name:	Basin Environmental Service Tech	nologie	es, l	LC						BI	LL TO						ANALYS	IS REQU	EST	
Project Manager:	Ben Arguijo							P.O	.#:						Т					
Address: P.O.	Box 301							Cor	npar	ny:	BOF	PCO, LP								
City: Lovington	State: NM	Zip	: 8	8260	0			Attr	1:		Tony Sa	voie								
Phone #: (575)	396-2378 Fax #: (575)	396-1	429					Add	iress	s:	522 W.			1		- 1				
Project #:	Project Own	er:	B	PC	O, L	Р		City	<i>r</i> :		Carlsb	ad								
Project Name:	PLU #162									NM		88220	١.	1		9				
Project Location:	Eddy Co., NM								ne #		(432)55		를	2	2	(8021B)				
Sampler Name:	Miguel Ramirez							Fax			1.02/00		Chloride	TDH (8045M)		X				
FOR LAB USE ONLY			Т		M	ATRI	X			SERV.	SAMP	LING	٦Ť	P	=	BTEX				
Lab I.D. H식이식 62	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:	DATE	TIME								
12	TT-14 SPA1	G	1		)	(			)	X	5/7/19	1 0930	X							
13	TT-14 SP#18	11	П									1230	$\perp$	X		X			1 = 1 = 1	
14	TT-14 5/#2	Ш	П									0935		)	(	X				
15	TT-14 SP # 2C	11	Ц									1000		X						
16	TT-14 8 # 2 E		Ц									1030		1		X				1
17	TT-1458#3		П									0948	2	l x		X				
18	TT-153P#1	11										1255		1		X				
19	TT-15 8#2											1300								
20	TT-15 SP#2C		Ш			1					,	1425								
21	TT-15 3P# 2E Damages. Cardinal's liability and client's Sectionlusive re	V	W		V	/			1		1	1445		/ x		x				

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anilitates or successors arising out or or related to the performant	ce of services hereunder by Cardinal, regardless of whether such claim is based upon any of the a	pove stated reasons or otherwise.
Relinquished By:	Date: /_/ Received By:	Phone Result:  Yes  No Add'l Phone #:
17	5/1/19	Fax Result:  Yes No Add'l Fax #:
Mildely Museum	Time: 700	REMARKS:
Relinguished By	Date: Received By:	
h hat	Time: 220 J. Varbough	Please email results to bjarguijo@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com
Delivered By: (Circle One)	Sample Condition CHECKE	D BY:
Sampler - UPS - Bus - Other: FORM-006	Cool Intact (Initia	Or I
	110 110	

Revision 1.0



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4/4

Basin Environmental Service Techn	ologie	es, l	LC							BI	LL TO					ANALYS	IS REQUI	EST	
: Ben Arguijo							P	.0.											
Box 301							С	om	pan	y:	ВОРО	CO, LP	1						
State: NM	Zip	: 8	826	0			A	ttn:			Tony Sav	oie							
)396-2378 Fax #: (575)3	96-1	429					A	ddr	ess		522 W. M	farland	1						
Project Owne	r:	В	OPC	0,	LP		c	ity:			Carlsbac	d	1						
PLU #162										IM	Zip:	88220		SK SK	1 E				
Eddy Co., NM													문	20	805				
Miguel Ramirez											(,		1 š	H	X				
	Т	Π			MAT	RIX		PF	RESE	RV.	SAMPLI	NG	1	₽	E E				
Sample I.D.	(G)RAB OR (C)OMF	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME							
TT-15 58#3B	G	1			Х	-		-			5/7/14	1350	X	X	K				
	Ben Arguijo  Box 301  State: NM  396-2378  Fax #: (575)3  Project Owne  PLU #162  Eddy Co., NM  Miguel Ramirez	Ben Arguijo  Box 301  State: NM Zip  396-2378 Fax #: (575)396-1-  Project Owner:  PLU #162  Eddy Co., NM  Miguel Ramirez  Sample I.D.	Ben Arguijo  Box 301  State: NM Zip: 8 396-2378 Fax #: (575)396-1429  Project Owner: BC  PLU #162  Eddy Co., NM  Miguel Ramirez  Sample I.D.	State: NM   Zip:   8826	Ben Arguijo  Box 301  State: NM Zip: 88260  396-2378 Fax #: (575)396-1429  Project Owner: BOPCO,  PLU #162  Eddy Co., NM  Miguel Ramirez  Sample I.D.	State: NM Zip: 88260   State: NM Zip: 88260	State: NM Zip: 88260   State: NM Zip: 88260   State: NM Zip: 88260   State: NM Zip: 80PCO, LP   PLU #162   Eddy Co., NM   Miguel Ramirez   MATRIX   Solid	Ben Arguijo											

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's Sectionlusive 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,

Relinquished By:	Date: 6/2 / . / Received By:	Phone Result:
10	5/7/19	Fax Result:
Malay Museum	Time: 1700	REMARKS:
Relinquished By:	Data: 14 14 Received By	
Mich	Time 2:35 phase	Please email results to bjarguijo@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com
Delivered By: (Circle One)	Sample Condition CHECKED B	
Sampler - UPS - Bus - Other: FORM-006	Cool Intact (Initials) Yes Yes No No	A

100 1.0 5/14/1C



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

5/4

Company Name:	Basin Environmental Service Tech	nologi	es, l	LLC					B	11	LL TO					AN	ALYS	IS F	REQU	JEST	-	
Project Manager:	Ben Arguijo						P	0.#	:				T					T		T	T	
Address: P.O.	Box 301						С	omp	any:		BOPO	O. LP	1									1
City: Lovington	State: NM	Zip	: 8	8260			A	ttn:		П	Tony Savo	oie	1									
Phone #: (575)	396-2378 Fax #: (575)	396-1	429					ddre	ss.		522 W. M		1									
Project #:	Project Own	er:	В	OPCO,	LP			ity:		_	Carlsbac		1									
Project Name:	PLU #162								NM	7		88220		ŝ	9							
Project Location:	Eddy Co., NM							none		- 2			Ę	(8015M)	302							
Sampler Name:							-	ax #:		_	(432)556-	-0730	Chloride	1 (8)	BTEX (8021B)							
FOR LAB USE ONLY		Т	Т		MA	TRIX	Ire	_	ESERV	Lv.	SAMPLII	NG	10	TP.	1 2							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	OTHER:	ACID/BASE:	ICE / COOL	Oluen.	DATE	TIME										
23	TT-16 SP #1	G	1		X				Х		5/8/14	1030	Х	Х	X							
24	TT-16 SP #2	G	1		Х				X		5/8/14	1035	Х	Х	Х							
25	TT-16 SP #2C	G	1		X				X		5/8/14	1120	Х	Х	X							
26	TT-16 SP #3	G	1		X				X		5/8/14	1040	Х	Х	Х							
27	TT-17 SP #2	G	1		X				X		5/8/14	1220	Х	Х	X							
28	TT-18 SP #4	G	1		Х				X		5/8/14	1315	Х	Х	Х							
29	TT-18 SP #5	G	1		Х				X		5/8/14	1320	Х	X	X							
30	TT-18 SP #5C	G	1		Х				X		5/8/14	1345	Х					1				
31	TT-18 SP #5E	G	1		Х				х		5/8/14	1435	Х	Х	X							
32	TT-18 SP #6 Damages. Cardinal's liability and client's Sectionlusive re	G	1		Х				X		5/8/14	1500	Х									

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affiliates or successors arising out of or related to the pe	performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the a	bove stated reasons or otherwise.
Relinquished By:	Date: / // Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	5/19/19	Fax Result: ☐ Yes ☐ No Add'l Fax #:
11/1/	Time: 0700 My	REMARKS:
Relinquished By:	Date: Received By:	
Althor	Time: A. Manbringh	Please email results to bjarguijo@basinenv.com,
Delivered By: (Circle One)	Sample Condition CHECKE	
Samples LIDS Bus Others	Cool Intact (Initia	ls)

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

0/6

Company Name:	Basin Environmental Service Tech	nologi	es, l	LLC						BI.	LL TO					ANAL	YSIS R	REQUE	ST		
Project Manager:	Ben Arguijo						P	.0.	<b>#</b> :												
Address: P.O. B	3ox 301						c	omp	oany	:	ВОРО	00, LP	1								
City: Lovington	State: NM	Zip	: 8	88260			A	ttn:			Tony Sav	oie	1								
Phone #: (575)3	396-2378 Fax #: (575)	396-1	429				A	ddre	ess:		522 W. M		1								- 1
Project #:	Project Own	er:	В	OPCO,	LP		c	ity:			Carlsbac										
Project Name: F	PLU #162								. NI	М		88220		) N	18						
Project Location:	Eddy Co., NM							hone			(432)556		Chloride	(8015M)	BTEX (8021B)						
Sampler Name: E	Ben J. Arguijo							ax #			(102,000	0.00	Ĕ	H	X						
FOR LAB USE ONLY			Π		MA	TRIX		PR	ESE	RV.	SAMPLI	NG	1	TPH	E I						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME									
33	TT-18 SP #7A	G	1	11	X				Х		5/8/14	1520	Х	Х	X						
34	TT-18 SP #10	G	1		Х				X		5/8/14	1510	Х	Х	Х						
35	TT-19 SP #1	G	1		X				Х		5/9/14	0950	Х	Х	X						
34	TT-19 SP #3	G	1		X		4	L	Х	-	5/9/14	1000	Х	Х	х						
					H			1	Н	+						++	-	+		-	+
										1											
							1	1		1											
		-					-	1		-								-		-	1
LEASE NOTE: Liability and D	Damages. Cardinal's liability and client's Sectionlusive re-	nedy for	any c	laim ariein	whet	har ha	sad in a	- ntract	ortor		I he limited to the	a amount r-12	but the -"	ant for th							

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affiliates or successors ansing out of or related to the performan	nce 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 #:	
hll	5/19/19	Fax Result: ☐ Yes ☐ No Add'l Fax #:	
	Time: 0700 / 1/2	REMARKS:	
Relinquished By:	Date: Received By:		- /
1110	5/14/14		
1.1.2	Time:	Please email results to bjarguijo@basinenv.com,	
MACH	1230 /- Margar	TASavoie@BassPet.com & SJWalters@BassPet.com	
Delivered By: (Circle One)	Sample Condition CHECKED BY:		
Sampler - LIPS - Rue - Other	Cool Intact (Initials)		
Sampler - UPS - Bus - Other: FORM-006	□ No □ No		



May 21, 2014

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #162

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

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/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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.

Celey D. Kuno

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014

Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/09/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: S. P. #1B (H401463-01)

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	05/19/2014	ND	1.82	91.0	2.00	3.64	
Toluene*	<0.050	0.050	05/19/2014	ND	1.82	91.2	2.00	4.04	
Ethylbenzene*	<0.050	0.050	05/19/2014	ND	1.76	88.0	2.00	4.46	
Total Xylenes*	<0.150	0.150	05/19/2014	ND	5.51	91.9	6.00	4.52	
Total BTEX	<0.300	0.300	05/19/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 89.4-12	6						
Chloride, SM4500CI-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	05/19/2014	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	05/20/2014	ND	206	103	200	2.44	
DRO >C10-C28	<10.0	10.0	05/20/2014	ND	229	115	200	2.08	
EXT DRO >C28-C35	<10.0	10.0	05/20/2014	ND					
Surrogate: 1-Chlorooctane	72.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	71.8	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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Basin Environmental Service

BEN J. ARGUIJO P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date: 05/09/2014

Reported: 05/21/2014 Sampling Type: Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: S. P. #9 (H401463-02)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	05/19/2014	ND	416	104	400	0.00	

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05/09/2014



#### Analytical Results For:

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date:

EDDY COUNTY, NM

Reported:05/21/2014Sampling Type:SoilProject Name:PLU #162Sampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi Henson

#### Sample ID: S. P. #10A (H401463-03)

Project Location:

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	05/19/2014	ND	1.82	91.0	2.00	3.64	
Toluene*	<0.050	0.050	05/19/2014	ND	1.82	91.2	2.00	4.04	
Ethylbenzene*	<0.050	0.050	05/19/2014	ND	1.76	88.0	2.00	4.46	
Total Xylenes*	<0.150	0.150	05/19/2014	ND	5.51	91.9	6.00	4.52	
Total BTEX	<0.300	0.300	05/19/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 89.4-12	6						
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	05/19/2014	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	05/20/2014	ND	206	103	200	2.44	
DRO >C10-C28	<10.0	10.0	05/20/2014	ND	229	115	200	2.08	
EXT DRO >C28-C35	<10.0	10.0	05/20/2014	ND					
Surrogate: 1-Chlorooctane	83.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	82.2	% 63.6-15	4						

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Basin Environmental Service

BEN J. ARGUIJO P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date: 05/09/2014

Reported: 05/21/2014 Sampling Type: Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: S. P. #11 (H401463-04)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/19/2014	ND	416	104	400	0.00	

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05/09/2014



#### Analytical Results For:

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date:
Reported: 05/21/2014 Sampling Type:

EDDY COUNTY, NM

Reported:05/21/2014Sampling Type:SoilProject Name:PLU #162Sampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi Henson

#### Sample ID: S. P. #12A (H401463-05)

Project Location:

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	05/19/2014	ND	1.82	91.0	2.00	3.64	
Toluene*	<0.050	0.050	05/19/2014	ND	1.82	91.2	2.00	4.04	
Ethylbenzene*	<0.050	0.050	05/19/2014	ND	1.76	88.0	2.00	4.46	
Total Xylenes*	<0.150	0.150	05/19/2014	ND	5.51	91.9	6.00	4.52	
Total BTEX	<0.300	0.300	05/19/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/19/2014	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	05/21/2014	ND	206	103	200	2.44	
DRO >C10-C28	<10.0	10.0	05/21/2014	ND	229	115	200	2.08	
EXT DRO >C28-C35	<10.0	10.0	05/21/2014	ND					
Surrogate: 1-Chlorooctane	112 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	111 9	% 63.6-15	4						

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Basin Environmental Service

BEN J. ARGUIJO P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/14/2014 Sampling Date: 05/09/2014

Reported: 05/21/2014 Sampling Type: Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: S. P. #14 (H401463-06)

Chloride, SM4500CI-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	05/19/2014	ND	416	104	400	0.00	

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#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories \*=Accredited Analyte

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# RDINAL LABORATORIES

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Basin Environmental Service Techr		es, L	LC							BIL	L TO					ANALYSIS	REQUES	T	
Project Manager:								P	.0.#	:										
Address: P.O.	Box 301							С	omp	any	r:	BOPC	O, LP							
City: Lovington	State: NM	Zip	: 8	826	0			A	ttn:			Tony Savo	ie							
Phone #: (575)	)396-2378 Fax #: (575)3	396-14	429					A	ddre	ss:		522 W. Ma	arland							
Project #:	Project Owne	er:	BC	OPC	0, 1	LP		c	ity:			Carlsbad	9			<u>~</u>				
Project Name:	PLU #162							s	tate:	N	M	Zip: 8	88220	9	2W	21E				
Project Location	: Eddy Co., NM							P	hone	e #:		(432)556-	8730	Chloride	TPH (8015M)	BTEX (8021B)				
Sampler Name:								F	ax#	:				ᇹ	H	Ĭ Į				
FOR LAB USE ONLY			Г		ı	ITAN	RIX		PR	ESE	RV.	SAMPLIN	NG	1	F	E		1 1		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME							
1.	5, P.# 1B	G	1	_		X		4	-	X		5/9/14		X	X	X			_	$\vdash$
2.	5, P. #9	-11	Н	L		1	4	+	-	Н	$\vdash$		1500	+	×	_			-	
3.	S.P. # 10A	11	H	1		+	+	+	-	H			1540	+	X	X				
4.	5.1.#11 5.1.#12A	$\mathbb{H}$	Н	┞	H	+	+	+	-	H	Н		1590	+	1	X				
5.	5,7,4 104	H	H	1	H	1	-	+	+	+	$\vdash$		1595	1/	1	1				
le	5, P. # 14	V	V	1		V	1	+	+	V		V	1303	T.W						
		+	+	+			H	+	+	H										
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01 5 1 0 5 1 0 7 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	od Damages Cardinal's liability and client's Sectionlusive re	medy for	r any i	claim :	rising	wheth	er ba	sed in	contrac	t or to	ort, sha	Il be limited to the	ne amount pair	d by the c	lient for th	10				

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, oder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

affiliates or successors arising out of or related to the performan	nce of services hereunder by Cardinal, re-	ardiess of whether sour claims beset	upon any or are accre control	I DI D	□ V	□ No	Add'l Phone #:	
Relinguished By:	Date: / Rec	eived By:		Phone Result:	☐ Yes			
Kemiquished by.	5/9/10	///		Fax Result:	☐ Yes	□ No	Add'l Fax #:	
Mary Musica	Time: 1700	11/1/1		REMARKS:				
Relinquished By:	Date: 5/9/4/ Rec	eivéd By:	7	Please en TASavoie	nail resul @BassP	ts to bja et.com	rguijo@basinenv.com, k SJWalters@BassPet.com	
Delivered By: (Circle One)	01.00	Sample Condition Cool Intact	CHECKED BY: (Initials)					
Sampler - UPS - Bus - Other: FORM-006	0.0	Yes Yes No No	F.V.					

5/4/14 Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



May 29, 2014

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #162

Enclosed are the results of analyses for samples received by the laboratory on 05/15/14 8:10.

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">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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.

Celey D. Keens

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/15/2014 Reported: 05/29/2014

Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/14/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: PAD FLOOR #2 (H401472-01)

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	05/28/2014	ND	2.35	117	2.00	0.169	
Toluene*	<0.050	0.050	05/28/2014	ND	2.33	116	2.00	0.564	
Ethylbenzene*	<0.050	0.050	05/28/2014	ND	2.23	111	2.00	0.00243	
Total Xylenes*	<0.150	0.150	05/28/2014	ND	6.97	116	6.00	0.0216	
Total BTEX	<0.300	0.300	05/28/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	05/19/2014	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	05/27/2014	ND	212	106	200	16.2	
DRO >C10-C28	<10.0	10.0	05/27/2014	ND	228	114	200	20.7	
EXT DRO >C28-C35	<10.0	10.0	05/27/2014	ND					
Surrogate: 1-Chlorooctane	111 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	115 9	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/15/2014 Sampling Date: 05/14/2014

Reported: 05/29/2014 Sampling Type: Soil Project Name: PLU #162 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: PAD FLOOR #5 (H401472-02)

BTEX 8021B	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2014	ND	2.35	117	2.00	0.169	
Toluene*	<0.050	0.050	05/28/2014	ND	2.33	116	2.00	0.564	
Ethylbenzene*	< 0.050	0.050	05/28/2014	ND	2.23	111	2.00	0.00243	
Total Xylenes*	<0.150	0.150	05/28/2014	ND	6.97	116	6.00	0.0216	
Total BTEX	<0.300	0.300	05/28/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 89.4-12	26						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/19/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/27/2014	ND	212	106	200	16.2	
DRO >C10-C28	<10.0	10.0	05/27/2014	ND	228	114	200	20.7	
EXT DRO >C28-C35	<10.0	10.0	05/27/2014	ND					
Surrogate: 1-Chlorooctane	115 9	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	117 9	% 63.6-15	i <i>4</i>						

Cardinal Laboratories \*=Accredited Analyte

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/15/2014 Sampling Date: 05/14/2014

Reported:05/29/2014Sampling Type:SoilProject Name:PLU #162Sampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: PAD FLOOR #7 (H401472-03)

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	05/28/2014	ND	2.35	117	2.00	0.169	
Toluene*	<0.050	0.050	05/28/2014	ND	2.33	116	2.00	0.564	
Ethylbenzene*	<0.050	0.050	05/28/2014	ND	2.23	111	2.00	0.00243	
Total Xylenes*	<0.150	0.150	05/28/2014	ND	6.97	116	6.00	0.0216	
Total BTEX	<0.300	0.300	05/28/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/19/2014	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	05/27/2014	ND	212	106	200	16.2	
DRO >C10-C28	<10.0	10.0	05/27/2014	ND	228	114	200	20.7	
EXT DRO >C28-C35	<10.0	10.0	05/27/2014	ND					
Surrogate: 1-Chlorooctane	120 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	124 9	% 63.6-15	4						

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05/14/2014



#### Analytical Results For:

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/15/2014 Sampling Date:

EDDY COUNTY, NM

Reported:05/29/2014Sampling Type:SoilProject Name:PLU #162Sampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi Henson

#### Sample ID: PAD FLOOR #8 (H401472-04)

Project Location:

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	05/28/2014	ND	2.35	117	2.00	0.169	
Toluene*	<0.050	0.050	05/28/2014	ND	2.33	116	2.00	0.564	
Ethylbenzene*	<0.050	0.050	05/28/2014	ND	2.23	111	2.00	0.00243	
Total Xylenes*	<0.150	0.150	05/28/2014	ND	6.97	116	6.00	0.0216	
Total BTEX	<0.300	0.300	05/28/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 89.4-12	6						
Chloride, SM4500CI-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	05/19/2014	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	05/27/2014	ND	212	106	200	16.2	
DRO >C10-C28	<10.0	10.0	05/27/2014	ND	228	114	200	20.7	
EXT DRO >C28-C35	<10.0	10.0	05/27/2014	ND					
Surrogate: 1-Chlorooctane	119	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	113 9	% 63.6-15	4						

#### Cardinal Laboratories \*=Accredited Analyte

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

Received: 05/15/2014 Sampling Date: 05/14/2014

Reported: 05/29/2014 Sampling Type: Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: PAD S. P. #2 (H401472-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	05/19/2014	ND	416	104	400	0.00	
Sample ID: PAD S. P. #4 (	(H401472-06)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AP					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	05/19/2014	ND	416	104	400	0.00	

#### Sample ID: PAD S. P. #6 (H401472-07)

Chloride, SM4500CI-B	00Cl-B mg/kg			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	05/19/2014	ND	416	104	400	0.00	

#### Sample ID: PAD S. P. #8 (H401472-08)

Chloride, SM4500CI-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	05/19/2014	ND	416	104	400	0.00	

#### Sample ID: PAD S. P. #9 (H401472-09)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	05/19/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service

BEN J. ARGUIJO P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/15/2014 Sampling Date: 05/14/2014

Reported: 05/29/2014 Sampling Type: Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: PAD S. P. #10 (H401472-10)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/19/2014	ND	416	104	400	0.00	

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#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories \*=Accredited Analyte

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# RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(575) 393-2326 FAX (575) 393-2	ologio	11	C.					BIL	L TO						NALY	313	REQU			T
company Name:	Basin Environmental Service Techn	ologie	,				P.O	). #:	0.000.00				67						1 3		1
Project Manager:	Ben Arguijo						+	_	ov.	ворсо	LP		5				- 1				
Address: P.O. Bo	ox 301		-	000				mpai	ıy.	Tony Savoie			3	-	- 1						
City: Lovington	State: NM			200			Att			522 W. Mar			ade	1		- 1					1
Phone #: (575)39	96-2378 Fax #: (575)							dres	s:		Idilo		a		- 1						
Project #:	Project Own	er:	ВО	PCC	), LP		Cit			Carlsbad	0000		Ê	18							
	PLU #162						Sta	ate:	NM		8220	Ę	015	(8021B)							1
Project Location:	Eddy Co., NM						Ph	one	#:	(432)556-8	3730	Chloride	TPH (8015M)	×							
Sampler Name: E	Ben J. Arguijo						Fa	x #:	SERV.	SAMPLIN	IG	10	Ē	втех							
FOR LAB USE ONLY				-	MA	RIX		PRE	SERV.	JAMPLIN		1		_						1 1	
Lab I.D. H401472	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER		OIL	SLUDGE OTHER:	ACID/BASE:		DATE 5/14/14	TIME 1355	×	×	1×							
1	Pad Floor #2	G	1		X	1 5	+	+	X		1410	X	1	1							
2	Pad Floor #5	G	1	-	X		-	+	X	5/14/14	1420	X	1	X	1						
3	Pad Floor #7	0	1	-	X		-	+	X	5/14/14	1425	x	1	15							
4	Pad Floor #8	0	1	1	)	1	+	+	X	5/14/14	1305	X		1							
5	Pad S.P. #2	- 0	1	1	)		+	-	X	5/14/14	1315	X								+	
6	Pad S.P. #4	_ (	1	1	1	(	+	+	X	5/14/14	1325	X	$\overline{}$			1				1	
7	Pad S.P. #6	(	3 1	1		(	-	+	X	5/14/14	1335	X								1	
8	Pad S.P. #8	_	3 '	-		(	+	+	X	5/14/14	1340	1 x	_							1	
q	Pad S.P. #9	_	3	1	-	X	-	+	X	5/14/14	1345	_	_								
in	Pad S.P. #10 nd Damages. Cardinar's liability and client's Sectioniusly	- 1	G			X			X		the amount p			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 correspond damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

tes or successors arising out of or related to the plinquished By:	Date: 5//5/	g without limitation, business interruptions, loss of use, or loss of profits incurred Cerdinal, regardless of whether such claim is based upon any of the above state Received By:	Fax Result: ☐ Yes ☐ No Add'I Fax #:
inquished By:	Times: 1C	Regelved By:	A Hold for TPH & 151 EX 80
	Time:	Sample Condition CHECKED BY	TASavoie@BassPet.com & SJVVallers@bassi ct.com
elivered By: (Circle One) mpler - UPS - Bus - Other: FORM-006		U.ZO Dres Pres (hitals)	



May 29, 2014

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #162

Enclosed are the results of analyses for samples received by the laboratory on 05/15/14 8:10.

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">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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.

Celey D. Kuno

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/15/2014 Reported: 05/29/2014

Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/14/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: 441 STOCKPILE W. (H401473-01)

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	05/28/2014	ND	2.35	117	2.00	0.169	
Toluene*	<0.050	0.050	05/28/2014	ND	2.33	116	2.00	0.564	
Ethylbenzene*	<0.050	0.050	05/28/2014	ND	2.23	111	2.00	0.00243	
Total Xylenes*	<0.150	0.150	05/28/2014	ND	6.97	116	6.00	0.0216	
Total BTEX	<0.300	0.300	05/28/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	05/19/2014	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	05/27/2014	ND	212	106	200	16.2	
DRO >C10-C28	<10.0	10.0	05/27/2014	ND	228	114	200	20.7	
EXT DRO >C28-C35	<10.0	10.0	05/27/2014	ND					
Surrogate: 1-Chlorooctane	110 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	111 9	% 63.6-15	4						

#### Cardinal Laboratories \*=Accredited Analyte

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/15/2014 Sampling Date: 05/14/2014

Reported: 05/29/2014 Sampling Type: Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: PAD CALICHE E. (H401473-02)

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	05/28/2014	ND	2.35	117	2.00	0.169	
Toluene*	<0.050	0.050	05/28/2014	ND	2.33	116	2.00	0.564	
Ethylbenzene*	<0.050	0.050	05/28/2014	ND	2.23	111	2.00	0.00243	
Total Xylenes*	<0.150	0.150	05/28/2014	ND	6.97	116	6.00	0.0216	
Total BTEX	<0.300	0.300	05/28/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/19/2014	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	05/27/2014	ND	212	106	200	16.2	
DRO >C10-C28	<10.0	10.0	05/27/2014	ND	228	114	200	20.7	
EXT DRO >C28-C35	<10.0	10.0	05/27/2014	ND					
Surrogate: 1-Chlorooctane	113 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	112 9	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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# ARDINAL LABORATORIES

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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Eddy Co., NM							Ph	one	e #:		(432)556-	8730	亨	8	×							
en J. Arguijo			_				Fa			DVI	CAMPIIN	ıc	۱°	直	1 2 1	- 1						1
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	Basin Environmental Service Technology Ben Arguijo x 301 State: NM 6-2378 Fax #: (575)3 Project Owne U #162 Eddy Co., NM en J. Arguijo  Sample I.D.  441 Stockpile W.	Basin Environmental Service Technologies Ben Arguijo x 301 State: NM Zip: 6-2378 Fax #: (575)396-14 Project Owner:  U #162 Eddy Co., NM en J. Arguijo  Sample I.D.	Basin Environmental Service Technologies, LL Ben Arguijo x 301  State: NM Zip: 88 6-2378  Fax #: (575)396-1429  Project Owner: BO  LU #162 Eddy Co., NM en J. Arguijo  Sample I.D.  GWO(0) WO BY	Basin Environmental Service Technologies, LLC Ben Arguijo x 301 State: NM Zip: 88260 6-2378 Fax #: (575)396-1429 Project Owner: BOPC0 LU #162 Eddy Co., NM en J. Arguijo  Sample I.D.  GWO(O) W GO # W GO W GO # W GO W GO W GO W GO	Basin Environmental Service Technologies, LLC  Ben Arguijo  x 301  State: NM Zip: 88260  6-2378  Fax #: (575)396-1429  Project Owner: BOPCO, L  U #162  Eddy Co., NM en J. Arguijo  Sample I.D.  August Symplem Symple	Basin Environmental Service Technologies, LLC  Ben Arguijo  x 301  State: NM Zip: 88260  6-2378  Fax #: (575)396-1429  Project Owner: BOPCO, LP  LU #162  Eddy Co., NM  en J. Arguijo  MATE  Sample I.D.  MATE  WO(0) # WATE  WALLEND  WATE  AND COMMATE  WALLEND  WATE  AND COMMATE  WALLEND  WATE  WALLEND  WALL	Basin Environmental Service Technologies, LLC  Ben Arguijo  x 301  State: NM Zip: 88260  6-2378  Fax #: (575)396-1429  Project Owner: BOPCO, LP  LU #162  Eddy Co., NM  en J. Arguijo  MATRIX  Sample I.D.  Sample I.D.  441 Stockpile W. C 1 X	Basin Environmental Service Technologies, LLC	Basin Environmental Service Technologies, LLC  Ben Arguijo  x 301  State: NM Zip: 88260  Attn: 6-2378  Fax #: (575)396-1429  Addre  Project Owner: BOPCO, LP  City:  U #162  Eddy Co., NM  en J. Arguijo  Sample I.D.  Sample I.D.  Addre  Phone  Fax #  WATRIX  PERMATRIX  Addre  Phone  Fax #  441 Stockpile W.  C 1 X	Basin Environmental Service Technologies, LLC   Ben Arguijo   P.O. #:	Basin Environmental Service Technologies, LLC  Ben Arguijo  x 301  State: NM Zip: 88260  Attn: 6-2378  Fax #: (575)396-1429  Address:  Project Owner: BOPCO, LP  City:  U #162  Eddy Co., NM  Phone #: Fax #:  Program Arguijo  Sample I.D.  Sample I.D.  Address:  WMATRIX  PRESERV.  WATRIX  PRESERV.	Basin Environmental Service Technologies, LLC   Brack   Fo. #:   Ben Arguijo   P.O. #:   Company: BOPCO   BOPCO   Attn: Tony Savoid   Address: 522 W. Ma   Fax #: (575)396-1429   Address: 522 W. Ma   Project Owner: BOPCO, LP   City: Carlsbad   State: NM   Zip: 8   Eddy Co., NM   Phone #: (432)556-4   Fax #:   Basin Environmental Service Technologies, LLC   P.O. #:   Company: BOPCO   Attn: Tony Savoid   Address: 522 W. Ma   State: NM   Zip: 8   S	Basin Environmental Service Technologies, LLC   Boundary   Bound	Basin Environmental Service Technologies, LLC   Ben Arguijo   P.O. #:   Company:   BOPCO, LP   Attn:   Tony Savoie   Attn:   Tony Savoie   Address:   522 W. Marland   Project Owner:   BOPCO, LP   City:   Carlsbad   Carlsbad   Carlsbad   Carlsbad   Carlsbad   Carlsbad   City:   City:   Carlsbad   City:   City:   City:   City:   City:   City:   City:   City:   City:   Cit	Basin Environmental Service Technologies, LLC   Ben Arguijo   P.O. #:   Company:   BOPCO, LP   R 301   State: NM   Zip:   88260   Attn:   Tony Savoie   Address:   522 W. Marland   Project Owner:   BOPCO, LP   City:   Carlsbad   C	Basin Environmental Service Technologies, LLC   Bill   Four   F	Basin Environmental Service Technologies, LLC   Ben Arguijo   P.O. #:     Company:   BOPCO, LP     State: NM   Zip:   88260   Attn:   Tony Savoie   Address:   522 W. Marland   Project Owner:   BOPCO, LP   City:   Carlsbad   Carls	Basin Environmental Service Technologies, LLC   BRLL TU	Basin Environmental Service Technologies, LLC			

analyses. All claims Including those for negligence and any other cause whatsoever shall be deemed walved 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,

analyses. At claims including those for negligence and any service, in no event shall Cardinal be liable for incidental or on affiliates or successors arising out of or related to the performs Relinquished By:	Date:	by Cardinal, regardless of whether such claim is based upon it.  Received By:	any of the above stated re	Phone Result:
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June 02, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #162

Enclosed are the results of analyses for samples received by the laboratory on 05/22/14 11:30.

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/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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.

Celey D. Kuno

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To: (575) 396-1429

Received: 05/22/2014 Reported: 06/02/2014

Project Name: PLU #162
Project Number: NONE GIVEN

Project Location: EDDY COUNTY, NM

Sampling Date: 05/20/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: PAD S.P. #14 (H401572-01)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/28/2014	ND	416	104	400	0.00	

#### Sample ID: PAD FLOOR #11 (H401572-02)

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	05/30/2014	ND	2.17	109	2.00	0.311	
Toluene*	<0.050	0.050	05/30/2014	ND	2.16	108	2.00	1.14	
Ethylbenzene*	<0.050	0.050	05/30/2014	ND	2.07	104	2.00	0.568	
Total Xylenes*	<0.150	0.150	05/30/2014	ND	6.48	108	6.00	0.666	
Total BTEX	<0.300	0.300	05/30/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID 105 % 89 4-126

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/28/2014	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/27/2014	ND	199	99.5	200	1.11	
DRO >C10-C28	<10.0	10.0	05/27/2014	ND	213	107	200	0.0136	
EXT DRO >C28-C35	<10.0	10.0	05/27/2014	ND					

Surrogate: 1-Chlorooctane 119 % 65.2-140

#### Cardinal Laboratories \*=Accredited Analyte

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Basin Environmental Service

JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/22/2014 Sampling Date: 05/20/2014

Reported: 06/02/2014 Sampling Type: Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: PAD FLOOR #11 (H401572-02)

TPH 8015M mg/kg Analyzed By: MS

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

#### Sample ID: PAD S.P. #13 (H401572-03)

Chloride, SM4500Cl-B	Analyze	d By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	05/28/2014	ND	416	104	400	0.00	

#### Sample ID: PAD FLOOR #12 (H401572-04)

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	05/28/2014	ND	416	104	400	0.00	

#### Sample ID: PAD S.P. #12 (H401572-05)

Chloride, SM4500Cl-B	Analyze	d By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/28/2014	ND	416	104	400	0.00	

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Basin Environmental Service

JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/22/2014 Sampling Date: 05/20/2014

Reported: 06/02/2014 Sampling Type: Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: PAD FLOOR #13 (H401572-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/28/2014	ND	416	104	400	0.00	

#### Sample ID: PAD S.P. #11 (H401572-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/28/2014	ND	416	104	400	0.00	

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Basin Environmental Service JOEL LOWRY

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/22/2014 Sampling Date: 05/20/2014

Reported: 06/02/2014 Sampling Type: Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: PAD FLOOR #14 (H401572-08)

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	05/30/2014	ND	2.17	109	2.00	0.311	
Toluene*	<0.050	0.050	05/30/2014	ND	2.16	108	2.00	1.14	
Ethylbenzene*	<0.050	0.050	05/30/2014	ND	2.07	104	2.00	0.568	
Total Xylenes*	<0.150	0.150	05/30/2014	ND	6.48	108	6.00	0.666	
Total BTEX	<0.300	0.300	05/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result Reporting Lir		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/28/2014	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	05/27/2014	ND	199	99.5	200	1.11	
DRO >C10-C28	<10.0	10.0	05/27/2014	ND	213	107	200	0.0136	
EXT DRO >C28-C35	<10.0	10.0	05/27/2014	ND					
Surrogate: 1-Chlorooctane	114 %	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	114 %	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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Basin Environmental Service

JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/22/2014 Sampling Date: 05/20/2014

Reported: 06/02/2014 Sampling Type: Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: PAD S.P. #17 (H401572-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/28/2014	ND	416	104	400	0.00	

#### Sample ID: PAD S.P. #16 (H401572-10)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/28/2014	ND	416	104	400	0.00	

#### Sample ID: PAD S.P. #15 (H401572-11)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/28/2014	ND	416	104	400	0.00	

#### Sample ID: PAD S.P. #7B (H401572-12)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	05/28/2014	ND	416	104	400	0.00	

Cardinal Laboratories \*=Accredited Analyte

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Basin Environmental Service JOEL LOWRY

P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/22/2014 Sampling Date: 05/20/2014

Reported: 06/02/2014 Sampling Type: Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: PAD FLOOR #4B (H401572-13)

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	05/30/2014	ND	2.17	109	2.00	0.311	
Toluene*	<0.050	0.050	05/30/2014	ND	2.16	108	2.00	1.14	
Ethylbenzene*	<0.050	0.050	05/30/2014	ND	2.07	104	2.00	0.568	
Total Xylenes*	<0.150	0.150	05/30/2014	ND	6.48	108	6.00	0.666	
Total BTEX	<0.300	0.300	05/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 89.4-12	6						
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	05/28/2014	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	05/29/2014	ND	198	99.2	200	0.0992	
DRO >C10-C28	<10.0	10.0	05/29/2014	ND	213	106	200	0.379	
EXT DRO >C28-C35	<10.0	10.0	05/29/2014	ND					
Surrogate: 1-Chlorooctane	94.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	100	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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Basin Environmental Service JOEL LOWRY

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/22/2014 Sampling Date: 05/20/2014

Reported: 06/02/2014 Sampling Type: Soil
Project Name: PLU #162 Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By: Jodi Henson
Project Location: EDDY COUNTY, NM

#### Sample ID: PAD FLOOR #6B (H401572-14)

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	05/30/2014	ND	2.12	106	2.00	0.844	
Toluene*	<0.050	0.050	05/30/2014	ND	2.11	106	2.00	1.26	
Ethylbenzene*	<0.050	0.050	05/30/2014	ND	2.04	102	2.00	1.76	
Total Xylenes*	<0.150	0.150	05/30/2014	ND	6.39	106	6.00	1.82	
Total BTEX	<0.300	0.300	05/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	05/28/2014	ND	400	100	400	3.92	
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	05/27/2014	ND	199	99.5	200	1.11	
DRO >C10-C28	<10.0	10.0	05/27/2014	ND	213	107	200	0.0136	
EXT DRO >C28-C35	<10.0	10.0	05/27/2014	ND					
Surrogate: 1-Chlorooctane	115 %	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	114 9	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(575) 393-2326 FAX (575) 393-24		Inc	110			-	TES.		DI	II TO		1	_			ANAL VOI	DEOL	IECT		
Company Name:	Basin Environmental Service Techno	olog	ies,	LLC	,		_			BI	LL TO		-		-		ANALYSIS	REQU	JEST	-	_
Project Manager:	Joel Lowry							P.0	0. #:				1		29		1111111				
Address: P.O. Bo	ox 301							Co	mpa	ny:	BOPO	O, LP			2						
City: Lovington	State: NM	Zip	: 8	826	0			Att	tn:		Tony Savo	oie	1		3						
Phone #: (575)39	96-2378 Fax #: (575)39	6-14	429					Ad	dres	s:	522 W. M	arland	1		2		1 1				
Project #:	Project Owner	:						Cit	tv:		Carlsbac	d	1		3	т					
Project Name: Pl	LU #162						- 1		•	NM		88220		E	BTEX (8021B)	FOR TPH					
Project Location:	Eddy Co., NM							1	one i		(432)556		Chloride	TPH (8015M)	802	OR					
	SOFE LOWRY	-					-		x #:	r.	(432)000	-0730	울	8	×	F					
FOR LAB USE ONLY	Joe Comp.		_	_	N	IATR	IX	га	PRE	SERV	SAMPLI	NG	۱°	1	E	НОГР					
Lab I.D. H401572	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL OTHER:	DATE	TIME									
1	-120 -N. Wall #1 PadSP#Y	6	1			1				(	5/20/14	1215	х								$\perp$
2	5/20 N. Floor #1 Pad floor #11	b	1	L		1				1	5/20/14	1220	x	×	X						
3	5/20 N. Well #2 Pad SP #13	6	1			1				(	5/20/14	1225	x								
4	5/20 N. Floor #2 Pad Floor #12	6	1			1				1	5/20/14	1230	х							77.1	
5	5/20 N. Wall #0 ad 5/#/2	6	1			1				1	5/20/14	1235	x								
6	5/20 N. Floor #6 Pad Ploor #13	6	1			1				1	5/20/14	1240	x					1 7 1			
7	5/20 N. Wall #7 Pad SP #11	6	1			1				A	5/20/14	1245	x				L 11.	4 - 1		10.3	
8	5/20 N. Floor #7 fadfloor HAY	6	1			1				A	5/20/14	1250	x	x	X		100				
9	5/20 -Wall #3- Fal SP #17	b	1			1				1	5/20/14	1255	x				19 4.		-		
10	5/20 -Wall #4 PadSP #16	6	١.	1		1				1	5/20/14	1300	x			7					

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Relinquished By:	Date: 5/2://4	Received By:	100	Phone Result: Fax Result:	☐ Yes	□ No	Add'l Phone #: Add'l Fax #:	
lac Joury	Time:	BRblak	ene C F	REMARKS:				
Relinquished By:	Date: 5-22-10 Time: //:30	Received By:	son	Please en TASavoie	nail result @BassP	ts to pm	HOLD FOR TPH @basinenv.com, k SJWalters@BassPet.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	-4.	Sample Condition Cool Intact Yes Yes No No	CHECKED BY:					

FORM-006 Revision 1.0 † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 8824

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

Company Name:	Basin Environmental Service Techno	ologi	es,	LLC						BI	LL TO			•			ANALYSIS REC	UEST	
Project Manager:	Joel Lowry						P	2.0.	#:					29				in in	
Address: P.O. E	3ox 301						c	om	pan	y:	воро	O, LP	1	2	-1				
City: Lovington	State: NM	Zip:	8	3260	)		A	ttn:			Tony Savo	oie	1	3					1 1
Phone #: (575)3	396-2378 Fax #: (575)39	6-14	29				A	ddr	ess	:	522 W. M	arland	1	0	•				1.1
Project #:	Project Owner						c	ity:			Carlsbac		1	3	_	I			1 1
Project Name:	PLU #162						s	tate	: 1	NM	Zip:	88220	_ e	5M)	21B	TPH			1 1
Project Location:	Eddy Co., NM						P	hor	ne #		(432)556	-8730	Chloride	гРН (8015M) <sub>Q</sub>	BTEX (8021B)	FOR			1 1
Sampler Name:	2001 lowper						F	ax #	t:				동	Ĭ	X	9			1 1
FOR LAB USE ONLY					MA	TRIX		Pi	RES	ERV.	SAMPLI	NG	1	=	В	НОГР			1 1
Lab I.D. HUDI572	Sample I.D.	G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	ACID/BASE	ICE / COOL	OTHER:	DATE	TIME							
11	5/20 Wall #5 ad SP#15	6	1		1				1		5/20/14	1305	х						
12	5/20 Wall #76 Pad SP# 76	6	1		1				1		5/20/14	1310	х				THE REST		
13	5/20 Floor #40 Pad floor#46	b	1		1			1	1		5/20/14	1315	x	×	X,				
14	5/20-Floor #84 Pad Ploor#66	Ь	1		1	Н		t	1		5/20/14	1320	x	x	X				
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	names. Cardinal's liability and client's exclusive remedy for any							1		To the state of		the allows for the							

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affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: Received By:	// Phone Result:  Yes  No Add'l Phone #:
$\cap$	5/71/14	Fax Result:
your your	7:30 Stellement	REMARKS:
Relinquished By: /)	Date: Received By:	HOLD FOR TPH
100111	5-22-10 1001: 111110	
The Souper	Time: 1:30 (1) 11 11 11 11	Please email results to pm@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com
Delivered By: (Circle One)	Sample Condition CHECKE	
Delivered By. (Girele One)	Cool Intact (Initia	
Sampler - UPS - Bus - Other:	-4 /0 / ☐Yes ☐Yes /T	
	No No	

FORM-006 Revision 1.0

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

#54



June 05, 2014

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #162

Enclosed are the results of analyses for samples received by the laboratory on 05/29/14 12:00.

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

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.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/29/2014 Reported: 06/05/2014

Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/27/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: PAD FLOOR #15 (H401645-01)

Chloride, SM4500CI-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	06/04/2014	ND	416	104	400	3.92	

#### Sample ID: PAD FLOOR #16 (H401645-02)

BTEX 8021B	mg/	'L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.98	98.9	2.00	1.28	
Toluene*	<0.050	0.050	06/05/2014	ND	2.15	108	2.00	3.58	
Ethylbenzene*	<0.050	0.050	06/05/2014	ND	1.94	97.0	2.00	2.80	
Total Xylenes*	<0.150	0.150	06/05/2014	ND	6.09	101	6.00	4.91	
Total BTEX	<0.300	0.300	06/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID 99.3 % 89.5-126

Chloride, SM4500CI-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	06/04/2014	ND	416	104	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/03/2014	ND	214	107	200	5.51	
DRO >C10-C28	<10.0	10.0	06/03/2014	ND	226	113	200	7.38	
EXT DRO >C28-C35	<10.0	10.0	06/03/2014	ND					

Surrogate: 1-Chlorooctane 88.5 % 65.2-140

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/29/2014 Sampling Date: 05/27/2014

Reported: 06/05/2014 Sampling Type: Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: PAD FLOOR #16 (H401645-02)

TPH 8015M mg/kg Analyzed By: MS

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

Surrogate: 1-Chlorooctadecane 87.7 % 63.6-154

#### Sample ID: PAD S. P. #20 (H401645-03)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	06/04/2014	ND	416	104	400	3.92	

#### Sample ID: PAD S. P. #21 (H401645-04)

Chloride, SM4500Cl-B	mg/kg			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	06/04/2014	ND	416	104	400	3.92	

#### Sample ID: PAD S. P. #22 (H401645-05)

Chloride, SM4500CI-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	06/04/2014	ND	416	104	400	3.92	

Cardinal Laboratories \*=Accredited Analyte

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400

3.92



#### Analytical Results For:

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/29/2014 Sampling Date: 05/27/2014

Reported: 06/05/2014 Sampling Type: Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: PAD S. P. #23 (H401645-06)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

80.0

16.0

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

**Chloride** 464 16.0 06/04/2014 ND 400 100 400 3.92

06/04/2014

Sample ID: PAD S. P. #24 (H401645-07)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

ND

400

100

Sample ID: PAD S. P. #25 (H401645-08)

Chloride

Chloride, SM4500Cl-B Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 64.0 06/04/2014 ND 400 400 3.92 16.0 100

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/29/2014 Sampling Date: 05/28/2014

Reported:06/05/2014Sampling Type:SoilProject Name:PLU #162Sampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi Henson

#### Sample ID: PAD FLOOR #9 (H401645-09)

EDDY COUNTY, NM

Project Location:

BTEX 8021B	mg,	'L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.98	98.9	2.00	1.28	
Toluene*	<0.050	0.050	06/05/2014	ND	2.15	108	2.00	3.58	
Ethylbenzene*	<0.050	0.050	06/05/2014	ND	1.94	97.0	2.00	2.80	
Total Xylenes*	<0.150	0.150	06/05/2014	ND	6.09	101	6.00	4.91	
Total BTEX	<0.300	0.300	06/05/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 89.5-12	6						
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	06/04/2014	ND	400	100	400	3.92	
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	06/03/2014	ND	214	107	200	5.51	
DRO >C10-C28	<10.0	10.0	06/03/2014	ND	226	113	200	7.38	
EXT DRO >C28-C35	<10.0	10.0	06/03/2014	ND					
Surrogate: 1-Chlorooctane	120	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	122	% 63.6-15	4						

#### Cardinal Laboratories \*=Accredited Analyte

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Jodi Henson



#### Analytical Results For:

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/29/2014 Sampling Date: 05/28/2014

Reported: 06/05/2014 Sampling Type: Soil Project Name: PLU #162 Sampling Condition: Cool & Intact Sample Received By:

Project Number: NONE GIVEN Project Location: EDDY COUNTY, NM

#### Sample ID: PAD FLOOR #10 (H401645-10)

BTEX 8021B	mg/	L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.98	98.9	2.00	1.28	
Toluene*	<0.050	0.050	06/05/2014	ND	2.15	108	2.00	3.58	
Ethylbenzene*	<0.050	0.050	06/05/2014	ND	1.94	97.0	2.00	2.80	
Total Xylenes*	<0.150	0.150	06/05/2014	ND	6.09	101	6.00	4.91	
Total BTEX	<0.300	0.300	06/05/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 89.5-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/04/2014	ND	400	100	400	3.92	
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	06/03/2014	ND	214	107	200	5.51	
DRO >C10-C28	<10.0	10.0	06/03/2014	ND	226	113	200	7.38	
EXT DRO >C28-C35	<10.0	10.0	06/03/2014	ND					
Surrogate: 1-Chlorooctane	98.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	108 9	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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Basin Environmental Service BEN J. ARGUIJO

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/29/2014 Sampling Date: 05/28/2014

Reported: 06/05/2014 Sampling Type: Soil

Project Name: PLU #162 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: PAD S. P. #18 (H401645-11)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

272

16.0

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 560 16.0 06/04/2014 ND 400 100 400 3.92

Sample ID: PAD S. P. #19 (H401645-12)

Chloride

Chloride, SM4500CI-B mg/kg Analyzed By: AP

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

ND

400

100

400

3.92

06/04/2014

Cardinal Laboratories \*=Accredited Analyte

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#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

## ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476 ANALYSIS REQUEST BILL TO Basin Environmental Service Technologies, LLC Company Name: P.O. #: Ben Arguijo Project Manager: BOPCO, LP Company: Address: P.O. Box 301 State: NM Zip: 88260 Attn: Tony Savoie City: Lovington 522 W. Marland Fax #: (575)396-1429 Address: (575)396-2378 Phone #: BOPCO, LP Project Owner: City: Carlsbad BTEX (8021B) Project #: TPH (8015M) 88220 State: NM Zip: Chloride PLU #162 Project Name: Phone #: (432)556-8730 Eddy Co., NM Project Location: Fax #: Sampler Name: Billy Blackwood SAMPLING MATRIX PRESERV. FOR LAB USE ONLY G)RAB OR (C)OMP **GROUNDWATER** CONTAINERS WASTEWATER OTHER: ACID/BASE: ICE / COOL Sample I.D. Lab I.D. SOIL TIME 등 DATE H4011045 X 5/27/14 0900 X X G Pad Floor #15 X 0905 X 5/27/14 G X 2 Pad Floor #16

X

X

X

X

X

X

X

X

X

X

X

X

0910

0915

0920

0925

0930

0935

5/27/14

5/27/14

5/27/14

5/27/14

5/27/14

5/27/14

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Pad S.P. #20

Pad S.P. #21

Pad S.P. #22

Pad S.P. #23

Pad S.P. #24

Pad S.P. #25

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X

X

service. In no event shall Cardinal be liable for incidental or cor	nsequental damages, including without limitation, business interruptions, use or use, or see in the above stated re- ince of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated re-	assons or otherwise.  I Phone Posult:	
affiliates or successors arising out of or related to the periodinal Relinquished By:	Date: 5/27/19 Received By:	Fax Result:  Yes  No Add'I Fax #:	
Relinquished By:	Date: 5/25/14 Received By:	Please email results to bjarguijo@basinenv.com, Tony Savoie, Jody Walters & Amy Ruth	
Delivered By: (Circle One)	72:00 Sample Condition CHECKED BY: Cool Intact (Inflials)	Tony davoic, deal waters are any	
Sampler - UPS - Bus - Other: FORM-006	-4.5 C No No		

6

# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(575) 393-2326 FAX (575) 393-2 Basin Environmental Service Techn	ologie	112	C					BIL	L TO					ANA	ALYSIS	REQU	UEST		
Company Name:		ologic	J, L.				P.C		303330											
Project Manager:	Ben Arguijo									BOPCO	O L D				- 1					
Address: P.O. Bo		_	0.0	0000				mpany								1 1				
city: Lovington	State: NM			8200			Att		_	Tony Savoi									1 1	
Phone #: (575)39	96-2378 Fax #: (575)3			-			Add	dress:		522 W. Ma	rland								1 1	
Project #:	Project Owner	r:	ВС	PCO,	LP		Cit	y:		Carlsbad			=	î B						1
Project Name: P	PLU #162						Sta	ite: N	MI :	Zip: 8	8220	de	151	021						
Project Location:	Eddy Co., NM						Ph	one #:		(432)556-	8730	Chloride	(8015M)	8						
Sampler Name: E								x #:				5	F	BTEX (8021B)						
FOR LAB USE ONLY	,	T	Г		MAT	RIX		PRESE	ERV.	SAMPLIN	NG		-	m						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	OTHER:	ACID/BASE: ICE / COOL	OTHER:	DATE	TIME									
9	Pad Floor #9	G	1		X			×		5/28/14	0930	X	X	X		1	$\vdash$	-	+++	$\rightarrow$
10	Pad Floor #10	G	1		X			×	(	5/28/14	0935	X	X	X	-	+		-	+ +	$\rightarrow$
11	Pad S.P. #18	G	1		X			X	(	5/28/14	0940	X				-	-	_		-
12	Pad S.P. #19	G	1		X	-		×	(	5/28/14	0945	X	_		_	-	+		+ +	$\dashv$
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												1	-	+	-	-	+	-	1	
												-	-	-	-	-	++		1	
										all be limited to t										

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's Sectionlusive 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,

affiliates or successors arising out of or related to the performa	ince of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above	Phone Result:	
Relinguished By:	Date: 5/28/10 Received By:	Fax Result:  Yes  No Add'l Fax #:	
File Block	Time: 1700	REMARKS:	
Relinquished By:	Time: 1000 Received By:	Please email results to bjarguijo@basinenv.com, Tony Savoie, Jody Walters & Amy Ruth	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: FORM-006	Sample Condition CHECKED Cool Intact (Initials		
FURM-006	NO NO		

Revision 1.0



June 10, 2014

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #162

Enclosed are the results of analyses for samples received by the laboratory on 06/03/14 8:40.

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

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.

Celes D. Keens

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 06/03/2014

Reported: 06/10/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 06/02/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: S. P. #7C (H401684-01)

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	06/06/2014	ND	2.00	99.9	2.00	2.96	
Toluene*	<0.050	0.050	06/06/2014	ND	2.15	107	2.00	3.33	
Ethylbenzene*	<0.050	0.050	06/06/2014	ND	1.92	96.2	2.00	3.37	
Total Xylenes*	<0.150	0.150	06/06/2014	ND	5.97	99.5	6.00	3.41	
Total BTEX	<0.300	0.300	06/06/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 89.4-12	6						
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	06/04/2014	ND	416	104	400	3.92	
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	06/07/2014	ND	173	86.6	200	0.423	
DRO >C10-C28	<10.0	10.0	06/07/2014	ND	169	84.7	200	3.40	
EXT DRO >C28-C35	<10.0	10.0	06/07/2014	ND					
Surrogate: 1-Chlorooctane	68.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	71.8	% 63.6-15	4						

#### Cardinal Laboratories \*=Accredited Analyte

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#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories \*=Accredited Analyte

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## RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Basin Environmental Service Techno	logie	gies, LLC							BIL	L TO			1		ANALYSIS REQUEST	
Project Manager:								P	.0.	#:					1/4		
Address: P.O.								Company: BOPCO, LF							1		
City: Lovington	State: NM	Zip:	8	826	0			A	Attn:				ie		0		
Phone #: (575)		96-14	29					A	ddr	ress:		522 W. Ma		8			
Project #:	Project Owner	:	ВС	PC	O, L	P		c	ity:			Carlsbad			2	<u></u>	
Project Name:	PLU #162							s	tate	: N	M.	Zip: 8	38220	8	5N	21E	
Project Location:	Eddy Co., NM						P	hon	ne #:		(432)556-	8730	Chloride	80	8		
Sampler Name:	Billy Blackwood							F	ax #					5	TPH (8015M)	BTEX (8021B)	
FOR LAB USE ONLY					М	ATF	SIX		PI	RESE	RV.	SAMPLII	NG	1	F 6		
Lab I.D. H401684	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHEK:	ICE / COOL	OTHER:	DATE	TIME				
1	S.P. #7c	G	1			X		4		X		6/2/14	1515	X	X	X	-

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affiliates or successors arising out of or related to the perfo	ormance of services hereunder by Caldinal, regardless of whether soon callinal based opening	Phone Result:   Yes   No Add'l Phone #:	
Relinguished By:	Date: / / Received By:		
240 1	0/3/19	Fax Result: ☐ Yes ☐ No Add'l Fax #:	
TNI FINI	Time:	REMARKS:	
may sucen	1700	run TPH+BJEXif C1 51000	
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Relinquished By:	Date: /2/// Received By	Tun I'm work por	
/// _	0/1/19	Discourse il soutte to hieraulio@hosinony.com	
19/4/	Time:	Please email results to bjarguijo@basinenv.com,	
21/11/11	0780 DICHARRON	Tony Savoie, Jody Walters & Amy Ruth	
Bulling A Day (Circle One)	A Sample Condition CHECKED/BY		
Delivered By: (Circle One)	(Inftials)		
12K-1Starker			
Sampler - UPS - Bus - Other:	Yes Yes		
FORM-006	7:40 NO NO O		



June 16, 2014

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #162

Enclosed are the results of analyses for samples received by the laboratory on 06/09/14 9:50.

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">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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.

Celes D. Keens

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 06/09/2014

Reported: 06/16/2014 Project Name: PLU #162 Project Number: NONE GIVEN Project Location: EDDY COUNTY, NM Sampling Date: 06/06/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

#### Sample ID: SP #9A (H401740-01)

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	06/12/2014	ND	2.10	105	2.00	2.72	
Toluene*	<0.050	0.050	06/12/2014	ND	2.25	113	2.00	3.44	
Ethylbenzene*	< 0.050	0.050	06/12/2014	ND	2.03	102	2.00	3.01	
Total Xylenes*	<0.150	0.150	06/12/2014	ND	6.28	105	6.00	3.21	
Total BTEX	<0.300	0.300	06/12/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/12/2014	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	06/13/2014	ND	174	86.9	200	3.98	
DRO >C10-C28	<10.0	10.0	06/13/2014	ND	172	85.9	200	5.65	
EXT DRO >C28-C35	<10.0	10.0	06/13/2014	ND					
Surrogate: 1-Chlorooctane	68.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	79.0 9	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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## RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Basin Environmental Service Technol							BILL TO						in		ANA	LYSI	S RE	QUES	ST					
Company Name:		-g.o.	,					P.O. #:					1	1											
Project Manager:								+	337 20 20 20 20 20 20 20 20 20 20 20 20 20					1	6	-				1 1					
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City: Lovington	The first of the second second			020	U			1	ttn:			Tony Savo			rdoled										
Phone #: (575)	)396-2378 Fax #: (575)39					_				ess:		522 W. Ma		1	9			1		1 1					
Project #:	Project Owner	:	BC	PC	O, I	-12		C	ity:			Carlsbad			€	8									
Project Name:	PLU #162							Si	tate	: N	M	Zip: 8	38220	9	151	021				1 1					
Project Location:	: Eddy Co., NM								hon	e #:		(432)556-	8730	Chloride	8	8)				1 1					
Sampler Name:	Billy Blackwood							F			ax #:					٥	TPH (8015M)	BTEX (8021B)				1 1			
FOR LAB USE ONLY				_		MATR	XIX	-	PF	RESE	RV.	SAMPLI	NG	1	F   m					1 1	- 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	SP #9a	G	1			X		1		X		6/6/14	0900	X	$\Delta$	$\wedge$		+	+	+		+	+		

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affiliates or successors arising out of or related to the performation of the performa	Date: Received By:	Phone Result:
Life Flech	Time: 1700	REMARKS:
Relinquished By:  Delivered By: (Circle One)	Date: 6914 Received By:  Time 0750 Sample Condition CHECKED BY:  Cool Intact (Initials)  Cool Pres (Initials)	****Run TPH if chloride is <= 1,000. Run BTEX if TPH is <= 5,000.****  Please email results to bjarguijo@basinenv.com, Tony Savoie, Jody Walters & Amy Ruth  :
Sampler - UPS - Bus - Other: FORM-006	Glal Menson in No CAN	

Revision 1.0

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