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REMEDIATION SUMMARY & RISK-BASED SITE CLOSURE REQUEST

BOPCO, LP
INDIAN FLATS BASS FEDERAL #1 SWD
Eddy County, New Mexico
Unit Letter "J" (NW/SE), Section 35, Township 21 South, Range 28 East
Latitude 32.433905° North, Longitude 104.055425° West
NMOCD Reference #'s: 2RP-1037, 2RP-1208,
2RP-1209, 2RP-1207 & 2RP-1457

Prepared For:

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

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August 2013

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 Indian Flats Bass Federal #1 SWD (Indian Flats SWD). The legal description of the release site is Unit Letter "J" (NW/SE), Section 35, Township 21 South, Range 28 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.433905° North latitude and 104.055425° 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 February 8, 2012, BOPCO discovered a release had occurred at the Indian Flats Salt Water Disposal (SWD). A half-inch (1/2") fitting on the discharge line of a salt water disposal pump failed, resulting in a release of produced water. The release was immediately reported to the New Mexico Oil Conservation Division (NMOCD) Artesia District Office. The "Release Notification and Corrective Action" (Form C-141) indicated approximately two hundred barrels (200 bbls) of produced water were released. During initial response activities, the fitting was replaced, and a vacuum truck was utilized to recover approximately one hundred and sixty barrels (160 bbls) of produced water. Heavily impacted soil was scraped up and stockpiled on-site, pending final disposition. The release affected an area measuring approximately ten thousand, eight hundred and seventy-five square feet (10,875 ft²), which included the area around the pump, the caliche pad surrounding the Indian Flats SWD, and a nearby lease road.

On May 23, 2012, BOPCO discovered a second release had occurred at the Indian Flats SWD. A one-inch (1") valve on a salt water disposal pump was inadvertently left open, causing the sump to overflow. The release was immediately reported to the NMOCD Artesia District Office. The Form C-141 indicated approximately fifty barrels (50 bbls) of produced water were released. During initial response activities, a vacuum truck was utilized to recover approximately ten barrels (10 bbls) of produced water. Heavily impacted soil was scraped up and stockpiled on-site, pending final disposition. The release affected an area measuring approximately eight thousand square feet (8,000 ft²) and commingled with the areas impacted by the February 8, 2012, release.

On May 25, 2012, BOPCO discovered a third release had occurred at the Indian Flats SWD. A gauge on a salt water disposal pump failed, resulting in a release of produced water. The release was immediately reported to the NMOCD Artesia District Office. The Form C-141 indicated approximately eighty barrels (80 bbls) of produced water were released. During initial response activities, the faulty gauge was replaced, and a vacuum truck was utilized to recover approximately twenty barrels (20 bbls) of produced water. The release affected an area measuring approximately five thousand square feet (5,000 ft²) and commingled with the areas impacted by the February 8 and May 23, 2012, releases.

On June 21, 2012, BOPCO discovered a fourth release had occurred at the Indian Flats SWD. During installation of a new heater treater at the site, a three-inch (3") line from the flow line header to the on-site storage tanks broke, resulting in a release of crude oil. The release was immediately reported to the NMOCD Artesia District Office. The Form C-141 indicated approximately fifteen barrels (15 bbls) of produced water were released. During initial response activities, a vacuum truck was utilized to recover approximately five barrels (5 bbls) of crude oil.

100°

165'Jog

2e7-1209

289-207

The release affected an area measuring approximately one thousand, five hundred square feet (1,500 ft²) and was confined to the earthen containment surrounding the tank battery.

On November 27, 2012, BOPCO discovered a fifth release had occurred at the Indian Flats SWD. A back-pressure valve on an SWD pump failed, resulting in a release of produced water. The release was immediately reported to the NMOCD Artesia District Office. The Form C-141 indicated approximately eighty barrels (80 bbls) of produced water were released. During initial response activities, the faulty back-pressure valve was replaced, and a vacuum truck was utilized to recover approximately seventy barrels (70 bbls) of produced water. The release affected an area measuring approximately four thousand, five hundred square feet (4,500 ft²) and commingled with the areas impacted by the February 8, May 23, and May 25, 2012, releases.

2 R2.1656

288, MS7

On April 25, 2013, BOPCO discovered a sixth release had occurred at the Indian Flats SWD. The strainer on the suction to the SWD clogged, causing the pump to discharge at a rate that was insufficient to keep up with the incoming produced water. The alarm system failed to report both high tank levels and high discharge pressure, resulting in an overflow of produced water. The release was immediately reported to the NMOCD Artesia District Office. The Form C-141 indicated approximately three hundred and seventy-five barrels (375 bbls) of produced water were released. During initial response activities, the strainer was removed and cleaned, and a vacuum truck was utilized to recover approximately ten barrels (10 bbls) of produced water. The release commingled with the areas impacted by the February 8, May 23, May 25, June 21, and November 27, 2012, releases.

The six (6) releases were remediated concurrently. The Forms C-141 are provided as Appendix A. General photographs of the release site(s) 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 35, Township 21 South, Range 28 East. A depth-to-groundwater reference map utilized by the NMOCD indicates groundwater should be encountered approximately one hundred and forty feet (140') 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 Indian Flats SWD 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) 5,000 mg/kg (ppm)

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

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On February 23, 2012, delineation of the February 8, 2012, release commenced. A series of delineation trenches were advanced at the site to investigate the horizontal and vertical extent of impacted soil. The delineation trenches were advanced to total depths of approximately five feet (5') bgs. Soil samples collected from the floors of the delineation trenches were field-screened with a chloride test kit. Field-screen test results indicated further vertical delineation of the release site would be required.

On March 6, 2012, two (2) soil borings were advanced at the site to further delineate the vertical extent of soil impacted by the February 8, 2012, release. Soil samples were collected at five-foot (5') drilling intervals and field-screened using a Photo-Ionization Detector (PID) and/or chloride test kit. Selected soil samples were submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis of BTEX, TPH, and/or chloride concentrations in accordance with Environmental Protection Agency (EPA) Methods SW-846 8021b, SW-846 8015M, and 4500 CI-B, respectively. Table 1 summarizes the "Concentrations of Benzene, BTEX, TPH & Chloride in Soil". A "Site & Sample Location Map" is provided as Figure 2. Soil boring logs are provided as Appendix C. Laboratory analytical reports are provided as Appendix E.

Soil boring SB-1 was advanced at the terminus of the flow path of the release. The soil boring was advanced to a total depth of approximately thirty feet (30') bgs. Soil samples collected at drilling depths of five feet (5'), ten feet (10'), twenty-five feet (25'), and thirty feet (30') bgs were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. Laboratory analytical results indicated BTEX constituent concentrations were less than the appropriate laboratory method detection limit (MDL) in all submitted soil samples. TPH concentrations ranged from less than the laboratory MDL in soil sample SB-1 @ 30' to 68.2 mg/kg in soil sample SB-1 @ 5'. Chloride concentrations ranged from 320 mg/kg in soil sample SB-1 @ 10'.

Soil boring SB-2 was advanced near the release point, approximately one hundred and eighty-four feet (184') to the east-northeast of soil boring SB-1. The soil boring was advanced to a total depth of approximately thirty-five feet (35') bgs. Soil samples collected at drilling depths of five feet (5'), ten feet (10'), twenty feet (20'), thirty feet (30'), and thirty-five feet (35') bgs were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. Laboratory analytical results indicated BTEX and TPH constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples. Chloride concentrations ranged from 336 mg/kg in soil sample SB-1 @ 35' to 3,880 mg/kg in soil sample SB-1 @ 5'.

On December 12, 2012, after having procured both permission from the landowner (BLM) and the proper permit from the NMOSE (File #CP-01118), five (5) soil borings (SB-3 through SB-7) were advanced at the site to further delineate the vertical extent of soil impacted by the May 23, May 25, June 21, and November 27, 2012, releases. Soil samples were collected at five-foot (5') drilling intervals and field-screened using a PID and/or chloride test kit. Selected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. BLM and NMOSE permits (which had not been required for the March 6, 2012, drilling event) are provided in Appendix D.

Soil boring SB-3 (Background) was advanced to the southeast of the release site(s), in order to establish the baseline concentration of chlorides in the area. The soil boring was advanced to a total depth of approximately twenty-five feet (25') bgs. Soil samples collected at the ground surface and at drilling depths of five feet (5'), ten feet (10'), fifteen feet (15'), twenty feet (20'), and twenty-five feet (25') bgs were submitted to the laboratory for analysis of chloride and/or TPH concentrations. Soil sample SB-3 (Background) @ 10' was also analyzed for concentrations of BTEX. Laboratory analytical results indicated chloride concentrations ranged from 32.0 mg/kg in soil sample SB-3 (Background) @ Surface, SB-3 (Background) @ 15', SB-3 (Background) @ 20', and SB-3 (Background) @ 25' to 64.0 mg/kg in soil sample SB-3 (Background) @ 5'. TPH and BTEX constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples.

Soil boring SB-4 was advanced inside the earthen containment area surrounding the Indian Flats SWD, to the west of the two (2) on-site production tanks. The soil boring was advanced to a total depth of approximately fifty-six feet (56') bgs. Soil samples collected at the ground surface and at drilling depths of five feet (5'), ten feet (10'), twenty feet (20'), thirty feet (30'), forty feet (40'), fifty feet (50'), and fifty-five feet (55') bgs were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. Laboratory analytical results indicated BTEX constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples. TPH concentrations ranged from less than the laboratory MDL in soil sample SB-4 @ 50' to 316 mg/kg in soil sample SB-4 @ 30' Chloride concentrations ranged from 848 mg/kg in soil sample SB-4 @ 50' to 3,520 mg/kg in soil sample SB-4 @ Surface.

Soil boring SB-5 was advanced in the approximate center of the earthen containment area surrounding the Indian Flats SWD, between the two (2) on-site production tanks and the gun barrel tank. The soil boring was advanced to a total depth of approximately fifty feet (50') bgs. Soil samples collected at the ground surface and at drilling depths of five feet (5'), ten feet (10'), fifteen feet (15'), twenty feet (20'), thirty feet (30'), forty-five feet (45'), and fifty feet (50') bgs were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. Laboratory analytical results indicated BTEX constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples. TPH concentrations ranged from less than the laboratory MDL in soil samples SB-5 @ 10', SB-5 @ 45', and SB-5 @ 50' to 116 mg/kg in soil sample SB-5 @ 30'. Chloride concentrations ranged from 688 mg/kg in soil sample SB-5 @ 50' to 2,440 mg/kg in soil sample SB-5 @ 20'.

Soil boring SB-6 was advanced at the terminus of the comingled flow paths of the February 8, May 23, May 25, and November 27, 2012, releases, approximately fifteen feet (15') to the east of soil boring SB-1. The soil boring was advanced to a total depth of approximately forty-feet (40') bgs. Soil samples collected at the ground surface and at drilling depths of five feet (5'), ten feet

(10'), fifteen feet (15'), twenty-five feet (25'), thirty-five feet (35'), and forty feet (40') bgs were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. Laboratory analytical results indicated BTEX and TPH constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples. Chloride concentrations ranged from 112 mg/kg in soil sample SB-6 @ 40' to 3,680 mg/kg in soil sample SB-6 @ Surface.

Soil boring SB-7 was advanced along the comingled flow paths of the February 8, May 23, May 25, and November 27, 2012, releases, approximately seventy feet (70') to the west-southwest of soil boring SB-2. The soil boring was advanced to a total depth of approximately sixty-five feet (65') bgs. Soil samples collected at the ground surface and at drilling depths of five feet (5'), ten feet (10'), twenty feet (20'), thirty feet (30'), forty feet (40'), fifty feet (50'), sixty feet (60'), and sixty-five feet (65') bgs were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. Laboratory analytical results indicated BTEX and TPH constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples. Chloride concentrations ranged from 288 mg/kg in soil sample SB-7 @ 30' to 13,200 mg/kg in soil sample SB-7 @ Surface.

On May 31 and June 3, 2013, after having procured both permission from the landowner (BLM) and the proper permit from the NMOSE (File #CP-01171), three (3) soil borings (SB-8 through SB-10) were advanced at the site to further delineate the vertical extent of impacted soil from the April 25, 2013 release. Soil samples were collected at five-foot (5') drilling intervals and field-screened using a PID and/or chloride test kit. Selected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. BLM and NMOSE permits are provided in Appendix D.

Soil boring SB-8 was advanced at the terminus of the flow path of the release, approximately forty feet (40') to the east of soil boring SB-6 and approximately fifty-five feet (55') to the east of soil boring SB-1. The soil boring was advanced to a total depth of approximately seventy feet (70') bgs. Soil samples collected at drilling depths of five feet (5'), ten feet (10'), twenty-five feet (25'), forty feet (40'), fifty-five feet (55'), sixty-five feet (65'), and seventy feet (70') bgs were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. No surface sample was collected, as the in-situ soil had been disturbed by construction activities at the site. Laboratory analytical results indicated BTEX constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples. TPH concentrations ranged from less than the laboratory MDL in soil samples SB-8 @ 10', SB-8 @ 40', SB-8 @ 55', and SB-8 @ 65' to 32.9 mg/kg in soil sample SB-8 @ 5'. Chloride concentrations ranged from 256 mg/kg in soil sample SB-8 @ 65' to 2,400 mg/kg in soil sample SB-8 @ 10'.

Soil boring SB-9 was advanced inside the earthen containment area surrounding the Indian Flats SWD, to the east of the on-site produced water storage tanks. The soil boring was advanced to a total depth of one hundred and ten feet (110') bgs. Soil samples collected at drilling depths of five feet (5'), ten feet (10'), twenty-five feet (25'), forty-five feet (45'), sixty feet (60'), seventy-five feet (75'), eighty-five feet (85'), ninety-five feet (95'), one hundred feet (100'), one hundred and five feet (105'), and one hundred and ten feet (110') bgs were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. No surface sample was collected, as the in-situ soil had been disturbed by construction activities at the site. Laboratory analytical results indicated BTEX and TPH constituent concentrations were less than the appropriate laboratory

MDL in all submitted soil samples. Chloride concentrations ranged from 336 mg/kg in soil sample SB-9 @ 105' to 3,680 mg/kg in soil sample SB-9 @ 5'.

Soil boring SB-10 was advanced inside the earthen containment area surrounding the Indian Flats SWD, to the east of the on-site produced water storage tanks, and approximately fifteen feet (15') to the north of soil boring SB-9. The soil boring was advanced to a total depth of approximately one hundred and fifteen feet (115') bgs. Soil samples collected at drilling depths of five feet (5'), ten feet (10'), twenty-five feet (25'), forty feet (40'), fifty feet (50'), seventy feet (70'), eighty feet (80'), ninety feet (90'), one hundred feet (100'), one hundred and ten feet (110'), and one hundred and fifteen feet (115') bgs were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. No surface sample was collected, as the in-situ soil had been disturbed by construction activities at the site. Laboratory analytical results indicated BTEX and TPH constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples. Chloride concentrations ranged from 608 mg/kg in soil sample SB-10 @ 100' to 7,440 mg/kg in soil sample SB-10 @ 10'.

On June 5, 2013, approximately one hundred and twenty cubic yards (120 yd³) of stockpiled material on-site was transported to Lea Land, Inc. (NMOCD Permit # WM-01-035), for disposal.

On June 6, 2013, excavation of impacted soil commenced at the site. A chloride test kit was used to field-screen the horizontal extent of impacted soil and to guide the excavation. From June 6 through July 11, 2013, approximately three thousand, two hundred and sixty cubic yards (3,260 yd³) of impacted soil was excavated and transported to Lea Land, Inc., for disposal.

On June 14, 2013, two (2) soil samples (North Wall #1 and South Wall #1) were collected from the sidewalls of the excavation and submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated TPH concentrations were less than the laboratory MDL in all submitted soil samples. Chloride concentrations ranged from 864 mg/kg in soil sample South Wall #1 to 960 mg/kg in soil sample North Wall #1.

On June 24, 2013, four (4) soil samples (North Wall #2, South Wall #2, East Wall #1, and West Wall #1) were collected from the sidewalls of the excavation and submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated TPH concentrations were less than the laboratory MDL in all submitted soil samples. Chloride concentrations ranged from 304 mg/kg in soil sample South Wall #2 to 640 mg/kg in soil sample West Wall #1.

On July 3, 2013, two (2) soil samples (South Wall #3 and South Wall #4) were collected from the sidewalls of the excavation and submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated TPH concentrations were less than the laboratory MDL in all submitted soil samples. Chloride concentrations ranged from 512 mg/kg in soil sample South Wall #3 to 576 mg/kg in soil sample South Wall #4.

On July 10, 2013, two (2) soil samples (North Wall #3 and North Wall #4) were collected from the sidewalls of the excavation and submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated TPH concentrations were less than the laboratory MDL in all submitted soil samples. Chloride concentrations ranged from 2,800 mg/kg in soil sample North Wall #3 to 3,680 mg/kg in soil sample North Wall #4.

Further excavation in the areas represented by soil samples North Wall #3 and North Wall #4 was deemed impracticable due to the presence of an active truck lane and load line adjacent to the excavation. The truck lane represents the only thoroughfare to two (2) active production wells to the west of the Indian Flats SWD. Limiting access to both the production wells and the Indian Flats SWD would have placed an undue financial burden on BOPCO and introduced an environmental hazard due to the increased risk for subsequent releases.

On the morning of July 16, 2013, a representative of BOPCO met with a representative of the NMOCD Artesia District Office to request permission to leave soil represented by soil samples North Wall #3 and North Wall #4 in-situ. Permission was also requested to install a twenty (20) mil polyurethane liner on the floor of the excavation. The requests were approved by the NMOCD representative.

On the afternoon of July 16, 2013, a twenty (20) mil polyurethane liner was installed on the floor excavation at approximately four feet (4') bgs. A cushion of sand was installed approximately one foot (1') both above and below the liner to protect the liner from damage during installation and backfilling activities.

Based on laboratory analytical results, and with NMOCD approval, from July 19 through July 24, 2013, the excavation was backfilled in eighteen-inch (18") lifts, compacted, and contoured to fit the surrounding topography. Prior to backfilling, the final dimensions of the excavation were approximately two hundred and sixty feet (260') in length, varying in width from approximately forty feet (40') to approximately eighty feet (80'), and approximately five feet (5') in depth.

To mitigate future releases, a new, steel-walled containment area has been constructed around the Indian Flats SWD. A felt liner has been installed in the floor of the new containment area, and the floor and perimeter walls have been coated with an impermeable, spray-on polyurethane liner. The steel perimeter walls extend approximately two feet (2') above ground surface.

4.0 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

Soil samples collected from the sidewalls of the Indian Flats SWD excavation were analyzed by an NMOCD-approved laboratory, and concentrations of benzene, BTEX, and TPH were below the regulatory remediation action levels established for the site by the NMOCD.

The release site was excavated to the extent practicable. A twenty (20) mil polyurethane liner was installed on the floor of the excavation, and the floor and perimeter walls of the new steel containment area surrounding the Indian Flats SWD were coated with a spray-on polyurethane liner. These engineered controls will help mitigate future releases and effectively inhibit vertical migration of contaminants to groundwater. In-situ soil exhibiting chloride contamination above the regulatory remediation action levels established for the site will be remediated upon decommission and/or abandonment of the currently salt water disposal system.

Basin Environmental recommends BOPCO provide the NMOCD Artesia District Office and BLM a copy of this *Remediation Summary & Risk-Based Site Closure Request* and request the NMOCD grant site closure to the Indian Flats SWD 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)

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Copy 2: James Amos

Bureau of Land Management

602 E. Greene Street Carlsbad, NM 88220

Copy 3: Tony Savoie

BOPCO, LP

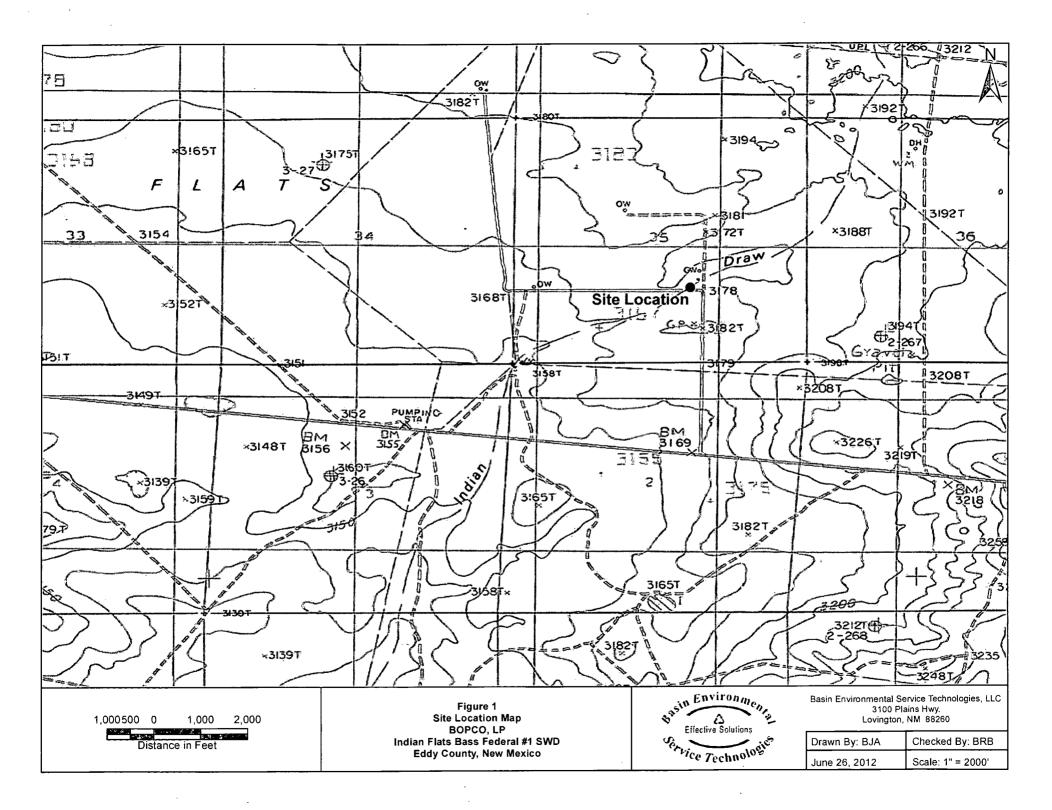
522 W. Mermod, Suite 704 Carlsbad, NM 88220

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Figures



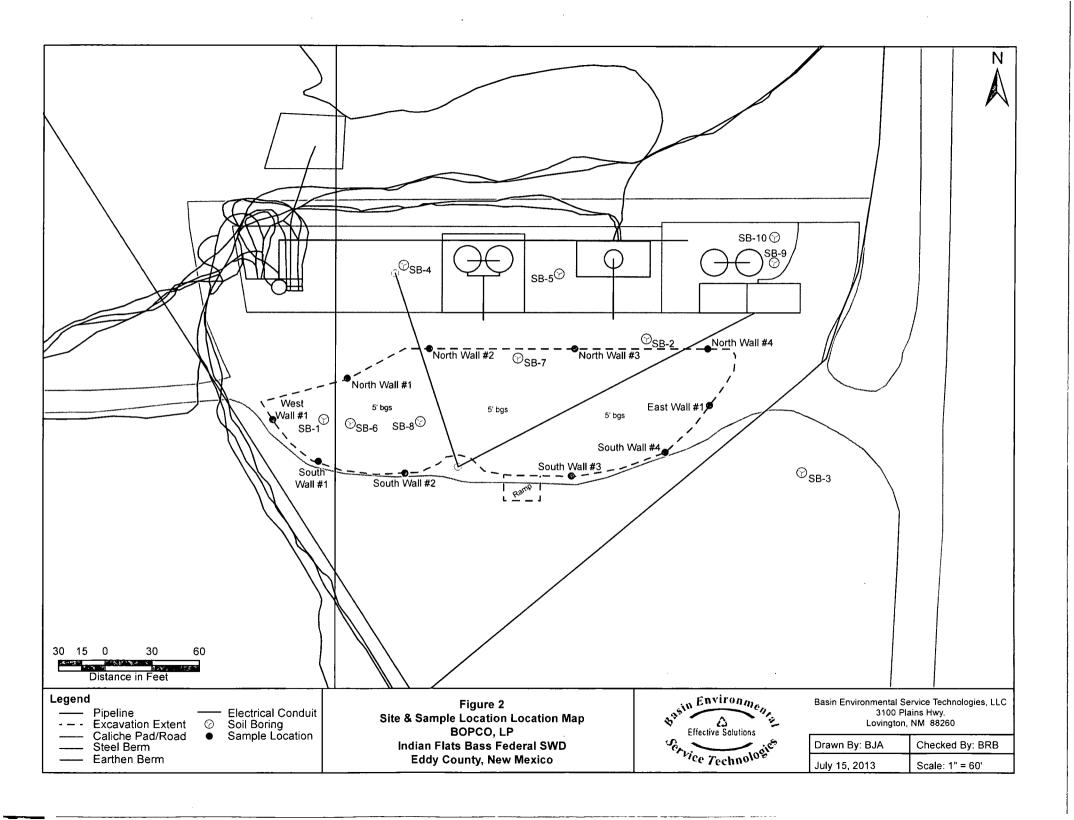


TABLE 1 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

BOPCO, LP INDIAN FLATS BASS FEDERAL SWD EDDY COUNTY, NEW MEXICO

					METHOD: EI	PA SW 846-80	21B, 5030		ME	THOD: 801	5M	TOTAL	4500 CI-B
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
SB-1 @ 5'	5'	3/6/2012	Excavated	-	-	-	-	-	<50.0	68.2	<50.0	68.2	2,440
SB-1 @ 10'	10'	3/6/2012	In-Situ	<0.050	< 0.050	<0.050	<0.150	-	<10.0	15.4	10.1	25.5	3,320
SB-1 @ 25'	25'	3/6/2012	In-Situ	-	-	-	-	-	-	-	-	-	512
SB-1 @ 30'	30'	3/6/2012	In-Situ	<0.050	<0.050	<0.050	<0.150	-	<10.0	<10.0	<10.0	<10.0	320
SB-2 @ 5'	5'	3/6/2012	In-Situ	+	-	-	-	-	<10.0	<10.0	<10.0	<10.0	3,880
SB-2 @ 10'	10'	3/6/2012	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	2,760
SB-2 @ 20'	20'	3/6/2012	In-Situ	-	-	-	-	-	-	-	-	-	3,720
SB-2 @ 30'	30'	3/6/2012	In-Situ		-	-	-	-	-	-	-	-	768
SB-2 @ 35'	35'	3/6/2012	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	336
SB-3 (Background) @ Surface	Surface	12/12/2012	In-Situ	-	-	-	-	-	-	-	-	-	32.0
SB-3 (Background) @ 5'	5'	12/12/2012	In-Situ		-	-	-	-	<10.0	<10.0	<10.0	<10.0	64.0
SB-3 (Background) @ 10'	10'	12/12/2012	In-Situ	<0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	48.0
SB-3 (Background) @ 15'	15'	12/12/2012	In-Situ	•	-	-	-	-	-	-	-	-	32.0
SB-3 (Background) @ 20'	20'	12/12/2012	In-Situ	-	-	-	-	-	-	-	-	-	32.0
SB-3 (Background) @ 25'	25'	12/12/2012	In-Situ	•	-	-	-	-	-	-	-	-	32.0
SB-4 @ Surface	Surface	12/12/2012	In-Situ	_	_	<u> </u>		-	_	-	_	_	3,520
SB-4 @ 5'	5'	12/12/2012	In-Situ		_	_	-	-	<10.0	123	34.9	158	928
SB-4 @ 10'	10'	12/12/2012	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	63.1	18.2	81.3	1,620
SB-4 @ 20'	20'	12/12/2012	In-Situ	-	- 10.000	-	-	-	-	-	-	-	1,950
SB-4 @ 30'	30'	12/12/2012	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	256	60.4	316	2,880
SB-4 @ 40'	40'	12/12/2012	In-Situ	-	-		-	•	-	-		•	1,620
SB-4 @ 50'	50'	12/12/2012	In-Situ	_	_	-	-	-	<10.0	<10.0	<10.0	<10.0	848
SB-4 @ 55'	55'	12/12/2012	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	33.2	<10.0	33.2	896
SB-5 @ Surface	Surface	12/12/2012	In-Situ			_	-						976
SB-5 @ 50Hace	5urface 5'	12/12/2012	In-Situ	-			<u> </u>		<u> </u>	<u> </u>	-		736
SB-5@5 SB-5@10'	10'	12/12/2012	In-Situ In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	1,230
SB-5 @ 10 SB-5 @ 15'	15'	12/12/2012	In-Situ In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	20.9	<10.0	20.9	2,000
SB-5 @ 20'	20'	12/12/2012	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	20.9	<10.0	20.9	2,440
SB-5 @ 20 SB-5 @ 30'	30'	12/12/2012	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	104	12.4	116	1,040
SB-5 @ 45'	45'	12/12/2012	In-Situ In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	992
SB-5 @ 45 SB-5 @ 50'	50'	12/12/2012	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	688
35-3 W 30	30	12/12/2012	เท-อแน	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	000

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

BOPCO, LP INDIAN FLATS BASS FEDERAL SWD EDDY COUNTY, NEW MEXICO

·					METHOD: E	PA SW 846-80	21B, 5030		ME	THOD: 801	5M	TOTAL	4500 CI-B
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
SB-6 @ Surface	Surface	12/12/2012	Excavated	-	-	-	-	-	-	-	-	-	3,680
SB-6 @ 5'	5'	12/12/2012	Excavated	-	-	-	-	-	-	-	-	-	192
SB-6@10'	10'	12/12/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	1,520
SB-6 @ 15'	15'	12/12/2012	In-Situ	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2,000
SB-6 @ 25'	25'	12/12/2012	In-Situ	-	-	-	-	-	-	-	-	-	304
SB-6 @ 35'	35'	12/12/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	144
SB-6 @ 40'	40'	12/12/2012	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
SB-7 @ Surface	Surface	12/12/2012	Excavated	-	+	+	+	-	-	-	-	-	13,200
SB-7 @ 5'	5'	12/12/2012	Excavated	-	-	-	<u>-</u>	-	<10.0	<10.0	<10.0	<10.0	384
SB-7 @ 10'	10'	12/12/2012	In-Situ	<0.050	<0.050	<0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	784
SB-7 @ 20'	20'	12/12/2012	In-Situ	-	-	•	-	-	-	-	-	-	304
SB-7 @ 30'	30'	12/12/2012	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	288
SB-7 @ 40'	40'	12/12/2012	In-Situ	-	-	-	-	-	•	-	-		368
SB-7 @ 50'	50'	12/12/2012	In-Situ	•	-	-	-	-			-	-	704
SB-7 @ 60'	60'	12/12/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	576
SB-7 @ 65'	65'	12/12/2012	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	496
SB-8 @ 5'	5'	5/31/2013	Excavated	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17.4	15.5	32.9	928
SB-8 @ 10'	10'	5/31/2013	In-Situ	< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2,400
SB-8 @ 25'	25'	5/31/2013	In-Situ	< 0.050	<0.050	< 0.050	<0.150	< 0.300	<10.0	11.7	10.2	21.9	1,570
SB-8 @ 40'	40'	5/31/2013	In-Situ	-	-	-	<u>-</u>	-	-	•	-	<10.0	672
SB-8 @ 55'	55'	5/31/2013	In-Situ	<u>-</u>	-	-	-	-	-	-	-	<10.0	512
SB-8 @ 65'	65'	5/31/2013	In-Situ	<0.050	<0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	256
SB-8 @ 70'	70'	5/31/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	13.2	<10.0	13.2	352
SB-9 @ 5'	5'	5/31/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	3,680
SB-9 @ 10'	10'	5/31/2013	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	<0.300	<10.0	<10.0	<10.0	<10.0	3,600
SB-9 @ 25'	25'	5/31/2013	In-Situ	-	-	-	-	-	-		-	-	3,320
SB-9 @ 45'	45'	5/31/2013	In-Situ	< 0.050	<0.050	<0.050	< 0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,090
SB-9 @ 60'	60'	5/31/2013	In-Situ	< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2,100
SB-9 @ 75'	75'	5/31/2013	In-Situ	< 0.050	<0.050	<0.050	< 0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,680
SB-9 @ 85'	85'	5/31/2013	In-Situ	-	-	<u> </u>	-	<u>-</u>	•	•	•		800
SB-9 @ 95'	95'	5/31/2013	In-Situ			-		-	-	-		-	512
SB-9 @ 100'	100'	5/31/2013	In-Situ	-	-	-	-	-	-	-	-	-	512
SB-9 @ 105'	105'	5/31/2013	In-Situ	< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	336
SB-9 @ 110'	110'	5/31/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	688
						· · · · · · · · · · · · · · · · · · ·							

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

BOPCO, LP INDIAN FLATS BASS FEDERAL SWD EDDY COUNTY, NEW MEXICO

					METHOD: E	PA SW 846-80	21B, 5030		ME	THOD: 801	5M	TOTAL	4500 CI-B
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE 6/3/2013	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
SB-10 @ 5'	5'	6/3/2013	In-Situ	<0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	5,120
SB-10 @ 10'	10'	6/3/2013	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	7,440
SB-10 @ 25'	25'	6/3/2013	In-Situ	-	-	-	-			-	-		704
SB-10 @ 40'	40'	6/3/2013	In-Situ	-	-	-	-	-	-	-	-		1,090
SB-10 @ 50'	50'	6/3/2013	In-Situ	<0.050	< 0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	3,520
SB-10 @ 70'	70'	6/3/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2,180
SB-10 @ 80'	80'	6/3/2013	In-Situ	-	-	-			-	•	-	-	768
SB-10 @ 90'	90'	6/3/2013	In-Situ	<0.050	< 0.050	<0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	1,170
SB-10 @ 100'	100'	6/3/2013	In-Situ	-	-	-		-	-	-	-	-	608
SB-10@ 110'	110'	6/3/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	672
SB-10@ 115'	115'	6/3/2013	In-Situ	<0.050	<0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	1,060
South Wall #1	3.5'	6/14/2013	In-Situ	-		•			<10.0	<10.0	<10.0	<10.0	864
North Wall #1	3.5'	6/14/2013	In-Situ	-	,	-	-	-	<10.0	<10.0	<10.0	<10.0	960
North Wall #2	3.5'	6/24/2013	In-Situ	<u>-</u>		•	-	_	<10.0	<10.0	<10.0	<10.0	368
East Wall #1	3.5'	6/24/2013	In-Situ		-	-	-	-	<10.0	<10.0	<10.0	<10.0	416
South Wall #2	3.5'	6/24/2013	In-Situ	•		-	•	-	<10.0	<10.0	<10.0	<10.0	304
West Wall #1	3.5'	6/24/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	640
South Wall #3	3.5'	7/3/2013	In-Situ	<u> </u>		-	-		<10.0	<10.0	<10.0	<10.0	512
South Wall #4	3.5'	7/3/2013	In-Situ	-	-	-	-		<10.0	<10.0	<10.0	<10.0	576
North Wall #3	3.5'	7/10/2013	In-Situ						<10.0	<10.0	<10.0	<10.0	2,800
North Wall #4	3.5'	7/10/2013	In-Situ		-	-	-	_	<10.0	<10.0	<10.0	<10.0	3,680
riorar er an ma	0.0	7710/2013	"TORU						170.0	~ 70.0	170.0	170.0	
NMOCD Criteria				10					50			5,000	1,000

^{- =} Not analyzed.

Appendices

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

* Attach Additional Sheets If Necessary

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

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

Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

2RA-1037

Release Notification and Corrective Action nMCA1205242397 **OPERATOR** Final Report ☐ Initial Report Name of Company BOPCO, L.P. 260737 Contact Tony Savoie Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 Telephone No. 432-556-8730 30-015-24968 Facility Name: Indian Flats Bass Federal #1 SWD Facility Type: E&P Surface Owner Federal Mineral Owner Federal Lease No. LC-067144 LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County J 35 **21S** 28E Eddy Latitude N 32.433905 Longitude W 104.055425 **NATURE OF RELEASE** Type of Release: Produced water Volume of Release: 200 bbls Volume Recovered: 160 bbls Source of Release: 1/2' fitting on the pump discharge line. Date and Hour of Occurrence Date and Hour of Discovery 2/8/12 time unknown 2/8/12 9:00 a.m. Was Immediate Notice Given? If YES, To Whom? Mike Bratcher By Whom? Tony Savoie Date and Hour 2/8/12 11:44 a.m. Was a Watercourse Reached? If YES, Volume Impacting the Watercourse, ☐ Yes 🖾 No RECEIVED If a Watercourse was Impacted, Describe Fully.* FEB 20 2012 Describe Cause of Problem and Remedial Action Taken.* a 1/2' fitting on the discharge of the salt water disposal pump broke. The fitting was replaced. Describe Area Affected and Cleanup Action Taken.*The released fluid affected approximately 10,875 sq. ft. area around the pump, lease road and caliche well pad. The free standing fluid was picked up with a vacuum truck and the saturated soil was scraped up and stockpiled on-site. The Site remediation for the produced water will follow the NMOCD guidelines for leaks and spills. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Approved by District Supervisor: Signature: Signed By Printed Name: Tony Savoie Approval Date: FEB 2 1 2012 Title: Waste Mgmt.& Remediation Specialist **Expiration Date:** E-mail Address: TASavoie@BassPet.com Conditions of Approval: Attached | Remediation per OCD Rules & Guidelines. SUBMIT REMEDIATION Date: 2/20/12 Phone:432-556-8730

PROPOSAL NOT LATER THAN:

District 1 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410

1220 S. St. Francis Dr., Santa Fe, NM 87505

District IV

State of New Mexico Energy Minerals and Natural Resources RECEIVED

Form C-141 Revised October 10, 2003

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

OCT 0 3 2013 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back NMOCD ARTESIA side of form

Release Notification and Corrective Action

					OPE	RATOR			Initial I	Report	X Final Report	
Name of Co	mpany	BOPCO, LI)			Contact To	ony Savoie					
		rmod, Suite	704, Carl	sbad, NM 8822	20	Telephone I	No. (432)556-8	730				
		Flats Bass F				Facility Typ	e E&P	-				
G C O	F. J.	1		1.0		Federal				I. I.O.O.	7144	
Surface Ow	ner rede	гат		Mineral (Jwner	rederai				No. LC-06 0-015-249		
									API #3	0-013-249	708	
				LOCA	ATIO	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/W	est Line	County		
J	35	218	28E							Eddy		
1		1	l	L	1		l	1		L		
			<u>Latit</u>	ude 32.433905	° North	ı	Longitude 10	4.05542	25° West			
				NAT	ΓURE	OF REL	EASE					
Type of Rele	ase Produc	ed water					Release 200 bbl	s of	Volume I	Recovered	160 bbls	
						produced water Date and Hour of Occurrence						
Source of Re	lease 1/2"	fitting on the	pump disc	harge line		Date and F	ce	Date and Hour of Discovery 2/8/12 9:00 a.m.				
Was Immedia	ate Notice (Given?				If YES, To			2/8/12 9:0	oo a.m.		
was minican	ate Motice v		es No	Not Required		Mike Brate						
By Whom?	Tony Sayo					Date and I	Jour 2/8/12 11:4/	1 a m				
Was a Water						Date and Hour 2/8/12 11:44 a.m. If YES, Volume Impacting the Watercourse.						
			Yes >	(No		17 125, Volume impacting the Watercourse.						
If a Watercou	irce was Im	pacted, Descr	ibe Fully *	k								
i i a watercot	iise was iii	ipacicu, Desci	ibe runy.									
	ise of Prob	olem and Rem	nedial Acti	ion Taken:* A 1	/2" fitti	ng on the dis	charge line of the	e salt wa	iter dispos	al pump b	roke. The fitting was	
replaced.	a Δ ffected	and Cleanup	Action Tal	ren * The release	d fluid	affected appro	vimately 10 875	ea ft are	a around t	he numn 1	ease road, and caliche	
well pad. A	vacuum tru	ck was utilize	ed to remo	ve all of the free	e-standi	ng liquid. Fol	lowing initial res	onse ac	tivities, th	e release v	vas remediated as per	
NMOCD rec	ommended	guidelines. Pl	ease refere	ence the attached	Remed	iation Summa	ry & Risk-Based S	Site Closi	ure Reques	st for reme	diation details.	
											to NMOCD rules and	
											which may endanger	
											e operator of liability water, human health	
											liance with any other	
		ws and/or regu							poneronay	p		
	·						OIL CON	SERV	<u>ATION</u>	DIVISI	ON	
Cianatuma			@									
Signature:		The state of the s	auri									
Printed Name	: 1	OWY SO	LUDIE	-	Approved by District Supervisor:							
	- ·- 	(_		
Title:						Approval Da	te:	E	Expiration	Date:		
E-mail Addre	ess:					Conditions o	f Approval:					
				·		23	r P - 0 - -					
Date: 10	13/13	3 Pt	ione:									

2RP-1037

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

State of New Mexico Energy Minerals and Natural Resources

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

Release Notification and Corrective Action

Revised October 10, 2003

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Form C-141

nTMI	1 1219	350779		ase Notific	atio	n and Co OPERAT			∏ Initia	, Il Report		Final Report		
Name of Co				260737	Т	Contact Tor								
				ad, N.M. 88220			No. 432-556-87	30						
Facility Nan						Facility Typ								
Surface Ow				Mineral O	wner	Federal			Lease N	o. LC-067	144	API#		
Indian Flo	45 BASS	Fed#1		LOCA	TIO	N OF REI	LEASE	30	-015	- 2496	8			
Unit Letter J	Section 35	Township 21S	Range 28E	Feet from the		/South Line	Feet from the		est Line	County Eddy				
			La	atitude_N 32.43	3905_	Longitud	de W 104.0554	25_	- 1	, , , , , , , , , , , , , , , , , , , ,				
				NAT	URE	OF REL	EASE							
Type of Relea							Release: 50 bbls			ecovered: 10				
Source of Re	lease: A SW	VD pump				1	lour of Occurrence	ce		Hour of Disc	covery			
Was Immedia	ta Natioa (Given?				1f YES, To	me unknown		5/23/12 9:	:00 a.m.				
was mimeura	ate Notice (Yes	No 🗌 Not Re	quired		Emergency #104							
By Whom? T							Iour 5/23/12 1:30							
Was a Watero	course Reac	ched?	Yes 🛚	No		If YES, Volume Impacting the Watercourse.								
If a Watercourse was Impacted, Describe Fully.*														
	Ta watercourse was impacted, Describe Fully.													
Describe Cau	se of Proble	em and Reme	dial Action	ı Taken.* A 1" va	lve wa	s left open on	the pump causing	g the sum	np to overfl	ow. The valv	ve was	closed.		
well pad. The same area as The Site reme	free standi another spil ediation for	ing fluid was p Il reported on the produced	oicked up v 2/8/12. water will	en.*The released with a vacuum true follow the NMO	ck and CD gui	the saturated :	soil was scraped aks and spills.	up and st	ockpiled o	n-site. The sp	pill cov	ered the		
regulations al public health should their o	I operators or the environment operations hament. In a	are required to ronment. The ave failed to a ddition, NMC	o report an acceptance idequately ICD accep	is true and compled/or file certain rece of a C-141 repoinvestigate and retained of a C-141 received in the control of a C-141 received.	clease in the second se	notifications as ne NMOCD m te contaminati	nd perform correct arked as "Final R on that pose a the	ctive acti Report" de reat to gre	ons for rele oes not reli ound water	eases which a eve the opera surface wat	may en ator of ter, hun	danger liability nan health		
		_	_				OIL CON	SERV	<u>ATION</u>	DIVISIO	N			
Signature:	1 ou	- Sau	w			Approved by	District Supervis		·	al!	il			
Printed Name	: Tony Sav	oie						Si	gned By_	pr11/4)	C) KAA	relieve_		
Title: Waste	Mgmt.& Re	mediation Sp	ecialist			Approval Da	te: JUL 11	2012 E	Expiration	Date:				
E-mail Addre		oie@BassPet.c		Dhama. 422 557 97	Conditions of Approval:									
Date: 6/24/12 Attach Addit		ets If Necess		Phone:432-556-87		<u> </u>				ARP		<u>() 9</u>		
Attach Addit	.ionar Sncc	763 [1 1400033	ui y	ren Guidelin	iediai	tion per OC	D Rules &			arr	-12	.00		
				PROPOS	SAL N	UBMIT REM OT LATER T	IEDIATION HAN:		RE	CEIV	ED			
				-8/1	<u>'1 </u>	2			1	UN 2 :6 2	012			
									1	OCD AR		IA		

 $\frac{District\ I}{1625\ N.\ French\ Dr}\ ,\ Hobbs,\ NM\ 88240$ District III

1000 Rto Brazos Road, Aztec, NM 87410

District IV

1220 S St Francis Dr , Sonta Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

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

Revised October 10, 2003

Form C-141

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

NMOCD ARTESIA

1			Rele	ease Notifica	tior	and Co	rrective A	ction					
WMICO			5			OPERA				al Report		Final Report	
Name of Co	mpany BC	PCO, L.P.		2607		Contact Tor							
				ad, N.M. 88220			No. 432-556-873	30					
Facility Nan	ne: Indian	Flats Bass F	ederal #	ISWD	1_	Facility Typ	e: E&P						
Surface Ow				Mineral Ov	vner F	ederal			Lease 1	lo. LC-067	144/	MIH	
Endion Flax	S BASE	Ced # 1		LOCA	ΓΙΟΙ	N OF RE	LEASE J	20-0	15- d	14968	,		
Unit Letter J	Section 35	Township 21S	Range 28E	Feet from the	North/	South Line	Feet from the	East/V	Vest Line	County Eddy			
			L	atitude_N 32.433	3905_	Longitu	de W 104.05542	25_					
				NATU	JRE	OF REL	EASE						
Type of Relea							Release: 80 bbls			Recovered: 2			
Source of Re	ease: A sal	t water transfe	er pump.			1	lour of Occurrence me unknown	e	Date and 5/25/12 9	Hour of Disc	covery		
Was Immedia	ite Notice (Yes [No Not Rec	uired	If YES, To	Whom?		3123112 9	.00 a.m.			
By Whom? T	ony Savoie	;				Date and Hour 5/25/12 11:40 a.m.							
Was a Water	course Read		Yes ∑] No	If YES, V	olume Impacting (the Wate	ercourse.					
If a Watercou	irse was Im	pacted, Descr	ibe Fully.	*									
Describe Are well pad. The rotary rig was	a Affected a free standars used to de ediation for	and Cleanup Ang fluid was permine the vo	Action Tal picked up ertical extension	n Taken.* A gauge ken.*The released f with a vacuum truc ent of the first relea I follow the NMOO e is true and comple	luid af k. The se. A r CD gui	ffected approx e release is in rig will be re- delines for le	ximately 5,000 sq. the same location scheduled to delinates and spills.	ft. area as prev	around the	pump, lease of 2/8/12 and lls.	road a 1 5/23/1	nd caliche 2. An air	
regulations at public health should their co or the environ	Il operators or the envi operations h nment. In a	are required to a ronment. The nave failed to a	o report as acceptant adequately OCD accep	e is true and completed and/or file certain re- ce of a C-141 report investigate and re- part of a C-141 re-	lease n t by th mediat	notifications a le NMOCD m te contaminat	nd perform correct parked as "Final R ion that pose a thr	ctive act eport" of eat to g	ions for rel loes not rel round wate	eases which ieve the oper r, surface wa	may en ator of ter, hur	danger liability nan health	
							OIL CON	SERV	'ATION	DIVISIO	N		
Signature:	10	ny Dai	u			Approved by	District Supervis	or:	رما	1.1 .			
Printed Name	: Tony Sav	oie						Signe	d By	11/4 DA	APPEN	BL	
Title: Wastc	Mgmt.& Re	emediation Sp	ecialist		_	Approval	te: 1 1 2012		Expiration	Date:			
E-mail Addre	ess: TASavo	oie@BassPet.	com		Conditions of Approval:								
Date: 6/24/12				Phone:432-556-873	30								
Attach Addi	Remediation per OCD Rules & 2RP-1209 Guidelines. SUBMIT REMEDIATION PROPOSAL NOT LATER THAN: 8 / // 12 // JUN 2:6 2012												

District 1 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

Energy Minerals and Natural Resources RECEIVED

NMOCD ARTESIA

Form C-141 Revised October 10, 2003

OCT 03 2013 Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back side of form

Santa Fe, NM 87505 **Release Notification and Corrective Action**

Oil Conservation Division

1220 South St. Francis Dr.

					OPE	RATOR		Initial	Report	X Final Report
Name of Co	mpany	BOPCO, LI)			Contact To	ony Savoie			
Address 5	22 W. Me	rmod, Suite	704, Carl	lsbad, NM 8822	20	Telephone l	No. (432)556-8	730		
Facility Nar	ne Indian	Flats Bass F	ederal #1	SWD		Facility Typ				
				110						Wan 01 5 0 10 CO
Surface Ow	ner Feder	ral		Mineral C)wner	Federal		Lease	No. API	#30-015-24968
	1					ON OF RE				
Unit Letter J	Section 35	Township 21S	Range 28E	Feet from the	Nort	h/South Line	Feet from the	East/West Line	County Eddy	
			Latit	ude 32.433905°	Nort	h	Longitude 10	4.055425° Wes	<u>t</u>	
				NAT	URI	E OF REL	EASE			
Type of Rele	ase Produc	ed water				Volume of produced	Release 80 bbls water	of Volume	Recovered	20 bbls
Source of Re	lease An s	alt water trans	sfer pump				Hour of Occurrence of the unknown		d Hour of D 9:00 a.m.	riscovery
Was Immedi	ate Notice (es No	Not Required		If YES, To				
By Whom?	Tony Savo	ie		<u> </u>		Date and I	Hour 5/25/12 11:4	10 n m		
Was a Water							olume Impacting t			
			Yes 2	X No		,				
If a Watercou	urse was Im	pacted, Descr	ibe Fully.	*						
		em and Reme The gauge was			ge brol	ke on the pump	. Water was spray	yed outside the co	ontainment :	area on the caliche pad
caliche well 5/23/12. Fol	pad. A vacu lowing initi	uum truck wa ial response a	s utilized activities,	to remove all of t	the fre e reme	e-standing liqu ediated as per	id. The spill cove	ered the same are	a as spills r	pump, lease road, and eported on 2/8/12 and reference the attached
regulations a public health should their or the enviro	Il operators or the envoperations I onment. In	are required ironment. The rave failed to	to report e accepta adequated 10CD acc	and/or file certain nce of a C-141 re y investigate and	implete to the best of my knowledge and understand that pursuant to NMOCD rules in release notifications and perform corrective actions for releases, which may end a eport by the NMOCD marked as "Final Report" does not relieve the operator of liab remediate contamination that pose a threat to ground water, surface water, human he 41 report does not relieve the operator of responsibility for compliance with any o					
					OIL CONSERVATION DIVISION					
Signature:	LONY	Saunie	2_							
Printed Name	e: (p)	Saunia a Sa	mie		Approved by District Supervisor:			or:		
Title:	(J				Approval Da	te:	Expiratio	n Date:	
E-mail Addre	ess:					Conditions o	f Approval:			
Date: (0	13113	Pł	ione:							

2RP-1209

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

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

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

Revised October 10, 2003

Form C-141

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

NMOCD ARTESIA

Taki	٠, ٠, ١	~ · 1 @ O · 1 (ase Notific						1 D - m out		inal Danaut	
Name of Co		348847	<u></u>	942		OPERA? Contact Tor				al Report	<u> </u>	inal Report	
			4 Carleb	ad, N.M. 88220			No. 432-556-873	30	.,				
				Tank Battery		Pacility Typ		-					
Surface Ow	ner Federa	ıl		Mineral C	wner F	ederal			Lease N	1 0. LC-0671	44 A	PZ#	
Endian F	luts Ba	ss Fed #		LOCA	TION	OF RE	LEASE	30)-0/	5-29	196	P	
Unit Letter J	Section 35	Township 21S	Range 28E	Feet from the		South Line	Feet from the	East/W	Vest Line	County Eddy			
		·	L	atitude_N 32.4.	33905_	Longitu	de W 104.05542	25_		1			
				NAT	URE	OF REL	EASE						
Type of Relea							Release: 15 bbls			Recovered: 5			
Source of Re	lease: 3" til	l line to the tar	nks.				lour of Occurrenc	e		Hour of Disco	overy		
Was Immedia	6/21/12 time 1:00 p.m. 6/21/12 1:00 p.m.												
			Yes _	No 🛛 Not Re	equired								
By Whom?	By Whom? Date and Hour												
Was a Water	Was a Watercourse Reached? ☐ Yes ☐ No ☐ If YES, Volume Impacting the Watercourse.												
If a Watercou	a Watercourse was Impacted, Describe Fully.*												
			~	-									
				n Taken.* Crews was on-site remov							ng from	the flow	
free standing	fluid was p	icked up with	a vacuum					ft. insid	e the tank l	oattery earther	n contai	nment. The	
I hereby certi	fy that the	information gi	ven above	w the NMOCD gu is true and comp	lete to th	for leaks and	l spills.	nderstar	nd that nur	suant to NMC	OD rule	es and	
regulations a	ll operators	are required to	report a	nd/or file certain r	elease no	otifications a	nd perform correct	tive acti	ions for rel	eases which n	nay enda	anger	
public health	or the envi	ronment. The	acceptan	ce of a C-141 repo	ort by the	NMOCD m	arked as "Final R	eport" d	loes not rel	ieve the opera	ator of li	ability	
or the enviro	nment. In a	ıddition, NMO	CD accep	r investigate and rotance of a C-141	report do	e contaminat ses not reliev	on that pose a three the operator of	eat to gr responsi	ound wate ibility for c	r, surface wat ompliance wi	er, huma th any o	ther	
rederal, state,	or local la	ws and/or regu	iations.				OIL CON	SERV	'ATION	DIVISIO	N		
Signature:	1 00	y Sain	9 2			Annroved by	District Supervis			4,			
Printed Name	e: Tony Sa	Joie							ed By M	1/4 B	MARSALS	<u> </u>	
Title: Waste	Mgmt.& Ro	emediation Sp	ecialist			Approval Da	<u>ы 11 2012</u>	2	Expiration	Date:			
E-mail Addre	ess: TASav	oie@BassPet.o	com			Conditions o	f Approval:			Attached			
Date: 6/24/12		ets If Necess		Phone:432-556-8	730					1000			
Attach Addi	tional She	ets if necess	ary	F	Remedia	ation per (OCD Rules &			arp_	120	1	
							EMEDIATION		RE	CEIVE	ED		
				PROI	POSAL I	NOT LATE	R THAN:						
				<u>~</u>	' ' '				Į JŲ	IN 2:6 201	I L	i	

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

State of New Mexico Energy Minerals and Natural Resources RECEIVED

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

Form C-141 Revised October 10, 2003

OCT 0 3 2013Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back NMOCD ARTESIA side of form

Release Notification and Corrective Action

					OPERATOR Initial Re					X Final Report			
Name of Co		BOPCO, LI				Contact To	_ 						
				sbad, NM 8822			No. (432)556-87	730					
Facility Nar	ne Indian	Flats Bass F	ederal #1	Tank Battery		Facility Typ	e E&P						
Surface Ow	ner Fede	ral		Mineral C	wner	Federal		Lease	No. API	#30-015-24968			
				LOCA	TIO	N OF REI	LEASE						
Unit Letter J	Section 35	Township 21S	Range 28E	Feet from the		/South Line	Feet from the	East/West Line	County Eddy				
			<u>Latit</u>	ude 32.433905°	North	<u>.</u>	Longitude 104	4.055425° Wes	<u>t</u>				
				NAT	URE	OF REL	EASE						
Type of Rele	ase Crude	Oil		•			Release 15 bbls	Volume	Recovered	5 bbls			
		alt water trans	fer pump			6/21/12 1:0			d Hour of I 1:00 p.m.	Discovery			
Was Immedia	ate Notice (No X	Not Required		If YES, To Whom?							
By Whom? Tony Savoie Date and Hour													
Was a Water	course Read] Yes 2	K No		If YES, Vo	olume Impacting t	he Watercourse.					
If a Watercou	irse was Im	pacted, Descr	be Fully.	*									
							w heater treater at rators and was use			coming from the flow			
containment.	Following	initial respon	se activit	Taken.* The relies, the release were Request for rem	as rem	ediated as per	an approximatel r NMOCD recom	y 1,500 sq. ft. mended guideli	inside the nes. Please	e tank battery earthen reference the attached			
I hereby cert regulations a public health should their of or the environ	ify that the ll operators or the envolutions In ment. In	information g are required ironment. The	given aborto reporto acceptare accep	ve is true and cor and/or file certain nce of a C-141 re y investigate and	nplete to releast port by remediate	to the best of se notification the NMOCE ate contamina	s and perform co marked as "Fina tion that pose a th	rrective actions of Report does rear to ground v	for releases ot relieve t vater, surfac	to NMOCD rules and , which may endanger he operator of liability ce water, human health pliance with any other			
		Q ,	o				OIL CONS	SERVATIO	V DIVIS	<u>ION</u>			
Signature:	1 Ois	->nui	ie	· · · · · · · · · · · · · · · · · · ·	Approved by District Supervisor:								
Printed Name):	(pay 5	HUDIE	***									
Title:					Approval Date: Expiration Date:								
E-mail Addre	ess:				Conditions of Approval:								
Date: (O)	3/13	Ph	one:										

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

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

-11			Kele	ease Notifica				ction					
NAMIC	23532	2 <i>8</i> 868			(OPERA	TOR		🛛 Initia	al Report	Fir	al Report	
Name of Co				260737		Contact Tor							
				ad, N.M. 88220			No. 432-556 - 873	30					
Facility Nan	ne: Indian	Flats Bass F	ederal #	SWD	F	acility Typ	e: E&P						
Surface Own	non Fadoro	.1		Mineral O	or E	ndama1			I anna N	No. LC-067	1.4.4		
Surface Owl	ilei redeia			Milleral O	wher re	derai	· · · · · · · · · · · · · · · · · · ·		1 Lease I	NO. LC-007	15 06	19/20	
				LOCA	TION	OF RE	LEASE		MAT	#30-0	19-2	100	
Unit Letter	Section 35	Township 21S	Range 28E	Feet from the		South Line	Feet from the	East/V	Vest Line	County Eddy			
			L	atitude_N 32.43		_ Longitu	de W 104.05542	25_					
				NAT	URE	OF REL							
Type of Relea							Release: 80 bbls			Recovered: 7			
Source of Rel	lease: A sal	t water transfe	er pump.				lour of Occurrenc time unknown	e		Hour of Disc 1:00 p.m.	covery		
Was Immedia	ate Notice C					If YES, To							
	✓ Yes ☐ No ☐ Not Required NMOCD emergency #104												
	By Whom? Tony Savoie Date and Hour 11/27/12 2:30 p.m.												
Was a Water	Was a Watercourse Reached? ☐ Yes ☑ No ☐ If YES, Volume Impacting the Watercourse RECEIVED												
		Ц	Yes 🔀] No					F	TEUE	IVEL		
If a Watercou	rse was lm	pacted, Descr	ibe Fully.	*						DEC 15	7 2040		
										DEC 17	2012	1	
									414	AOOD A	D====		
1									IAI	MOCD A	HIESI	A	
Describe Cau	se of Probl	em and Reme	dial Actio	n Taken.* A backp	ressure	valve broke	on the pump, wat	er was s	prayed out	side the cont	ainment ar	ea on the	
		he facility. Th							F ,				
Describe Are	a Affected	and Cleanup A	Action Tal	ken.*The released	fluid aff	ected approx	cimately 4,500 sq.	ft. area	around the	pump, lease	road and	caliche	
determine the	ree standi vertical ex	ing ilula was p tent of the firs	nckea up st release	with a vacuum true A rig was on locat	ck. The l	release is in 2/12 and ad	the same location	as previ	ious spilis . ious locatio	. An air rolar	y rig was i e tank hati	iseu io	
location, sam	ples were c	ollected to det	termine ve	ertical extent. A rer	mediatio	n plan will I	vanced 5 son bore be developed and	submitte	ed to the N	ms around in MOCD	ic tallk bati	icry	
The Site reme	ediation for	the produced	water wil	I follow the NMO	CD guid	elines for le	aks and spills.						
I hereby certi	fy that the i	information gi	ven above	is true and compl	ete to th	e best of my	knowledge and u	ınderstar	nd that pur	suant to NMO	OCD rules	and	
regulations al	l operators	are required to	o report a	nd/or file certain re	lease no	tifications a	nd perform correc	ctive acti	ions for rel	eases which	may endar	iger	
should their o	or the envi-	ronment. The	acceptan dequately	ce of a C-141 report investigate and re	rt by the	NMOCD m	iarked as "Final R	eport" d	loes not rel	ieve the oper	ator of liab	boolth	
or the environ	nment. In a	ddition. NMC	CD accer	otance of a C-141 r	enort de	es not reliev	e the operator of	responsi	ibility for c	on, surface wa compliance w	ith any oth	ner l	
		ws and/or regu					o me operator or	Copone		omphanes			
							OIL CON	SERV	ATION	DIVISIO	N		
6:		2	0				<u> </u>						
Signature:	1 on	_ xw	we			Approved by	District Supervis	or:		الألمد	il		
Printed Name	e: Tony Say	oie oie						Si	igned By_	W1/4	R) KANTU	(De_	
						ŊF	C 1 Ω 2012						
Title: Waste	Mgmt.& Re	emediation Sp	ecialist		/	Approval Da	C 1 8 2012		Expiration	Date:			
	7F. 4 C	· OB - ~											
E-mail Addre	ess: TASave	oie@BassPet.	com		(Conditions o	f Approval:			Attached			
Date: 12/17/1	12			Phone: 427 556 0	720						_		
Attach Addi		ets If Nacass	arv	Phone:432-556-8	1/30	Remed	diation per OC	D Rule:	s &	100) 1	7	
Augus Audi	monar She	ora 11 1466633	ui y		(. SUBMIT REM			ZKP	- 145	1	
						120000							

District 1 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources RECEIVED

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

Form C-141 Revised October 10, 2003

OCT 0 3 2013 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back NMOCD ARTESIA side of form

Release Notification and Corrective Action

				1	OPERATOR Contract Torry Source				Initial F	Report	X Final Report	
Name of Co		BOPCO, LI				Contact To	ony Savoie					
				sbad, NM 8822	:0		No. (432)556-87	730				
Facility Nan	ne Indian	Flats Bass F	ederal #1	SWD		Facility Typ	e E&P					
Surface Ow	ner Feder	ral	-	Mineral O	wner	Federal			Lease N	lo. API	#30-015-24968	
				LOCA	TIO	N OF RE	LEASE				,	
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/W	est Line	County		
J	35	21S ·	28E							Eddy		
:												
		! .	Latit	ude 32.433905°	North		Longitude 104	4 05542	5° West	I <u></u>		
			Datit			OF REL	-	1.03372	.5 West			
Type of Relea	ase Produc	ed water		INAI	UKE		Release 80 bbls	of	Volume F	Recovered	70 bbls	
Type of Release	ase Froduc	ed water				produced v			v Oldine i	ccovered	70 0015	
Source of Re	lease A sa	lt water transf	er pump			Date and I	e		Hour of D	iscovery		
Was Immedia	to Notice (Tivon?				11/27/12 ti	me unknown		11/27/12	1:00 p.m.		
was milicula	ile Notice (es No	Not Required			Emergency #104					
By Whom?	Tony Savo	ie				Date and Hour 11/27/12 2:30 p.m.						
Was a Water		ched?	_			If YES, Volume Impacting the Watercourse.						
			Yes X	(No								
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.*	•		•						
Describe Cau	se of Prob	lem and Reme	dial Actio	n Taken:* A bacl	k press	ure valve brok	te on the pump. V	Vater wa	s sprayed	outside the	e containment area on	
				e was replaced.	•				1 7			
Describe Are	a Affactad	and Classia	Astion T	olion * The maless	- J G:	1 - 66 1		500	<u> </u>		oump, lease road, and	
											Is reported on 2/8/12,	
5/23/12, and	5/25/12. F	ollowing initia	al respons	e activities, the re	eleases	were remedia	ited as per NMO	CD recoi	mmended	guidelines	. Please reference the	
				te Closure Reque					1 .1 .		NIMOGD I	
regulations a	ll operators	are required	given abov	e is true and con and/or file certair	npiete i releas	to the best of se notification	my knowledge al	na unaer rrective	stand that actions fo	pursuant i r releases.	to NMOCD rules and which may endanger	
public health	or the env	ironment. Th	e acceptar	nce of a C-141 re	port by	the NMOCE	marked as "Fina	al Report	does not	t relieve th	e operator of liability	
											water, human health	
		addition, NIV ws and/or regi			41 repo	ort does not r	elieve the operato	or of resp	ponsibility	tor comp	liance with any other	
ivaviai, otato,	or rotar ia	wo and or rege	ilations.				OIL CON	SERV	ATION	DIVISI	ON	
G: ,			9	0			012 001				<u> </u>	
Signature:	ć (ory ,	Za	nio-								
Printed Name	Tor	_	ie	,		Approved by District Supervisor:		or:				
Title:		•			Approval Date: Expiration Date:		Date:					
E-mail Addre	ess:				Conditions of Approval:							
Date: 10	13/13	. Ph	one:									

2RP-1457

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

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

Release Notification and Corrective Action										
NJMW1314055065	OPERATOR Initial Report Final Rep									
Name of Company: BOPCO, L.P. 260731	Contact: Tony Savoie									
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329									
Facility Name: Indian Flats Bass Federal SWD Tank Battery	Facility Type: Exploration and Production									
Battery is located 1340 ft, North of Well #6 API 30-015-22673										
Surface Owner: Federal Mineral Owner:	Federal API No. 30-015-22673									
LOCATION OF RELEASE										
	n/South Line Feet from the East/West Line County Eddy									
J 35 21S 28E 1652 Sout										
Latitude N. 32,434001 Longitude W. 104.055557										
NATURE OF RELEASE										
Type of Release: Produced Water	Volume of Release: 375 Bbls. Volume Recovered: 10 Bbls.									
Source of Release: Produced water tank overflowed	Date and Hour of Occurrence: Date and Hour of Discovery:									
W. A. B. A. S. O. O.	Date 4/25/13 time unknown Date 4/25/13 5:00 p.m.									
Was Immediate Notice Given?	If YES, To Whom? NMOCD Emergency #104									
	Date and Hour: 4/26/13 at 8:00 a.m.									
By Whom? Tony Savoie Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.									
☐ Yes ⊠ No										
If a Watercourse was Impacted, Describe Fully.*	RECEIVED									
in a watercourse was impacted, bescribe runy.	MAY 17 2013									
	MICT I 2013									
	NMOCD ARTESIA									
Describe Cause of Problem and Remedial Action Taken.*										
The Strainer on the suction to the SWD plugged up causing the pump to discharge at a rate that was not sufficient to keep up with the incoming water. The										
alarm system failed to report high tank levels and high discharge pressure. The strainer was removed and cleaned.										
Describe Area Affected and Cleanup Action Taken.*										
	vith the SWD pump failure. New impervious containment has been constructed									
	VD tanks was scheduled for a soil boring event due to chloride levels that could not aduled to do the delineation. The area impacted was on top of several prior spills									
that stayed primarily around the SWD tanks and the caliche tank battery										
The remediation will continue as planned. The containment will be cons	tructed around the SWD tanks upon achieving closure status for leaks and spills.									
	the best of my knowledge and understand that pursuant to NMOCD rules and									
	notifications and perform corrective actions for releases which may endanger the NMOCD marked as "Final Report" does not relieve the operator of liability									
	ate contamination that pose a threat to ground water, surface water, human health									
or the environment. In addition, NMOCD acceptance of a C-141 report	does not relieve the operator of responsibility for compliance with any other									
federal, state, or local laws and/or regulations.										
	OIL CONSERVATION DIVISION									
Signature: 1 By Danie	<i>i</i> ,									
	Approved by Environmental Specialist:									
Printed Name: Tony Savoie	Signed by									
Title: Wests Management and Domediation Considiat	MAY 2 0 2013									
Title: Waste Management and Remediation Specialist	Approval Date: Expiration Date:									
E-mail Address: tasavoie@basspet.com	Conditions of Approval:									
	Remediation per OCD Rule & Attached									
Date: 5/16/13 Phone: 432-556-8730	Guidelines. SUBMIT REMEDIATION									
* Attach Additional Sheets If Necessary	TPROPOSAL NO LATER THAN: 2RP-1656									

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

Energy Minerals and Natural Resources State of New Mexico

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

OCT 03 2013

Form C-141 Revised October 10, 2003

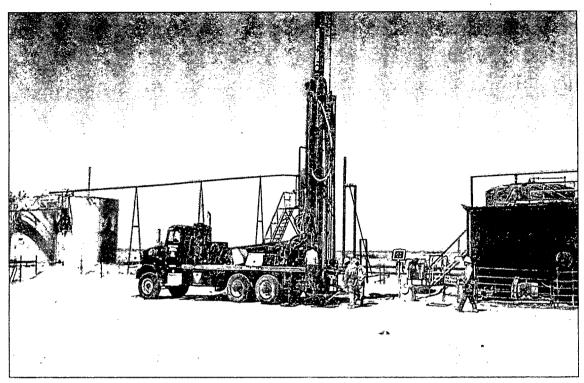
Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

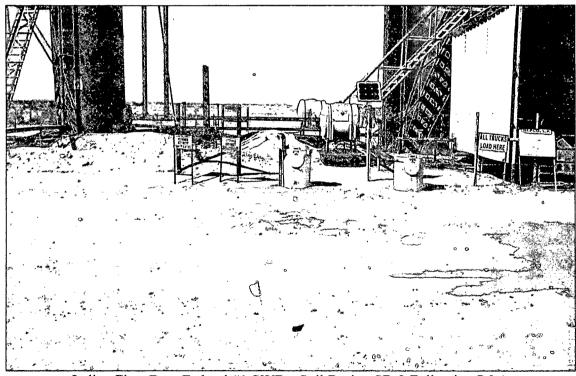
OPERATOR									Initial R	Report	X Final Report		
Name of Company BOPCO, LP						Contact To							
Address 522 W. Mermod, Suite 704, Carlsbad, NM 88220				0	Telephone No. (432)556-8730								
•				Tank Battery		Facility Type E&P							
Battery is located 1340 ft. north of Well #6 API 30-015-22673													
Surface Owner Federal Mineral Owner						Federal Leas				e No. API #30-015-22673			
LOCATION OF RELEASE													
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the		East/West Line				
J	35	21S	28E	1652	S	South	2150	East	East				
!													
Latitude 32.434001° North Longitude 104.055557° West													
NATURE OF RELEASE													
Type of Release Produced water											Volume Recovered 10 bbls		
Source of Release Produced water tank overflowed					Date and Hour of Occurrence 4/25/13 time unknown			Date and Hour of Discovery 4/25/13 5:00 p.m.					
Was Immedia	ate Notice (If YES, To							
		X Y	es No 1	Not Required		NMOCD Emergency #104							
By Whom?						Date and Hour 4/26/13 at 8:00 a.m.							
Was a Water	course Read] Yes >	/ No		If YES, Volume Impacting the Watercourse.							
If a Watercourse was Impacted, Describe Fully.*													
Describe Cau	se of Probl	em and Reme	dial Actio	n Taken:* The st	ainer o	on the suction	to the SWD plugg	ged up, car	using the	pump to	discharge at a rate that		
Describe Cause of Problem and Remedial Action Taken:* The strainer on the suction to the SWD plugged up, causing the pump to discharge at a rate that was not sufficient to keep up with the incoming water. The alarm system failed to report high tank levels and high discharge pressure. The strainer was													
removed and cleaned.													
Describe Are	a Affected	and Cleanun	Action Ta	ken.* The area w	as bein	g remediated	as a result of prev	vious spills	s associa	ted with th	ne SWD pump failure.		
The area imp	acted was	on top of seve	eral prior	spills that stayed	primari	ily around the	SWD tanks and	the caliche	e tank ba	ttery pad	area. Following initial		
					recom	mended guide	lines. Please refe	rence the	attached	Remediat	ion Summary & Risk-		
		est for remed			nnloto	to the best of	mu linovilodas si	nd undam	tand that	nurcuont	to NMOCD rules and		
											, which may endanger		
											he operator of liability		
should their	operations l	nave failed to	adequatel	y investigate and	remedi	ate contamina	tion that pose a th	hreat to gr	ound wa	ter, surfac	e water, human health		
				eptance of a C-1	41 rep	ort does not re	elieve the operato	or of respo	onsibility	for comp	oliance with any other		
federal, state,	or local la	ws and/or regi	ulations.		-		OH CON	CEDVA	TION	DIME	ION		
			OIL CONSERVATION DIVISION										
Signature:	10	4 20	<u>unio</u>										
Printed Name: 10Ny Souvoie						Approved by District Supervisor:							
Title:		(Approval Da	te:	Fx	piration	Date:			
. 1010.		**************************************				тургочи вис.							
E-mail Address:					Conditions of Approval:								
Date: 10/3/13 Phone:													

2RP-1656

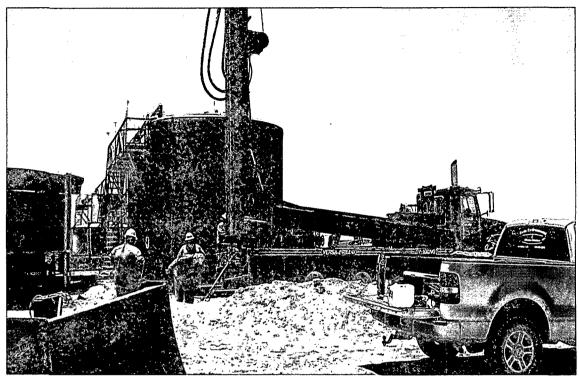
Appendix B
Photographs



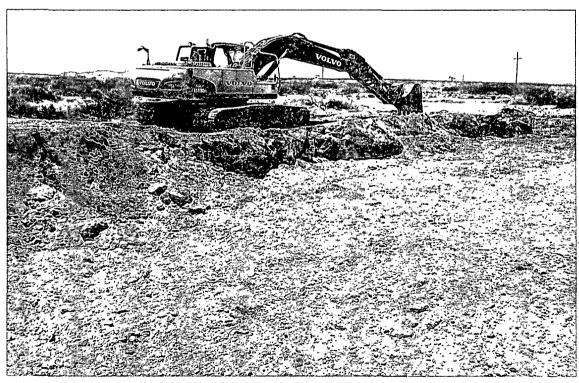
Indian Flats Bass Federal #1 SWD - Advancement of Soil Boring SB-2



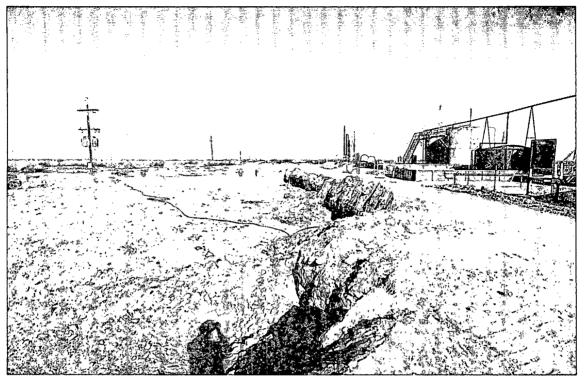
Indian Flats Bass Federal #1 SWD - Soil Boring SB-2 Following P&A (Portion of Stain Visible in Right Foreground)



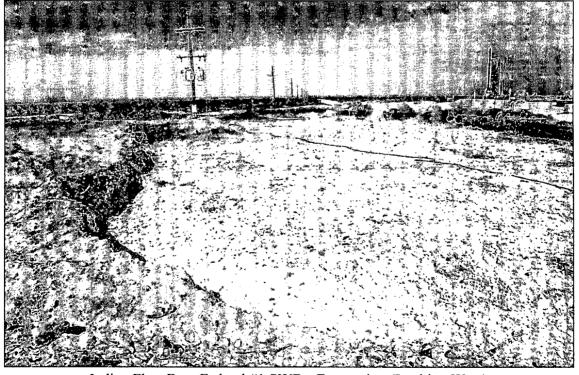
Indian Flats Bass Federal #1 SWD - Advancement of Soil Boring SB-9



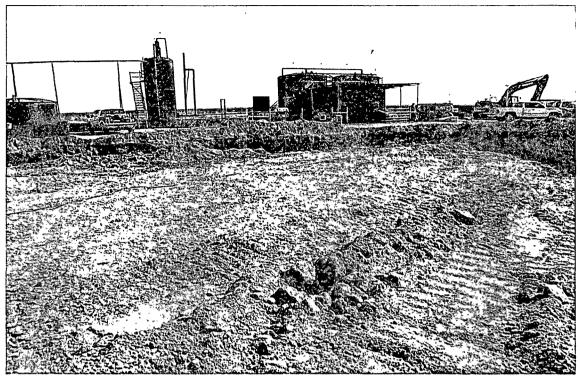
Indian Flats Bass Federal #1 SWD - Excavation



Indian Flats Bass Federal #1 SWD - Excavation (Looking West)



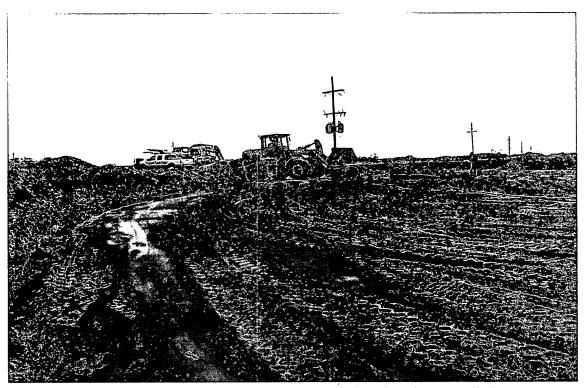
Indian Flats Bass Federal #1 SWD - Excavation (Looking West)



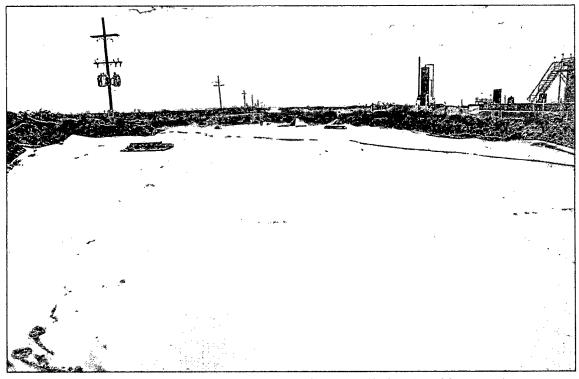
Indian Flats Bass Federal #1 SWD - Excavation (Looking East-Northeast)



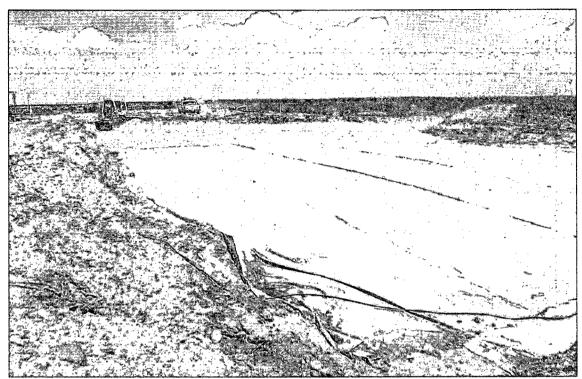
Indian Flats Bass Federal #1 SWD - Excavation (Looking East)



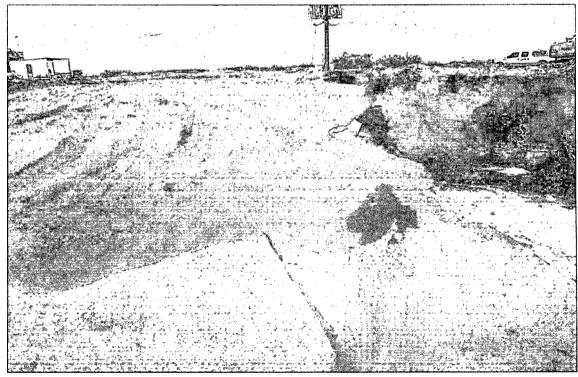
Indian Flats Bass Federal #1 SWD - Preparations for Liner Installation



Indian Flats Bass Federal #1 SWD - Liner Installation (Looking West)



Indian Flats Bass Federal #1 SWD - Installation of Pad Sand



Indian Flats Bass Federal #1 SWD - Installation of Pad Sand

						4		
Depth Below		Chloride						
Ground	Soil	Field	PID	Petroleum P	etroleum			
Surface	Column	Test	Reading	Odor	Stain	Soil Description		Boring SB-1
E°				None	None	0' - 3' - Brown loamy sand with clay		Drilled March 6, 2012
_5			(1.1)	None	None	3' - 5' - Tan calcified sandstone - fine sand		ness of Bentonite Seal 30 Ft of Exploratory Boring 30 Ft bgs
Ē						5' - 8' - Tan fine sand - sandstone - caliche	Depth	to Groundwater
F 10			6.5	None	None		Groun	d Water Elevation
E						8' - 17' - Tan fine sand - sandstone (dense)		
15			1.1	None	None		ፗ	Indicates the PSH level measured
Ę							▼.	Indicates the groundwater level measured on
20		1,052		None	None		0	Indicates samples selected for Laboratory Analysis.
25		644)	None	None	17' - 30' - Red fine sand	PID	Head-space reading in ppm obtained with a photo-ionization detector.
Ė,		300)	None	None			

Completion Notes

- The soil boring was advanced on date using air rotary drilling techniques.

 The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

Soil Boring SB-1

March 16, 2012

Depth Below		Chloride						
Ground	Soil	Field	PID	Petroleum		Sail Description		
Surface	Column	Test	Reading	<u>Odor</u>	<u>Stain</u>	Soil Description		Boring SB-2
F°	5-EL	3,614		None	Moderate	0' - 1' - Tan fine sand - caliche	Date (Drilled March 6, 2012
F			(10)	None	Moderate	1' - 5' - Brown fine sand with clay		ness of Bentonite Seal 35 Ft
E ⁵			(1.0)	None	Moderate			of Exploratory Boring 35 Ft bgs to Groundwater
E 10			(1.0)	None	None	5' - 16' - Tan fine sand - calcified sandstone	Groun	nd Water Elevation
Ė						- caliche		
15			1.8	None	None		▼	Indicates the PSH level measured
F						16' - 20' - Tan very fine sand - sandstone	.Y .	Indicates the groundwater level
20		£2,428	1	None	None	20' - 22' - Red fine sand - gravel	\circ	Indicates samples selected for Laboratory Analysis.
Ē						Ü	PID	Head-space reading in ppm obtained with a photo-ionization detector.
25				None	None			The proto officers of the protocol
Ę		000		None	None	22' - 35' - Red fine sand		
F 30		(820)	1	MOUR	NOTIE			
E 35		372)					

Completion Notes

- The soil boring was advanced on date using air rotary drilling techniques.
 The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

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

Checked By: BRB Prep By: BJA March 16, 2012

Soil Boring SB-3 (Background)

Depth								
Below		Chloride						
Ground	Soil	Field	PID	Petroleum P	etroleum	0.110		
Surface	Column	Test	Reading	<u>Odor</u>	<u>Stain</u>	Soil Description		Boring SB-3
F°		<116)	None	None	0' - 1' - Tan fine sand	Date D	rilled December 12, 2012
5		(<112))	None	None			ess of Bentonite Seat 25 Ft of Exploratory Boring 25 Ft bgs
E,	XXX	(112)			110110	1' - 14' - Tan fine sand - caliche - sandstone		to Groundwater
-10		(<112))	None	None	1 - 14 - Tan inte sand - Canche - Sandstone		d Water Elevation
F								
-15		<112)	None	None			Indicates the PSH level measured
Ē	883						<u>¥</u>	Indicates the groundwater level
- 20		<112)	None	None	14' - 25' - Red fine sand - caliche		measured on Indicates samples selected for
E							PID	Laboratory Analysis. Head-space reading in ppm obtained
25	228	<112)	None	None			with a photo-ionization detector.

Completion Notes

- The soil boring was advanced on date using air rotary drilling techniques.
 The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

Soil Boring SB-3 (Background)

BOPCO, LP Indian Flats Bass Federal SWD Eddy County, New Mexico



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

Checked By: BRB Prep By: BJA March 25, 2013

						2
Depth Below	0-11	Chloride	DID	Datastavas	Dataslassas	
Ground	Soil	Field	PID	Petroleum		Cail Description
Surface	Column	Test	Reading	<u>Odor</u>	Stain	Soil Description
□ 0	5 :5:र	(1,684)	2.5	Heavy	Heavy	
Ė	B88	_				0' - 5' - Tan fine sand - caliche
-5		568	2.5	Heavy	Moderate	
Ē.,0		(1,812)	0.7	Moderate	Moderate	5' - 12' - Tan fine sand - sandstone
= -		(1)	9			12' - 14' - Pale tan very fine sand - caliche
- 15			1.0	Slight	None	sandstone 14' - 17' - Tan fine sandstone
20		1,736	5.3	Heavy	Heavy	17' - 23' - Tannish red silty sand
25				None	None	
= 30		2,140	4.7	None	None	23' - 41' - Red silty sand
35				None	None	20 The daily state
40		1,220		None	None	At At Dating and
45		1,480		None	None	41' - 44' - Red fine sand - pea gravel
50		568		None	None	44' - 51' - Red fine sand
55		776		None	None	51' - 56' - Red fine sand - sandstone

Boring SB-4

Date Drilled December 12, 2012

Thickness of Bentonite Seat 56 Ft Depth of Exploratory Boring ____56 Ft bgs Ground Water Elevation ▼ Indicates the PSH level measured Indicates the groundwater level measured on _______
Indicates the groundwater level measured on ________
Indicates samples selected for Laboratory Analysis.
PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

- The soil boring was advanced on date using air rotary drilling techniques.
 The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

Educate Solutions

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

Prep By: BJA Checked By: BRB March 25, 2013

Depth						.		
Below		Chloride						
Ground	Soil	Field	PID	Petroleum	Petroleum	O all D a contratton		
Surface	Column	Test	Reading	Odor	<u>Stain</u>	Soil Description		Boring SB-5
_∘	15528601		(128)	Heavy	Moderate			D
Ŀ	ØĠ.					0' - 3' - Red fine sand - sandstone	Date Di	rilled December 12, 2012 ess of Bentonite Seal 50 Ft
-5		620	(16.4)	Slight	None	3' - 7' - Tan fine sand - sandstone		of Exploratory Boring 50 Ft bg:
E						7' - 8' - Dense caliche sandstone - tan sand		o Groundwater
E 10		(1,080)	9.9	None	None	8' - 11' - Tan fine sand - sandstone	Ground	Water Elevation
þ	***							
E ₁₅		(1,684)	(13.7)	None	None	11' - 16' - Beige silty sand - sandstone	•	Indicates the PSH level measured
E.,		1,004	(0.7)	110110		16' - 19' - Tan silty sand - sandstone		onIndicates the groundwater level
ļ.		0.050		None	None	16 - 19 - Tall Sitty Sand - Sandstone		measured on
F 20		(2,256)		None	None			Indicates samples selected for Laboratory Analysis.
Ę							PID	Head-space reading in ppm obtain with a photo-ionization detector.
-25				None	None			Will a prioto formation detector.
F		_				•		
E-30		(860)	(32.0)	None	None			
ļ.	1					101 101 5 1 11		
35			6.8	None	None	19' - 49' - Red silty sand - sandstone		
E								
L ₄₀		672	4.5	None	None			
þ								
45		792	1	None	None			
E		(132)		110110	110110			
-		ECO		None	None	49' - 50' - Cobble		
L-50	124.24.4	(568)	•	NOTIC	NONE			

Boring SB-5

of Exploratory Boring 50 Ft bgs nd Water Elevation Indicates the PSH level measured

Completion Notes

- The soil boring was advanced on date using air rotary drilling techniques.
 The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

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

Prep By: BJA March 25, 2013

Parin Environments
Ellectre Sauton

Depth								
Below		Chloride						
Ground	Soil	Field	PID	Petroleum	Petroleum	0.115		
Surface	Column	Test	Reading	<u>Odor</u>	<u>Stain</u>	Soil Description		Boring SB-6
Г-0	PECTAL B	2,928	6.3	None	Moderate	· · · · · · · · · · · · · · · · · · ·		
F	37 33						Date D	
E,		(192)	4.6	None	Slight		D	ness of Bentonite Seal 40 Ft of Exploratory Boring 40 Ft bgs
E"		(132)	4.0		og	0' - 12' - Tan fine sand - caliche - sandstone		of Exploratory Boring 40 Ft bgs to Groundwater
þ		(140)		None	None			d Water Elevation
F10		(1,164)	(4.9)	none	None			
E						12' - 14' - Tan fine sand - sandstone		
15	18341	(1,948)	(128)	Slight	None		▼.	Indicates the PSH level measured on
ļ.						14' - 23' - Red fine sand - sandstone	▼	Indicates the groundwater level
20		620	7.0	None	None	14 - 25 - Ned line Sand - Sandstone	0	measured on Indicates samples selected for
F							PID	Laboratory Analysis. Head-space reading in ppm obtained
E_25		(352)	(8.9)	None	None		110	with a photo-ionization detector.
E*		002	0.5	***************************************				
ļ.		400		N	A1			
30		192		None	None	23' - 40' - Red silty sand		
F		_				,		
E 35		(192)		None	None			
E		-						
Ł40	28.5	(192)		None	None			

Completion Notes

- The soil boring was advanced on date using air rotary drilling techniques.

 The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

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

Prep By: BJA March 25, 2013

Effective Solutions

						<u></u>		
Depth								
Below		Chloride						
Ground	Soil	Field	PID	Petroleum	Petroleum	Out Described		
Surface	Column	Test	Reading	<u>Odor</u>	<u>Stain</u>	Soil Description		Boring SB-7
F-0	RCHO!	12,002	2.0	Slight	Moderate			
1	60 E					0' - 4' - Tan fine sand - caliche - sandstone	Date D	
F.		(316)	1.6	None	None			ess of Bentonite Seat 65 Ft of Exploratory Boring 65 Ft bgs
E"		0,0		110110	110110	4' - 8' - Tan fine sand - calcified sandstone		of Exploratory Boring 65 Ft bgs to Groundwater
E	4							d Water Elevation
10	111	928	(1.7)	None	None			
ļ.						8' - 17' - Tan fine sand - sandstone		
15			1.2	None	None		▼.	Indicates the PSH level measured
F	31.74						T	on Indicates the groundwater level
E 20		252	0.0	None	None			measured on Indicates samples selected for
E**		(202)	0.0	110110	110110	17' - 24' - Red silty sand - sandstone	0	Laboratory Analysis.
E	自图						PID	Head-space reading in ppm obtained with a photo-ionization detector.
- 25			2.0	None	None			The prior of the p
ļ.								
-30		192	0.0	None	None	24' - 36' - Red silty sand		
E								
E ₃₅		220		None	None			
L "	7.7					36' - 38' - Red fine sand - cobble		
ļ.		050		None	None	00 00 1100 1110 00110 000010		
-40		(352)	,	None	None			
F								
-45		792		None	None			
E								
50		568)	None	None			
Ė.						38' - 65' - Red silty sand		
F		520		None	None			
- 55		320		None	None			
F	16 4							
E-60		(432))	None	None			
E								
L ₆₅	100	388)	None	None			

Completion Notes

- The soil boring was advanced on date using air rotary drifting techniques.

 The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

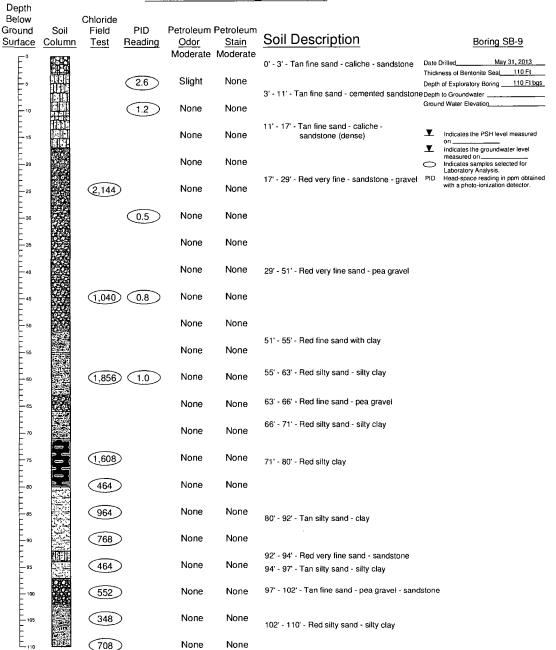
Basin Environmental Service Technologies, LLC 3100 Plains Hwy. Lovington, NM 88260

Prep By: BJA Checked By: BRB March 25, 2013

Depth								
Below		Chloride						
Ground	Soil	Field	PID	Petroleum P	etroleum			
						Soil Description		Doring CD 0
<u>Surface</u>	Column	<u>Test</u>	Reading	<u>Odor</u>	Stain	OOII Description		Boring SB-8
_∘	15-35-21			None	None	0' - 1' - Tan fine sand - caliche - sandstone		
F						o i iai mo sano sanone sanone	Date D	
Ė.			(0.3)	Nama	NI		Thickn	ess of Bentonite Seat 70 Ft
⊢ ⁵			(3.7)	None	None	1' - 9' - Brown fine sand	Depth	of Exploratory Boring 70 Ft bgs
Ł							Depth	to Groundwater
F			(3.4)	None	None		Ground	d Water Elevation
F10	411		3.4	110110	None			
Ė	HELL					9' - 18' - Tan fine sand - cemented sandston	ie.	
L ₁₅				None	None	o To Tan mid dana demonitor danasion	▼	Indicates the PSH level measured
F.							-	on
F	NOTE:					10' 00' Deddieb too fine and	▼.	Indicates the groundwater level measured on
20				None	None	18' - 20' - Reddish tan fine sand	\circ	Indicates samples selected for
Ė								Laboratory Analysis.
E						20' - 26' - Red very fine sand with clay	PID	Head-space reading in ppm obtained with a photo-ionization detector.
- 25	1	(1,204)	(2.2)	None	None			With a photo-ionization detector.
F	11115							
ļ.				NI	NI			
-30				None	None			
E	8,42,62							
F				None	None	26' - 32' - Tan very fine sand - sandstone		
35				None	None	32' - 41' - Red fine sand - pea gravel		
E						32 - 41 - Hed fille salid - pea graver		
_40		600)	None	None			
E "		000				41' - 43' - Tan fine sand - sandstone		
F	21/24							_
45				None	None	43' - 45' - Red very fine sand - cemented sa	naston	e
-								
E						•		
- 50	2/3			None	None			
F								
F		(100		Name	N1			
- 55	335	(420))	None	None			
E						45' - 70' - Tan very fine sand - sandstone		
E_60	A			None	None	•		
F-60				HONO	110110			
F	57.3							
⊢ 65		280)	None	None			
٤°	2000		-					
F		_						
∟,,		(464)		None	None			

Completion Notes

- The soil boring was advanced on date using air rotary drilling techniques.
 The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.



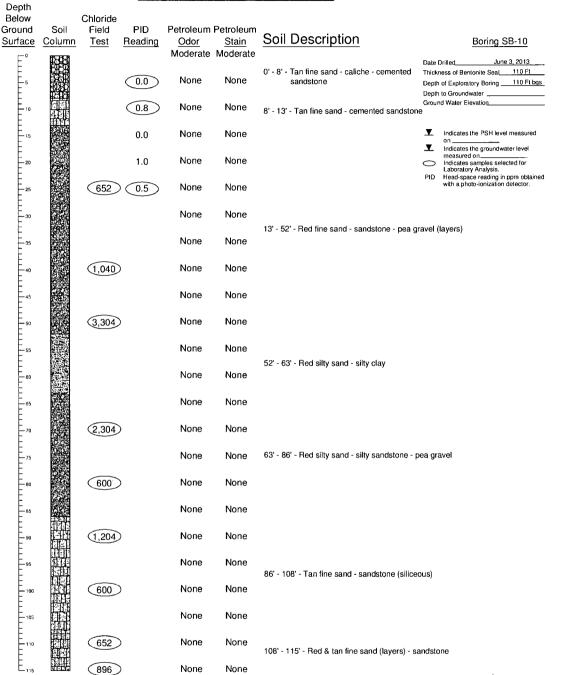
Completion Notes

- The soil boring was advanced on date using air rotary drilling techniques.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

Pasin Environments

State of Southers

Parice Technologies



Completion Notes

- The soil boring was advanced on date using air rotary drilling techniques.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.



Appendix D Permits

Scott A. Verhines, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 514456 File Nbr: CP 01118

Oct. 09, 2012

BEN J. ARGUIJO (BASIN ENVIRONMENTAL) BOPCO 522 W. MERMOD CARLSBAD, NM 88220

Greetings:

Enclosed is your copy of the above numbered permit that has been approved subject to the conditions set forth on the approval page. In accordance with the conditions of approval, the well can only be tested for 10 cumulative days, and the well is to be plugged on or before 10/31/2013, unless a permit to use the water is acquired from this office.

A Well Record & Log (OSE Form wr-20) shall be filed in this office within twenty (20) days after completion of drilling, but no later than 10/31/2013.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us or will be mailed upon request.

Sincerely,

Margaret Wolf (575) 622-6521

Enclosure

explore

NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

- 4 No water shall be appropriated and beneficially used under this permit.
- B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated.
- C Driller's well record must be filed with the State Engineer within 20 days after the well is drilled or driven. Well record forms will be provided by the State Engineer upon request.
- P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between geologic zones.
- LOG The Point of Diversion CP 01118 POD1 must be completed and the Well Log filed on or before 10/31/2013.
- LOG The Point of Diversion CP 01118 POD2 must be completed and the Well Log filed on or before 10/31/2013.
- LOG The Point of Diversion CP 01118 POD3 must be completed and the Well Log filed on or before 10/31/2013.
- LOG The Point of Diversion CP 01118 POD4 must be completed and the Well Log filed on or before 10/31/2013.
- LOG The Point of Diversion CP 01118 POD5 must be completed and the Well Log filed on or before 10/31/2013.

No water shall be diverted from these wells except for testing purposes which shall not exceed ten (10) cumulative days, and wells shall be plugged or capped on or before 10/31/2013, unless a permit to use water from these wells is acquired from the Office of the State Engineer.

Trn Desc: CP 01118 (5 EXPLORATORY WELLS) File Number: CP 01118

Trn Number: 514456

NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

ACTION OF STATE ENGINEER

Notice of Intention Rcvd: Date Rcvd. Corrected: Formal Application Rcvd: 09/19/2012 Pub. of Notice Ordered: Affidavit of Pub. Filed: Date Returned - Correction:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 09 day of Oct A.D., 2012

Scott A. Verhines, P.E. , State Engineer

Trn Desc: CP 01118 (5 EXPLORATORY WELLS) File Number: CP 01118 Trn Number: <u>514456</u>

page: 2

File	No.			 ,	

NEW MEXICO OFFICE OF THE STATE ENGINEER

APPLICATION FOR PERMIT TO DRILL A WELL WITH NO CONSUMPTIVE USE OF WATER



Page 1 of 3

(check applicable box):

	For fees, see State Engineer we	osite: http://www.ose.state.nm.us/	<u>2-32017</u>
Purpose:	☐ Pollution Control And / Or Recovery	☐ Geo-Thermal	
	☐ Construction Site De-Watering	Other (Describe):	
☐ Monitoring	Mineral De-Watering		
A separate permit will	be required to apply water to beneficial use.		
☐ Temporary Reque	st - Requested Start Date: 9/18/2012	Requested End Da	ite: 9/18/2013
Plugging Plan of Ope	rations Submitted? Yes No		
			
1. APPLICANT(S)			
Name: BOPCO, LP		Name:	
Contact or Agent:	check here if Agent ⊠	Contact or Agent:	check here if Agent ⊠
Ben J. Arguijo (Basi	in Environmental)		
Mailing Address: 522	W. Mermod	Mailing Address:	
City: Carlsbad		City:	
State: NM	Zip Code: 88220	State:	Zip Code:
Phone: (432)556-873 Phone (Work):	0 ☐ Home ☒ Cell	Phone:	☐ Home ☐ Cell
	Savoie@BassPet.com	Phone (Work): E-mail (optional):	
bjarguijo@basin	_		
101 1 1	FOR OSE INTERN	AL USE Application	for Permit, Form wr-07, Rev 4/12/12
00 0 V/61	Gas (19) File Number:	P-1/18 Tm Numb	per: 5/4456
alvidan Belikie	Trans Description (optional): 5 Explorat	tory Wells
سِينَةِ وَقَوْدَ بِنِهِ سِينَ الْحَاصَةِ مَسَاءَ الْحَاصَةِ الْحَاصَةِ الْحَاصِينَةُ الْحَاصِينَةُ الْحَاصِينَة	Sub-Basin:	CP	J
	PCW/LOG Due Da	te: 10/31/2013	

WELL(S) Describe the well(s	applicable to this ap	ppiication.	2-320
	nate location must b	e reported in NM :	State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude
_at/Long - WGS84). istrict II (Roswell) and Dis	trict VII (Cimarron)	customers, provide	e a PLSS location in addition to above.
iodiot ii (i toomoni, and and	(50,750,750,750,750,750,750,750,750,750,7	accommon provide	
NM State Plane (NAD83)		UTM (NAD83) (Met	ers) Lat/Long (WGS84) (to the nearest
NM West Zone	_	Zone 12N	1/10 th of second)
☐ NM East Zone☐ NM Central Zone	Ĺ	⊒Zone 13N	
NW Contrai zone		T	Provide if known:
		1	-Public Land Survey System (PLSS)
Well Number (if known):	X or Easting or	Y or Northing	(Quarters or Halves , Section, Township, Range) OR
avell Adhiber (ii Known):	Longitude:	or Latitude:	- Hydrographic Survey Map & Tract; OR
,	Ė		- Lot, Block & Subdivision; OR
			- Land Grant Name
6B-1	104 3 19.5 w	32 26 2.1 n	Unit Letter "J" (NW/SE), Section 35, Township 21 South,
			Range 28 East
B-2	104 3 19.5 w	32 26 2.1 n	Unit Letter "J" (NW/SE), Section 35, Township 21 South,
-LJ-Z	104 3 13.5 W	32 20 2.111	
			Range 28 East
SB-3	104 3 19.5 w	32 26 2.1 n	Unit Letter "J" (NW/SE), Section 35, Township 21 South,
			Range 28 East
			Nange 20 Last
SB-4	104 3 19.5 w	32 26 2.1 n	Unit Letter "J" (NW/SE), Section 35, Township 21 South,
			Range 28 East
3B-5	104 3 19.5 w	32 26 2.1 n	Unit Letter "J" (NW/SE), Section 35, Township 21 South,
	į		Range 28 East
			<u> </u>
NOTE: If more well location Additional well description			m WR-08 (Attachment 1 – POD Descriptions) If yes, how many
			: See attached Site Location Map.
		•	•
Vell is on land owned by: US	Department of the	Interior - Bureau (Of Land Management
	more than one (1) w	ell needs to be de	scribed, provide attachment. Attached? 🔲 Yes 🔲 No
If yes, how many		7	Outside dispersion of well assign (inches), 0.00
Approximate depth of well (fe			Outside diameter of well casing (inches): 0.00
Oriller Name: Straub Corpor	ration		Driller License Number: WD1478
ADDITIONAL STATEMENT	S OR EXPLANATION	NS	
			vertical and horizontal extent of contamination following a
eries of produced water an	id/or crude oil releas	ses at BOPCO's In	dian Flats Bass Federal Salt Water Disposal (SWD) site. The
			determined on the drilling date by field-screens using a th to water at the location (approximately 140 feet below
round surface), it is unlike			if to water at the location (approximately 140 lest below
,	•	•	
62 6 V 161 638 1	4		
OF -0 A 101 033 [.125		
E ENGINFER OFFICE	CON		
ב במטוזי בא טו רובב	IAIC		

FOR OSE INTERNAL USE Application for Permit, Form wr-07 Tm Number: 5/4456
Page 2 of 3

SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application: Pollution Control and/or Recovery: **Exploratory:** Construction Mine De-Watering: ☑ Include a Include a plan for pollution De-Watering: ☐ Include a plan for pollution control/recovery, that includes the following: description of control/recovery, that includes the Include a description of the any proposed proposed dewatering A description of the need for mine following: pump test, if A description of the need for the operation. dewatering. applicable. pollution control or recovery operation. The estimated duration of ☐ The estimated maximum period of time The estimated maximum period of the operation, for completion of the operation. time for completion of the operation. ☐ The maximum amount of ☐ The source(s) of the water to be diverted. ☐ The annual diversion amount. water to be diverted. The geohydrologic characteristics of the The annual consumptive use aquifer(s). A description of the need amount. The maximum amount of water to be for the dewatering operation, ☐ The maximum amount of water to be diverted per annum. and. The maximum amount of water to be diverted and injected for the duration of A description of how the the operation. diverted water will be disposed diverted for the duration of the operation. ☐ The method and place of discharge. ☐The quality of the water. of. The method of measurement of Monitoring: ☐The method of measurement of water Geo-Thermal: ☐ Include the water produced and discharged. ☐ Include a description of the diverted. reason for the ☐ The source of water to be injected. geothermal heat exchange ☐The recharge of water to the aquifer. monitorina The method of measurement of project. Description of the estimated area of water injected. well, and, The amount of water to be hydrologic effect of the project. ☐ The characteristics of the aquifer. ☐ The diverted and re-injected for the ☐The method and place of discharge. duration ☐ The method of determining the An estimation of the effects on surface project, resulting annual consumptive use of ☐ The time frame for of the planned water rights and underground water rights monitorina. water and depletion from any related constructing the geothermal from the mine dewatering project. stream system. A description of the methods employed to heat exchange project, and, Proof of any permit required from the estimate effects on surface water rights and ☐ The duration of the project. New Mexico Environment Department. Preliminary surveys, design underground water rights. ☐ An access agreement if the data, and additional Information on existing wells, rivers, applicant is not the owner of the land on information shall be included to springs, and wetlands within the area of which the pollution plume control or hydrologic effect. provide all essential facts recovery well is to be located. relating to the request. **ACKNOWLEDGEMENT** I, We (name of applicant(s)), Ben J. Arguijo Print Name(s) affirm that the foregoing statements are true to the best of (my, our) knowledge and belief. **Applicant Signature ACTION OF THE STATE ENGINEER** This application is: **X** kapproved partially approved ☐ denied provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval. October 20 12 , for the State Engineer, Witness my hand and seal this 9th day of Scott A. Verhines, P.E. , State Engineer Andy Morley, Acting District II Manager Title: Print FOR OSE INTERNAL USE Application for Permit, Form wr-07 Tm Number: 5/4456 File Number:



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Carisbad Field Office 620 E. Greene St. Carisbad, New Mexico 88220-6292 www.blm.gov/nm



In Reply Refer To: 3162.4 (NM-080) NMLC067144

September 16, 2012

NM Office of the State Engineer Attn: Bill Duemling 1900 W. Second St. Roswell, NM 99201

RE:

NMLC067144; Indian Flats Bass Federal #1 SWD

NWSE, Section 35, T21S-R28E

Latitude: 32.433816, Longitude: -104.055308

Eddy County, New Mexico

Gentlemen:

The above well location has had recent spill events related to oil and gas operation on the above well location. In order to fully delineate the impacted sites, a drilling unit will be needed to complete the delineation. The Bureau of Land Management (land owner) authorizes the use of a drilling unit to accomplish the full delineation of the site.

If there are any questions please call Jim Amos, Supervisory Environmental Protection Specialist, at (505) 234-5909.

Sincerely,

James A. Amos

Supervisory Environmental

Protection Specialist

25 4 V 161 d35 /IM

ROSMET.

Locator Tool Report

General Information:

Application ID:29

Date: 10-09-2012

Time: 10:34:24

WR File Number: CP

Purpose: POINT OF DIVERSION

Applicant First Name: BOPCO

Applicant Last Name: BEN J. ARGUIJO

GW Basin: CAPITAN County: EDDY

Critical Management Area Name(s): NONE Special Condition Area Name(s): NONE

Land Grant Name: NON GRANT

PLSS Description (New Mexico Principal Meridian):

SE 1/4 of SW 1/4 of NW 1/4 of SE 1/4 of Section 35, Township 21S, Range 28E.

Coordinate System Details:

Geographic Coordinates:

Latitude:

32 Degrees 26 Minutes 2.1 Seconds N

Longitude:

104 Degrees 3 Minutes 19.5 Seconds W

Universal Transverse Mercator Zone: 13N

NAD 1983(92) (Meters) NAD 1983(92) (Survey Feet) NAD 1927 (Meters) NAD 1927 (Survey Feet)

N: 3,588,926 E: 588,800 N: 11,774,669 E: 1,931,754 N: 3,588,724 E: 588,849

N: 11,774,006 E: 1,931,915

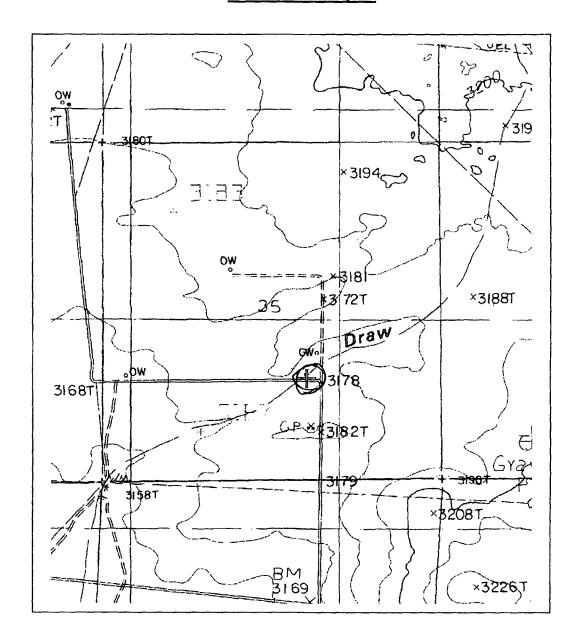
State Plane Coordinate System Zone: New Mexico East

N: 159,015 E: 191,134 NAD 1983(92) (Meters) NAD 1983(92) (Survey Feet) N: 521,702 E: 627,080 N: 158,996 NAD 1927 (Meters) E: 178,582 NAD 1927 (Survey Feet) N: 521,641 E: 585,899

> Print Date: 10/09/2012 Page 1 of 2

NEW MEXICO OFFICE OF STATE ENGINEER

Locator Tool Report





WR File Number: CP Scale: 1:17,516

GW Basin: Capitan

Page 2 of 2 Print Date: 10/09/2012

Scott A. Verhines, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 527952 File Nbr: CP 01171

May. 22, 2013

BEN J ARGUIJO BOPCO LP 3100 PLAINS HWY LOVINGTON, NM 88260

Greetings:

Enclosed is your copy of the above numbered permit that has been approved subject to the conditions set forth on the approval page. In accordance with the conditions of approval, the well can only be tested for 10 cumulative days, and the well is to be plugged on or before 05/31/2014, unless a permit to use the water is acquired from this office.

A Well Record & Log (OSE Form wr-20) shall be filed in this office within twenty (20) days after completion of drilling, but no later than 05/31/2014.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us or will be mailed upon request.

Sincerely,

Andy Morley (575)622-6521

Enclosure

File No.		 	

Interstate Stream Commission

NEW MEXICO OFFICE OF THE STATE ENGINEER

APPLICATION FOR PERMIT TO DRILL A WELL WITH NO CONSUMPTIVE USE OF WATER



(check applicable box):

_	For fees, see State Engineer we	bsite: http://www.ose.state.nm.us/	2.33050
Purpose:	☐ Pollution Control And / Or Recovery	☐ Geo-Thermal	,
	☐ Construction Site De-Watering	Other (Describe):	
☐ Monitoring	☐ Mineral De-Watering		
A separate permit will	be required to apply water to beneficial use.		
☐ Temporary Reque	st - Requested Start Date: 5/20/2013	Requested End D	ate:
Plugging Plan of Ope	rations Submitted? Yes No		
1. APPLICANT(S)			
Name: BOPCO, LP		Name:	
Contact or Agent: Ben J. Arguijo (Bas	check here if Agent ⊠ in Environmental)	Contact or Agent:	check here if Agent 🛚
Mailing Address: 3100	D Plains Hwy.	Mailing Address:	
City: Lovington		City:	
State: NM	Zip Code: 88220	State:	Zip Code:
Phone: (806)549-959 Phone (Work):	7 ☐ Home ☒ Cell	Phone: Phone (Work):	☐ Home ☐ Cell
E-mail (optional): bja	arguijo@basinenv.com	E-mail (optional):	
	FOR OSE INTERN File Number: Trans Description Sub-Basin: PÇW/LOG Due Da	P-//7 Trn Num (optional): POD 1-5	001100

) applicable to this ap		× 33050
(Lat/Long - WGS84).		•	State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude
District II (Roswell) and Dist	rict VII (Cimarron) o	ustomers, provid	e a PLSS location in addition to above.
NM State Plane (NAD83)NM West ZoneNM East ZoneNM Central Zone		UTM (NAD83) (Me]Zone 12N]Zone 13N	ters) \[\textstyle Lat/Long (WGS84) (to the nearest 1/10 th of second) \]
			Provide if known:
Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	-Public Land Survey System (PLSS) (Quarters or Halves, Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
SB-6	104 3 19.5 w	32 26 2.1 n	Unit Letter "J" (NW/SE), Section 35, Township 21 South,
CP-INI PODI			Range 28 East
SB-7	104 3 19.5 w	32 26 2.1 n	Unit Letter "J" (NW/SE), Section 35, Township 21 South,
CP-1171 PODZ			Range 28 East
SB-8	104 3 19.5 w	32 26 2.1 n	Unit Letter "J" (NW/SE), Section 35, Township 21 South,
CP-1171 POD3 SB-9			Range 28 East
SB-9	104 3 19.5 w	32 26 2.1 n	Unit Letter "J" (NW/SE), Section 35, Township 21 South,
CP-1171 PODY			Range 28 East
SB-10	104 3 19.5 w	32 26 2.1 n	Unit Letter "J" (NW/SE), Section 35, Township 21 South,
CP-1171 PODS			Range 28 East
NOTE: If more well location Additional well descriptions			m WR-08 (Attachment 1 – POD Descriptions) If yes, how many
Other description relating well	l to common landmar	ks, streets, or othe	r: See attached Site Location Map.
	_		
Well is on land owned by: US	Department Of The	Interior - Bureau	Of Land Management
Well Information: NOTE: If r	nore than one (1) w	ell needs to be de	scribed, provide attachment. Attached?
If yes, how many			
Approximate depth of well (fe	et): 50.00		Outside diameter of well casing (inches): 0.00
Driller Name: Straub Corpora	ation		Driller License Number: WD1478
. ADDITIONAL STATEMENTS	S OD EVDI ANATION	ue	
. ADDITIONAL OTATEMENTS	ON EXI EXIMATION	13	
series of produced water and exact number, location(s), as	d/or crude oil releas nd depth(s) of the s o-lonization Detecto	ses at BOPCO's In oil bore(s) will be or. Due to the dep	vertical and horizontal extent of contamination following a dian Flats Bass Federal Salt Water Disposal (SWD) site. The determined on the drilling date by field-screens using a th to water at the location (approximately 140 feet below
"I., √ h	1-83.6		
Total Same and Section	อ.เร ฮ์เหเร		

FOR OSE INTERNAL USE
File Number: P 171 Application for Permit, Form wr-07 Trn Number: 527

	QUIREMENTS: The applicant must include t		n well type. Please check the appropriate
boxes, to indicate	the information has been included and/or a	ttached to this application:	$\frac{2}{3}$ 33050
Exploratory: Include a description of any proposed pump test, if applicable. Monitoring: Include the reason for the monitoring well, and, The duration of the planned monitoring.	Pollution Control and/or Recovery: Include a plan for pollution control/recovery, that includes the following: A description of the need for the pollution control or recovery operation. The estimated maximum period of time for completion of the operation. The annual diversion amount. The annual consumptive use amount. The maximum amount of water to be diverted and injected for the duration of the operation. The method and place of discharge. The method of measurement of water produced and discharged. The source of water to be injected. The method of measurement of water injected. The characteristics of the aquifer. The method of determining the resulting annual consumptive use of water and depletion from any related stream system. Proof of any permit required from the New Mexico Environment Department. An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	Construction De-Watering: Include a description of the proposed dewatering operation, The estimated duration of the operation, The maximum amount of water to be diverted, A description of the need for the dewatering operation; and, A description of how the diverted water will be disposed of. Geo-Thermal: Include a description of the geothermal heat exchange project, The amount of water to be diverted and re-injected for the project, The time frame for constructing the geothermal heat exchange project, and, The duration of the project. Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	Mine De-Watering: Include a plan for pollution control/recovery, that includes the following: A description of the need for mine dewatering. The estimated maximum period of time for completion of the operation. The source(s) of the water to be diverted The geohydrologic characteristics of the aquifer(s). The maximum amount of water to be diverted per annum. The maximum amount of water to be diverted for the duration of the operation. The quality of the water. The method of measurement of water diverted. The recharge of water to the aquifer. Description of the estimated area of hydrologic effect of the project. The method and place of discharge. An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. A description of the methods employed to estimate effects on surface water rights and underground water rights. Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
	recovery well is to be located.	relating to the request.	
		CKNOWLEDGEMENT	
I, We (name of a	applicant(s)), Ben J. Arguijo Pr	int Name(s)	
affirm that the fo	pregoing statements are true to the best of ((my, our) knowledge and belief.	
	5/13/13		
Applicant Signa		Applicant Signature	
	ACTION	OF THE STATE ENGINEER	name one
		This application is:	₹
	☐ approved		☐ denied
provided it is n Mexico nor de	not exercised to the detriment of any others trimental to the public welfare and further su	having existing rights, and is not c ubject to the <u>attached</u> conditions o	ontrary to the conservation of water in New f approval.
Witness my har	nd and seal thisday of	May 20 <u>13</u> ,	for the State Engineer,
	Scott A Verhines,	P.E. State Engineer	
		, State Engineer	
By: Signature	Any Maly	Print	
•	Morley District IT Manager	CHILE	
Print	Morley, District II Manager		
			Application for Delivity 5

File Number:

Page 3 of 3

NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- LOG The Point of Diversion CP 01171 POD3 must be completed and the Well Log filed on or before 05/31/2014.
- LOG The Point of Diversion CP 01171 POD4 must be completed and the Well Log filed on or before 05/31/2014.
- LOG The Point of Diversion CP 01171 POD5 must be completed and the Well Log filed on or before 05/31/2014.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd: Date Rcvd. Corrected: Formal Application Rcvd: 05/14/2013 Pub. of Notice Ordered: Date Returned - Correction: Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 22 day of May A.D., 2013

Scott A. Verhines, P.E., State Engineer

By:

 Trn Desc:
 CP-1171 POD1-5 EXPL
 File Number:
 CP 01171

 Trn Number:
 527952

page: 2

NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

- 4 No water shall be appropriated and beneficially used under this permit.
- 7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated.
- Oriller's well record must be filed with the State Engineer within 20 days after the well is drilled or driven. Well record forms will be provided by the State Engineer upon request.
- C2 No water shall be diverted from this well except for testing purposes which shall not exceed ten (10). cumulative days, and well shall be plugged or capped on or before, unless a permit to use water from this well is acquired from the Office of the State Engineer.
- P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between geologic zones.
- LOG The Point of Diversion CP 01171 POD1 must be completed and the Well Log filed on or before 05/31/2014.
- LOG The Point of Diversion CP 01171 POD2 must be completed and the Well Log filed on or before 05/31/2014.

Trn Desc: CP-1171 POD1-5 EXPL File Number: CP 01171

Trn Number: 527952

Appendix E Laboratory Analytical Reports



March 14, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: INDIAN FLATS BASS FEDERAL SWD

Enclosed are the results of analyses for samples received by the laboratory on 03/08/12 9:03.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited 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 & Keine

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



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

Analytical Results For:

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

Fax To:

(575) 396-1429

Received:

03/08/2012

Sampling Date:

03/06/2012

Reported:

03/14/2012

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Surrogate: 1-Chlorooctadecane

Project Location:

EDDY CO., NM

111%

57.6-158

Sample ID: SB - 1 @ 5' (H200609-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	03/09/2012	ND	432	108	400	3.64	
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	<50.0	50.0	03/10/2012	ND	187	93.7	200	1.65	
DRO >C10-C28	68.2	50.0	03/10/2012	ND	162	81.2	200	4.19	
EXT DRO >C28-C35	<50.0	50.0	03/10/2012	ND					
Surrogate: 1-Chlorooctane	103 9	% 55.5-15	4						

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be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after complesion of the applicable service. In no event shall Cardinal be (able for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiances, affiliates or successors ansing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such

Clay to Keene



Analytical Results For:

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

Fax To:

(575) 396-1429

Received:

03/08/2012

Sampling Date:

03/06/2012

Reported:

03/14/2012

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY CO., NM

Sample ID: SB - 1 @ 10' (H200609-02)

BTEX 8021B	mg,	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2012	ND	1.92	96.2	2.00	11.2	
Toluene*	<0.050	0.050	03/09/2012	ND	2.12	106	2.00	9.70	
Ethylbenzene*	<0.050	0.050	03/09/2012	ND	2.19	110	2.00	10.9	
Total Xylenes*	<0.150	0.150	03/09/2012	ND	6.92	115	6.00	9.87	
Surrogate: 4-Bromofluorobenzene (PIL	111	% 64.4-13	4						,
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	03/12/2012	ND	432	108	400	3.64	
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	03/10/2012	ND	187	93.7	200	1.65	
DRO >C10-C28	15.4	10.0	03/10/2012	ND	162	81.2	200	4.19	
EXT DRO >C28-C35	10.1	10.0	03/10/2012	ND					
Surrogate: 1-Chlorooctane	103	% 55.5-15	4		·				
Surrogate: 1-Chlorooctadecane	107	% 57.6-15	8						

Sample ID: SB - 1 @ 25' (H200609-03)

Chloride, SM4500Cl-B	e, SM4500Cl-B mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	03/12/2012	ND	432	108	400	3.64	

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Celeg Steens

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Fax To:

Received:

Reported: Project Name: 03/08/2012 03/14/2012

INDIAN FLATS BASS FEDERAL SWD

Project Number: Project Location: NONE GIVEN EDDY CO., NM Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: 03/06/2012 Soil

Cool & Intact

Jodi Henson

Sample ID: SB - 1 @ 30' (H200609-04)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2012	ND	1.92	96.2	2.00	11.2	
Toluene*	<0.050	0.050	03/09/2012	ND	2.12	106	2.00	9.70	
Ethylbenzene*	<0.050	0.050	03/09/2012	ND	2.19	110	2.00	10.9	
Total Xylenes*	<0.150	0.150	03/09/2012	ND .	6.92	115	. 6.00	9.87	
							· · · · · · · · · · · · · · · · · · ·		

Surrogate: 4-Bromofluorobenzene (PIL

111%

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/12/2012	ND	432	108	400	3.64	
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	03/10/2012	ND	187	93.7	200	1.65	
DRO >C10-C28	<10.0	10.0	03/10/2012	ND	162	81.2	200	4.19	
EXT DRO >C28-C35	<10.0	10.0	03/10/2012	ND					
Surrogate: 1-Chlorooctane	85,4	% 55.5-15	4				·		

85.4%

55.5-154 57.6-158

64.4-134

Surrogate: 1-Chlorooctadecane

85.1 %

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Celley to Keena

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Fax To:

(575) 396-1429

Received:

03/08/2012

Sampling Date:

03/06/2012

Reported:

03/14/2012

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

EDDY CO., NM

Sample Received By:

Jodi Henson

Sample ID: SB - 2 @ 5' (H200609-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3880	16.0	03/12/2012	ND	432	108	400	3.64	
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	03/10/2012	ND	187	93.7	200	1.65	
DRO >C10-C28	<10.0	10.0	03/10/2012	ND	162	81.2	200	4.19	
EXT DRO >C28-C35	<10.0	10.0	03/10/2012	ND					
Surrogate: 1-Chlorooctane	92.8	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	96.5	% 57.6-15	8						

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Celey D. Keene



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Analytical Results For:

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

Fax To:

Received:

BTEX 8021B

03/08/2012

03/14/2012

Sampling Date:

03/06/2012

Reported:

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Project Location:

EDDY CO., NM

Jodi Henson

Sample ID: SB - 2 @ 10' (H200609-06)

		<u> </u>	<u></u>						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2012	ND	1.92	96.2	2.00	11.2	
Toluene*	<0.050	0.050	03/09/2012	ND	2.12	106	2.00	9.70	
Ethylbenzene*	<0.050	0.050	03/09/2012	ND	2.19	110	2.00	10.9	
Total Xylenes*	<0.150	0.150	03/09/2012	ND	6.92	115	6.00	9.87	
Surrogate: 4-Bromofluorobenzene (PIL	110 %	64.4-13	4						
Chloride, SM4500Cl-B	mg/l	kg	Analyze	d By: AP		, , , - , , , , , , , , , , , , , , , ,			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	03/12/2012	ND	432	108	400	3.64	
TPH 8015M	mg/l	(g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/10/2012	ND	187	93.7	200	1.65	
DRO >C10-C28	<10.0	10.0	03/10/2012	ND	162	81.2	200	4.19	
EXT DRO >C28-C35	<10.0	10.0	03/10/2012	ND					
Surrogate: 1-Chlorooctane	113 %	55.5-15-	1						
Surrogate: 1-Chlorooctadecane	112 %	57.6-158	3						

Analyzed By: AP

Sample ID: SB - 2 @ 20' (H200609-07)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3720	16,0	03/12/2012	ND	432	108	400	3.64	

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alex Likera

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Fax To:

(575) 396-1429

Received:

03/08/2012

Sampling Date:

03/06/2012

Reported:

03/14/2012

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY CO., NM

Sample ID: SB - 2 @ 30' (H200609-08)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte

Result

Reporting Limit Analyzed Method Blank

BS

True Value QC 400

RPD

Chloride

768

16.0 03/12/2012

ND

432

108

% Recovery

3.64

Qualifier

Sample ID: SB - 2 @ 35' (H200609-09)

BTEX 8021B	mg,	/kg	Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2012	ND	1.92	96.2	2.00	11.2	
Toluene*	<0.050	0.050	03/09/2012	ND	2.12	106	2.00	9.70	
Ethylbenzene*	<0.050	0.050	03/09/2012	ND	2.19	110	2.00	10.9	
Total Xylenes*	<0.150	0.150	03/09/2012	ND	6.92	115	6.00	9.87	

Surrogate: 4-Bromofluorobenzene (PIL

107 %

64.4-134

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	03/12/2012	ND	432	108	400	3.64	
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	03/10/2012	ND	187	93.7	200	1.65	
DRO >C10-C28	<10.0	10.0	03/10/2012	ND	162	81.2	200	4.19	
EXT DRO >C28-C35	<10.0	10.0	03/10/2012	ND					

Surrogate: 1-Chlorooctane

102 %

55.5-154

Surrogate: 1-Chlorooctadecane

103 %

57.6-158

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager





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

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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Celegit huna



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(373) 333-2320 TAA (373) 333-2470						
Company Name: Basin Environmental Service Technologies, LLC	BILL TO	ANALYSIS REQUEST				
Project Manager: Ben J. Arguiĵo	P.O. #:					
Address: P.C. Box 301	Company: BOPCO, LP					
City: Lovington State: NM Zip: 88260	Alin: Tony Savoie					
Phone #: (575)396-2378 Fax #: (575)396-1429	Address: 522 W. Mermod					
Project #: Project Owner: BOPCO, LP	City: Carlsbad					
Project Name: Indian Flacs Bass Federal SWD	State: NM Zip: 88220					
Project Location: Eddy Co., MM	Phone #: (432)556-8730					
Sampler Name: Ben Arguijo	Fax #:					
FOR LAB USE ONLY MATRIX	PRESERV SAMPLING	W5/02				
Tap I'O' COMP. **CONTAINERS GROUNDWATER WASTEWATER SOIL	OTHER: OTHER: OTHER: BADD ACIDIBASE: OTHER: AMIT	2 hor ite 3 TEX				
1 38-105' GIX	X 3/6/12 1100	XX				
2 58.1 010'	1105					
3 58-10 25'	1130					
4 38-10-30'	1150	XX				
5 58.265						
6 36-2610	1305					
7 58-2720'	1315	 				
4 58-2030'	1335					
9 5B-2035'	J J 1350					
PLEASE NOTE: Liablely and Damages, Cardinal's habbily and client's exclusive remedy for any claim arriving whether based in contri	ct or tort, shall be limited to the amount page by the chent	or the				

PLEASE NOTE: Liability and Damages. Cardinal's hability and client's exclusive remody for any diarm arising whether based in contract or tort, shall be limited to the amount past by the client for the analyses. At claims, including those for neighbors and any other cause whatsoever shall be deemed waved unless made in variing and received by Cardinal within 30 days after competion 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 performance of services hereunder by Cardinal, regardless of whether size dupon any of the above stated reasons or otherwise.

Relinquished By:	Date: // Received By:	Phone Result: Yes No Add'l Phone #:
	31//a	Fax Result: 🗆 Yes 🖸 No Add'l Fax #:
	Time: 0700 MALOTAN WAR	REMARKS:
Relinquished By:	Date: G/// Received By:	}
	Time: 02 1000 MOULAGE	
	9.00 5 1 March 500 100	Please email results to pm@basinenv.com
Delivered By: (Circle One)	Sample Condition CHECKED BY:	& TAsavoie@BassPet.com
Sampler - UPS - Bus - Other:	Cool Infact (Initials) Let Yes Yes No No No	·

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Page 9 of 9



December 20, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: INDIAN FLATS BASS FEDERAL SWD

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

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited 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 & 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



Analytical Results For:

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

Received:

12/14/2012

Sampling Date:

12/12/2012

Reported:

12/20/2012

Sampling Type:

Project Name:

Soil

INDIAN FLATS BASS FEDERAL SWD

Reporting Limit

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Jodi Henson

Project Location:

Analyte

EDDY CO., NM

Sample Received By:

Sample ID: SB - 3 (BG) @ SURFACE (H203013-01)

Ch	lori	ide,	SM4	1500)CI	-В

mg/kg

Analyzed By: HM

True Value QC

Result

Method Blank

BS 416 % Recovery

RPD

3.77

Qualifier

Chloride

32.0

16.0 12/19/2012

Analyzed

ND

104

400

Sample ID: SB - 3 (BG)@ 5' (H203013-02)

Chloride, SM4500Cl-B	mg/kg
	··· (G····

Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/19/2012	ND	416	104	400	3.77	
TPH 8015M	PH 8015M mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/20/2012	ND	184	92.1	200	3.64	
DRO >C10-C28	<10.0	10.0	12/20/2012	ND	199	99.5	200	5.25	
EXT DRO >C28-C35	<10.0	10.0	12/20/2012	ND					
		·							

Surrogate: 1-Chlorooctadecane

Surrogate: 1-Chlorooctane

84.5 % 94.5 % 65.2-140 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 31



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

Fax To: (575) 396-1429

Received:

12/14/2012

Sampling Date:

12/12/2012

Reported:

12/20/2012

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY CO., NM

Sample ID: SB - 3(BG) @ 10' (H203013-03)

BTEX 8021B	mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2012	ND	1.98	99.2	2.00	2.63	
Toluene*	<0.050	0.050	12/20/2012	ND	2.21	110	2.00	2.60	
Ethylbenzene*	<0.050	0.050	12/20/2012	ND	2.17	109	2.00	5.28	
Total Xylenes*	<0.150	0.150	12/20/2012	ND	6.78	113	6.00	7.51	
Total BTEX	<0.300	0.300	12/20/2012	ND					
Surrogate: 4-Bromofluorobenzene (PIL	115 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/19/2012	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/20/2012	ND	184	92.1	200	3.64	
DRO >C10-C28	<10.0	10.0	12/20/2012	ND	199	99.5	200	5.25	
EXT DRO >C28-C35	<10.0	10.0	12/20/2012	ND					
Surrogate: 1-Chlorooctane	87.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	99.5	% 63.6-15	4						

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Celey & Keene



Analytical Results For:

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

Received:

12/14/2012

Sampling Date:

12/12/2012

Reported:

12/20/2012

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

Analyte

Analyte

EDDY CO., NM

Sample Received By:

Jodi Henson

Sample ID: SB - 3 (BG)@ 15' (H203013-04)

Chloride, SM4500Cl-B

Analyzed By: HM

BS

% Recovery

True Value QC 400

RPD

Chloride

Result 32.0

Reporting Limit 16.0

Reporting Limit

Analyzed 12/19/2012

Analyzed

Method Blank ND

416

104

Qualifier

Sample ID: SB - 3 (BG)@ 20' (H203013-05)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Method Blank

BS

% Recovery True Value QC RPD

3.77

3.77

Qualifier

Chloride

Chloride

Chloride

Result 32.0

16.0

12/19/2012

ND

416

104

400

Sample ID: SB - 3 (BG)@ 25' (H203013-06)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

· Analyte

Result 32.0

Reporting Limit 16.0

Reporting Limit

16.0

Analyzed 12/19/2012 Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD

Qualifier

Sample ID: SB - 4 @ SURFACE (H203013-07)

Chloride, SM4500Cl-8

Analyte

Result

3520

Analyzed By: HM

Analyzed

12/19/2012

Method Blank

ND

BS 432 % Recovery 108

True Value QC 400

RPD 3.64

3.64

Qualifier

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Celey D. Keene, Lab Director/Quality Manager

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

Fax To:

(575) 396-1429

Received:

12/14/2012

Sampling Date:

12/12/2012

Reported:

12/20/2012

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

EDDY CO., NM

Sample Received By:

Jodi Henson

Sample ID: SB - 4 @ 5' (H203013-08)

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	12/19/2012	ND	432	108	400	3.64	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/19/2012	ND	184	92.1	200	3.64	
DRO >C10-C28	123	10.0	12/19/2012	ND	199	99.5	200	5.25	
EXT DRO >C28-C35	34.9	10.0	12/19/2012	ND					
Surrogate: 1-Chlorooctane	90.1	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	105	% 63.6-15	4						

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Analytical Results For:

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

Received:

12/14/2012

Sampling Date:

12/12/2012

Reported:

12/20/2012

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY CO., NM

Sample ID: SB - 4 @ 10' (H203013-09)

BTEX 80218	mg/kg		Analyze	Analyzed By: AP		·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2012	ND	1.94	96.8	2.00	2.01	
Toluene*	<0.050	0.050	12/20/2012	ND	2.07	104	2.00	1.83	
Ethylbenzene*	<0.050	0.050	12/20/2012	ND	1.99	99.4	2.00	1.87	
Total Xylenes*	<0.150	0.150	12/20/2012	ND	5.98	99.7	6.00	1.51	
Total BTEX	<0.300	0.300	12/20/2012	ND					
Surrogate: 4-Bromofluorobenzene (PIC	111 9	6 . 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	12/19/2012	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/19/2012	ND	184	92.1	200	3.64	
DRO >C10-C28	63.1	10.0	12/19/2012	ND	199	99.5	200	5.25	
EXT DRO >C28-C35	18.2	10.0	12/19/2012	ND					
Surrogate: 1-Chlorooctane	83.1 %	65.2-140	; 						
Surrogate: 1-Chlorooctadecane	95.2 9	63.6-15	1						

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Fax To: (575) 396-1429

Received:

12/14/2012

Sampling Date:

12/12/2012

Reported:

12/20/2012

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY CO., NM

Sample ID: SB - 4 @ 20' (H203013-10)

Jumpic	ID. JD	•	•	20	(11203013-	LU
Chlasida	CHAFOOCI	-				

Chloride, SM4500CI-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1950	16.0	12/19/2012	ND	432	108	400	3.64	

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Fax To:

(575) 396-1429

Received:

12/14/2012

Sampling Date:

12/12/2012

Reported:

12/20/2012

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

EDDY CO., NM

Sample Received By:

Jodi Henson

Sample ID: SB - 4 @ 30' (H203013-11)

BTEX 80218	mg	/kg	Analyzo	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2012	ND	1.94	96.8	2.00	2.01	
Toluene*	<0.050	0.050	12/20/2012	ND	2.07	104	2.00	1.83	
Ethylbenzene*	<0.050	0.050	12/20/2012	ND	1.99	99.4	2.00	1.87	
Total Xylenes*	<0.150	0.150	12/20/2012	ND	5.98	99.7	6.00	1.51	
Total BTEX	<0.300	0.300	12/20/2012	ND					
Surrogate: 4-Bromofluorobenzene (PIC	115 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM		*				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	12/19/2012	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS	-				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/19/2012	· ND	184	92.1	200	3.64	
DRO >C10-C28	256	10.0	12/19/2012	ND	199	99.5	200	5.25	
EXT DRO >C28-C35	60.4	10.0	12/19/2012	ND					
Surrogate: 1-Chlorooctane	79.0 %	65.2-140)						
Surrogate: 1-Chlorooctadecane	92.0 %	63.6-15	1						

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Fax To:

(575) 396-1429

Received:

12/14/2012

Sampling Date:

12/12/2012

Reported:

12/20/2012

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

EDDY CO., NM

Sample Received By:

Jodi Henson

Sample ID: SB - 4 @ 40' (H203013-12)

Analyzed By: HM

Analyte

Chloride

Result

1620

Reporting Limit 16.0

Analyzed 12/19/2012 Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD

3.64

Qualifier

Sample ID: SB - 4 @ 50' (H203013-13)

Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	12/19/2012	ND	432	108	400	3.64	
TPH 8015M mg/kg		/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/19/2012	ND	184	92.1	200	3.64	
DRO >C10-C28	<10.0	10.0	12/19/2012	ND	199	99.5	200	5.25	
EXT DRO >C28-C35	<10.0	10.0	12/19/2012	ND					

Surrogate: 1-Chlorooctane

84.1 %

65.2-140

Surrogate: 1-Chlorooctadecane

94.1%

63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Page 9 of 31



Analytical Results For:

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

Fax To:

(575) 396-1429

Received:

12/14/2012

Sampling Date:

12/12/2012

Reported:

12/20/2012

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Cool & Intact

Project Number:

Sampling Condition:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY CO., NM

Sample ID: SB - 4 @ 55' (H203013-14)

BTEX 8021B	mg,	kg	Analyzo	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2012	ND	1.94	96.8	2.00	2.01	
Toluene*	<0.050	0.050	12/20/2012	ND	2.07	104	2.00	1.83	
Ethylbenzene*	<0.050	0.050	12/20/2012	ND	1.99	99.4	2.00	1.87	
Total Xylenes*	<0.150	0.150	12/20/2012	ND	5.98	99.7	6.00	1.51	
Total BTEX	<0.300	0.300	12/20/2012	ND					
Surrogate: 4-Bromofluorobenzene (PIL	114 9	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	12/19/2012	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/19/2012	ND	184	92.1	200	3.64	
DRO >C10-C28	33.2	10.0	12/19/2012	ND	199	99.5	200	5.25	
EXT DRO >C28-C35	<10.0	10.0	12/19/2012	ND					
Surrogate: 1-Chlorooctane	77.6 %	6 65.2-140)						
Surrogate: 1-Chlorooctadecane	86.3 %	63.6-154	1						

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

Lovington NM, 88260

Fax To: (575) 396-1429

Received: Reported: 12/14/2012

12/20/2012

Project Name: Project Number: INDIAN FLATS BASS FEDERAL SWD

Project Location:

NONE GIVEN

EDDY CO., NM

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: Cool & Intact

Soil

12/12/2012

Jodi Henson

Sample ID: SB - 5 @ SURFACE (H203013-15)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte

Analyte

Result 976

Reporting Limit 16.0

Reporting Limit

Analyzed 12/19/2012 Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD 3.64

Qualifier

Sample ID: SB - 5 @ 5' (H203013-16)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyzed

% Recovery

True Value QC

Qualifier

Chloride

Chloride

Result 736

16.0 12/19/2012 Method Blank ND

BS 432

108 400 RPD

Sample ID: SB - 5 @ 10' (H203013-17)

Chloride, SM4500CI-B

Analyzed By: HM

3.64

Chloride, Strissodd B	9/	ng .	Allaryzo	a by: III-I					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	12/19/2012	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/19/2012	ND	184	92.1	200	3.64	
DRO >C10-C28	<10.0	10.0	12/19/2012	ND	199	99.5	200	5.25	
EXT DRO >C28-C35	<10.0	10.0	12/19/2012	ND					

Surrogate: 1-Chlorooctane

77.8 %

65.2-140

Surrogate: 1-Chlorooctadecane

84.6 %

63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Page 11 of 31



Analytical Results For:

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

Fax To:

(575) 396-1429

Annhand Day An

Received:

12/14/2012

Sampling Date:

12/12/2012

Reported:

DTEV 00310

Sampling Type:

12/20/2012

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY CO., NM

Sample ID: SB - 5 @ 15' (H203013-18)

BTEX 8021B	mg,	/kg	Analyzo	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2012	· ND	1.94	96,8	2.00	2.01	* .
Toluene*	<0.050	0.050	12/20/2012	ND	2.07	104	2,00	1.83	
Ethylbenzene*	<0.050	0.050	12/20/2012	ND	1.99	99.4	2.00	1.87	
Total Xylenes*	<0.150	0.150	12/20/2012	ND	5.98	99.7	6.00	1.51	
Total BTEX	<0.300	0.300	12/20/2012	ND					
Surrogate: 4-Bromofluorobenzene (PIC	114 9	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM	·				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	12/19/2012	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/19/2012	ND	184	92.1	200	3.64	
DRO >C10-C28	20.9	10.0	12/19/2012	ND	199	99.5	200	5.25	
EXT DRO >C28-C35	<10.0	10.0	12/19/2012	ND					
Surrogate: 1-Chlorooctane	81.5%	6 65.2-140)					·	
Surrogate: 1-Chlorooctadecane	91.3%	63.6-154	į						

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Cellent Huna



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

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Fax To: (575) 396-1429

Received:

12/14/2012

Sampling Date:

12/12/2012

Reported:

12/20/2012

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

EDDY CO., NM

Sample Received By:

Jodi Henson

Sample ID: SB - 5 @ 20' (H203013-19)

Chloride, SM4500Cl-B	00CI-B mg/kg		Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	12/19/2012	ND	432	108	400	3 64	

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Analytical Results For:

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

Fax To:

(575) 396-1429

Received:

12/14/2012

12/20/2012

Sampling Date:

12/12/2012

Reported:

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY CO., NM

Sample ID: SB - 5 @ 30' (H203013-20)

12/20/2012	Method Blank ND	BS	% Recovery	True Value QC	RPD	Qualifier
. ,	ND			-	NID	Quanner
12/20/2012		1.94	96.8	2.00	2.01	
12/20/2012	ND	2.07	104	2.00	1.83	
12/20/2012	ND	1.99	99.4	2,00	1.87	
12/20/2012	ND	5.98	99.7	6.00	1.51	
12/20/2012	ND					
4-126						
Analyze	d By: HM				 -	
nit Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
12/19/2012	ND	432	108	400	3.64	
Analyze	d By: MS					
iit Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
12/19/2012	ND	184	92.1	200	3.64	
12/19/2012	ND	199	99.5	200	5.25	
12/19/2012	ND					
2-140						
	12/19/2012 12/19/2012 12/19/2012 12/19/2012	12/19/2012 ND 12/19/2012 ND 12/19/2012 ND	it Analyzed Method Blank BS 12/19/2012 ND 184 12/19/2012 ND 199 12/19/2012 ND	it Analyzed Method Blank BS % Recovery 12/19/2012 ND 184 92.1 12/19/2012 ND 199 99.5 12/19/2012 ND	it Analyzed Method Blank BS % Recovery True Value QC 12/19/2012 ND 184 92.1 200 12/19/2012 ND 199 99.5 200 12/19/2012 ND	it Analyzed Method Blank BS % Recovery True Value QC RPD 12/19/2012 ND 184 92.1 200 3.64 12/19/2012 ND 199 99.5 200 5.25 12/19/2012 ND

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Clay E. Keine



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

Fax To:

INDIAN FLATS BASS FEDERAL SWD

(575) 396-1429

Received:

12/14/2012

Sampling Date:

12/12/2012

Reported:

Sampling Type:

Soil

Project Name:

12/20/2012

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

Sample Received By:

Jodi Henson

EDDY CO., NM

Sample ID: SB - 5 @ 45' (H203013-21)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	12/19/2012	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/19/2012	ND	184	92.1	200	3.64	
DRO >C10-C28	<10.0	10.0	12/19/2012	ND	199	99.5	200	5.25	
EXT DRO >C28-C35	<10.0	10.0	12/19/2012	ND					
Surrogate: 1-Chlorooctane	82.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	93.1	% 63.6-15	4						

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Celey & Keene



Analytical Results For:

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

Received:

12/14/2012

Reported: Project Name: 12/20/2012

INDIAN FLATS BASS FEDERAL SWD

Project Number: Project Location:

NONE GIVEN

EDDY CO., NM

Sampling Date:

12/12/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jödi Henson

Sample ID: SB - 5 @ 50' (H203013-22)

BTEX 8021B	mg	/kg	Analyz	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2012	ND	1.94	96.8	2.00	2.01	
Toluene*	<0.050	0.050	12/20/2012	ND	2.07	104	2.00	1.83	
Ethylbenzene*	<0.050	0.050	12/20/2012	ND	1.99	99.4	2.00	1.87	
Total Xylenes*	<0.150	0.150	12/20/2012	ND	5.98	99.7	6.00	1.51	
Total BTEX	<0.300	0.300	12/20/2012	ND					
Surrogate: 4-Bromofluorobenzene (PIC	117 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	12/19/2012	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS				·	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/19/2012	ND	184	92.1	200	0.0933	
DRO >C10-C28	<10.0	10.0	12/19/2012	ND	202	101	200	2.20	
EXT DRO >C28-C35	<10.0	10.0	12/19/2012	ND					•
Surrogate: 1-Chlorooctane	79.0 %	65,2-140)					·	
Surrogate: 1-Chlorooctadecane	87.49	6 63.6-15-	1						

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aleg to Keens



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Received:

12/14/2012

Sampling Date:

12/12/2012

Reported:

12/20/2012

Sampling Type:

Soil

True Value QC

400

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Reporting Limit

16.0

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

Analyte

Chloride

EDDY CO., NM

Result

192

88.2 %

63.6-154

Sample Received By:

BS

432

% Recovery

108

Jodi Henson

Sample ID: SB - 6 @ SURFACE (H203013-23)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM				*	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	12/19/2012	ND	432	108	400	3.64	•
Sample ID: SB - 6 @ 5' (H	203013-24)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					

Method Blank

ND

Analyzed

12/19/2012

Sample ID: SB - 6 @ 10' (H203013-25)

Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	12/19/2012	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/19/2012	ND	184	92.1	200	0.0933	
DRO >C10-C28	<10.0	10.0	12/19/2012	ND	202	101	200	2.20	
EXT DRO >C28-C35	<10.0	10.0	12/19/2012	ND					
Surrogate: 1-Chlorooctane	81.0	% 65.2-14	0						

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Surrogate: 1-Chlorooctadecane

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Qualifier

RPD

3.64

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Analytical Results For:

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

Received: Reported: 12/14/2012

12/20/2012

Project Name: Project Number: INDIAN FLATS BASS FEDERAL SWD

NONE GIVEN

Project Location:

EDDY CO., NM

Sampling Date:

Sampling Type:

Sampling Condition:

12/12/2012 Soil

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SB - 6 @ 15' (H203013-26)

BTEX 8021B	mg/	kg	Analyz	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2012	ND	1.94	96.8	2.00	2.01	
Toluene*	<0.050	0.050	12/20/2012	ND	2.07	104	2.00	1.83	
Ethylbenzene*	< 0.050	0.050	12/20/2012	ND	1.99	99.4	2.00	1.87	
Total Xylenes*	< 0.150	0.150	12/20/2012	ND	5.98	99.7	6.00	1.51	
Total BTEX	<0.300	0.300	12/20/2012	ND					
Surrogate: 4-Bromofluorobenzene (PIE	115%	6 89.4-12	6			 	·		
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	12/19/2012	ND	432	108	400	0.00	
TPH 8015M	mg/l	kg	Analyze	d By: MS					· · · · · · · · · · · · · · · · · · ·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/19/2012	ND	184	92.1	200	0.0933	
DRO >C10-C28	<10.0	10.0	12/19/2012	ND	202	101	200	2.20	
EXT DRO >C28-C35	<10.0	10.0	12/19/2012	ND					
Surrogate: 1-Chlorooctane	82.8 %	65.2-140)					·	
Surrogate: 1-Chlorooctadecane	93.5 %	63.6-15-	1						

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Celley E. Kiens



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

Received:

12/14/2012

Reported:

12/20/2012

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Project Number: Project Location:

NONE GIVEN

INDIAN FLA

EDDY CO., NM

Sampling Date:

12/12/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SB - 6 @ 40' (H203013-29)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2012	ND	1.94	96.8	2.00	2.01	
Toluene*	<0.050	0.050	12/20/2012	ND	2.07	104	2.00	1.83	
Ethylbenzene*	<0.050	0.050	12/20/2012	ND	1.99	99.4	2.00 .	1.87	
Total Xylenes*	<0.150	0.150	12/20/2012	ND	5.98	99.7	6.00	1.51	
Total BTEX	<0.300	0.300	12/20/2012	ND					
Surrogate: 4-Bromofluorobenzene (PIE	114 9	% 89.4-120	6						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/19/2012	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/19/2012	ND	184	92.1	200	0.0933	
DRO >C10-C28	<10.0	10.0	12/19/2012	ND	202	101	200	2.20	
EXT DRO >C28-C35	<10.0	10.0	12/19/2012	ND					
Surrogate: 1-Chlorooctane	80.3	% 65.2-140	0						
Surrogate: 1-Chlorooctadecane	87.4	% 63.6-15-	4						

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Celeg & Keena



Analytical Results For:

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

Lovington NM, 88260 Fax To:

(575) 396-1429

Received:

12/14/2012

Reported: Project Name: 12/20/2012

INDIAN FLATS BASS FEDERAL SWD

Project Number: Project Location: NONE GIVEN EDDY CO., NM Sampling Date: Sampling Type: 12/12/2012

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SB - 6 @ 40' (H203013-29)

BTEX 8021B	mg,	/kg	Analyze	ed By: AP				 	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2012	ND	1.94	96.8	2.00	2.01	
Toluene*	<0.050	0.050	12/20/2012	ND .	2.07	104	2.00	1.83	
Ethylbenzene*	<0.050	0.050	12/20/2012	ND	1.99	99.4	2.00	1.87	
Total Xylenes*	<0.150	0.150	12/20/2012	ND	5.98	99.7	6.00	1.51	
Total BTEX	<0.300	0.300	12/20/2012	ND				÷	
Surrogate: 4-Bromofluorobenzene (PIC	1149	89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/19/2012	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS			·		~-~-
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/19/2012	ND	184	92.1	200	0.0933	
DRO >C10-C28	<10.0	10.0	12/19/2012	ND	202	101	200	2.20	
EXT DRO >C28-C35	<10.0	10.0	12/19/2012	ND					
Surrogate: 1-Chlorooctane	80.3 %	65.2-140)						
Surrogate: 1-Chlorooctadecane	87.4 9	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:

12/14/2012

Sampling Date:

12/12/2012

Reported:

12/20/2012

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY CO., NM

Sample ID: SB - 7 @ SURFACE (H203013-30)

Chloride, SM4500CI-B Analyte

mg/kg

94.3 %

63.6-154

Analyzed By: HM

Analyzed

Method Blank

BS

% Recovery

True Value QC

Qualifier

Chloride

Result 13200 Reporting Limit 16.0

12/19/2012

ND

432

400 108

RPD 0.00

Sample ID: SB - 7 @ 5' (H203013-31)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	12/19/2012	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/19/2012	ND	184	92.1	200	0.0933	
DRO >C10-C28	<10.0	10.0	12/19/2012	ND	202	101	200	2.20	
EXT DRO >C28-C35	<10.0	10.0	12/19/2012	ND					
Surrogate: 1-Chlorooctane	83.6	% 65.2-14	0						

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Surrogate: 1-Chlorooctadecane

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Celeg D. Keine Celey D. Keene, Lab Director/Quality Manager

Page 21 of 31



Analytical Results For:

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

Received:

12/14/2012

Reported:

12/20/2012

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Project Number:

NONE GIVEN

Project Location:

EDDY CO., NM

Sampling Date:

12/12/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SB - 7 @ 10' (H203013-32)

BTEX 8021B	mg/	kg	Analyzo	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2012	ND	1.94	96.8	2.00	2.01	
Toluene*	<0.050	0.050	12/20/2012	ND	2.07	104	2.00	1.83	
Ethylbenzene*	< 0.050	0.050	12/20/2012	ND	1.99	99.4	2.00	1.87	
Total Xylenes*	<0.150	0.150	12/20/2012	ND	5.98	99.7	6.00	1.51	
Total BTEX	<0.300	0,300	12/20/2012	ND .					
Surrogate: 4-Bromofluorobenzene (PIC	116%	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/l	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	12/19/2012 ND		432	108	400	0.00	
TPH 8015M	mg/l	(g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/19/2012	ND	184	92.1	200	0.0933	
DRO >C10-C28	<10.0	10.0	12/19/2012	ND	202	101	200	2.20	
EXT DRO >C28-C35	<10.0	10.0	12/19/2012	ND			•	·	
Surrogate: 1-Chlorooctane	85.1 %	65.2-140)						
Surrogate: 1-Chlorooctadecane	93.4 %	63.6-154	ı		•				

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Celent Keine



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

Lovington NM, 88260

Fax To:

(575) 396-1429

Received:

12/14/2012

Sampling Date:

12/12/2012

Reported:

12/20/2012

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

Project Number:

INDIAN FLATS BASS FEDERAL SWD

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN EDDY CO., NM

Sample ID: SB - 7 @ 20' (H203013-33)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	12/20/2012	ND	432	108	400	0.00	

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Celey D. Keene



Analytical Results For:

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

Received:

12/14/2012

Reported: 12/20/2012

Project Name: Project Number: Project Location: **INDIAN FLATS BASS FEDERAL SWD** NONE GIVEN

EDDY CO., NM

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

12/12/2012

Soil

Cool & Intact

Jodi Henson

Sample ID: SB - 7 @ 30' (H203013-34)

BTEX 8021B	mg/	kg	Analyz	ed By: AP					
Analyte	Result	Reporting Limit	, Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2012	ND	1.94	96.8	2.00	2.01	
Toluene*	<0.050	0.050	12/20/2012	ND	2.07	104	2.00	1.83	
Ethylbenzene*	<0.050	0.050	12/20/2012	ND	1.99	99.4	2.00	1.87	
Total Xylenes*	<0.150	0.150	12/20/2012	ND	5.98	99.7	6.00	1.51	
Total BTEX	<0.300	0.300	12/20/2012	ND					
Surrogate: 4-Bromofluorobenzene (PIL	116%	6 89.4-12	б						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	ed Method Blank		% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	12/20/2012 ND		432	108	400	0.00	
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/19/2012	ND	184	92.1	200	0.0933	
DRO >C10-C28	<10.0	10.0	12/19/2012	ND	202	101	200	2.20	
EXT DRO >C28-C35	<10.0	10.0	12/19/2012	ND					
Surrogate: 1-Chlorooctane	83.3 %	65.2-140)			·			
Surrogate: 1-Chlorooctadecane	95.2 %	63.6-154	t .						

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*=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 falains, including those for angligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) lays after completion of the applicable service. In no event shall Cardinal be hable for incidental or consequential damages including, without limitation, bisiness 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 exercises hereinee by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Keene



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

Fax To:

(575) 396-1429

Received:

12/14/2012

Sampling Date:

12/12/2012

Reported:

12/20/2012

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Project Location:

Analyte

Analyte

Analyte

Analyte

EDDY CO., NM

Jodi Henson

Sample ID: SB - 7 @ 40' (H203013-35)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

BS

% Recovery True Value QC RPD Qualifier

Chloride

Result 368

Reporting Limit 16.0

Analyzed 12/20/2012 Method Blank ND

432

400

0.00

Sample ID: SB - 7 @ 50' (H203013-36)

Chloride, SM4500CI-B

Analyzed By: HM

Chloride

GRO C6-C10

DRO >C10-C28

EXT DRO >C28-C35

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

Result 704

Reporting Limit Analyzed 16.0 12/20/2012 Method Blank ND

8S 432 % Recovery 108

% Recovery

108

92.1

101

108

True Value QC 400

RPD

Qualifier

Qualifier

Sample ID: SB - 7 @ 60' (H203013-37)

Chloride, SM4500CI-B

Analyzed By: HM Method Blank

BS

BS

184

202

0.00

RPD Qualifier

Reporting Limit Analyzed Chloride 576 16.0 12/20/2012 **TPH 8015M** mg/kg

Result

<10.0

<10.0

<10.0

Result

Analyzed By: MS

Analyzed

12/19/2012

12/19/2012

12/19/2012

ND

432

400

True Value QC

0.00

Method Blank

ND

ND

ND

% Recovery

True Value QC

200

200

RPD

0.0933

2.20

83.5 % 92.7 %

65.2-140 63.6-154

Reporting Limit

10.0

10.0

10.0

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keere

Celey D. Keene, Lab Director/Quality Manager

Page 25 of 31



Analytical Results For:

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

Received:

12/14/2012

Reported: Project Name: 12/20/2012

INDIAN FLATS BASS FEDERAL SWD

Project Number: Project Location: NONE GIVEN

EDDY CO., NM

Sampling Date:

Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

12/12/2012

Sample ID: SB - 7 @ 65' (H203013-38)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2012	ND	1.94	96.8	2.00	2.01	
Toluene*	< 0.050	0.050	12/20/2012	ND	2.07	104	2.00	1.83	
Ethylbenzene*	<0.050	,		ND	1.99	99.4	2.00	1.87	
Total Xylenes*	<0.150	150 0.150 12/		ND	5.98	99.7	6.00	1.51	•
Total BTEX	<0.300	0.300	12/20/2012	ND					
Surrogate: 4-Bromofluorobenzene (PIC	117 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	12/20/2012	ND	432	108	400	0.00	
TDH 8015M	ma/	ka .	Analyzo	l Rv: MC					

Chloride, SM4500CI-B	mg.	/kg	Analyze	а ву: нм					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	12/20/2012	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/19/2012	ND	184	92.1	200	0.0933	
DRO >C10-C28	-C28 <10.0 10.0		12/19/2012	ND	202	101	200	2.20	
EXT DRO >C28-C35	<10.0	10.0	12/19/2012	ND					

Surrogate: 1-Chlorooctane

78.8 %

65.2-140

Surrogate: 1-Chlorooctadecane

86.9 %

63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celent Kiena

Celey D. Keene, Lab Director/Quality Manager

Page 26 of 31



ND

Notes and Definitions

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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

*=Accredited Analyte

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

Celeg & Keena



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(373) 333-2320 TAX (373) 333-247		BUL TO				ANALVE	e peour	CT	
Company maine	Basin Environmental Service 1	Technologies, LLC	BILL TO	,,-			ANALYSI	S KEUUL	31	
Project Manage	C Ben J. Arouijo		P.O. #:	1 1		- }		1 1	1 1	1
Address: P.O.	. Box 301	Million produce 3 - as "Model" in days or required out of designation to 2 finance complete spaces.	Company: BOFCO, LP		ļ	ł		1 1		
City: Lovingt:	on State: NM	Zip: 88260	Attn: Cony Savoie	1	- [1		1 1	1 1	
Phone #: (575	396-2378 Fax #: (575) 3	96-1429	Address: 522 W. Nermod		1	1	1 1	1 1	} }	1
Project #:	Project Owner	: BC/PCO, I,P	City: Carlsbad	1	- {	1	{ }		1 1	
Project Name:	Indian Flats Bass Federal SWD		State: IIM Zip: 89228	1	- 1			{	1 1	
Project Location	n: Bddy Co., NM		Phone #: (432) 556-8730		- {	- {		1 1	1 1	
Sampler Name:	Ben J. Arguijo		Fax #:	 -	~ 1	}	1 1	1 1		1 1
FOR LASTUSE ONLY		MATRIX	PRESERV SAMPLING	1	€	Ì				} }
Lab I.D.	Sample I.D.	(G)RAB OR (C)ON # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER . ACIDIBASE ICE / COO. OTHER :		TPH (801511)	87EA				
1	SB-3 (Bully rund) & Suface	6 X	X 12/12/12 1000	X	L					
	SB-3 (Buckground) & Suface SB-3 (Background) & 5' SB-3 (Background) & 10'		1005		\mathbf{x}					
لفر	3B-3 (BACKGROUND) P10'		10/0		X	x				_
Li	58-3 (Buckground) @ 15'		1015							
5	3B-3 (Background) P 201		000			1				
.	SB-3 (BACK ground) P 25'		1025			ŀ				
1	5B-4@Surface		1100	111	` }	m A				
60	SB-485'		1105		x					
	3B-4B D		1110		X	X				
\overline{v}	5B-4P 26'	VV	1120			i				
PLEASE NOTE: LIBERY	ind Damages. Cardinalis Lability and identify exclusive remoty for	any claim arts in all elines based in contra	ct of tort, shall be larried to the enjourt plea by the client to	or the						

Processed from the compage Contracts and any artifacts recovered from any and applied to the analysis of the contract of the c

		at ingaintess of unertien soci chân in baneo apon any of my movie sinteo	THE SOME OF TATABAGE	· · · · · ·			
Relinquished By:	Date: / / Re	eceived By:	Phone Result:	🗆 Yes	□ No	'Add'i Phone #:	<u> </u>
1111	12/14/14	μ_{a} $(1, 1, 2, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,$	Fax Result:	☐ Yes	□ No	Add'I Fax #:	
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Relinguished By:	Date: Re	eceived By:					
154 1/	1 232031134	$\mathcal{A}_{L} = l_{L} + \mathcal{B}_{L} + \mathcal{A}_{L}$, $\mathcal{A}_{L} = l_{L}$					
7//9 4/5/	Time: ~	ひた ベナー・ぜきあげがれ	1				
1/1/20-1-1	1 1.2 1 1		. Plea	se emai.	l resul	its to pm@basinenv.c	con.
Delivered By: (Circle One)		Sample Condition CHECKED BY:	0.75	savoiesi	1000000	· .com	
1		Cool Intact (Initials)	1	54101681	odaafe.		
Sampler - UPS - Bus - Other:		☐ Yes ☐ Yes	ı				
		No No	· l				

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 Tachnologies, Lic		BILL TO		ANALYS	SIS REQUEST	
Project Manager: Ben J. Arguijo		P.O. #:				
Address: P.O. Sox 301		Company: EOPCO, LP				
City: Lovington State: NM Zi	p: 86250	Attn: Tony Savole				
Phone #: (575) 396~2378 Fax #: (575) 396~	-1429	Address: 522 W. Mermod				
Project #: Project Owner: 3	೧೯೮೦, ೬೯	City: Carlsbad				
Project Name: Indian Flacs Bass Federal SWD		State: HM Zip: 88220				
Project Location: Eddy Co., NM		Phone #: (432) 556-8730				
Sampler Name: Ben մ. Arguijo		Fax #:				
FOR LAB USE ONLY	MATRIX	PRESERV SAMPLING				
Lab I.D. Sample I.D. 영향 (1) 58-4 630' 6	WAN	ACID/BASE- ICE / COOL OTHER.	CHloride TPH (805M	WA10		,
11 SB-4 B30' G	- <u> </u>	X 10/p/12 1130	XXX			
12 58-4840		1140				
3 SB-4050' 14 SB-4655'		1150	<u> </u>			
14 SB-4@55'	-	1155				
15 SB-5 P Surface		1245	-			
16 SB-505'		1250	-			
11 515-5 @ 10 80 5B-5@ 15		1255		_		
19 5B-5 P 2D'	 	1300		<u> </u>		
7C 38-5 @ 30'		1305	J x x			

PIEASE (IOTS: Liability and Damages, Calamais leadity and clerify exclusive remote for any claim aiming whether based in terms of the amount paid by the clerify the analyses. All chines including those for negligence and any other cause whatcover shall be determed whether missing and received by forther which a days after completion of the posturate service. In no event shall Carteria politics for including whit such financials and whether the properties and the properties and the properties and the properties are described by medicals or consequently damages, including without financials.

affiliates or successors arising out of or related to the performance	e of services hereunder by Caracial recardless of whether such damma based Loan any of the bot	ove stated rassons of otherwise.
Relinquished By:	Date: / / Received By: / /	Phone Result: El Yes E No Add'l Phone #:
	1 12/19/12 11/11 11-61	Fax Result: D Yes D No Add'l Fax #:
	Time: 1405 Marie Marie	REMARKS:
Relinguished By:	Date:	
All a 11 al	1111 111 111 111 1111 1111 1111	,
1 / hard & Non a	Time; Time; Time;	
	1 100.00	Please email results to pnwbasinenv.com
Delivered By: (Circle One)	Sample Condition CHECKED	DBY: & TASAVOLESBASEPET, COR
1 11	Cool Intact (Initials	5)
Sampler - UPS - Bus - Other:	上 ② Yes ② Yes / 方流方	•
	· G- No No L GT (No	

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Mariand, Hobbs, NM 88240 1575) 393-2326 FAX (575) 393-2476

	Basin Environmental Service		logies, LLC	BILL TO				ANALY	SIS RE	QUEST	<u> </u>		
Project Manager	Ben J. Arquito			P.O. #:									
Address: P.C.				Company: SOFCO, LP			l		1	1 1	1		
City: Lavingso	л State: NM	Zip: 3	8260	Attn: Tony Savoie					Ì		ł		
Phone #: (575)	396~2378 Fax # : (575) 3	96-140	9	Address: 522 W. Mermod			1		1		Ì		
Project #:	Project Owne	r: BOPC	O.LP	City: Carlsbad					1		ł		
Project Name:	Indian Flats Bass Federal SWI)		State: NM Zip: 86220]		1		1		İ		
Project Location	: Eddy Co., NM			Phone #: (432)556-8730					1	1 1	-	1	
Sampler Name:	ampler Name: Sen J. Arguija			Fax #:				1 1	j		}		
FOR LAB USE ONLY			MATRIX	PRESERV SAMPLING	_	111							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OM # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER. OTHER OTHER SMIT	Chloride	TAH (801571)	N318						
31	5B-5 € 45'	61	X	X 10/10/10 133U		X							
772 773	3B-5 Q 45' 3B-5 Q 50'	444		1335		X	K						
73	SB-60 Surface	- - -	<u> </u>	1400]	
94 25)	5B-6@5' 5B-6@10'	1111	1-1-4-1	1405						 			
1 - 27	36-6 610		1	1410		X	-			I			
<u> </u>	3B-6 8 15'	- - - -	. 	14/5		X	_X_ -			 -]
71. 31. 75	SB-6 8 25'	-{-}}-{	1	1425								.	ļ
7251	58-6840'	-{{-}}	 	1435		X	K			 -			<u> </u>
Fil.	SB-7 A Surface			1500									

analyses. At classic including those for negligence and any other couse whichsever shall be deemed waved unless made in writing and received by Cardinal within 30 days after completion of the applicable. whole. In its event what Calculation father for exceptions or consequental danning-s, enthaling extends for except most require actions, loss of use, or fold of profits incurred by client. To submission of exercise the extended of the ext

÷	transport processors around our crim released to the benefitted	CE BESTELLAS DE EXPLORE DE CARGADE. COM LOSS DE AMBIENT MODE CONTENT DEPART DON 11 DE MONTE DITERE	: Phitogs of Atheradae
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١	111	19/19/14	Fax Result: Yes No Add'l Fax #:
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١	1/www.ilan	- Timp: -1921 11 1/1 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/	
Ì			Flease email results to pumphasinenv.com
1	Delivered By: (Circle One)	// Sample Condition CHECKED BY:	
Ì	• •	Cool Intact (Initials)	& TAsavole@BassPet.com
1	Sampler - UPS - Bus - Other:	Divas III vas	
1	Jani, in a contract of the con		1
		No No	



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Basin Environmental Service Technologies, LLC				7	T. BILL TO					ANALYSIS REQUEST							CO. ACT. TO ACCOUNT	CONTRACT CONTRACT				
Company Maine	Basin Environmental Service (rech	noi	ogies, LuC		Marie Committee	March Committee	Ests.	10		7	~~~~	~~~	·	HNAI	1013	KE	UUE	٥ı 	ottom was		-
Project Manage	^H Ben J. Arguijo		***************************************			P.O. #	! :			····	1											
Address: P.O.	Box 301		ida aya ida mita	agina an anna an anna an anna anna anna	(omp	any:	воес	0, L	7												
City: Lovingto	on State: NM	Zip:	88	360		kttn:	Tony	/ Sa	voie													
Phone #: (575)	396-2376 Fax #: (575) 39	6-1	429	<u> </u>		ddre	ss: 52	23 W	. Mei	moci												
Project #:	Project Owner	: BO	PCO	,LP		ity:	Carls	bad]			
Project Name:	Indian Flats Bass Federal SWD		******		5	tate:	NM	Zìp:	8822	C												
Project Location	n: Eddy Co., NM				F	hone	a#: (4)	3,2) 5	56-81	30	l											
Sampler Name:	mpler Name: Beh J. Arguljo			F	Fax #:				J													
FOR LÁB ÚSE ONLY				MATRI	X.	PR	ESERV	S	AMPL	NG]	ISM				1						
Lab I.D. 日2030译	Sample I.D.	(G)RABOR (C)OMF	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	SLUDGE	ACID/BASE	ICE / COOL OTHER .	D	ATE	TIME	Chloride	7014 (8010	BTEN									
3	5B-7 85'	6	1	X		1	X	12/	12/12	1505	X	X										
32	SB-7810'								T	1510		X	K									
33	_SB · 7. @ 20'									1500												
31 32 33 33 34	5B-7P 30'									1530		X	X									
35	5B-7B 40'									1540				manga - andronoma androno								
36	SB-7850'									1550	[)				************					***************************************		
	SB-7860'	Ш	4	_						1600]_/_	<u> </u>			~							
38	5B-7865'	V	М	_		_ _	V		<u>V_</u>	1605	LV_	_X_	K							~~~		
					-			<u> </u>														
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FLEASE NOTE: Entitly and Damages. Cordinate liability and clearity exchange remedy for any stain arring method based in contract or for, shall be trimited to the amount pold by the creat for the analyses. As claims, including those for negligence and any other cause whatspower shall be seemed warved unless made in writing and received by Cardinal within 30 days after completion of the applicable service, in no event shall be retired to incidents or consequential damages, incidently whose timestory interruptions, less of use, or took of the interruption defaults included by Cardinal admages, incidently whose timestory interruptions, less of use, or took of the interruption defaults.

affiliates or succeits are arising out of or related to the performance of	t services hereunder by Carrinal regardless of whether such claim is based Uppa any of the above stated re	ersons or othervise.
Relinguished By:	Date:: / / Received By:	Phone Result: ' Yes No Add'l Phone #:
	12/14/12 1/11/12	Fax Result:
	Time: 1405 Mand Nove	REMARKS:
Mul Kn	Time; 5 mg MML MMLON	Please email results to pm@basinenv.com
Delivered By: (Circle One)	Sample Condition CHECKED BY:	& TAsavole@BassPet.com
Sampler - UPS - Bus - Other;	Cool Intact (Initials)	

•

1



June 11, 2013

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: INDIAN FLATS BASS FEDERAL SWD

Enclosed are the results of analyses for samples received by the laboratory on 06/04/13 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited 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.

Celeg & Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To:

Received:

06/04/2013

Sampling Date:

05/31/2013

Reported:

06/11/2013

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

EDDY CO., NM

Sample Received By:

Jodi Henson

Sample ID: SB-8 @ 5' (H301305-01)

BTEX 8021B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2013	ND	1.88	93.9	2.00	7.29	
Toluene*	<0.050	0.050	06/10/2013	ND	1.95	97.6	2.00	9.07	
Ethylbenzene*	<0.050	0.050	06/10/2013	ND	2.03	101	2.00	10.9	
Total Xylenes*	<0.150	0.150	06/10/2013	ND	6.14	102	6.00	10.9	
Total BTEX	<0.300	0.300	06/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 9	% 89.4-12	6			····			
Chloride, SM4500CI-B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	06/10/2013	ND	416	104	400 .	3.77	
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	06/05/2013	ND	212	106	200	3.07	
DRO >C10-C28	17.4	10.0	06/05/2013	ND	222	111	200	3.64	
EXT DRO >C28-C35	15.5	10.0	06/05/2013	ND					
Surrogate: 1-Chlorooctane	109 %	65.2-140	7						
Surrogate: 1-Chlorooctadecane	116%	63.6-15-							

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

Fax To:

(575) 396-1429

Received:

06/04/2013

Sampling Date:

05/31/2013

Reported:

06/11/2013

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

EDDY CO., NM

Sample Received By:

Jodi Henson

Sample ID: SB-8 @ 10' (H301305-02)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2013	ND	1.88	93.9	2.00	7.29	
Toluene*	<0.050	0.050	06/10/2013	ND	1.95	97.6	2.00	9.07	
Ethylbenzene*	<0.050	0.050	06/10/2013	ND	2.03	101	2.00	10.9	
Total Xylenes*	< 0.150	0.150	06/10/2013	ND	6.14	102	6.00	10.9	
Total BTEX	<0.300	0.300	06/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	06/10/2013	ND	416	104	400	3.77	
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	06/05/2013	ND	212	106	200	3.07	
DRO >C10-C28	<10.0	10.0	06/05/2013	ND	222	111	200	3.64	
EXT DRO >C28-C35	<10.0	10.0	06/05/2013	ND					
Surrogate: 1-Chlorooctane	115 9	% 65.2-14	0						
Surrogate: I-Chlorooctadecane	126 9	% 63.6-15	4						

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06/04/2013

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05/31/2013

MANY STREET, THE COURSE OF THE STREET,
Reported:

06/11/2013

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY CO., NM

Sample ID: SB-8 @ 25' (H301305-03)

BTEX 8021B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2013	ND	1.88	93.9	2.00	7.29	
Toluene*	<0.050	0.050	06/10/2013	ND	1.95	97.6	2.00	9.07	
Ethylbenzene*	<0.050	0.050	06/10/2013	ND	2.03	101	2.00	10.9	
Total Xylenes*	<0.150	0.150	06/10/2013	ND	6.14	102	6.00	10.9	
Total BTEX	<0.300	0.300	06/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIC	105 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	06/10/2013	ND	416	104	400	3.77	
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	06/05/2013	ND	212	106	200	3.07	
DRO >C10-C28	11.7	10.0	06/05/2013	ND	222	111	200	3.64	
EXT DRO >C28-C35	10.2	10.0	06/05/2013	ND					
Surrogate: 1-Chlorooctane	98.4 %	65.2-140	0						
Surrogate: 1-Chlorooctadecane	104%	63.6-15-	<i>‡</i>						

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Fax To:

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Received:

06/04/2013

Sampling Date:

05/31/2013

Reported:

06/11/2013

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

Analyte

EDDY CO., NM

Sample Received By:

Jodi Henson

Sample ID: SB-8 @ 40' (H301305-04)

mg/kg

Analyzed By: DW

Result

Analyzed

Method Blank

BS % Recovery

104

True Value QC

RPD

Qualifier

Chloride

672

Reporting Limit 16.0

06/10/2013

ND

416

400

3.77

Sample ID: SB-8 @ 55' (H301305-05)

Chloride, SM4500CI-B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	06/10/2013	ND	416	104	400	3.77	

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Celeg & Kuns

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 30



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Received:

06/04/2013

Reported: Project Name: 06/11/2013

INDIAN FLATS BASS FEDERAL SWD

Project Number: Project Location: NONE GIVEN EDDY CO., NM Sampling Date:

Sampling Type:

Soil Sampling Condition:

Sample Received By:

Cool & Intact

05/31/2013

Jodi Henson

Sample ID: SB-8 @ 65' (H301305-06)

BTEX 8021B	mg/	kg	Analyze	ed By: AP		·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2013	ND	1.88	93.9	2.00	7.29	
Toluene*	<0.050	0.050	06/10/2013	ND	1.95	97.6	2.00	9.07	
Ethylbenzene*	< 0.050	0.050	06/10/2013	ND	2.03	101	2.00	10.9	
Total Xylenes*	< 0.150	0.150	06/10/2013	ND	6.14	102	6.00	10.9	
Total BTEX	<0.300	0.300	06/10/2013	ND				•	
Surrogate: 4-Bromofluorobenzene (PIL	106%	6 89.4-12	6			······································			
Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/10/2013	ND	416	104	400	0.00	
TPH 8015M	mg/i	(9	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	06/05/2013	ND	212	106	200	3.07	
DRO >C10-C28	<10.0	10.0	06/05/2013	ND	222	111	200	3.64	
EXT DRO >C28-C35	<10.0	10.0	06/05/2013	ND					
Surrogate: 1-Chlorooctane	104 %	65.2-140)	·					
Surrogate: 1-Chlorooctadecune	109 %	63.6-15-	1	•					

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Fax To:

Received:

06/04/2013

Reported:

06/11/2013

Project Name: Project Number: INDIAN FLATS BASS FEDERAL SWD

Reporting Limit

NONE GIVEN

Result

Project Location:

Analyte

EDDY CO., NM

Sampling Date:

Sampling Type:

05/31/2013 Soil

True Value QC

Sampling Condition:

Cool & Intact

Sample Received By:

% Recovery

Jodi Henson

RPD

Qualifier

Sample ID: SB-8 @ 70' (H301305-07)

BTEX	8021B
-------------	-------

Analyzed By: AP

Method Blank

Analyzed

Benzene*	<0.050	0.050	06/10/2013	ND	1.88	93.9	2.00	7.29	
Toluene*	<0.050	0.050	06/10/2013	ND	1.95	97.6	2.00	9.07	
Ethylbenzene*	<0.050	0.050	06/10/2013	ND	2.03	101	2.00	10.9	
Total Xylenes*	<0.150	0.150	06/10/2013	ND	6.14	102	6.00	10.9	
Total BTEX	<0.300	0.300	06/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 %	6 89.4-12	6				- 1		
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	06/10/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
TPH 8015M Analyte	mg/ Result	kg Reporting Limit	Analyze Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
				·	BS 212	% Recovery	True Value QC 200	RPD 3.07	Qualifier
Analyte	Result	Reporting Limit	Analyzed	Method Blank		,	·		Qualifier
Analyte GRO C6-C10	Result <10.0	Reporting Limit	Analyzed 06/06/2013	Method Blank	212	106	200	3.07	Qualifier
Analyte GRO C6-C10 DRO >C10-C28	Result <10.0 13.2	Reporting Limit 10.0 10.0 10.0	Analyzed 06/06/2013 06/06/2013 06/06/2013	Method Blank ND ND	212	106	200	3.07	Qualifier

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Analytical Results For:

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

Fax To:

(575) 396-1429

Received: Reported: 06/04/2013

06/11/2013

Project Name: Project Number: INDIAN FLATS BASS FEDERAL SWD

NONE GIVEN

Project Location:

EDDY CO., NM

Sampling Date:

Sampling Type:

05/31/2013

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SB-9 @ 5' (H301305-08)

BTEX 8021B	mg,	/kg	Analyz	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2013	ND	1.88	93.9	2.00	7.29	
Toluene*	<0.050	0.050	06/10/2013	ND	1.95	97.6	2.00	9.07	
Ethylbenzene*	<0.050	0.050	06/10/2013	ND	2.03	101	2.00	10.9	
Total Xylenes*	< 0.150	0.150	06/10/2013	ND	6.14	102	6.00	10.9	
Total BTEX	<0.300	0.300	06/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	06/10/2013	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	06/06/2013	ND	212	106	200	3.07	
DRO >C10-C28	<10.0	10.0	06/06/2013	ND	222	111	200	3.64	
EXT DRO >C28-C35	<10.0	10.0	06/06/2013	ND					
Surrogate: 1-Chlorooctane	107 %	65.2-140)						
Surrogate: 1-Chlorooctadecane	109 %	63.6-15-	1						

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06/04/2013

Sampling Date:

05/31/2013

Reported:

Sampling Type:

Soil

Project Name:

06/11/2013

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

EDDY CO., NM

INDIAN FLATS BASS FEDERAL SWD

Sample Received By:

Jodi Henson

Sample ID: SB-9 @ 10' (H301305-09)

BTEX 8021B	mg,	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2013	ND	1.88	93.9	2.00	7.29	
Toluene*	<0.050	0.050	06/10/2013	ND	1.95	97.6	2.00	9.07	
Ethylbenzene*	<0.050	0.050	06/10/2013	ND	2.03	101	2.00	10.9	
Total Xylenes*	<0.150	0.150	06/10/2013	ND	6.14	102	6.00	10.9	
Total BTEX	<0.300	0.300	06/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	06/10/2013	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	06/06/2013	ND	212	106	200	3.07	
DRO >C10-C28	<10.0	10.0	06/06/2013	ND	222	111	200	3.64	
EXT DRO >C28-C35	<10.0	10.0	06/06/2013	ND					
Surrogate: 1-Chlorooctane	110 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	108 9	% 63.6-15	4						

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Analytical Results For:

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Fax To: (575) 396-1429

Received:

06/04/2013

Sampling Date:

05/31/2013

Reported:

06/11/2013

Sampling Type:

Soil

Cool & Intact

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY CO., NM

Sample ID: SB-9 @ 25' (H301305-10)

Chloride, SM4500Cl-B mg/kg			Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	06/10/2013	ND	416	104	400	0.00	

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Sampling Date:

05/31/2013

Reported:

06/11/2013

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY CO., NM

Sample ID: SB-9 @ 45' (H301305-11)

BTEX 8021B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2013	ND	1.88	93.9	2.00	7.29	
Toluene*	<0.050	0.050	06/10/2013	ND	1.95	97.6	2.00	9.07	
Ethylbenzene*	<0.050	0.050	06/10/2013	ND	2.03	101	2.00	10.9	
Total Xylenes*	<0.150	0.150	06/10/2013	ND	6.14	102	6.00	10.9	
Total BTEX	<0.300	0.300	06/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	06/10/2013	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	06/06/2013	ND	212	106	200	3.07	
DRO >C10-C28	<10.0	10.0	06/06/2013	ND	222	111	200	3.64	
EXT DRO >C28-C35	<10.0	10.0	06/06/2013	ND					
Surrogate: 1-Chlorooctane	107	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	107	% 63.6-15	4						

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Celey D. Keine



Analytical Results For:

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

Fax To:

(575) 396-1429

Received:

06/04/2013

Sampling Date:

05/31/2013

Reported:

06/11/2013

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY CO., NM

Sample ID: SB-9 @ 60' (H301305-12)

BTEX 8021B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2013	ND	1.88	93.9	2.00	7.29	
Toluene*	<0.050	0.050	06/10/2013	ND	1.95	97.6	2.00	9.07	
Ethylbenzene*	<0.050	0.050	06/10/2013	ND	2.03	101	2.00	10.9	
Total Xylenes*	<0.150	0.150	06/10/2013	ND	6.14	102	6.00	10.9	
Total BTEX	<0.300	0.300	06/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIC	106%	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2100	16.0	06/10/2013	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	06/06/2013	ND	212	106	200	3.07	
DRO >C10-C28	<10.0	10.0	06/06/2013	ND	222	111	200	3.64	
EXT DRO >C28-C35	<10.0	10.0	06/06/2013	ND					

Surrogate: 1-Chlorooctane

109 %

65.2-140

Surrogate: 1-Chlorooctadecane

114%

63.6-154

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Celey & Keens

Celey D. Keene, Lab Director/Quality Manager

Page 12 of 30



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

Fax To:

Received:

06/04/2013

Sampling Date:

05/31/2013

Reported:

06/11/2013

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY CO., NM

Sample ID: SB-9 @ 75' (H301305-13)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2013	ND	1.88	93.9	2.00	7.29	
Toluene*	<0.050	0.050	06/10/2013	ND	1.95	97.6	2.00	9.07	
Ethylbenzene*	<0.050	0.050	06/10/2013	ND	2.03	101	2.00	10.9	,
Total Xylenes*	<0.150	0.150	06/10/2013	ND	6.14	102	6.00	10.9	
Total BTEX	<0.300	0.300	06/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIE	106	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	06/10/2013	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	06/06/2013	ND	214	107	200	5.56	
DRO >C10-C28	<10.0	10.0	06/06/2013	ND	220	110	200	4.61	
EXT DRO >C28-C35	<10.0	10.0	06/06/2013	ND					
Surrogate: 1-Chlorooctane	100	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	106	% 63.6-15	4						

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Analytical Results For:

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

Fax To:

(575) 396-1429

Received:

06/04/2013

Reported:

06/11/2013

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Project Number: Project Location:

NONE GIVEN

EDDY CO., NM

Sampling Date:

05/31/2013

Sampling Type:

Soil

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

Sample ID: SB-9 @ 85' (H301305-14)

Chloride, SM4500Cl-B

mg/k

Analyzed By: DW

Analyte

Result

Analyzed

Method Blank

BS % Recovery

True Value QC 400 RPD

Chloride

Chloride

Chloride

800

Result

512

Result

512

Reporting Limit 16.0

Reporting Limit

16.0

Reporting Limit

16.0

06/10/2013

Analyzed

06/10/2013

ND

416

104

0.00

0.00

RPD

0.00

Qualifier

Oualifier

Sample ID: SB-9 @ 95' (H301305-15)

Sample ID: SB-9 @ 100' (H301305-16)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: DW

Method Blank

ND

BS 416

% Recovery

True Value QC 400

RPD

Analyte

Analyte

Chloride, SM4500CI-B

ma/k

Analyzed By: DW

Analyzed 06/10/2013

Method Blank ND BS 416 % Recovery

True Value QC 400 Qualifier

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Celey D. Keene, Lab Director/Quality Manager

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

Fax To: (575) 396-1429

Received:

06/04/2013

Sampling Date:

05/31/2013

Reported:

Sampling Type:

Soil

06/11/2013

Sampling Condition:

Cool & Intact

Project Name: Project Number:

NONE GIVEN

INDIAN FLATS BASS FEDERAL SWD

Sample Received By:

Jodi Henson

Project Location:

EDDY CO., NM

112%

63.6-154

Sample ID: SB-9 @ 105' (H301305-17)

BTEX 8021B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2013	ND	1.88	93.9	2.00	7.29	
Toluene*	<0.050	0.050	06/10/2013	ND	1.95	97.6	2.00	9.07	
Ethylbenzene*	<0.050	0.050	06/10/2013	ND	2.03	101	2.00	10.9	
Total Xylenes*	<0.150	0.150	06/10/2013	ND	6.14	102	6.00	10.9	
Total BTEX	<0.300	0.300	06/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIC	107 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	06/10/2013	ND	416	104	400	0.00	
ТРН 8015М	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/06/2013	ND	214	107	200	5.56	
DRO >C10-C28	<10.0	10.0	06/06/2013	ND	220	110	200	4.61	
EXT DRO >C28-C35	<10.0	10.0	06/06/2013	ND					
Surrogate: I-Chlorooctane	103 %	65.2-14	0						

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Surrogate: 1-Chlorooctadecane

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Fax To:

(575) 396-1429

Received:

BTEX 8021B

06/04/2013

06/11/2013

Sampling Date:

05/31/2013

Reported:

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY CO., NM

Sample ID: SB-9 @ 110' (H301305-18)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2013	ND	1.88	93.9	2.00	7.29	
Toluene*	<0.050	0.050	06/10/2013	ND	1.95	97.6	2.00	9.07	
Ethylbenzene*	<0.050	0.050	06/10/2013	· ND	2.03	101	2.00	10.9	
Total Xylenes*	< 0.150	0.150	06/10/2013	ND	6.14	102	6.00	10.9	
Total BTEX	<0.300	0.300	06/10/2013	ИĎ					
Surrogate: 4-Bromofluorobenzene (PIE	105 9	% 89.4-12	6 .						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW					
. Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	06/10/2013	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	06/06/2013	ND	214	107	200	5.56	
DRO >C10-C28	<10.0	10.0	06/06/2013	ND	220	110	200	4.61	,
EXT DRO >C28-C35	<10.0	10.0	06/06/2013	ND					

Analyzed By: AP

Surrogate: 1-Chlorooctadecane

Surrogate: 1-Chlorooctane

63.6-154

65.2-140

102 %

110%

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

Fax To:

(575) 396-1429

Received:

06/04/2013

Sampling Date:

06/03/2013

Reported:

06/11/2013

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY CO., NM

Sample ID: SB-10 @ 5' (H301305-19)

BTEX 8021B	mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2013	ND	1.88	93.9	2.00	7.29	
Toluene*	<0.050	0.050	06/10/2013	ND	1.95	97.6	2.00	9.07	
Ethylbenzene*	<0.050	0.050	06/10/2013	ND	2.03	101	2.00	10.9	
Total Xylenes*	<0.150	0.150	06/10/2013	ND	6.14	102	6.00	10.9	
Total BTEX	<0.300	0.300	06/10/2013	ND					
Surrogaie: 4-Bromofluorobenzene (PIL	106 9	% 89.4-12	26						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	06/10/2013	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	06/06/2013	ND	214	107	200	5.56	
DRO >C10-C28	<10.0	10.0	06/06/2013	ND	220	110	200	4.61	
EXT DRO >C28-C35	<10.0	10.0	06/06/2013	ND					٠
Surrogate: 1-Chlorooctane	104 5	% 65.2-14	10		·				, ,,
Surrogate: 1-Chlorooctadecane	111 9	% 63.6-15	4						

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Celey D. Keine



Analytical Results For:

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

Fax To:

Received:

06/04/2013

Sampling Date:

06/03/2013

Reported:

Sampling Type:

Project Name:

06/11/2013

Soil Cool & Intact

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY CO., NM

Sample ID: SB-10 @ 10' (H301305-20)

BTEX 8021B	mg,	'kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2013	ND	1.88	93.9	2.00	7.29	*
Toluene*	<0.050	0.050	06/10/2013	ND	1.95	97.6	2.00	9.07	
Ethylbenzene*	<0.050	0.050	06/10/2013	ND	2.03	101	2.00	10.9	
Total Xylenes*	<0.150	0.150	06/10/2013	ND	6.14	102	6.00	10.9	
Total BTEX	<0.300	0.300	06/10/2013	ND	٠				
Surrogate: 4-Bromofluorobenzene (PIL	108 9	% 89.4-12	6						·
Chloride, SM4500CI-B	mg/	kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7440	16.0	06/10/2013	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	06/06/2013	ND	214	107	200	5.56	
DRO >C10-C28	<10.0	10.0	06/06/2013	ND	220	110	200	4.61	
EXT DRO >C28-C35	<10.0	10.0	06/06/2013	ND					
Surrogate: 1-Chlorooctane	96.8 9	6 65.2-140)	· · · · · · · · · · · · · · · · · · ·					
Surrogate: 1-Chlorooctadecane	101 %	63.6-15-	;						

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

Received:

06/04/2013

Sampling Date:

06/03/2013

Reported:

06/11/2013

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

bamping condition.

Cool & Intact

Project Location:

Analyte

EDDY CO., NM

Sample Received By:

Jodi Henson

Sample ID: SB-10 @ 25' (H301305-21)

Chloride, SM4500CI-B

mg/kg

Analyzed By: DW

Result

704

Reporting Limit 16.0 Analyzed 06/10/2013

Method Blank ND BS 416 % Recovery 104

True Value QC 400 RPD

0.00

Qualifier

Chloride

Sample ID: SB-10 @ 40' (H301305-22)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	06/10/2013	ND	416	104	400	0.00	

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Celey D. Keine



Analytical Results For:

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

Fax To:

Analyzed By: AP

Received:

06/04/2013

Sampling Date:

06/03/2013

Reported:

BTEX 8021B

06/11/2013

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Project Location:

EDDY CO., NM

104%

112%

65.2-140

63.6-154

Jodi Henson

Sample ID: SB-10 @ 50' (H301305-23)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	06/10/2013	ND	1.88	93.9	2.00	7.29	
Toluene*	<0.050	0.050	06/10/2013	ND	1.95	97.6	2.00	9.07	
Ethylbenzene*	<0.050	0.050	06/10/2013	ND	2.03	101	2.00	10.9	
Total Xylenes*	< 0.150	0.150	06/10/2013	ND	6.14	102	6.00	10.9	
Total BTEX	<0.300	0.300	06/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIC	107 9	6 89.4-12	6						
•			_						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW					
Chloride, SM4500CI-B Analyte	mg/ Result	kg Reporting Limit	Analyze Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
					BS 416	% Recovery	True Value QC 400	RPD 0.00	Qualifier
Analyte	Result	Reporting Limit	Analyzed 06/10/2013	Method Blank			•		Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 06/10/2013	Method Blank			•		Qualifier Qualifier
Analyte Chloride TPH 8015M	Result 3520 mg/	Reporting Limit 16.0	Analyzed 06/10/2013 Analyze	Method Blank ND d By: MS	416	104	400	0.00	
Analyte Chloride TPH 8015M Analyte	Result 3520 mg/ Result	Reporting Limit 16.0 kg Reporting Limit	Analyzed 06/10/2013 Analyzed	Method Blank ND d By: MS Method Blank	416 BS	104 % Recovery	400 True Value QC	0.00 RPD	

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Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

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

Fax To:

Received:

06/04/2013

Sampling Date:

06/03/2013

Reported:

06/11/2013

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

EDDY CO., NM

Sample Received By:

Jodi Henson

Sample ID: SB-10 @ 70' (H301305-24)

BTEX 8021B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2013	ND	1.88	93.9	2.00	7.29	
Toluene*	<0.050	0.050	06/10/2013	ND	1.95	97.6	2.00	9.07	
Ethylbenzene*	<0.050	0.050	06/10/2013	ND	2.03	101	2.00	10.9	
Total Xylenes*	<0.150	0.150	06/10/2013	ND	6.14	102	6.00	10.9	
Total BTEX	<0.300	0.300	06/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 5	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2180	16.0	06/10/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS				11	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/06/2013	ND	214	107	200	5.56	
DRO >C10-C28	<10.0	10.0	06/06/2013	ND	220	110	200	4.61	
EXT DRO >C28-C35	<10.0	10.0	06/06/2013	ND					
Surrogate: 1-Chlorooctane	103 5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	107	% 63.6-15	4						

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Celeg D. Keine



Analytical Results For:

Basin Environmental Service BEN J. ARGUIJO

P.O. Box 301

Lovington NM, 88260

Fax To:

(575) 396-1429

Received:

06/04/2013

Sampling Date:

06/03/2013

Reported:

06/11/2013

Sampling Type:

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY CO., NM

Sample ID: SB-10 @ 80' (H301305-25)

Chloride, SM4500Cl-B

Analyzed By: DW

Analyte

Result

Analyzed

Method Blank

% Recovery

True Value QC

Qualifier

Chloride

Reporting Limit 16.0

06/10/2013

BS 416

400

768

ND

104

0.00

RPD

Cardinal Laboratories

*=Accredited Analyte

any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be fable for insidential 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

aligh Keine

Celey D. Keene, Lab Director/Quality Manager

Page 22 of 30



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

Received:

06/04/2013

Reported:

06/11/2013

Project Name: Project Number: INDIAN FLATS BASS FEDERAL SWD

NONE GIVEN

Project Location:

EDDY CO., NM

Sampling Date:

sampling bate.

06/03/2013

Sampling Type: Sampling Condition: Soil

Cool & Intact

Sample Received By:

Jodi Henson

Samble 1D: 28-10	@ 90	(H3U13U5-26)
RTEV 9021B		ma/ka

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2013	ND	1.88	93.9	2.00	7.29	
Toluene*	<0.050	0.050	06/10/2013	ND	1.95	97.6	2.00	9.07	
Ethylbenzene*	<0.050	0.050	06/10/2013	ND	2.03	101	2.00	10.9	
Total Xylenes*	<0.150	0.150	06/10/2013	ND	6.14	102	6.00	10.9	
Total BTEX	<0.300	0.300	06/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105	% 89.4-12	6						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	06/10/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/06/2013	ND	214	107	200	5.56	
DRO >C10-C28	<10.0	10.0	06/06/2013	ND	220	110	200	4.61	
EXT DRO >C28-C35	<10.0	10.0	06/06/2013	ND					
Surrogate: 1-Chlorooctane	101	% 65.2-14	10						_
Surrogate: I-Chlorooctadecane	106	% 63.6-15	4						

Analyzed By: AD

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Celey D. Keene



Analytical Results For:

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

Fax To:

(575) 396-1429

Received:

06/04/2013

Sampling Date:

06/03/2013

Reported:

06/11/2013

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY CO., NM

Sample ID: SB-10 @ 100' (H301305-27)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: DW

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	06/10/2013	ND	432	108	400	0.00	

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PLEASE NOTE: Liability and Damages. Cardinal's liability and dient's enclusive remedy for any claim among, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed warved 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 britishing, without britishing, business interruptions, loss of use, or loss of profits incurred by client, its subsidianes, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such

Celeg L. Keine



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

Received:

06/04/2013

Sampling Date:

06/03/2013

Reported:

06/11/2013

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

EDDY CO., NM

Sample Received By:

Jodi Henson

Sample ID: SB-10 @ 110' (H301305-28) BTEX 8021B

BTEX 8021B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2013	ND	1.88	93.9	2.00	7.29	
Toluene*	<0.050	0.050	06/10/2013	ND	1.95	97.6	2.00	9.07	
Ethylbenzene*	<0.050	0.050	06/10/2013	ND	2.03	101	2.00	10.9	
Total Xylenes*	< 0.150	0.150	06/10/2013	ND	6.14	102	6.00	10.9	
Total BTEX	<0.300	0.300	06/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIE	105	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	06/10/2013	ND	432	108	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	06/06/2013	ND	214	107	200	5.56	
DRO >C10-C28	<10.0	10.0	06/06/2013	ND	220	110	200	4.61	
EXT DRO >C28-C35	<10.0	10.0	06/06/2013	ND					
Surrogate: 1-Chlorooctane	102 :	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	110 9	% 63.6-15	4						

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Celeg D. Keene



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

Fax To:

(575) 396-1429

Received:

06/04/2013

Sampling Date:

06/03/2013

Reported:

06/11/2013

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY CO., NM

Sample ID: SB-10 @ 115' (H301305-29)

BTEX 8021B	mg	/kg	Analyz	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2013	ND	1.88	93.9	2.00	7.29	
Toluene*	<0.050	0.050	06/11/2013	ND	1.95	97.6	2.00	9.07	
Ethylbenzene*	<0.050	0.050	06/11/2013	ND	2.03	101	2.00	10.9	
Total Xylenes*	< 0.150	0.150	06/11/2013	ND	6.14	102	6.00	10.9	
Total BTEX	<0.300	0.300	06/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIC	106	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: DW			 			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	06/10/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/07/2013	ND	199	99.6	200	2.79	
DRO >C10-C28	< 10.0	10.0	06/07/2013	ND	209	104	200	5.01	
EXT DRO >C28-C35	<10.0	10.0	06/07/2013	ND					
Surrogate: 1-Chlorooctane	98.3 9	65.2-140)						
Surrogate: 1-Chlorooctadecane	106%	63.6-154	1						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celey D. Kuna

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

Company Name:	Basin Environmental Service Technological	gies,	rc							8/1	LL TO					i. /	MAL	YSIS.	REC	QUES	T		:	\Box
Project Manager:	Ben Arguijo						F	?.O. #														}		
Address: P.O. E	30x 301						c	omp	any:		ВОРС	O, LP						1					ļ	
City: Lovington	State: NM	Zip:	882	260			A	kttn:			Tony Savo	ie										1	. !	
Phone #: (575)	396-2378 Fax # : (575)396	-142)				م	\ddre	55:		522 W. Ma											.		1
Project #:	Project Owner:						c	City:			Carlsbad					·						. :	ı	
Project Name:	Indian Flats Bass Federal SWD						8	state:	: N	M	Zip:	38220	a	2M)	27B			1 :						. "
Project Location:	Eddy Co., NM							hone			(432)556		Chloride	гРН (8015M)	BTEX (8021B)								. '	
Sampler Name:	Ben J. Arguijo						F	ax#	:	. .			Ě	Ŧ	X				1	1			İ	
FOR LAB USE ONLY			T		MAT	RIX		PF	RESE	RV.	SAMPLI	NG		1	B			1						
Lab I.D.	Sample I.D.	OR (C)OMP	NERS	WAIEK		Committee of the Commit		i i	7										:		:	· . : ·:	:	
H301305	Gampio III.	G)RAB C	# CONTAINERS	GROUNDWATER	SOIL	텀	SLUDGE	OTHER: ACID/BASE	ICE / COO	OTHER:	DATE	TIME										:		
	SB-8 @ 5'	G	1		X			T	X		5/31/13	0945	X	Х	Х									
2	SB-8 @ 10'	G	1		X				X		5/31/13	0950	Х	Х	X									
3	SB-8 @ 25'	G	1	<u>.</u>	X				<u></u> x		5/31/13	1010	X	X	X									
4	SB-8 @ 40	G	1	_	X	1			X		5/31/13	1035	X		<u> </u>						<u> </u>			
5	SB-8 @ 55	G	1	\bot	X	_	1	_	X		5/31/13	1100	X		<u> </u>	<u> </u>	<u> </u>	<u> </u>	1	1	ļ			
	SB-8 @ 65'	G	1	_	X				<u> </u>		5/31/13	1120	X	X	X			ļ	<u> </u>	<u></u>	<u> </u>			
	SB-8 @ 70'	G	1		X				X	-	5/31/13	1130	X	X	X		<u> </u>	ļ	ļ	1			<u> </u>	↓
	SB-9 @ 5'	G	1		<u> </u>			4	X	7	5/31/13	1300	X	X	X	<u> </u>	ļ	<u> </u>	1	 	 	<u> </u>	<u> </u>	4
	SB-9 @ 10'	G	1	_	X			_	X	+	5/31/13	1305	X	X	X	ļ	ļ	1	1	 	 	ļ	ļ	1
	SB-9 @ 25' Terrorges. Cerdinal's liability and client's explusive remedy for any claim	G	1	hased	X	orto	rt shaft	la Grade	X		5/31/13	1320	I X	<u> </u>	<u> </u>		<u> L.</u>		<u> </u>		1		<u></u>	

Relinquished By:	Date: / / Received By:	Phone Result:	☐ Yes	□ No	Add'i Phone #:	
	10/9/13 Min by Sign	Fax Result:	☐ Yes	□ No	Add'l Fax #:	
11/11	Time: 1245 / W	REMARKS:		. ,		
Refinquished By:	Date; Received By:	{ ·		: .		
Nan a Soul	Time to Andi Nous Adam		*			
000	1.40 II LU JACKUON					* *
Delivered By: (Circle One)	Sample Condition CHECKED BY:	ł				
Sampler - UPS - Bus - Other:	Cool Intact (Injilats) A Yes (IVYes No No	:				

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 88240

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

Company Name:	Basin Environmental Service Techn	ologies, L	LC				BI	LL TO				:		ANAL	YSIS.	RE	QUES	T		· :	1, 2, 1
Project Manager:	Ben Arguijo				F	P.O. i	#: ; .							:							
Address: P.O.	Box 301				c	omp	pany:	ВОРО	O, LP						. :-						
City: Lovington	State: NM	Zip:	88260)	4	Attn:		Tony Savo	oie				. :.			:					i .
Phone #: (575)	396-2378 Fax # : (575)	96-1429			م	Addre	ess:	522 W. M	arland				. :							:	
Project #:	Project Own	r:			c	ity:		Carlsbac	.] ;			1.			·		:	ļ	.
Project Name:	Indian Flats Bass Federal SWD				s	tate	: NM	Zip:	88220	<u>.</u>	TPH (8015M)	BTEX (8021B)		l							
Project Location:	Eddy Co., NM		:		P	hon	e #:	(432)556	-8730	Chloride	801	(80									:
Sampler Name:	Ben J. Arguijo				F	ax#	: ::			ਤਿ	I	ä						1			
FOR LAB USE ONLY			:	MATRD	(· · · · ·	PF	RESERV.	SAMPLI	NG :]	=	BT	:				ļ.				
		N N	<u>س</u>		-					,	<u>.</u> .					:.	ļ :				·
:		C) E	ATE	H :		١.,	.			·			•	:					. ::		
Lab I.D.	Sample I.D.	RAB OR (C)C	GROUNDWATE	WAS I EWA I ER SOIL OIL	щ	ACID/BASE	00 (:		· · · · · · ·			: .									_
		A S	ð	<u>u</u> _ .	SLUDGE		ICE / COO OTHER :					:	*:			· .:	. :			:	
H301305		(G) R)	6	SOIL SOIL	8	5 §	<u>5</u> 5	DATE	TIME	<u> </u>											
	SB-9 @ 45'	G 1		X	 -	_ _	X	5/31/13	1350	X	X	X		· .				- ':'			
	SB-9 @ 60'	G 1		X		_ _	X	5/31/13	1415	X	X	X	. ::							· · · .	
	SB-9 @ 75'	G 1	 	X			X	5/31/13	1440	Х	Х	X									
	SB-9 @ 85'	G = 1		X		-	X	5/31/13	1500	X											
	SB-9 @ 95'	G 1		X	├ ├-		X	5/31/13	1520	X				<u> </u>							
	SB-9 @ 100'	G 1	 -	X		·	X	5/31/13	1530	X	-			<u> </u>							
	SB-9 @ 105'	G 1	-			-		5/31/13	1540	X	X	X		-	<u> </u>						
	SB-9 @ 110'			X			X	5/31/13	1550	X	X .	X						<u> </u>	$\vdash \vdash \vdash$	· ·	
	SB-10 @ 5'	G 1		X		·	X	6/3/13 6/3/13	0930 0935	X	X	X			-		;			-	
ر بھی	SB-10 @ 10'	191	1 ·		et shall b	o limite		tosid by the client		<u>. ^ </u>	<u> </u>			L			<u> </u>	<u> </u>	لبنب		

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: / Received	By: /7	Phone Result:	☐ Yes	□ No	Add'l Phone #:		·
	6/4/13	(Timeso	Fax Result:	· 🗆 Yes	□ No	Add'l Fax #:		
11/1/1	Time: 1245	In Office	REMARKS:	-		:-		
Religquished By:	Date: Received	By: 1	} .					
Man & Dugg	10/4/17 /n	1. HOUNDER		• .			: 1.	
	1.4D (10)	a spensor]	· .			: .	
Delivered By: (Circle One)		Sample Condition CHECKED BY:						
	U	Cool Intact (Inifials)	1 : .					
Sampler - UPS - Bus - Other:		Tes Le Yes						
		\square No \square No \square C						

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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Basin Environmental Service Techno	logies,	LLC						BIL	L TO						ANAL	YSIS	REC	QUES	T			
Project Manager:	Ben Arguijo						P.O.	#;·						,									
Address: P.O. B	ox 301						Con	pany	:	BOPC	O, LP												
City: Lovington	State: NM	Zip:	88	260			Attn	:		Tony Savo	oie]											
Phone #: (575)39	96-2378 Fax #: (575)3	96-142	29				Add	ress:		522 W. M	arland				ı								
Project #:	Project Owne	r:			,		City	:		Carlsbac	[1				: .					1		
Project Name: I	ndian Flats Bass Federal SWD		•			:	Stat	e: N	M :	Zip:	88220		SE	18							1	. '	1
Project Location:	Eddy Co., NM							ne#:		(432)556		Ę	(8015M)	(8021B)									
	Ben J. Arguijo				. :		Fax					Chloride	H	X		٠.				:			
FOR LAB USE ONLY		T			MATRI			RESE	RV.	SAMPLI	NG	1	HGT.	втех									1
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	SLUDGE	OTHER:	ACID/BASE: ICE / COOL	OTHER:	DATE	TIME				. :-						:		
	SB-10 @ 25'	G	1		X			X		6/3/13	0950	X	7 .				<u> </u>						
	SB-10 @ 40'	G	1		X	ļ		<u> </u>		6/3/13	1010.	х											L
	SB-10 @ 50'	G	1		·x	<u> </u>		X	<u> </u>	.6/3/13	1030	X	X	X		L.	<u> </u>	L	<u> </u>		ــــــــــــــــــــــــــــــــــــــ	<u> </u>	1
	SB-10 @ 70'	G	1	_	X	 -	1	<u> </u>	1	6/3/13	1100	X	X	X	L	<u> </u>	<u> </u>		 	. :		 	\perp
	SB-10 @ 80'	G	1	_	X	 	\perp	X		6/3/13	1120	X	ļ	<u> </u>	<u> </u>	<u> </u>			ļ	<u> </u>	ļ	ļ	4
	SB-10 @ 90'	Ğ	1	_ -	X	-		X		6/3/13	1140	×	X	X	<u> </u>	L	ļ	-		ļ	ļ	<u> </u>	4
	SB-10 @ 100'	, <u>G</u>	1		X	╁	1-1	X		6/3/13	1200	×	<u> </u>		ļ	<u> </u>		ļ	ļ	<u> </u>	 	<u> </u>	4
	SB-10 @ 110'	G	1.1.	-	X	 		X	4_	6/3/13	1220	LX.	X	X		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	1.
29 1	SB-10 @ 115'	G	1 4	1	X	Ì	1.1	X		6/3/13	1230	l x	X	İχ	1	1	ì	1	1 .	1	1	1 .	. 13

PLEASE NOTE: Liability and Damages. Cardinal's liability and clerif's exclusive remody for any cleim arising whether based in contract or tort, shall be limited to the amount paid by the clerif for the arrolyses. All cleims including those for negligence and any other cause whotsoever shall be deemed walved unless made in writing and received by Curdinal 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 substitiaries,

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

#54



June 20, 2013

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: INDIAN FLATS BASS FEDERAL SWD

Enclosed are the results of analyses for samples received by the laboratory on 06/14/13 15:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited 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:

06/14/2013

Reported: Project Name: 06/20/2013

INDIAN FLATS BASS FEDERAL SWD

Project Number: Project Location:

Surrogate: 1-Chlorooctadecane

EDDY CO., NM

83.6%

63.6-154

NONE GIVEN

Sampling Date:

06/14/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Celey D. Keene

Sample ID: SOUTH WALL #1 (H301383-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	06/19/2013	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	06/19/2013	ND	205	103	200	2.90	•
DRO >C10-C28	<10.0	10.0	06/19/2013	ND	215	107	200	2.48	
EXT DRO >C28-C35	<10.0	10.0	06/19/2013	ND					
Surrogate: 1-Chlorooctane	79.7	% 65.2-14	0			,			

Sample ID: NORTH WALL #1 (H301383-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	06/19/2013	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	06/19/2013	ND	205	103	200	2.90	
DRO >C10-C28	<10.0	10.0	06/19/2013	ND	215	107	200	2.48	
EXT DRO >C28-C35	<10.0	10.0	06/19/2013	ND					
Surrogate: 1-Chlorooctane	96.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	102 9	% 63.6-15	4						

Cardinal Laboratories *=Accredited Analyte

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

alex there-



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

Celey D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Basin Environmental Service Technologies	s, LLC	B IL	270	·		:	AN	ALYS	IS RE	QUE	ST.			
Project Manager: Ben J. Arguijo		P.O. #:							\top					
Address: P.O. Box 301		Company: B	OPCO, LP		- : {	·.			- 1		1 1	1		
City: Lovington State: NM Zip: 88260		Attn: Tony	Savoie			:							- 1	
Phone #: (575) 396-2378 Fax #: (575) 396-1429		Address: 52	2 W. Mermod			j.		- 1	1			1	1	
Project #: Project Owner: BOPCO, LP	: :	City: Carlsh	oad:		. :				:]			::	
Project Name: Indian Flats Bass FED SWA		State: NM	Zip: 88220											i
Project Location: EDDY NM.		Phone #: (43	2)556-8730]		: 1	- {	- }	1				1	
Sampler Name: Jody Walters		Fax #:			* *	. 1	Į.			l	1 1	:		,
FOR LAB USE ONLY	MATRIX	PRESERV.	SAMPLING							1			.	
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PLEASE NOTE: Usualty and Damages. Cardona's lability and client's exclusive remedy for any dath 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 whathoever 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 interriptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates projuccessors ansing out of or related to the performance of services bereunder by Cardinal, regardless of whether som claim is based upon any of the above stated reasons or otherwise.

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Sampler - UPS - Bus - Other:	4.8°C	Tres Tres	:	· : · · · · · ·	

[†] Cardinal cannot accept verbal changes. Please fax writtenchanges to 505-393-2476



June 27, 2013

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: INDIAN FLATS BASS FEDERAL SWD

Enclosed are the results of analyses for samples received by the laboratory on 06/24/13 16:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited 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. Keena

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 (575) 396-1429

Fax To:

Received:

06/24/2013

Reported:

06/27/2013

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Project Number: Project Location: NONE GIVEN

EDDY CO., NM

Sampling Date:

06/24/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: NORTH WALL #2 (H301476-01)

Chloride, SM4500Cl-B	mg/kg

Chloride, SM4500CI-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	06/27/2013	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	06/26/2013	ND	216	108	200	0.621	
DRO >C10-C28	<10.0	10.0	06/26/2013	ND	221	111	200	0.714	
EXT DRO >C28-C35	<10.0	10.0	06/26/2013	ND					
Surrogate: 1-Chlorooctane	07.4	% 65.2-14							

65.2-140 Surrogate: 1-Chlorooctane 97.4% Surrogate: 1-Chlorooctadecane 103 % 63.6-154

Sample ID: EAST WALL #1 (H301476-02)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/27/2013	ND	400	100	400	0.00	
Analyte Result	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	06/26/2013	ND	216	108	200	0.621	
DRO >C10-C28	<10.0	10.0	06/26/2013	ND	221	111	200	0.714	
EXT DRO >C28-C35	<10.0	10.0	06/26/2013	ND					
Surrogate: 1-Chlorooctane	96.49	65.2-14	0						
Surrogate: 1-Chlorooctadecane	93.3 %	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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alley to Keens



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

Fax To:

(575) 396-1429

Received:

06/24/2013

Sampling Date:

06/24/2013

Reported:

06/27/2013

Sampling Type:

Soil

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY CO., NM

Sample ID: SOUTH WALL #2 (H301476-03)

Docult								
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
304	16.0	06/27/2013	ND	400	100	400	0.00	
015M mg/kg		Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	06/26/2013	ND	216	108	200	0.621	
<10.0	10.0	06/26/2013	ND	221	111	200	0.714	
<10.0	10.0	06/26/2013	ND					
	Result <10.0 <10.0	mg/kg Result Reporting Limit <10.0	mg/kg Analyze Result Reporting Limit Analyzed <10.0	mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank <10.0	mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0	mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0	mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

Surrogate: I-Chlorooctane

93.5 %

65.2-140

Surrogate: 1-Chlorooctadecane

98.2 %

63.6-154

Sample ID: WEST WALL #1 (H301476-04)

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	06/27/2013	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	06/26/2013	ND	216	108	200	0.621	
DRO >C10-C28	<10.0	10.0	06/26/2013	ND	221	111	200	0.714	
EXT DRO >C28-C35	<10.0	10.0	06/26/2013	ND					
Surrogate: 1-Chlorooctane	91.4	% 65.2-14	0						

Surrogate: 1-Chlorooctadecane

95.4 %

63.6-154

Cardinal Laboratories

*=Accredited Analyte

any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories,

Celey D. Keine



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 clients exclusive remedy for any claim ansing, whether hased 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 determed waved unless made in writing and received by Clerrinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be hable for incidental or consequential damages, including, without limitation, business interruptions, fors of use, or 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 hereinder by Cardinal, regardless of whether such claims is based upon any of the above stated issues or otherwise. Results relate only to the samples identified above. This peop shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celleg & Keins



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	5/5) 393-2326 FAX (5/5) 3					Sec. 350		ILL TO					ANA	Vel	- 00	OHE	S.T.			
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Project Manager:	Ben J. Arguijo	. · · ·				P.O. #	:	<u> </u>		4	1.									
Address: P.O.	Box 301			· :		Comp	any:	BOPCO, LP			1							:		
City: Lovington	n State	: NM Zip:	88260)	:	Attn:	Ton	y Savoie			1 .		1.							
Phone #: (575) 3	396-2378 Fax # :	(575) 396-1	129	_		Addre	ss: 5	22 W. Mermod			Į.					1:1:1				
Project #:	Projec	t Owner: BOI	CO, LP			City:	Carls	bad		1.	:	l	1							
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FOR LAB USE ONLY				MAT	RIX	PR	ESER\	SAMPLING		200				.: .				::	÷	
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PLEASE NOTE: Liabity and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

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Otere Jak	Time://10	Wal	Henson	REMARKS:				
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	Time:			Plea	se emai	l resul	ts to pm@basinenv.co	mc
Delivered By: (Circle One)			Condition CHECKED BY:	1	savoie@			
Sampler - UPS - Bus - Other:	L	1.2 Ves	Yes No		· · · · · ·	*. •		

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393 247



July 10, 2013

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: INDIAN FLATS BASS FEDERAL SWD

Enclosed are the results of analyses for samples received by the laboratory on 07/03/13 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

Cardinal Laboratories is 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 & Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To:

(575) 396-1429

Received:

07/03/2013

Reported:

07/10/2013

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Project Number: Project Location:

NONE GIVEN

EDDY CO., NM

Sampling Date:

07/03/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SOUTH WALL #3 (H301576-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP	· ·	 			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	07/10/2013	ND	416	104	400	0.00	
rPH 8015M mg/kg		/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	07/09/2013	ND	201	100	200	2.08	
DRO >C10-C28	<10.0	10.0	07/09/2013	ND	212	106	200	5.52	
EXT DRO >C28-C35	<10.0	10.0	07/09/2013	ND					
Surrogate: 1-Chlorooctane	87.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	92.3	% 63.6-15	4		•				

Sample ID: SOUTH WALL #4 (H301576-02)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	07/10/2013	ND	416	104	400	0.00	
TPH 8015M			Analyze	d By: MS		···			
Analyte			Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/10/2013	ND	202	101	200	7.87	
DRO >C10-C28	<10.0	10.0	07/10/2013	ND	205	103	200	9.74	
EXT DRO >C28-C35	<10.0	10.0	07/10/2013	ND					
Surrogate: 1-Chlorooctane	91.19	65.2-14	0	~~~~~~~ <u>~~</u>					
Surrogate: 1-Chlorooctadecane	92.3 9	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celeg E. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Kena



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	Basin Environmental Service	rech	nol	ogi	es,	LLC				BI	LT	9	SELLA				:	ANA	LYSIS	RE	QUE	ST			
Project Manage	Ben J. Arguijo							P.O.	#:				····												
Address: P.O.	•				,			Con	ıpar	ıy: E	OPCO,	LP				·							1, ,	. 1	
City: Lovingto	on State: NM	Zip	: 88	3260				Attn	: :	Tony	Savoi	e.	·· <u> </u>				:	<u> </u>							. 1
Phone #: (575)) 396-2378 Fax #: (575) 3	96-1	429	1				Add	ress	: 52	2 W. N	tert	nod	· .				1							.:`·
Project #:	Project Owne							City	: Ca	ırlsi	oad: .			1 1.						}	1		1]	. 1
Project Name; Z	Indian Flats Bass Fed	5U	g					Stat	e: N	M	Zip: 88	322	0	'		1		•	1			. !		[
Project Location	** *,	:- :						Pho	ne i	f : (43	2)556	-87	30		Z		1:	}:		}					
Sampler Name:				· ;				Fax							\$10%		1	"				'	:		
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PLEASE NOTE: Liability and Damages. Cardinate liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for inegligence and any other cause whatsoever shall be deemed unless and an writing and received by Cardinal within 30 days after completion of the applicable service. In ower shall be cardinal be liable for incidental or consequental damages, including writted limitizen, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.

Relinquished By:	Date: 1/3 Received By:	Phone Result:
the sale	THE DO WILL SUNDON	REMARKS:
Relinquished By:	Date: Received By:	
	Time:	Please email results to pm@basinenv.com
Delivered By: (Circle One)	Sample Condition CHECKED BY: Cool Intact (Illatials)	& TAsavoie@BassPet.com
Sampler - UPS - Bus - Other:	2.4° Tyes Yes No No	

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393 2476



July 11, 2013

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: INDIAN FLATS BASS FEDERAL SWD

Enclosed are the results of analyses for samples received by the laboratory on 07/10/13 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

Cardinal Laboratories is 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.

Celeg 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



Analytical Results For:

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

Fax To:

(575) 396-1429

Received:

07/10/2013

Reported:

07/11/2013

Project Name:

INDIAN FLATS BASS FEDERAL SWD

Project Number: Project Location: NONE GIVEN EDDY CO., NM

07/10/2013

Sampling Date: Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: NORTH #3 (H301612-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP		·	 		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	07/11/2013	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	07/11/2013	ND	201	101	200	4.50	
DRO >C10-C28	<10.0	10.0	07/11/2013	ND	211	105	200	7.08	
EXT DRO >C28-C35	<10.0	10.0	07/11/2013	ND					
Surrogate: 1-Chlorooctane	92.2	% 65.2-14	0	~					
Surrogate: 1-Chlorooctadecane	96.1	% 63.6-15	4	·					

Sample ID: NORTH #4 (H301612-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	07/11/2013	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	07/11/2013	ND	201	101	200	4.50	
DRO >C10-C28	<10.0	10.0	07/11/2013	ND	211	105	200	7.08	
EXT DRO >C28-C35	<10.0	10.0	07/11/2013	ND					
Surrogate: 1-Chlorooctane	90.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	93.2	% 63.6-15	4	•					

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*=Accredited Analyte

any other cause whatsoever shall be deemed waved 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 use, or loss of profits incurred by client, its subsidiaries, affiliates or successors ansing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval or Cardinal Laboratories.

Celegis Keens



ND

Notes and Definitions

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

Chloride by SM4500CI-B does not require samples be received at or below 6°C

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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Basin Environm	ental Service	ech	nol	ogie	es, I	LC			B	LL TO		Š			: .	ANAL	YSIS	RE	QUE	ST		:	
Project Manager: Ben J. Arguijo							P.	O. #				T							1.11				
Address: P.O. Box 301							С	omp	any:	BOPCO, I	P	1							ļ			[
City: Lovington	State: NM	Zip:	88	260		:	A	ttn:	Ton	y Savoie													
Phone #: (575) 396-2378	Fax #: (575) 3	6-1	429				A	ddre	ss: 5:	22 W. Me	rmod	1	1		1::::	1		;				1 1	
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Project Name: Indian Flats B	ess Federal	54	JE)		:	s	tate:	NM	Zip: 882	20	1		! .	١.]			•	
Project Location:	:		:			:				32)556-8		1]	ļ	-	: :			
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PLEASE NOTE: Liability and Damages, Cardinal's liability at		ببا	ليا	لبا			بل_	1	بليا	<u> </u>			<u> </u>			<u> L</u>		<u> </u>		1	<u> </u>	<u> </u>	

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ampaies of successors ansing but of of feature to the performance of services neterinoe by Cardinal regardless of whether such claim is passed upon any of the above screen reasons of otherwise.		
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Relinquished By	Date: Received By:	
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	Time:	
		Please email results to pm@basinenv.com
Delivered By: (Circle One)	Sample Condition CHECH	ABY: & TAsavoie@BassPet.com
	Cool Intact (Injul	a IASAVOTEMBASSFEL.CUIII
Sampler - UPS - Bus - Other:	5 6 Dies Pres / 19	J
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