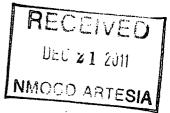
Basin Environmental Service Technologies, LLC

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

ŵ Effective Solutions

REMEDIATION SUMMARY &

SITE CLOSURE REQUEST



BOPCO, LP REMUDA BASIN 25 STATE #1 Eddy County, New Mexico Unit Letter "I" (NE/SE), Section 25, Township 23 South, Range 29 East Latitude 32.288041° North, Longitude 103.936333° West

Prepared For:

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

Prepared By:

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

September 2011

Ben J. Arguijo Project Manager

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Appendix B – Photographs

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1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary & Site Closure Request* for the release site known as Remuda Basin 25 State #1 (Remuda Basin). The legal description of the release site is Unit Letter "I" (NE/SE), Section 25, Township 23 South, Range 29 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.288041° North latitude and 103.936333° West longitude. The property affected by the release is owned by the New Mexico State Land Office (NMSLO). A "Site Location Map" is provided as Figure 1.

On June 5, 2011, BOPCO discovered a release had occurred at the Remuda Basin tank battery. On the night of June 4, 2011, a three hundred barrel (300 bbl) water tank on-site was struck by lightning, resulting in a release of produced water and condensate. The release was reported to the New Mexico Oil Conservation Division (NMOCD) Artesia District Office on June 5, 2011. The "Release Notification and Corrective Action" (Form C-141) indicated approximately ninety-five barrels (95 bbls) of produced water and less than one barrel (1 bbl) of condensate had been released. The majority of the release was confined inside the containment area of the tank battery and affected an area measuring approximately twenty one hundred square feet (2,100 ft²). The release also affected an area outside of the containment measuring approximately three hundred square feet (300 ft²).

The Form C-141 is provided as Appendix A. General photographs of the release site are provided as Appendix B.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information was unavailable for Section 25, Township 23 South, Range 29 East. A depth-to-groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately one hundred and five feet (105') 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 1,000 feet of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

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

NMOCD guidelines indicate the Remuda Basin 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)
- BTEX 50 mg/Kg (ppm)
- TPH 5,000 mg/Kg (ppm)

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

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On June 8, 2011, one hand-augered soil bore (HA-1) was advanced inside the containment area of the tank battery, to the east of, and adjacent to, the 300 barrel water tank, to investigate the vertical extent of impact at the site. The soil bore was advanced to twelve feet (12') bgs. Soil samples were collected at two foot (2') drilling intervals and submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis of chloride and/or total petroleum hydrocarbon (TPH) concentrations using EPA Methods 4500 Cl-B and SW-846 8015M, respectively. The soil sample collected at twelve feet (12') bgs was also analyzed for benzene, toluene, ethyl-benzene, and xylene (BTEX) concentrations using EPA Method SW-846 8021b. Table 1 summarizes the "Concentrations of Benzene, BTEX, TPH & Chlorides in Soil". A "Site & Sample Location Map" is provided as Figure 2. Laboratory analytical reports are provided as Appendix C.

Laboratory analytical results indicated chloride concentrations ranged from 144 mg/Kg in soil sample HA-1 @ 8' to 17,600 mg/Kg in soil sample HA-1 @ Surface. TPH concentrations ranged from less than the appropriate laboratory method detection limit (MDL) in soil samples HA-1 @ 6' and HA-1 @ 12' to 4,999 mg/Kg in soil sample HA-1 @ Surface. BTEX constituent concentrations were less than the appropriate laboratory MDL in all soil samples submitted.

On June 22, 2011, excavation of impacted soil commenced at the site. To facilitate remediation activities and preserve the integrity of the foundations of the on-site storage tanks, the excavation was divided into two sections: North Excavation and South Excavation. From June 22 through June 24, 2011, approximately one hundred and sixty (160) cubic yards (cy) of impacted soil was excavated and transported to Lea Land, Inc. (NMOCD Permit # WM-01-035) for disposal.

On June 23, 2011, ten (10) soil samples (North Excavation - North Wall, North Excavation - East Wall, North Excavation - West Wall, North Excavation - Floor, South Excavation - East Wall, South Excavation - West Wall, South Excavation - South Wall, South Excavation - South Floor, South Excavation - Mid Floor East, South Excavation - Mid Floor West) were collected from the floors and sidewalls of the North and South excavations and submitted to Cardinal Laboratories for analysis of chloride and TPH concentrations. Soil samples North Excavation Floor and South Excavation - South Floor were also analyzed for BTEX concentrations.

Laboratory analytical results indicated chloride concentrations ranged from 16.0 mg/Kg in soil sample South Excavation - West Wall to 384 mg/Kg in soil sample South Excavation - Mid Floor East. TPH concentrations were less than the laboratory MDL in all soil samples submitted, with the exception of soil sample North Excavation - Floor, which exhibited a TPH concentration of 2,530 mg/Kg. BTEX constituent concentrations were less than the appropriate laboratory MDL in all soil samples submitted.

Based on laboratory analytical results, on June 24, 2011, the North and South Excavations were backfilled and compacted, and contoured to fit the surrounding topography. Prior to backfilling, final dimensions of the combined excavations were approximately sixty-six feet (66') feet in

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length, approximately thirty-six feet (36') feet in width, and ranging in depth from approximately one foot (1') to three feet (3') bgs.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil samples were delivered to Cardinal Laboratories, Inc., of 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 modified EPA Method SW-846 8015M
- Chloride concentrations in accordance with EPA Method SM 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 floors and sidewalls of the Remuda Basin excavation were analyzed by an NMOCD-approved laboratory, and concentrations of Benzene, BTEX, TPH, and chloride were below the remediation action levels established for the site. Based on these analytical results, Basin recommends BOPCO provide the NMOCD Artesia District Office and the NMSLO a copy of this *Remediation Summary & Site Closure Request* and request the NMOCD grant site closure to the Remuda Basin release site.

6.0 **LIMITATIONS**

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

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

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7.0 DISTRIBUTION:

Copy 1: Mike Bratcher New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division (District 2) 1301 E. Grand Avenue Artesia, New Mexico 88210

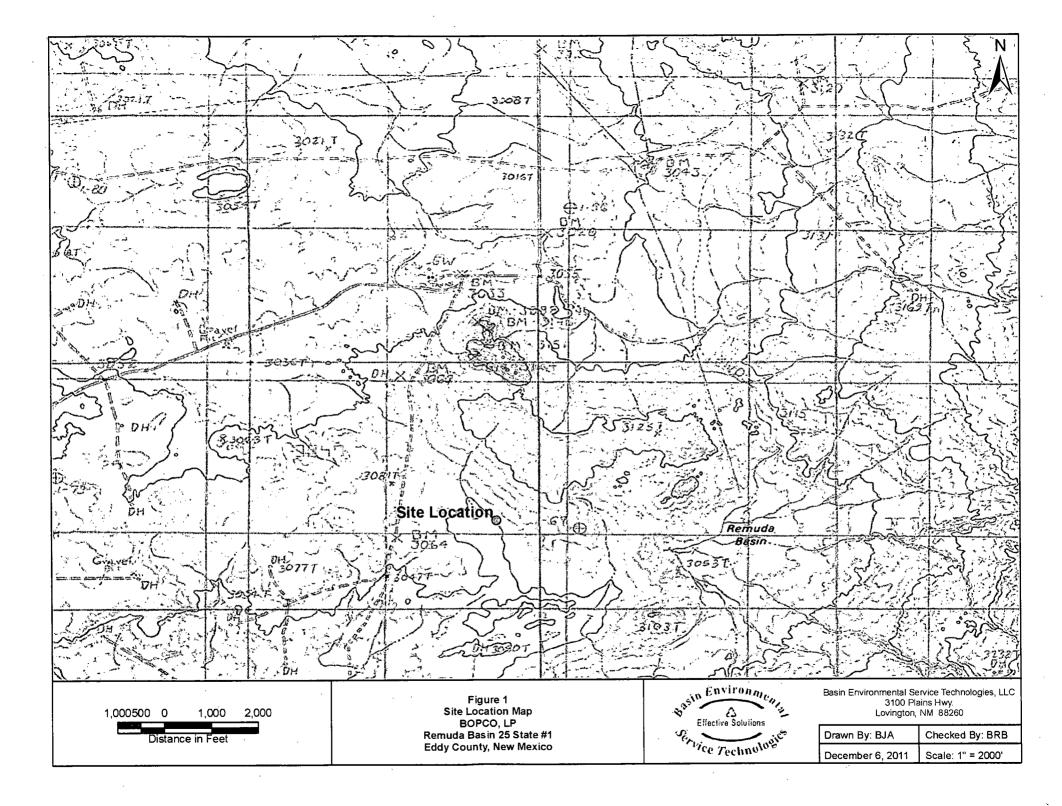
Copy 2: Andrew Kraemer New Mexico State Land Office 602 N. Canal Street, Ste. B Carlsbad, New Mexico 88220

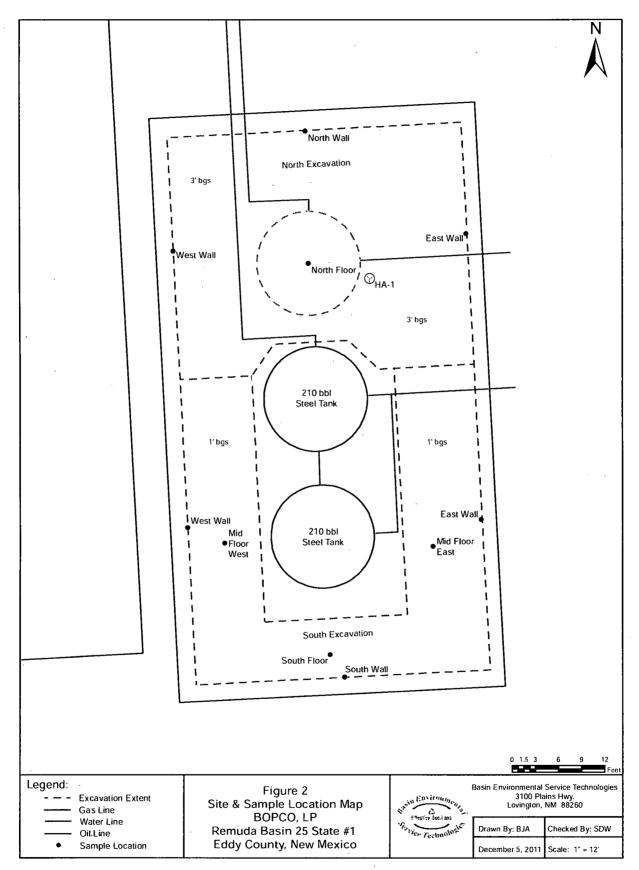
Copy 3: Tony Savoie BOPCO, LP 522 W. Mermod, Ste. 704 Carlsbad, New Mexico 88220

Copy 4: Basin Environmental Service Technologies, LLC P.O. Box 301 Lovington, New Mexico 88260

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Figures





Tables

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDES IN SOIL

BOPCO, LP REMUDA BASIN 25 STATE #1 EDDY COUNTY, NEW MEXICO

					METHOD: E	PA SW 846	-8021B, 503	0	MET	HOD: 80	15M	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)
HA-1 @ Surface	Surface	6/8/2011	In-Situ			-	-	-	39.4	4,960	<10.0	4,999	17,600
HA-1 @ 2'	2'	6/8/2011	In-Situ	-	-	-	-	-	-	-	-	-	3,200
HA-1 @ 4'	4'	6/8/2011	In-Situ	-	~ .	-	-	-	-	-	- '	-	272
HA-1 @ 6'	6'	6/8/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	176
HA-1 @ 8'	8'	6/8/2011	In-Situ	-	-	-	-	-	-	-	-	-	144
HA-1 @ 10'	10'	6/8/2011	In-Situ	-	- *	-	-	-	-	-	-	-	208
HA-1 @ 12'	12'	6/8/2011	In-Situ	< 0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	256
North Excavation - North Wall	2'	6/23/2011	In-Situ	-	-	-	-	•	<10.0	<10.0	<10.0	<10.0	112
North Excavation - East Wall	2'	6/23/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	64.0
North Excavation - West Wall	2'	6/23/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	64.0
North Excavation - Floor	3'	6/23/2011	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	2,530	<10.0	2,530	208
South Excavation - East Wall	6"	6/23/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	336
South Excavation - West Wall	6"	6/23/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	16.0
South Excavation - South Wall	6"	6/23/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	208
South Excavation - South Floor	1'	6/23/2011	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	160
South Excavation - Mid Floor East	1'	6/23/2011	In-Situ	-	-	•	-	-	<10.0	<10.0	<10.0	<10.0	384
South Excavation - Mid Floor West	1'	6/23/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	64.0
4 ¹										1	· · · ·		
NMOCD Criteria				10				50				5,000	1,000

- = Not analyzed.

Appendices

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

1901 W. Grand Asteense, Ansis, NM 88210 Oil Conservation Division Submit 2 Copies to approve District Office in spece District Office District Office In Office District Office In Office District Office In Office District Office	<u>strict }</u> 25 N. French Dr., Hobbs, NM 88240 <u>strict]1</u>		New Mexico and Natural Resources		Form C-141 Revised October 10, 2003					
Release Notification and Corrective Action OPERATOR Minital Report Final Name of Company BOPCO, L.P. Contact Tony Savoie Address 522 W. Mennod, Suite 704 Carlsbad, N.M. 88220 Telephone No. 432:556-8730 Facility Name: Remudo Basin 25 State #1 Facility Type E&P Surface Owner State of N.M. Mineral Owner State Lease No 125894	strict III 00 Rio Brazos Road, Aztec, NM 87410 strict IV	1220 Sout	uth St. Francis Dr. District Office							
Name of Company BOPCO, L.P. Contact Tony Savoie Address 522 W. Mcmmod, Suite 704 Carlsbad, N.M. 88220 Telephone No. 432-556-8730 Facility Name: Remuda Basin 25 State #1 Facility Type E&P Surface Owner State of N.M. Mineral Owner State Lcase No E5894 Unit Letter Section Township Range Feet from the North/South Line Feet from the County Loc ATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the County Eddy Latitude_N 32.288041 Longitude W 103.936333	<u></u>			ction						
Address 322 W. Mermod, Suite 704 Carlsbad, N.M. 88220 Telephone No. 432-556-8730 Facility Name: Remuda Basin 25 State #1 Facility Type E&P Surface Owner State of N.M. Mineral Owner State Lease No E3894 Unit Lenter: Section Township Range Feet from the Nortl/South Line Feet from the East/West Line County Eddy 25 238 29E Feet from the Nortl/South Line Feet from the East/West Line County Eddy 25 238 29E Feet from the Nortl/South Line Feet from the East/West Line County Eddy 25 238 29E Feet from the Nortl/South Line Feet from the East/West Line County Eddy Locatinue Nortl/South Line Feet from the Nortl/South Line East/West Line County Eddy Locatinue Nortl/South Line Feet from the Distand Hour of Distace Protein Distand Hour of Distace Protein Ype of Release: 300 bhl produced water tank Volume of Release: 95 bhls of produced water tank Distand Hour of Ceurence Distand Hour of Distace Protein G/S/11 9:00 a.m. If YES. To W				🛛 Initi	al Report 🔲 Final Repo					
Facility Name: Remuda Basin 25 State #1 Facility Type E&P Surface Owner State of N.M. Mineral Owner State Lcase No E5894 ··· LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the County Eddy Unit Letter Section Township Range Feet from the North/South Line Feet from the North/South Line County Eddy Unit Letter 25 238 Pet from the North/South Line Feet from the North/South Line County Eddy Unit Letter 25 238 Pet from the North/South Line Feet from the North/South Line County Eddy Latitude_N 32.288041 Longitude W 103.936333		arlahad NI M 88220								
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NATURE OF RELEASE Type of Release: Produced water and condensate Volume of Release: 95 bils of produced water and less than 1 bill condensate. Volume Recovered: None produced water tank Source of Release: 300 bill produced water tank Date and Hour of Occurrence 6/4/11, between 5 pm and 11 pm Date and Hour of Discovery 6/5/11 9:00 a.m. Was Immediate Notice Given? If YES. To Whom? Mike Bratcher Date and Hour 6/5/11 7:30 p.m. Was a Watercourse Reached? If YES. Volume Impacting the Watercourse. PECEIVED JUN 16 2011 JUN 16 2011 NO C Anter Taken.* The 300 bbl water tank was struck by lighting the evening of 6/4/11; the pumper discovere the next moming, all of the water had soaked into the ground inside the containment. There was no evidence of fire anywhere at the facility. Vel was shut in the moring of 6/5/11. Describe Area Affected and Cleanup Action Taken.* Approximately 2100 sq. ft. intervals to a depth of 12 ft. below ground surface on 6/6/11 and analyzed for and Chonicks. It appears the vertical extent did not exceed 3 ft. heldow ground surface on 6/6/11 and analyzed for and Chonicks. It appears the vertical extent did not exceed 3 ft. heldow ground surface on containment area and approximately 300 sq. ft. outside the containment area on the caliche well pid. Samples were collected a 2 ft. intervals to a depth of 12 ft. below ground surface on 6/6/11 and analyzed for the analytical results are attached. We plan on excan the affected soil inside the containment area on 6/20/11. The soil remediation will follow the NMOCD recommeded guidelines for the remediation of taks and spills. <td>· · · ·</td> <td>nge Feet from the North</td> <td></td> <td>East/West Line</td> <td></td>	· · · ·	nge Feet from the North		East/West Line						
NATURE OF RELEASE Type of Release: Produced water and condensate Volume of Release: 95 bils of produced water and less than 1 bill condensate. Volume Recovered: None Source of Release: 300 bbl produced water tank Date and Hour of Occurrence 6/4/11, between 5 pn and 11 pm Date and Hour of Discovery 6/5/11 9:00 a.m. Was Immediate Notice Given? If YES. To Whom? Mike Bratcher Date and Hour 6/5/11 7:30 p.m. Was a Watercourse Reached? If YES. Yo Whom? Mike Bratcher By Whom? Tony Savoie Date and Hour 6/5/11 7:30 p.m. PECEIVED Vas a Watercourse Reached? If YES. Volume Impacting the Watercourse. If YES. 2011 JUN 16 2011 JUN 16 2011 NOCD ARTESIA NOCD ARTESIA Describe Cause of Problem and Remedial Action Taken.* The 300 bbl water tank was struck by lighting the evening of 6/4/11, the pumper discovere the next morning, all of the water had soaked into the ground inside the earthen containment. There was no evidence of fire anywhere at the facility. vell was shut in the morning of 6/5/11. Describe Area Affected and Cleanup Action Taken.* Approximately 2100 sq. ft. inside the containment area and approximately 300 sq. ft. outside the containment area on the caliche well pid. Samples were collected a 2 ft. intervals to a dteph of 12 ft. below ground surface on 6/4/11 and analyzed for and Chlorides. It appears the vertical exect of the ow ground surface. A copy of the analytical results are attached. We plan on exea the affected soili		<u> </u>								
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Was Immediate Notice Given? If YES. To Whom? Mike Bratcher Mike Bratcher By Whom? Tony Savoie Date and Hour 6/5/11 7:30 p.m. Was a Watercourse Reached? If YES. Volume Impacting the Watercourse. If a Watercourse was Impacted, Describe Fully.* If YES. Volume Impacting the Watercourse. Describe Cause of Problem and Remedial Action Taken.* The 300 bbl water tank was struck by lighting the evening of 6/3/11. The primper discovere the next morning, all of the water had soaked into the ground inside the carthen containment. There was no evidence of fire anywhere at the facility.* well was shut in the morning of 6/5/11. Describe Area Affected and Cleanup Action Taken.* Approximately 2100 sq. fl. inside the containment area and approximately 300 sq. fl. outside the containment area on the caliche well pad. Samples were collected a 2.fl. intervals to a depth of 12.fl. below ground surface on 6/8/11 and analyzed fo and Chlorides. It appears the vertical extent did not exceed 3.fl. below ground surface. A copy of the analytical results are attached. We plan on excar the affected soil inside the containment area on 6/20/11. The soil remediation will follow the NMOCD recommended guidelines for the remediation of 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 an regulations all operators are required to report and/or file certain release notifications and perform corrective actions for release which may endange 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 flabili should their operatino	ource of Release: 300 bbl produced wat	. tank								
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	egulations all operators are required to r public health or the environment. The ac hould their operations have failed to add or the environment. In addition, NMOC	port and/or file certain release i eptance of a C-141 report by th uately investigate and remedia acceptance of a C-141 report of	notifications and perform correct the NMOCD marked as "Final R ate contamination that pose a thr does not relieve the operator of	tive actions for rel eport" does not rel eat to ground wate responsibility for c	cases which may endanger ieve the operator of liability r, surface water, human health ompliance with any other					
OIL CONSERVATION DIVISION			<u>OIL CON</u>	SERVATION	DIVISION					
Signature: Approved by District Supervisor: Printed Name: Tony Savoie	signature: 1 aug. Danu	11 ²	Approved by District Supervisor:							
Title: Waste Mgint & Remediation Specialist Approval Date: Expiration Date:		list	Approval Date:	Expiration	Date:					
E-mail Address: TASavoje@BassPet.com	_			1.21.4440	_					
Date: 6/17/11 Phone:432-556-8730	Date: 6/17/11									
Attach Additional Sheets If Necessary	ttach Additional Sheets If Necessar									

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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 nergy Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	RECEIVED Form C-141 Revised October 10, 2003 DEC 21 20\$µbmit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form
Release	Notification and Corrective	Action
	OPERATOR	Initial Report X Final Report
Name of Company BOPCO, LP	Contact Tony Savoie	
Address 522 W. Mermod, Suite 704, Carlsbad,	NM 88220 Telephone No. (432)556	-8730
Facility Name Remuda Basin 25 State #1	Facility Type E&P	

Surface Ow	mer State	of N.M.		Lease N	Lease No. E5894			
				LOCA	ATION OF RE	LEASE		· · ·
Unit Letter I	Section 25	Township 23S	Range 29E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy

Phone: (432)556-8730

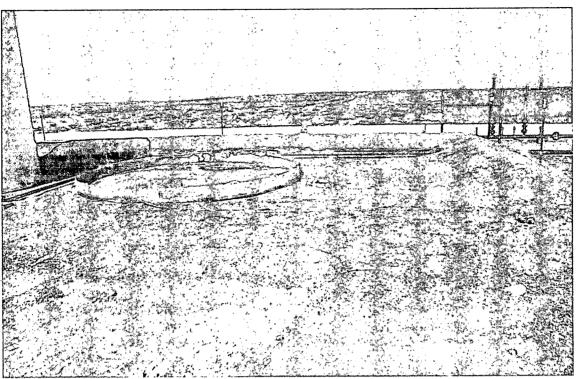
Date: 12/6/2011

Latitude 32.288041° North Longitude 103. 936333° West

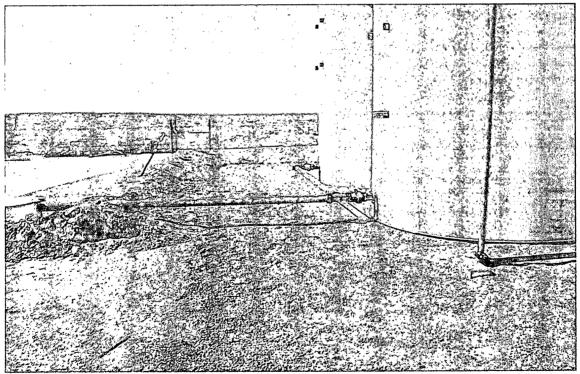
NATURE	OF RELEASE
	N/I CDI (

Type of Release Produced water and condensate	Volume of Release 95 bbls of	Volume Recovered None						
	produced water and less than 1 bbl condensate							
Source of Release 300 bbl produced water tank	Date and Hour of Occurrence	Date and Hour of Discovery						
Source of Release 500 oor produced water tank	6/4/44, between 5 pm and 11 pm	6/5/11 9:00 a.m.						
Was Immediate Notice Given?	If YES, To Whom?							
X Yes No Not Required	Mike Bratcher							
By Whom? Tony Savoie	Date and Hour 6/5/11 7:30 p.m.							
Was a Watercourse Reached?	If YES, Volume Impacting the Wat	ercourse.						
🗌 Yes X No	. · · ·							
If a Watercourse was Impacted, Describe Fully.*								
Describe Cause of Problem and Remedial Action Taken:* The 300 bbl w the next morning, all of the water had soaked into the ground inside the e								
well was shut in the morning of 6/5/11.	arthen containment. There was no evid	lence of the anywhere at the facility. The						
Describe Area Affected and Cleanup Action Taken.* Approximately 2100 sq. ft. inside the containment area and approximately 300 sq. ft. outside the								
containment area on the caliche well pad. Following initial response activ								
reference the attached Remediation Summary & Site Closure Request for								
I hereby certify that the information given above is true and complete t								
regulations all operators are required to report and/or file certain releas								
public health or the environment. The acceptance of a C-141 report by								
should their operations have failed to adequately investigate and remedia								
or the environment. In addition, NMOCD acceptance of a C-141 reported federal, state, or local laws and/or regulations.	in does not relieve the operator of re	sponsibility for compliance with any other						
reuchar, state, or local laws and/or regulations.	OIL CONSERV	ATION DIVISION						
	<u>OIL CONSERV</u>	ATION DIVISION						
Signature: On Dariane								
	Approved by District Supervisor:							
Printed Name: Tony Savoie								
	· · · · ·							
Title: Waste Mgmt. & Remediation Specialist	Approval Date:	Expiration Date:						
E-mail Address: TASavoie@BassPet.com	Conditions of Approval:							
	· · · · · · · · · · · · · · · · · · ·							

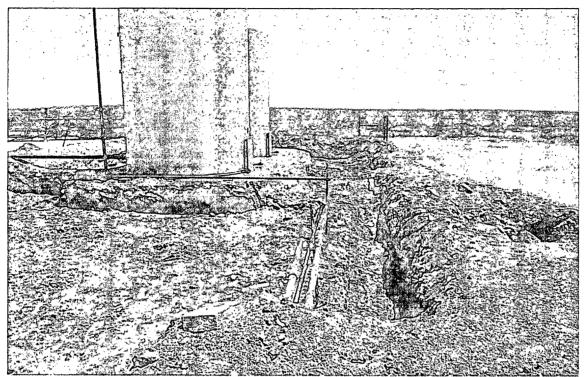
Appendix B Photographs



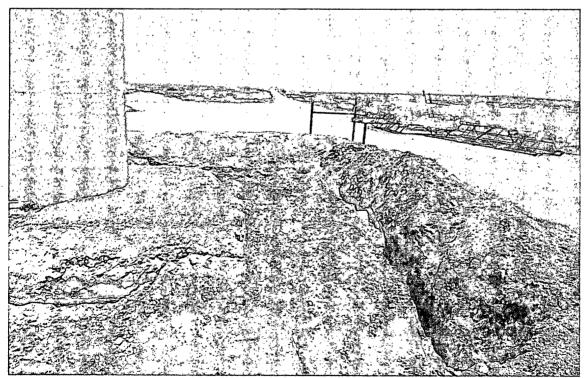
Remuda Basin 25 State #1 - Release Site (looking West)



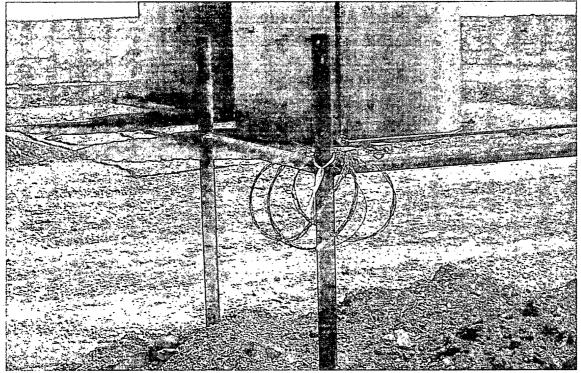
Remuda Basin 25 State #1 - Release Site (looking South)



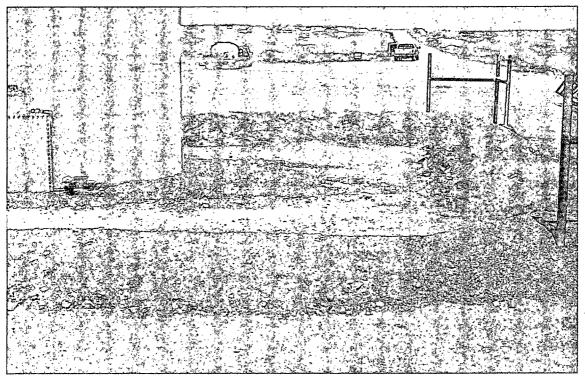
Remuda Basin 25 State #1 - North Excavation (looking South)



Remuda Basin 25 State #1 - South Excavation (looking East)



Remuda Basin 25 State #1 - North Excavation (following backfill, looking Southeast)



Remuda Basin 25 State #1 - South Excavation (following backfill, looking East)

Appendix C Laboratory Analytical Reports



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

Received:	06/09/2011	Sampling Date:	06/08/2011	
Reported:	06/14/2011	Sampling Type:	Soil	
Project Name:	REMUDA BASIN 25 STATE #1	Sampling Condition:	Cool & Intact	
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson	
Project Location:	EDDY COUNTY, NM			

Sample ID: HA 1 SURFACE (H101189-01)

mg/	kg .	· Analyze	d By: HM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
17600	16.0	06/11/2011	ND	464	116	400	3.51	
mg/	kg	Analyze	d By: AB					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
39.4	10.0	06/14/2011	ND	216	108	200	1.49	
4960	10.0	06/14/2011	ND	203	102	200	7.13	
<10.0	10.0	06/14/2011	ND					
134 9	% 70-130)						
148 9	% 70-130)						
	Result 17600 mg/ Result 39.4 4960 <10.0 134 %	17600 16.0 mg/kg mg/kg Result Reporting Limit 39.4 10.0 4960 10.0 <10.0	Result Reporting Limit Analyzed 17600 16.0 06/11/2011. mg/kg Analyzed Result Reporting Limit Analyzed 39.4 10.0 06/14/2011 4960 10.0 06/14/2011 <10.0	Result Reporting Limit Analyzed Method Blank 17600 16.0 06/11/2011. ND mg/kg Analyzed By: AB Method Blank Result Reporting Limit Analyzed Method Blank 39.4 10.0 06/14/2011 ND 4960 10.0 06/14/2011 ND <10.0	Result Reporting Limit Analyzed Method Blank BS 17600 16.0 06/11/2011. ND 464 mg/kg Analyzed By: AB BS Result Reporting Limit Analyzed Method Blank BS 39.4 10.0 06/14/2011 ND 216 4960 10.0 06/14/2011 ND 203 <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery 17600 16.0 06/11/2011. ND 464 116 mg/kg Analyzed By: AB BS % Recovery 39.4 10.0 06/14/2011 ND 216 108 4960 10.0 06/14/2011 ND 203 102 <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 17600 16.0 06/11/2011. ND 464 116 400 mg/kg Analyzed By: AB Method Blank BS % Recovery True Value QC 39.4 10.0 06/14/2011 ND 216 108 200 4960 10.0 06/14/2011 ND 203 102 200 <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 17600 16.0 06/11/2011 ND 464 116 400 3.51 mg/kg Analyzed By: AB Method Blank BS % Recovery True Value QC RPD Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 39.4 10.0 06/14/2011 ND 216 108 200 1.49 4960 10.0 06/14/2011 ND 203 102 200 7.13 <10.0

Sample ID: HA 1 2' BGS (H101189-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					<u> </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	06/11/2011	ND	464	116	400	3.51	

Sample ID: HA 1 4' BGS (H101189-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/11/2011	ND	464	116	400	3.51	

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*=Accredited Analyte

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Celez Et Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/09/2011	Sampling Date:	06/08/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	REMUDA BASIN 25 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: HA 1 6' BGS (H101189-04)

Chloride, SM4500Cl-B		mg,	/kg	Analyze	d By: HM					
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	٥	176	16.0	06/11/2011	ND	464	116	400	3.51	
TPH 8015M		mg,	/kg	Analyzed By: AB						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10		<10.0	10.0	06/14/2011	ND	216	108	200	1.49	
DRO >C10-C28	•	<10.0	10.0	06/14/2011	ND	203	102	200	7.13	
EXT DRO >C28-C35		<10.0	10.0	06/14/2011	ND					
Surrogate: 1-Chlorooctane		121	% 70-130		<u></u>					
Surrogate: 1-Chlorooctadecane		128	% 70-130							

Sample ID: HA 1 8' BGS (H101189-05)

Chloride, SM4500Cl-B mg/kg		Analyze	d By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/11/2011	ND	464	116	400	3.51	

Sample ID: HA 1 10' BGS (H101189-06)

Chloride, SM4500Cl-B mg/kg		Analyze	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/11/2011	ND	464	116	400	3.51	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/09/2011	Sampling Date:	06/08/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	REMUDA BASIN 25 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: HA 1 12' BGS (H101189-07)

BTEX 8260B	mg/	'kg	Analyze	d By: CMS			-24-24-24-24-24-24-24-24-24-24-24-24-24-		•
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	06/13/2011	ND	2.21	111	2.00	7.93	
Toluene*	<0.050	0.050	06/13/2011	ND	2.24	112	2.00	7.82	
Ethylbenzene*	<0.050	0.050	06/13/2011	ND	2.32	116	2.00	8.13	
Total Xylenes*	<0.150	0.150	06/13/2011	ND	6.54	109	6.00	8.53	
Surrogate: Dibromofluoromethane	92.6	% 80-120)						
Surrogate: Toluene-d8	98.5	% 80-120)						
Surrogate: 4-Bromofluorobenzene	106	% 80-120)						
Chloride, SM4500Cl-B	mg /	'kg	Analyzed By: HM				<u></u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/11/2011	ND	464	116	400	3.51	
TPH 8015M	mg,	'kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	06/14/2011	ND	216	108	200	1.49	
DRO >C10-C28	<10.0	10.0	06/14/2011	ND	203	102	200	7.13	
EXT DRO >C28-C35	<10.0	10.0	06/14/2011	ND					
Surrogate: 1-Chlorooctane	151	% 70-130).						
Surrogate: 1-Chlorooctadecane	171	% 70-130)						

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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 6



Notes and Definitions

Z-01	One or more surrogates above historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below $6^{\circ}C$
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	Basin Environmental Service	Techno	ologies, LLC		BILL TO		(14) (11) (11) (11)			ANA	LYSI	S RE	QUES	т		
Project Manager	¹ Ben J. Arguijo			P.O. #:												
Address: P.O.			*	Compar	ny: BOPCO, LP											
City: Lovinge	on State: NM	Zip:	\$8250	Attn: Tony Savoie				1								
	396-2378 - Fax # (575) 3	96-147	33	Address	s: 522 w. Merm	od										
Project #: Project Owner: B0PC0, LP			City: Ca	arlsbad												
	Remuda Basin 25 St	ate	#/	State: 1	NM Zip:88220)										
Project Location				Phone #	#:(432)555-873	10										
Sampler Name:	Jodu Walters			Fax #:					1							
FOR LAR USE CHLY	and the second for the second s	T	MATRIX	PRE	SERV. SAMPLI	٧G	de	5								
Lab !.D. <u>HI</u> DN 중 9	Sample I.D.	(G)RAB OR (C)OMF # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE	OTHER.	TIME	Chlori	BO15.	BTEX							
1	HAI SurFace	G	X 1		X 6-8-11			X								
2	HA1 2'BLS	G	X			10:05	X									_
3	HA1 4'BLS	G	iχ	And the second s		10:15	X					[
2]	HA1 6 365	G	X		X 6-8-11	10:20		X								
<u> </u>	HA1 8' B65	<u>F</u>	X	↓ ↓∕		10:25							-		·	
<u>lo</u>	HA 1 10' B65	<u>6</u>		┟ ── ┃ ──┤┥	X 6-8-11				$\overline{\mathbf{X}}$				-			
	HA1 12'B65	G		↓↓	X 6-8-11	10:35		_X	×+			i				
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		┼─┼╴		┼╍┠╍┼												
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service, in no event shall Cardinal be liable for incluental or consequental damages, inclusing without limiting, business internations, ions of these or loss of profits inturned by client, it's sub-sciences,

attitutes or survivisors ansing out of or related to the perconnance	e of services increander by C	andnal regardless of whether such claim is based upon any of the above stated r	easons or athename		-	
Relinquished By: A	Date: 8-11	Received By:	Phone Result:	🗋 Yes	O No	Add'I Phone #:
	10.8-11		Fax Result:	🛛 Yes	🖸 No	Add'l Fax #:
	Tipe: 1 Du		REMARKS:			
1/00 NOS	15:36Pm	Dakatan Ward	8			·
Relinguished By:	Date:	Received By:	1			
	L-9-11	die a. lat				
In the second se	Time: 7:34	111 MENIARI	1			
DAEATAN WARA	07.24	Marc Survey	Plea	se email	. result	s to pm@basinenv.com
Delivered By: (Circle One)		/ Sample Condition CHECKED BY:	5 TA	avoie®	BassPet.	COM
		, Cool Intact (Inligits)				
Sampler - UPS - Bus - Other:		Pres Pres (HH				
		C Noll No				na na sana na sana manana manana mana ma
		11				

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



July 05, 2011

BEN J. ARGUIJO Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: REMUDA BASIN 25 STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 06/24/11 8:45.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celeg Di Keine

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:	06/24/2011	Sampling Date:	06/23/2011
Reported:	07/05/2011	Sampling Type:	Soil
Project Name:	REMUDA BASIN 25 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		· .

Sample ID: N EXC - N WALL (H101308-01)

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	06/24/2011	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10,0	10.0	06/25/2011	ND	208	104	200	2.59	
DRO >C10-C28	<10.0	10.0	06/25/2011	ND	220	110	200	0.144	
EXT DRO >C28-C35	<10.0	10.0	06/25/2011	ND					
Surrogate: 1-Chlorooctane	105	%)						•
Surrogate: 1-Chlorooctadecane	118	% 70-130	•						

Sample ID: N EXC - E WALL (H101308-02)

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	64.0	16.0	06/24/2011	ND	432	108	400	3.77	
TPH 8015M	mg/l	kg	Analyze	d By: ab				. <u></u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/25/2011	ND	208	104	200	2.59	
DRO >C10-C28	<10.0	10.0	06/25/2011	ND	220	110	200	0.144	
EXT DRO >C28-C35	<10.0	10.0	06/25/2011	ND		1			
Surrogate: 1-Chlorooctane	90.3 %	6 70-130							
Surrogate: 1-Chlorooctadecane	102 %	6 70-130		,					

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/24/2011	Sampling Date:	06/23/2011
Reported:	07/05/2011	Sampling Type:	Soil
Project Name:	REMUDA BASIN 25 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: N EXC - W WALL (H101308-03)

Chloride, SM4500CI-B	mg ,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/24/2011	ND	432	108	400	3.77	
TPH 8015M	mg ,	/kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	· Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/25/2011	ND	208	104	200	2.59	
DRO >C10-C28	<10.0	10.0	06/25/2011	ND	220	110	200	0.144	
EXT DRO >C28-C35	<10.0	10.0	06/25/2011	ND					
Surrogate: 1-Chlorooctane	111	% 70-130)						
Surrogate: 1-Chlorooctadecane	127	% 70-130)						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/24/2011	Sampling Date:	06/23/2011
Reported:	07/05/2011	Sampling Type:	Soil
Project Name:	REMUDA BASIN 25 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: N EXC - FLOOR (H101308-04)

BTEX 8021B	mg/	kg	Analyze	d By: CMS		· .	· · · ·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2011	ND	2.22	111	2.00	21.2	
Toluene*	<0.050	0.050	07/01/2011	ND	2.42	121	2.00	24.5	
Ethylbenzene*	<0.050	0.050	07/01/2011	ND	2.52	126	2.00	24.4	
Total Xylenes*	<0.150	0.150	07/01/2011	ND	7.50	125	6.00	22.2	
Surrogate: 4-Bromofluorobenzene (PIL	109 %	6 70-130)						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/24/2011	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/25/2011	NŅ	208	104	200	2.59	
DRO >C10-C28	2530	10.0	06/25/2011	ND	220	110	200	0.144	
EXT DRO >C28-C35	<10.0	10.0	06/25/2011	ND					
Surrogate: 1-Chlorooctane	126 %	6 70-130)						
Surrogate: 1-Chlorooctadecane	1219	6 70-130)						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/24/2011	Sampling Date:	06/23/2011
Reported:	07/05/2011	Sampling Type:	Soil
Project Name:	REMUDA BASIN 25 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S EXC - E WALL (H101308-05)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	06/24/2011	ND	432	108	400	7.14	
TPH 8015M	mg/	kg	Analyze	d By: ab					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/27/2011	ND	208	104	200	2.59	
DRO >C10-C28	<10.0	10.0	06/27/2011	ND	220	110	200	0.144	
EXT DRO >C28-C35	<10.0	10.0	06/27/2011	ND					
Surrogate: 1-Chlorooctane	69.9 9	% 70-130							
Surrogate: 1-Chlorooctadecane	82.6 9	% 70-130							

Sample ID: S EXC - W WALL (H101308-06)

mg,	/kg	Analyze	d By: HM	<u> </u>				
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
16.0	16.0	06/24/2011	ND	432	108	400	7.14	
mg ,	/kg	Analyze	d By: ab					-
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	06/25/2011	ND	208	104	200	2.59	
<10.0	10.0	06/25/2011	ND	220	110	200	0.144	
<10.0	10.0	06/25/2011	ND					
82.2	% 70-130)	· · · · · · · · · · · · · · · · · · ·					
91.4	% 70-130) .						
	Result 16.0 mg, Result <10.0 <10.0 <10.0	16.0 15.0 mg/kg Result Reporting Limit <10.0	Result Reporting Limit Analyzed 16.0 16.0 06/24/2011 mg/kg Analyzed Result Reporting Limit Analyzed <10.0	Result Reporting Limit Analyzed Method Blank 16.0 16.0 06/24/2011 ND mg/kg Analyzed By: ab Method Blank Result Reporting Limit Analyzed Method Blank <10.0	Result Reporting Limit Analyzed Method Blank BS 16.0 16.0 06/24/2011 ND 432 mg/kg Analyzed By: ab BS Result Reporting Limit Analyzed By: ab Result Reporting Limit Analyzed Method Blank BS <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery 16.0 16.0 06/24/2011 ND 432 108 mg/kg Analyzed By: ab BS % Recovery 10.0 10.0 06/25/2011 ND 208 104 10.0 06/25/2011 ND 200 110 <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 16.0 16.0 06/24/2011 ND 432 108 400 mg/kg Analyzed By: ab Method Blank BS % Recovery True Value QC Analyzed By: ab Method Blank BS % Recovery True Value QC Analyzed Method Blank BS % Recovery True Value QC <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 16.0 16.0 06/24/2011 ND 432 108 400 7.14 mg/kg Analyzed By: ab Method Blank BS % Recovery True Value QC RPD Result Reporting Limit Analyzed By: ab Method Blank BS % Recovery True Value QC RPD <10.0

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/24/2011	Sampling Date:	06/23/2011
Reported:	07/05/2011	Sampling Type:	Soil
Project Name:	REMUDA BASIN 25 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S EXC - S WALL (H101308-07)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/24/2011	ND	432	108	400	7.14	
TPH 8015M	mg/	kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/25/2011	ND	208	104	200	2.59	
DRO >C10-C28	<10.0	10.0	06/25/2011	ND	220	110	200	0.144	
EXT DRO >C28-C35	<10.0	10.0	06/25/2011	ND					
Surrogate: 1-Chlorooctane	123 %	6 70-130							
Surrogate: 1-Chlorooctadecane	112 %	6 70-130						•	

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Celegit Keine

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:	06/24/2011	Sampling Date:	06/23/2011
Reported:	07/05/2011	Sampling Type:	Soil
Project Name:	REMUDA BASIN 25 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONÉ GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S EXC - S FLOOR (H101308-08)

BTEX 8021B	mg /	'kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/27/2011	ND	1.74	87.2	2.00	2.05	
Toluene*	<0.050	0.050	06/27/2011	ND	1.82	91.0	2.00	1.97	
Ethylbenzene*	<0.050	0.050	06/27/2011	ND	1.80	90.2	2.00	2.42	
Total Xylenes*	<0.150	0.150	06/27/2011	ND	5.45	90.8	6.00	2.85	
Surrogate: 4-Bromofluorobenzene (PIL	100	% 70-130				-			
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: HM						•
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/24/2011	ND	432	108	400	7.14	
ТРН 8015М	mg /	'kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2011	ND	208	104	200	2.59	
DRO >C10-C28	<10.0	10.0	06/26/2011	ND	220	110	200	0.144	
EXT DRO >C28-C35	<10.0	10.0	06/26/2011	ND					
Surrogate: 1-Chlorooctane	95.1	% 70-130							
Surrogate: 1-Chlorooctadecane	110 :	% 70-130							

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/24/2011	Sampling Date:	06/23/2011
Reported:	07/05/2011	Sampling Type:	Soil
Project Name:	REMUDA BASIN 25 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S EXC - MID FLOOR EAST (H101308-09)

Chloride, SM4500Cl-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	06/24/2011	ND	432	108	400	7.14	
TPH 8015M	mg/	kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2011	ND	208	104	200	2.59	
DRO >C10-C28	<10.0	10.0	06/26/2011	ND	220	110	200	0.144	
EXT DRO >C28-C35	<10.0	10.0	06/26/2011	ND					
Surrogate: 1-Chlorooctane	110 9	6 70-130							
Surrogate: 1-Chlorooctadecane	. 125 %	6 70-130	•						

Sample ID: S EXC - MID FLOOR W (H101308-10)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/24/2011	ND	432	108	400	7.14	
TPH 8015M	mg,	/kg	Analyze	d By: ab					•
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2011	ND	208	104	200	2.59	
DRO >C10-C28	<10.0	10.0	06/26/2011	ND	220	110	200	0.144	
EXT DRO >C28-C35	<10.0	10.0	06/26/2011	ND					
Surrogate: 1-Chlorooctane	101	% 70-130)						
Surrogate: 1-Chlorooctadecane	114	% 70-130)						
Surroguie. 1-Chiorobeluaecane	114	/0 /0-150	/						

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
*** .	Insufficient time to reach temperature.
-	Chloride by 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

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Celey D. Keene, Lab Director/Quality Manager

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476																								
	Edeln Environmental Service	Tacł	lon	ogie	2. L	ιις	P.O. #:				ANALYSIS REQUEST													
Project Manager: Ben 3. Arguijo													1											
Address: P.O. Box 301						Company: BOPCO, LP																		
City: Lovington State: NM Zip: 88260						Attn: Tony Savoie																		
Phone #: (575)396-2378 Fax #:(575)395-1429						Address: 522 w. Mermod				1			(
Project #: Project Owner: B0PCO, LP						Ci	ity: Ca	arlsb	ad-		Į													
Project Name:	Remark Basin 25 State HI						s	ale:	叫村	Zip:8323	20										1			
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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Sampler - UPS - Bus - Other:

Cool, Intact PYes PYes No No

(Initials)