Basin Environmental Service Technologies, LLC

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Lovington, New Mexico 88260
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Office: (575) 396-2378 Fax: (575) 396-1429



REMEDIATION SUMMARY & SITE CLOSURE REQUEST



BOPCO, LP
POKER LAKE UNIT #236
Eddy County, New Mexico
UNIT LTR "H" (SE/NE), Section 19, Township 24 South, Range 30 East
Latitude 32.206120° North, Longitude 103.912591° 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

June 2011

Ben J. Arguijo

Project Manager

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1.0 INTRODUCTION AND 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 Poker Lake Unit #236. The legal description of the release site is Unit Letter "H" (SE/NE), Section 19, Township 24 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.206120° North latitude and 103.912591° 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 July 5, 2010, BOPCO discovered a release had occurred at the Poker Lake Unit #236 pumping well. A pipe connection on the wellhead of the chemical injection pump was damaged, resulting in a release of produced water and crude oil. The release was reported to the New Mexico Oil Conservation Division (NMOCD) Artesia District Office. The "Release Notification and Corrective Action" (Form C-141) indicated approximately five (5) barrels of produced water and approximately five (5) barrels of crude oil was released, with no recovery. 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 19, Township 24 South, Range 30 East. A depth-to-groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately two hundred and twenty-five (225) to two hundred and fifty (250) feet 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 PLU #236 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)

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 July 15, 2010, Basin collected seventeen (17) soil samples (SP #1 @ 1',SP #1 @ 3', SP #2 @ 1', SP #2 @ 3', SP #2 @ 8', SP #3 @ 1', SP #3 @ 6', SP #3 @ 12', SP #3b @ 2', SP #4 @ 1', SP #4 @ 6', SP #4 @ 12', SP #5 @ 1', SP #6 @ 1', Baseline Northwest @ 1', Baseline Northwest @ 3', and Northeast Pad Surface) to delineate the vertical and horizontal extent of contamination at the site. The soil samples were submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis of chloride concentrations using EPA Method 4500 Cl-B. Selected soil samples (SP #1 @ 1', SP #2 @ 3', SP #3 @ 1', SP #3 @ 12', SP #4 @ 1', and SP #4 @ 12') were also analyzed for total petroleum hydrocarbon (TPH) concentrations using EPA Method SW-846 8015M. 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 less than the laboratory method detection limit (MDL) in soil samples SP #5 @ 1', SP #6 @ 1', Baseline Northwest @ 1', and Northeast Pad Surface to 7,920 mg/Kg in soil sample SP #3 @ 1'. TPH concentrations ranged from less than the laboratory MDL in soil samples SP #2 @ 3', SP #3 @ 1', SP 33 @ 12', and SP #4 @ 12' to 64.6 mg/Kg in soil sample SP #1 @ 1'. Review of the laboratory analytical results indicated TPH concentrations were less than the NMOCD regulatory standard for all submitted soil samples.

On January 21, 2011, excavation of impacted soil began at the site. Hach Quantab Chloride Low Range (30-600 mg/Kg) Titrators were used to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. Excavation to the east of the release was precluded by the proximity of the Poker Lake Unit #236 well. Excavated soil was stock-piled on-site, pending final disposition.

From January 24 through February 11, 2011, approximately eleven hundred (1,100) cubic yards of impacted soil was excavated and transported to Lea Land, Inc. (NMOCD Permit # WM-01-035), for disposal.

On January 25, 2011, two (2) soil samples (Well Head Area 6' BGS and Well Head Area 10' BGS) were submitted to Cardinal Laboratories for analysis of chloride concentrations. Soil sample Well Head Area 10' BGS was also analyzed for TPH and benzene, toluene, ethylbenze, and total xylene (BTEX) concentrations. Chloride concentrations ranged from 256 mg/Kg in soil sample Well Head Area 10' BGS to 720 mg/Kg in soil sample Well Head Area 6' BGS. TPH and BTEX constituent concentrations in soil sample Well Head Area 10' BGS were less than the appropriate laboratory MDL. Review of the laboratory analytical results indicated BTEX, TPH, and chloride concentrations were less than NMOCD regulatory standards for all submitted soil samples.

On January 26, 2011, two (2) soil samples (North Runoff West Floor and North Runoff Mid Floor) were submitted to Cardinal Laboratories for analysis of TPH and chloride concentrations. TPH concentrations were less than the laboratory MDL for all submitted soil samples. Chloride concentrations ranged from 160 mg/Kg in soil sample North Runoff West Floor to 256 mg/Kg in soil sample North Runoff Mid Floor. Review of the laboratory analytical results indicated TPH

and chloride concentrations were less than NMOCD regulatory standards for all submitted soil samples.

On January 27, 2011, three (3) soil samples (North Runoff Area North Wall, North Runoff Area East Wall, and North Runoff Area East Floor) were submitted to Cardinal Laboratories for analysis of TPH and chloride concentrations. TPH concentrations were less than the laboratory MDL for all submitted soil samples. Chloride concentrations ranged from 208 mg/Kg in soil sample North Runoff Area North Wall to 480 mg/Kg in soil sample North Runoff Area East Wall. Review of the laboratory analytical results indicated TPH and chloride concentrations were less than NMOCD regulatory standards for all submitted soil samples.

On February 11, 2011, seven (7) soil samples (North Runoff Sec 2 North Wall, North Runoff Sec 2 West Wall, North Runoff Sec 2 Floor, South Runoff North Wall, South Runoff South Wall, South Runoff West Wall, and South Runoff Floor) were submitted to Cardinal Laboratories for analysis of TPH and chloride concentrations. TPH concentrations were less than the laboratory MDL for all submitted soil samples. Chloride concentrations ranged from 224 mg/Kg for soil sample North Runoff Sec 2 North Wall to 880 mg/Kg for soil sample South Runoff North Wall. Review of the laboratory analytical results indicated TPH and chloride concentrations were less than NMOCD regulatory standards for all submitted soil samples.

Based on laboratory analytical results, on February 11, 2011, the excavation was backfilled in eighteen (18)-inch lifts, compacted, and contoured to fit the surrounding topography. Prior to backfilling, final dimensions of the excavation were approximately one-hundred and eleven (111) feet in length, approximately sixty-one (61) feet in width, and ranging in depth from approximately one (1) foot to eight and one-half (8.5) feet in depth.

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 EPA Method SW-846 8015M
- Chloride concentrations in accordance with EPA Method 4500 Cl-B

4.2 Decontamination of Equipment

Cleaning of the sampling equipment was the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment was cleaned with Liqui-Nox® detergent and rinsed with distilled water.

4.3 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody form(s). These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

5.0 SITE CLOSURE REQUEST

Soil samples collected from the floors and sidewalls of the PLU #236 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 BLM a copy of this *Remediation Summary & Site Closure Request* and request the NMOCD grant site closure to the PLU #236 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.

7.0 DISTRIBUTION:

Copy 1: Mike Bratcher

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division (District 2)

1301 E. Grand Avenue Artesia, NM 88210

Copy 2: James Amos

Bureau of Land Management

602 E. Greene Street Carlsbad, NM 88220

Copy 3: Tony Savoie

BOPCO, LP

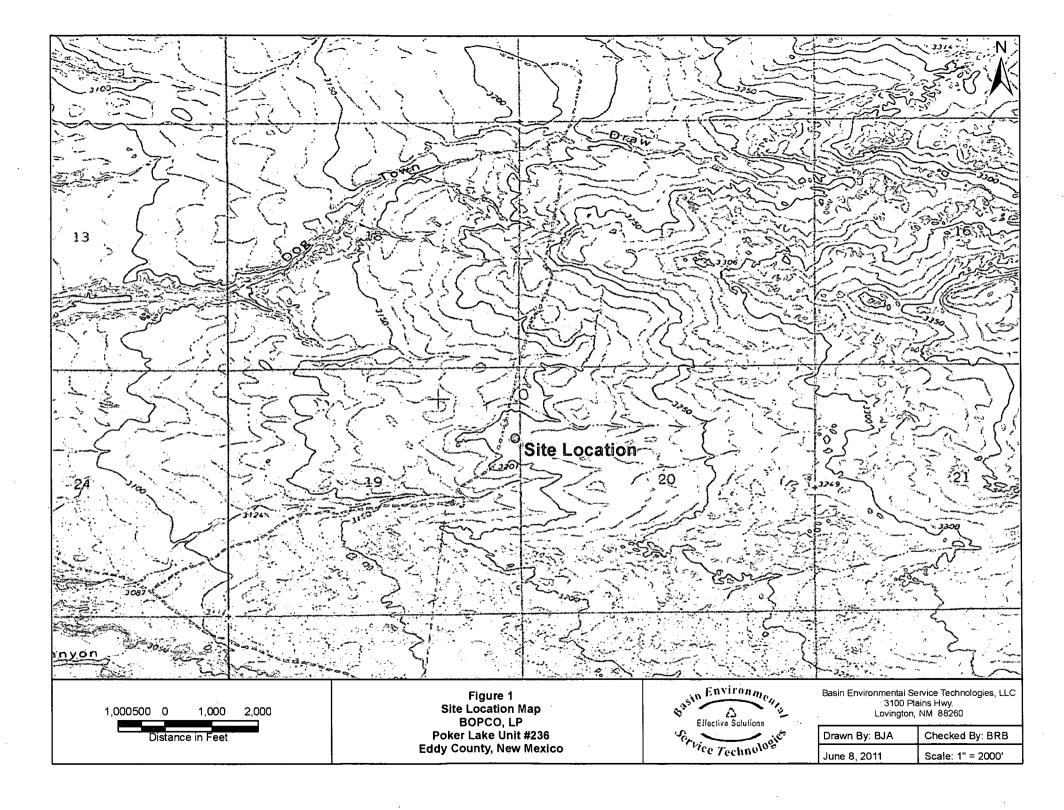
522 W. Mermod, Suite 704 Carlsbad, NM 88220

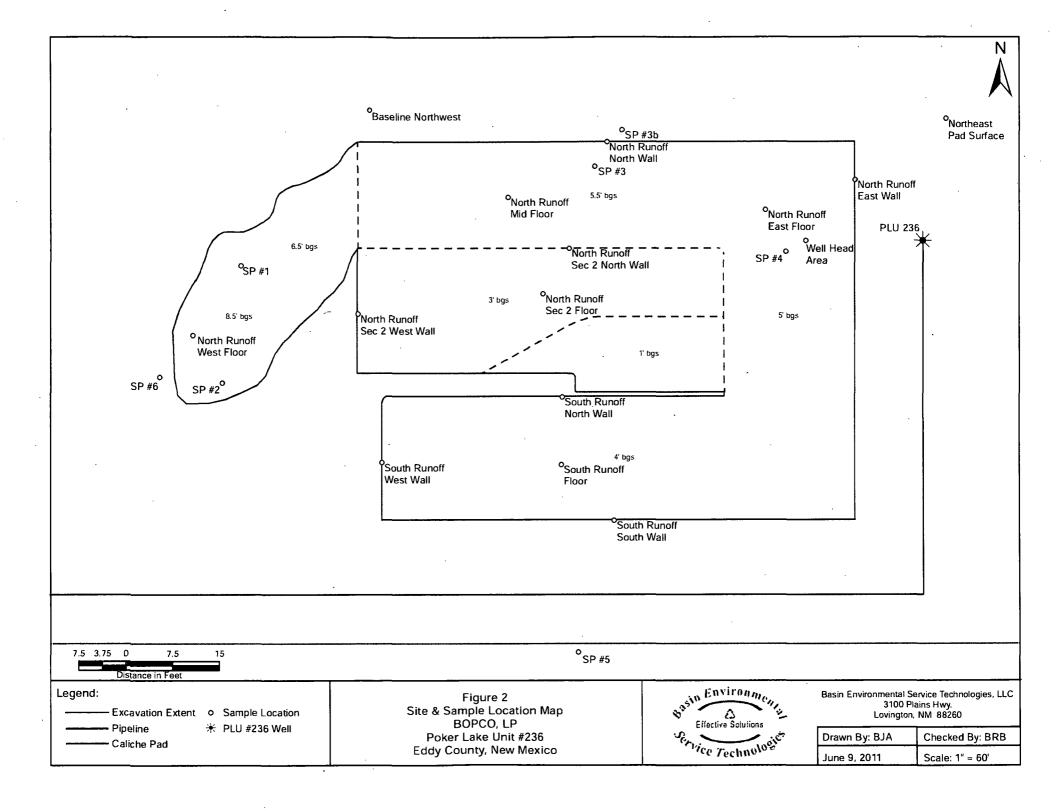
Copy 4: Basin Environmental Service Technologies, LLC

P.O. Box 301

Lovington, NM 88260

Figures





Tables

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDES IN SOIL

BOPCO, LP POKER LAKE UNIT 236 PUMPING WELL EDDY COUNTY, NEW MEXICO

					METHOD: EI	PA SW 846-80	21B. 5030		ME.	THOD: 801	5M	TOTAL	4500 CI-B
	SAMPLE	SAMPLE	SOIL			ETHYL-	TOTAL	TOTAL	GRO	סאט	ORO	TPH	
SAMPLE LOCATION	DEPTH	DATE	STATUS	BENZENE	TOLUENE	BENZENE	XYLENES	BTEX	C ₆ -C ₁₂	C ₁₂ -C ₂₈	C28-C35	C ₆ -C ₃₅	CHLORIDE
	(BGS)			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
SP #1 @ 1'	1'	07/15/10	In-situ	-	-	-	-	-	<10.0	20.9	43.7	64.6	256
SP #1 @ 3'	3'	07/15/10	In-situ	-	-	-	-	-	-	-	-	-	144
SP #2 @ 1'	1'	07/15/10	In-situ	-	-	-	-	-	-	-	-	-	32
SP #2 @ 3'	3'	07/15/10	In-situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	480
SP #2 @ 8'	8'	07/15/10	In-situ	-	-				-	-	•	-	432
SP #3 @ 1'	1'	07/15/10	In-situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	7,920
SP #3 @ 6'	6'	07/15/10	In-situ	-	1	-	-	•			-	-	240
SP #3 @ 12'	12'	07/15/10	In-situ	•	-		-	-	<10.0	<10.0	<10.0	<10.0	592
SP #3b @ 2'	2'	07/15/10	In-situ	-	٠		-			-	-		288
SP #4 @ 1'	1'	07/15/10	In-situ	-	•	•	-	-	<10.0	15.1	<10.0	15.1	4,000
SP #4 @ 6'	6'	07/15/10	In-situ	-	-	-	•	-	-		-	•	416
SP #4 @12'	12'	07/15/10	In-situ	-	•	-	-		<10.0	<10.0	<10.0	<10.0	272
SP #5 @ 1'	1'	07/15/10	In-situ	-	-	-	-	•			-	-	<16
SP #6 @ 1'	1'	07/15/10	In-situ	-	-	•	-	-			-	•	<16
Baseline Northwest @ 1'	1'	07/15/10	In-situ	-	-	•	-	-			-	•	<16
Baseline Northwest @ 3'	3'	07/15/10	In-situ	-	-	-	-	-	-	-	-	-	256
Northeast Pad Surface	Surface	07/15/10	In-situ	-	-	-	-	-	-	-	-	-	<16
													<u> </u>
Well Head Area 6' BGS	6'	1/25/2011	In-situ	•	-	-		-	-	-	-	-	720
Well Head Area 10' BGS	10'	1/25/2011	In-situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10	<10	<10	<10	256
	· .	·											ļ
North Runoff West Floor	5.5'	1/26/2011	In-situ	-	-	-	<u> </u>	-	<10	<10	<10	<10	256
North Runoff Mid Floor	4.5'	1/26/2011	In-situ	-	-	-		ļ <u> </u>	<10	<10	<10	<10	160
North Runoff Area North Wall		1/27/2011	In-situ					-	<10	<10	<10	<10	208
North Runoff Area East Wall	5.5' 5.5'	1/27/2011	In-situ				-	- -	<10	<10	<10	<10	480
North Runoff Area East Wall	5.5'	1/27/2011	In-situ	-	-			-	<10	<10	<10	<10	416
North Runon Area East Floor	3.5	1/2//2011	เมา-รแน	-				 	- `10	<u> </u>	10	710	410
North Runoff Sec 2 North Wall	6.5'	2/11/2011	In-situ	_		-		<u> </u>	<10	<10	<10	<10	224
North Runoff Sec 2 West Wall	8.5'	2/11/2011	In-situ	-		•	-	-	<10	<10	<10	<10	656
North Runoff Sec 2 Floor	8.5'	2/11/2011	In-situ	-		-		-	<10	<10	<10	<10	240
South Runoff North Wall	4'	2/11/2011	In-situ	-	_	_		-	<10	<10	<10	<10	880
South Runoff South Wall	4'	2/11/2011	In-situ	<u>-</u>	-	-	-		<10	<10	<10	<10	656
South Runoff West Wall	4'	2/11/2011	In-situ		-	-	-	-	<10	<10	<10	<10	800
South Runoff Floor	4'	2/11/2011	In-situ	-	-	-	-	· ·	<10	<10	<10	<10	496
			-							1	100		
NMOCD Criteria				10				50				5,000	1,000
- Not analyzed											ــــــــــــــــــــــــــــــــــــــ		

- = Not analyzed.

Appendices

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

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 Fc, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division

1220 South St. Francis Dr.

Form C-141 Revised October 10, 2003

NMOCD ARTESIA

JUL 15 2010 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** Final Report **OPERATOR** Initial Report Contact Tony Savoie Name of Company BOPCO, L.P. Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 Telephone No. 432-556-8730 Facility Name Poker Lake Unit 236 Pumping Well Facility Type E&P Surface Owner Federal Mineral Owner Federal Lease No. LOCATION OF RELEASE North/South Line Feet from the East/West Line County Unit Letter Section Township Range Feet from the Eddy Н 19 248 30E Latitude N 32.206120 Longitude W 103.912591 NATURE OF RELEASE Volume of Release: 5 Bbls of Type of Release: Produced water and crude oil Volume Recovered: 0 Produced water and 5 Bbls of crude oil. Source of Release: 1" pipe connection on the well head. Date and Hour of Occurrence Date and Hour of Discovery 7/5/10 8:00 a.m. Unkown Was Immediate Notice Given? If YES, To Whom? ☐ Ycs ☐ No ☒ Not Required By Whom? Date and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes 🖾 No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* A pipe connection on the well head for the chemical injection pump was damaged possibly by a cow. The well was shut down stopping the release of fluid, the line and connections were replaced. Describe Area Affected and Cleanup Action Taken.*The released fluid affected an area of approximately 5400 sq. ft on the caliche well pad, the saturated soil was scrapped up and placed on plastic on the well pad location. The area will be sampled for vertical extent on 7/14/10. A remediation plan with the sample results will be submitted to the NMOCD following the 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 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 Signature: Approved by District Supervisor: Printed Name: Tony Savoie Title: Waste Mgmt. & Remediation Specialist Approval Date: **Expiration Date:** E-mail Address: TASavoie@BassPct.com Conditions of Approval: Attached

Phone:432-556-8730

Date: 7/14/10

Attach Additional Sheets If Necessary

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 PECEIVED
Form C-141

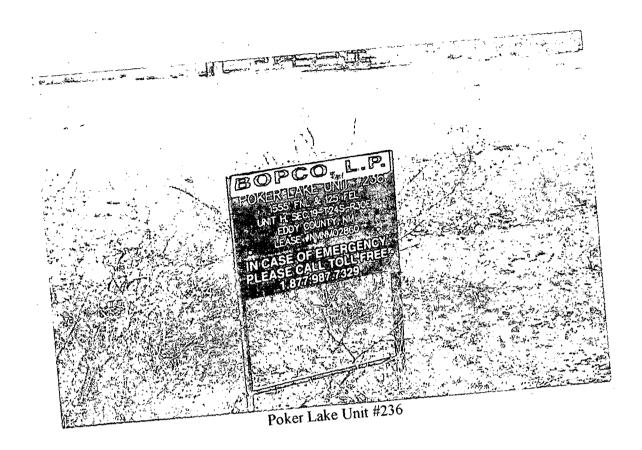
DEC 21 2011
Submit 2 Copies to appropriate
District Office in accordance

NMOCD ARTESIA Rule 116 on back
side of form

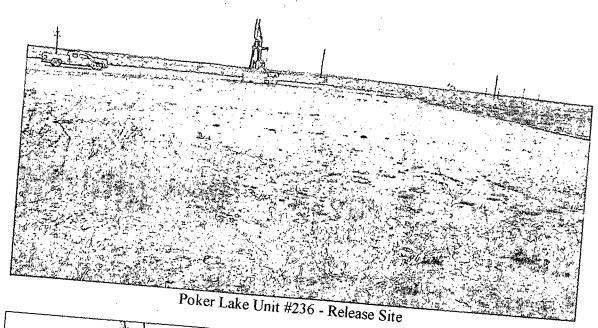
Release Notification and Corrective Action

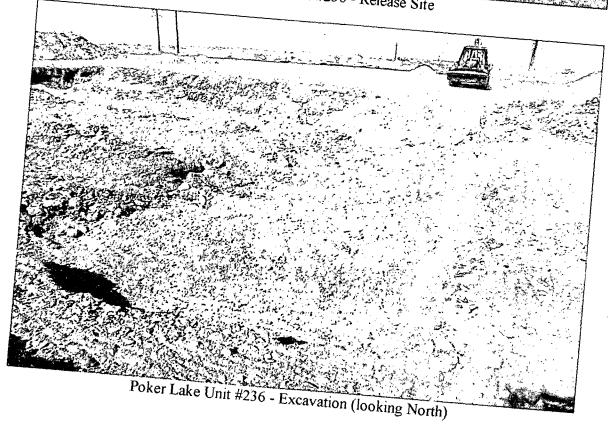
		•		•	OPER	RATOR			Initial F	Report	X Final Report
Name of Co		BOPCO, LI				Contact To	ony Savoie				
				sbad, NM 8822			No. (432)556-8	730			
Facility Nar	ne Poker	Lake Unit 2	236 Pump	oing Well	<u> </u>	Facility Typ	e E&P				
Surface Ow	ner Feder	ral		Mineral O	wner	Federal			Lease N	lo.	
				LOCA	TION	OF REI	LEASE				
Unit Letter H	Section 19	Township 24S	Range 30E	Feet from the	North/	South Line	Feet from the	East/We	st Line	County Eddy	
			Latit	ıde 32.206120°	North		Longitude 103	3. 912591	° West		
				NAT	URE	OF RELI	EASE				_
Type of Relea	ase Produc	ed water and o	rude oil	,		I .	Release 5 bbls of vater and 5 bbls of		/olume R	Recovered	None
Source of Re	lease A 1"	pipe connecti	on on the	well head.		Date and I- Unknown	lour of Occurrence			Hour of Di 8:00 AM	scovery
Was Immedia	ate Notice C		s No X	Not Required		If YES, To	Whom?				
By Whom?	Tony Savoi	e				Date and F	lour 7/5/10, 10:30	O AM			
Was a Water	course Read		Yes >	(No		If YES, Vo	olume Impacting t	he Waterc	ourse.		
If a Watercou	rse was Imp	pacted, Descri	be Fully.*			.l					
Describe Cau A pipe conne fluid, and the	ection on th	e well head f	or the che	mical injection pu	ımp was	s damaged, p	possibly by a cow	. The wel	l was sh	ut down st	opping the release of
	fluid affect tion. Follow	ed an arca of wing initial re	approximas sponse ac	ately 5,400 sq. ft of tivities, the releas							aced on plastic on the attached Remediation
regulations al public health should their o	Il operators or the envi operations h nment. In	are required ronment. The ave failed to addition, NM	to report e acceptar adequately OCD acc	and/or file certain ace of a C-141 rep investigate and r	release oort by temediat	notifications the NMOCD te contaminate	s and perform con marked as "Fina tion that pose a th	rrective ac ! Report" ireat to gro	ctions for does not ound wat	releases, relieve the er, surface	o NMOCD rules and which may endanger e operator of liability water, human health liance with any other
a		- Q	9				OIL CONS	SERVA	TION	DIVISI	<u>ON</u>
Signature: Printed Name	Tony Sa		UUO			Approved by	District Superviso	or:			
Title: Waste			pecialist	 		Approval Dat	e:	Ext	piration I	Date:	
E-mail Addre			,			Conditions of					
Date: 12/6/20	11_		Pl	none: (432)556-87	30						

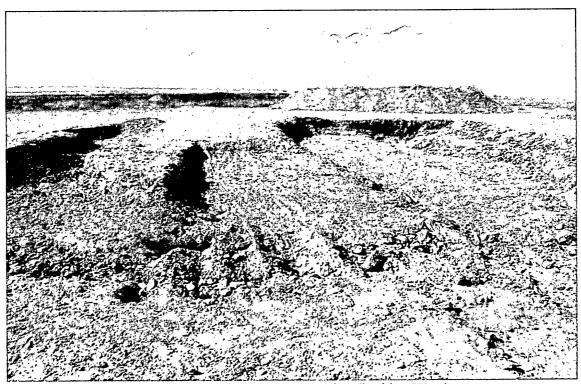
Appendix B Photographs



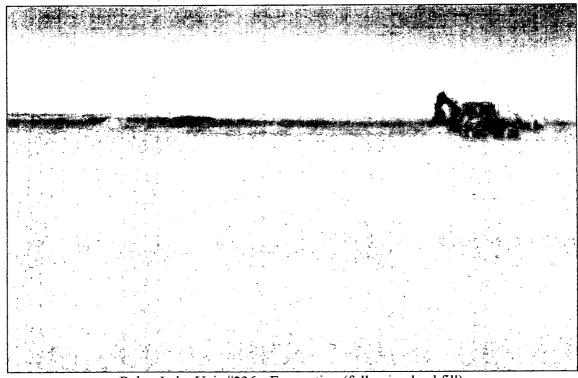
Poker Lake Unit #236 - Release Site







Poker Lake Unit #236 - Excavation (looking West)



Poker Lake Unit #236 - Excavation (following backfill)

Appendix C Laboratory Analytical Reports



July 27, 2010

Camille Bryant
Basin Environmental Consulting, LLC.
P.O. Box 381
Lovington, NM 88260

Re: PLU 236 (BOPCO)

Enclosed are the results of analyses for sample number H20382, received by the laboratory on 07/20/10 at 3:50 pm.

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 Hydrocarbons

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

Cardinal Laboratories is accredited though 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 524.2

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 5 (includes Chain of Custody)

Sincerely.

Celey D Keene

Laboratory Director



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC

ATTN: CAMILLE BRYANT

P.O. BOX 381

LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 07/20/10 Reporting Date: 07/24/10 Project Owner: NOT GIVEN

Project Name: PLU 236

Project Location: NOT GIVEN

Analysis Date: 07/22/10 Sampling Date: 07/15/10

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 2.5°C

Sample Received By: JH

Analyzed By: HM

		CI
LAB NUMBER	SAMPLE ID	(mg/kg)
H20382-1	SP #1 @ 1'	256
H20382-2	SP #1 @ 3'	144
H20382-3	SP #2 @ 1'	32
H20382-4	SP #2 @ 3'	480
H20382-5	SP #2 @ 8'	432
H20382-6	SP #3 @ 1'	7,920
H20382-7	SP #3 @ 6'	240
H20382-8	SP #3 @ 12'	592
H20382-9	SP #3b @ 2'	288
H20382-10	SP #4 @ 1'	4,000
H20382-11	SP #4 @ 6!	416
H20382-12	SP #4 @ 12'	272
H20382-13	SP #5 @ 1'	< 16
H20382-14	SP #6 @ 1'	< 16
H20382-15	BASELINE NORTHWEST @ 1'	< 16
H20382-16	BASELINE NORTHWEST @ 3'	256
H20382-17	NORTHWEST PAD SURFACE	< 16
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percen	t Difference	< 0.1

METHOD: Standard Methods

4500-CIB

Note: Analyses performed on 1:4 w:v aqueous extracts.

Date

H20382 Basin



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING

ATTN: CAMILLE BRYANT

P.O. BOX 381

LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 07/20/10 Reporting Date: 07/26/10

Reporting Date: 07/26/10 Project Owner: NOT GIVEN

Project Name: PLU 236

Project Location: NOT GIVEN

Sampling Date: 07/15/10 Sample Type: SOIL

Sample Condition: COOL & INTACT @ 2.5°C

Sample Received By: JH

Analyzed By: AB

		GRO	DRO	DRO ext.
	1	(C_6-C_{10})	(>C ₁₀ -C ₂₈)	(>C ₂₈ -C ₃₅)
LAB NUMBEI	R SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS D	ATE	07/22/10	07/22/10	07/22/10
H20382-1	SP#1 @ 1'	<10.0	20.9	43.7
H20382-4	SP#2 @ 3'	<10.0	<10.0	<10.0
H20382-6	SP#3 @ 1'	<10.0	<10.0	<10.0
H20382-8	SP#3 @ 12'	<10.0	<10.0	<10.0
H20382-10	SP#4 @ 1'	<10.0	15.1	<10.0
H20382-12	SP#4 @ 12'	<10.0	<10.0	<10.0
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Quality Contr	ol	487	476	-
True Value Q	C	500	500	407
% Recovery		97.4	95.2	-
Relative Perc	ent Difference	0.6	0.6	_

METHODS: TPH GRO & DRO; EPA SW-846 8015 M extended Reported on wet weight. Not accredited for GRO/DRO/DRO Ext.

Lab Director

Date

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

Company Name	Basin Finisoningual	, V	4.4	منا	<u> </u>	-	Т		Æ	B/L	L TO			# 4 <u>04 1010 117 117</u>			ANA	LYSI	S RE	QUE	ST			
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city: Louina	tous State: IVIM	Zip	: <i>6</i>	826	O						Savo													
Phone #: 5 25	-1005-7210 Fax#:				,	************		ddre		7										ŀ				
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Sampler Name:	Jodi Walters						F	ax #:					4500	ر (ا	90									'
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		(G)RAB (# CONTAINERS	GROUNDWATER WASTEWATER	片	Ol.	OTHER:	ACID/BASE:	ICE/COOL	Ï	DATE	TIME	Chilorido	I P.H	1-8									
H20382.1	50 51 0 .1	6	*	<u> </u>	X	0 0	<i>n</i> 0	Ř	9 (2	7/15/10	<u> </u>	\vdash	X	-31.5	 		 	<u> </u>					
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4	SP#2@3'									1		9:10	\sqcap	X	1								-	
	SPH208'											9:20								·				
6	5P#3@1'		Ш		Ш							10:00		义	<u> </u>	<u> </u>	ļ	ļ	<u> </u> -		<u> </u>			
-7	5P#3@61		Ш		Ш							10:20		<u> </u>	ļ	ļ	ļ		ļ	<u> </u>	ļ			
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393/2476

#26

ARDINAL LABORATORIES

101 East Mariand, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

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

Sampler - UPS - Bus - Other:



February 04, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU 236

Enclosed are the results of analyses for samples received by the laboratory on 01/25/11 16:07.

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,

Celey D. Keene

Lab Director/Quality Manager

Celey & Keine



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

Fax To:

(575) 396-1429

Received:

01/25/2011

Reported:

02/04/2011

Project Name:

PLU 236

Project Number: Project Location:

AFE 24752

EDDY COUNTY, NEW MEXICO

Sampling Date:

01/25/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: WELL HEAD AREA 6' BGS (H100174-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: LR			<u></u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	01/26/2011	ND	432	108	400	0.00	

Sample ID: WELL HEAD AREA 10' BGS (H100174-02)

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	02/03/2011	ND	2.21	111	2.00	5.26	
Toluene*	<0.050	0.050	02/03/2011	ND	2.27	113	2.00	7.18	
Ethylbenzene*	<0.050	0.050	02/03/2011	ND	2.32	116	2.00	8.13	
Total Xylenes*	<0.150	0.150	02/03/2011	ND	6.86	114	6.00	7.52	
Surrogate: 4-Bromofluorobenzene (PIL	96.0	% 70-130	1			•			
Chloride, SM4500CI-B	mg /	′kg	Analyze	d By: LR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	01/26/2011	ND	432	108	400	0.00	
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	01/27/2011	ND	249	99.6	250	1.08	
DRO >C10-C28	<10.0	10.0	01/27/2011	ND	227	90.8	250	0.143	
EXT DRO >C28-C35	<10.0	10.0	01/27/2011	ND					
Surrogate: 1-Chlorooctane	94.8	% 70-130		- 100 - 100 - 10					
Surrogate: 1-Chlorooctadecane	101	% 70-130	,						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Lish lity and Damages. Cardinal's lish lity and client's exclusive remedy for any claim arising, whether based in contact or bott, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistowers shall be deemed warked unless made in writing and received by Cardinal within thirty (20) 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 started resours 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 & 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-8 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: Litability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or bott, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed watered unless made in witing 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 abaddances, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated resons or otherwise, Results relate only to the samples identified above. This report shall not be reproduced except in full with written approved of Cardinal abovedories.

Celegi Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	Basin Environmental S					7 43 W 100 100 100 100 100 100 100 100 100 1	#EVC#	7	es and a constant	- T-	F?##	L TO	ESCAPER CLARACTE	Andrews Common	part net anger et e			ANA	YSIS	RE	QUE	ST	CLOS TO SECURIOR		-
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



January 28, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU 236

Enclosed are the results of analyses for samples received by the laboratory on 01/26/11 16:51.

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,

Celey D. Keene

Lab Director/Quality Manager

Celeg Li Keine



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

Fax To:

(575) 396-1429

Received:

01/26/2011

Reported:

01/28/2011

Project Name:

PLU 236

Project Number:

AFE 24752

Project Location:

EDDY COUNTY, NEW MEXICO

Sampling Date:

01/26/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

### Sample ID: N RUNOFF W FLOOR 5.5 BGS (H100188-01)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: JM			_		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	01/27/2011	ND	448	. 112	400	3.64	
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	01/27/2011	ND	249	99.6	250	1.08	
DRO >C10-C28	<10.0	10.0	01/27/2011	ND	227	90.8	250	0.143	
EXT DRO >C28-C35	<10.0	10.0	01/27/2011	ND					
Surrogate: 1-Chlorooctane	108 9	% 70-130	)						
Surrogate: 1-Chlorooctadecane	1149	% 70-130	)	•					

### Sample ID: N RUNOFF MID FLOOR 4.5 BGS (H100188-02)

Chloride, SM4500Cl-B	mg/i	kg .	Analyze	d By: LR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	. % Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/27/2011	ND	448	112	400	3.64	
TPH 8015M	mg/l	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	01/28/2011	ND	249	99.6	250	1.08	
DRO >C10-C28	<10.0	10.0	01/28/2011	ND	227	90.8	250	0.143	
EXT DRO >C28-C35	<10.0	10.0	01/28/2011	ND					
Surrogate: 1-Chlorooctane	93.1 %	6 70-130	***						
Surrogate: 1-Chlorooctadecane	99.5 %	6 70-130							

### Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Libility and Damages. Cardinal's kibility and clients exclusive remedy for any claim arising, whether based in contact or bott, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitsoever shall be deemed waived unless made in writing and received by Cardinal within thitly (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business thermptions, loss of use, or loss of profits incurred by client, its arbsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above static resons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal taboratories.

Celey L. 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: Libility and Damages. Cardinals liability and clients exclasive remedy for any claim arising, whether based in contact or bort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitsoever shall be deemed waitered 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 substitiaties, 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 resource or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approved of Cardinal abovalatoris.

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 Environmen	tal Service "	rec!	nol	oqie	s, l	LLC	Т			BI	LL TO	**************************************		***************************************		in an Paris of the	ANA	YSIS	RE	QUE:	ST	***************************************	
Project Manage	^I Ben J. Arquijo							F	².O.	#:	<del></del>				***************************************		1				Place to a security	, tz <del>a mper</del> taki		
Address: P.O.							<del></del>	0	om	ıpan	y: B	OPCO, LP												
City: Lovingto	on	State: NN	Zip	: 88	260			1	\ttn	: .T	олу	Savoie							;					
Phone #: (575	396-2378	Fax #: (575) 39	96 - 1	429				1	\dd	ress	: 52:	w. Men	tod											
Project#: AFE	#24752	Project Owner	: 80	РСО	, 1.P			C	City:	: Ca	rlsb	ad												
Project Name:	PLU 236							5	itate	e: N	ы	Zip: 8822	0				1							
Project Location	1: PL4236.	EDDY, C	Ø: 4	10,7	M.			F	hoi	ne#	:(43	2)556-87	30											1
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February 01, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

**RE: PLU 236** 

Enclosed are the results of analyses for samples received by the laboratory on 01/27/11 15:38.

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,

Celey D. Keene

Lab Director/Quality Manager

Celey & Keine



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

Fax To:

(575) 396-1429

Received:

01/27/2011

Reported:

02/01/2011

Project Name:

PLU 236

Project Number: Project Location:

AFE 24752

EDDY COUNTY, NEW MEXICO

Sampling Date:

01/27/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: NORTH RUNOFF AREA E FLOOR 5.5 BGS (H100193-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzėd	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	·416	16.0	01/28/2011	ND	400	100	400	3.92	
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	01/31/2011	ND	236	94.4	250	0.298	
DRO >C10-C28	<10.0	10.0	01/31/2011	ND	211	84.4	250	2.46	
EXT DRO >C28-C35	<10.0	10.0	01/31/2011	ND					
Surrogate: 1-Chlorooctane	94.9	% 70-130			,,				
Surrogate: 1-Chlorooctadecane	97.3	% 70-130	ı						

### Sample ID: NORTH RUNOFF AREA E WALL 5.5 BGS (H100193-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM			•		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	01/28/2011	ND	400	100	400	3.92	
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	01/31/2011	ND	236	94.4	250	0.298	
DRO >C10-C28	<10.0	10.0	01/31/2011	ND	211	84.4	250	2.46	
EXT DRO >C28-C35	<10.0	10.0	01/31/2011	ND			•		
Surrogate: I-Chlorooctane	107	% 70-130	)						
Surrogate: 1-Chlorooctadecane	109	% 70-130	)				•		

### Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keine



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

Fax To:

(575) 396-1429

Received: Reported: 01/27/2011

02/01/2011

Project Name: Project Number: PLU 236

Project Location:

AFE 24752

EDDY COUNTY, NEW MEXICO

Sampling Date:

01/27/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

### Sample ID: NORTH RUNOFF AREA N WALL 5.5 BGS (H100193-03)

Chloride, SM4500CI-B	mg ,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/28/2011	ND	400	100	400	3.92	
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	01/31/2011	ND	236	94.4	250	0.298	
DRO >C10-C28	<10.0	10.0	01/31/2011	ND	211	84.4	250	2.46	
EXT DRO >C28-C35	<10.0	10.0	01/31/2011	ND					
Surrogate: 1-Chlorooctane	99.7	% 70-130	)						
Surrogate: 1-Chlorooctadecane	102	% 70-130	)				-		

### Cardinal Laboratories

*=Accredited Analyte



### **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

PLESCE NUMBER Little grant Committed and search sections in the amount paid of control of analyses. All claims, including mode for negugierize and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be flable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substitialies, affiliates or successors arising out of or related to the performance of the services hereunded 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.

Celup & Keine



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	Basîn Environm	ental Service T	rech	no!	ogie	s,	LLC	T		BI	L	L TO						ANA	LYSIS	S RE	QUE	ST			
Project Manage	^{r:} Ben J. Arguijo							Ρ.	O. #:																
Address: P.O.								Çc	mpa	iny: ŧ	301	PCO, LP							l		İ				
City: Lovinger	on	State: NM	Zip	: 8	3260			At	tn:	Tony	S	avoie													
Phone #: (575)	1396-2378	Fax #: (575) 33	<del>1</del> 6-1	.429	)			Αc	ldres	ss: 52	2	w. Mem	od												
Project#: AF	5#2475Z	Project Owner	; BC	PCC	), և։	3		Ci	ty: C	arls	bac	d					l								
Project Name: }	>LU 236							St	ale:	MM	Z	ip:88220	)	i											
Project Location	1: PLU 236	EDDY, CO	Ŋ	<u>((, )</u>				Ph	опе	#; (43	32)	556-87	30												
Sampler Name:	Jodywalters						t	Fa	x.#:							}				1					
FOR LAB USE ONLY				Γ		MA	TRIX		PRE	SERV	1	SAMPLI	NG	2				ŀ		1					
Lab I.D.	Sample	I.D	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	OTHER;	ACID/BASE:	ICE / COOL OTHER.		DATE	TIME	Phlorid	W5108			•							
H100193.1	North Runoffarco	East Floor Sta	G	Ī		Ìχ	li			χ		1-27-11	10:30Ax	*	X										
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analyses. As is time mouth service. In payment that C	nd Damages. Cambrol sillabaty and ingithose for negagence and any of ardinal be liable for incidental or or ingigut of or related to the perform	ter cause unaleneuer shall bit : nsequental damages, including	deenne Luighti	d walv ut land	ed unless stion but	s muse i siness in	n vaiting s Leinsplach	no rece Liters (	elved by Di use, d	Catamat of tose of	digyr l Mona	on 30 days afte Animounted by t	r completion of t bemute subsidia	ne applica: ines,	0:6	-									
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Sampler - UPS	- Bus - Other:		2	0		NO.	Intact,	≥s lo		451	W	us) -													



February 15, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU 236

Enclosed are the results of analyses for samples received by the laboratory on 02/11/11 17:26.

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,

Celey D. Keene

Lab Director/Quality Manager

Celeg L'Keine



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

- - (---)

Fax To:

(575) 396-1429

Received:

02/11/2011

Sampling Date:

02/11/2011

Reported:

02/15/2011

Sampling Type:

Soil

Project Name:

PLU 236

Sampling Condition:

Cool & Intact

Project Number: Project Location:

AFE 24752

EDDY COUNTY, NEW MEXICO

Sample Received By:

Jodi Henson

### Sample ID: SOUTH RUNOFF W WALL 4' (H100283-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					<u> </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	02/14/2011	ND	416	104	400	0.00	
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	02/15/2011	ND	214	107	200	0.929	
DRO >C10-C28	<10.0	10.0	02/15/2011	ND	226	113	200	1.74	
EXT DRO .> C28-C35	<10.0	10.0	02/15/2011	ND					
Surrogate: 1-Chlorooctane	78.6	% 70-130							
Surrogate: 1-Chlorooctadecane	79.9	% 70-130							

### Sample ID: SOUTH RUNOFF S WALL 4' (H100283-02)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	02/14/2011	ND	416	104	400	0.00	
ТРН 8015М	mg/	kg	Analyze	d By: AB				- Water	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/15/2011	ND	214	107	200	0.929	
DRO >C10-C28	<10.0	10.0	02/15/2011	ND	226	113	200	1.74	
EXT DRO >C28-C35	<10.0	10.0	02/15/2011	ND				•	
Surrogate: I-Chlorooctane	99.83	% 70-130							
Surrogate: 1-Chlorooctadecane	105 %	6 70-130	)						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Likhflity and Damages. Cardinal's likhflity and client's exclusive remedy for any claim arising, whether based in contact or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other curse whetherevers shall be deemed worked unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal the Bable for incidental or consequential damages, including, without final, thou, however, the property of the contact of a 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 related only to the samples tientified above. This report shall not be reproduced except in full with written approved of Cardinal Luboratories.

Celegi Keine



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

Fax To:

(575) 396-1429

Received:

02/11/2011

Reported:

02/15/2011

Project Name: Project Number: PLU 236

Project Location:

AFE 24752

EDDY COUNTY, NEW MEXICO

Sampling Date:

02/11/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

### Sample ID: N RUNOFF SEC 2 N WALL 6.5 (H100283-03)

Chloride, SM4500Cl-B	mg /	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/14/2011	ND	416	104	400	0.00	•
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	02/15/2011	ND	214	107	200	0.929	
DRO >C10-C28	<10.0	10.0	02/15/2011	ND	226	113	200	1.74	
EXT DRO >C28-C35	<10.0	10.0	02/15/2011	ND					
Surrogate: 1-Chlorooctane	90.8	% 70-130	)						
Surrogate: 1-Chlorooctadecane	101	% 70-130	)	•					

### Sample ID: N RUNOFF SEC 2 FLOOR 8.5 (H100283-04)

Chloride, SM4500Cl-B	mg/	kg	Analyze	đ By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/14/2011	ND	416	104	400	0.00	
TPH 8015M	mg/l	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	02/15/2011	ND	214	107	200	0.929	
DRO >C10-C28	<10.0	10.0	02/15/2011	ND	226	113	200	1.74	
EXT DRO >C28-C35	<10.0	10.0	02/15/2011	ND					
Surrogate: 1-Chlorooctane	97.9 9	6 70-130							
Surrogate: 1-Chlorooctadecane	105 %	6 70-130							

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Celey D. Keine



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

Fax To:

(575) 396-1429

Received:

02/11/2011

Reported:

02/15/2011

Project Name: Project Number: PLU 236

Project Location:

AFE 24752

EDDY COUNTY, NEW MEXICO

Sampling Date:

02/11/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

### Sample ID: N RUNOFF SEC 2 W WALL 8.5 (H100283-05)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	02/14/2011	ND	416	104	400	0.00	
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	02/15/2011	ND	214	107	200	0.929	
DRO >C10-C28	<10.0	10.0	02/15/2011	ND .	226	113	200	1.74	
EXT DRO >C28-C35	<10.0	10.0	02/15/2011	ND					
Surrogate: I-Chlorooctane	98.6	% 70-130	)						
Surragate: LChlorooctadecane	103	% 70-130	)						

### Sample ID: S RUNOFF N WALL 4' (H100283-06)

Chloride, SM4500CI-B	mg ,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	02/14/2011	ND	416	104	400°	0.00	
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	02/15/2011	ND	214	107	200	0.929	
DRO >C10-C28	<10.0	10.0	02/15/2011	ND	226	113	200	1.74	
EXT DRO >C28-C35	<10.0	10.0	02/15/2011	ND					
Surrogate: 1-Chlorooctane	101	% 70-130	1	·					
Surrogate: 1-Chlorooctadecane	107	% 70-130	•					-	

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*=Accredited Analyte

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Basin Environmental Service

BEN J. ARGUIJO

P.O. Box 301

Lovington NM, 88260

Fax To:

(575) 396-1429

Received:

02/11/2011

Reported:

02/15/2011

Project Name: Project Number: PLU 236

AFE

Project Location:

AFE 24752 EDDY COUNTY, NEW MEXICO Sampling Date:

02/11/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: S RUNOFF FLOOR 4' (H100283-07)

Chloride, SM4500CI-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	02/14/2011	ND	416	104	400	0.00	
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	02/15/2011	ND	214	107	200	0.929	
DRO >C10-C28	<10.0	10.0	02/15/2011	ND	226	113	200	1.74	
EXT DRO >C28-C35	<10.0	10.0	02/15/2011	ND					
Surrogate: 1-Chlorooctane	89.8	% 70-130	)			<b></b>	=		
Surrogate: 1-Chlorooctadecane	94.7	% 70-130	)						

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Celey & Kune



### **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 SM4500CI-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

*=Accredited Analyte

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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, ILC				BILL TO				ANALYSIS REQUEST											
Project Manager: Earn J. Arqui 10				P.O. #:					* 1376-14471-1				Charles and the same						-
Address: P.O. Box 301				Company: BOFCO, I.P.														-	
				Aun: Teny Savoie															
Phone #: (575)396-2378 Fax #: (575)396-1429				Address: 522 w. Mermod													.		
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