Basin Environmental Service Technologies, LLC

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REMEDIATION SUMMARY & SITE CLOSURE REQUEST

BOPCO, LP
POKER LAKE UNIT 152 Pumping Well
Eddy County, New Mexico
UNIT LTR "H" (SE/NE), Section 6, Township 24 South, Range 30 East
Latitude 32.248470° North, Longitude 103.914220° West

Prepared For:

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

Prepared By:

Basin Environmental Service Technologies, LLC 2800 Plains Highway Lovington, New Mexico 88260

December 2011

 Ben J. Arguijo	
Project Manager	

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1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary & Site Closure Request* for the release site known as Poker Lake Unit 152 Pumping Well. The legal description of the release site is Unit Letter "H" (SE/NE), Section 6, Township 24 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.248470° North latitude and 103.914220° 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 August 15, 2011, BOPCO discovered a release had occurred at the Poker Lake Unit 152 Pumping Well. The stuffing box rubbers on the wellhead failed, 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 on August 22, 2011. The "Release Notification and Corrective Action" (Form C-141) indicated approximately ten barrels (10 bbls) of produced water and five barrels (5 bbls) of crude oil was released, with no recovery. During initial response activities, the stuffing box rubbers were replaced, and heavily saturated soil was excavated and stockpiled on-site, pending final disposition.

The release was confined to the caliche pad surrounding the Poker Lake Unit 152 Pumping Well and affected an area measuring approximately three thousand square feet (3,000 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 6, 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 feet (200') 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 Poker Lake Unit 152 Pumping Well 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

Following initial response activities, on August 15, 2011, excavation of impacted soil commenced at the site. Hach Quantab chloride titrators were used to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. From August 16 through August 30, 2011, excavated soil was stockpiled on-site, pending final disposition.

From September 9 through September 12, 2011, approximately six hundred and forty cubic yards (640 yd³) of impacted soil was transported to Lea Land, Inc. (NMOCD Permit # WM-01-035) for disposal.

On September 12, 2011, thirteen (13) soil samples (Sample 1 through Sample 13) were collected from the floor and sidewalls of the excavation and submitted to Cardinal Laboratories (Hobbs, New Mexico) for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX), total petroleum hydrocarbons (TPH), and/or chlorides using EPA methods SW-846 8021b, SW-846 8015M, and 4500 Cl-B, respectively. 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 benzene, BTEX, and TPH concentrations were less than the appropriate laboratory method detection limit (MDL) in all soil samples submitted. Chloride concentrations ranged from less than the laboratory MDL in soil sample Sample 9 to 624 mg/Kg in soil sample Sample 12. Review of laboratory analytical results indicated benzene, BTEX, TPH, and chloride concentrations were less than NMOCD regulatory standards in all soil samples submitted.

On September 14, 2011, one (1) five-point composite soil sample (Stockpile) was collected from the stockpiled material on-site. The soil sample was submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated the TPH concentration in soil sample Stockpile was 49.8 mg/Kg, and the chloride concentration was 544 mg/Kg. Soil represented by soil sample Stockpile was deemed suitable for use as backfill material.

On September 13 and September 14, 2011, the stockpiled material was blended on-site with approximately six hundred and forty cubic yards (640 yd³) of non-impacted soil purchased from Lea Land, Inc., for use as backfill material.

Based on laboratory analytical results and field-screens, from September 19 through September 23, 2011, the excavation was backfilled in eighteen inch (18") lifts, compacted, and contoured to fit the surrounding topography. Final dimensions of the excavation were approximately one hundred and thirty-four feet (134') in length, approximately seventy-four feet (74') in width, and ranging in depth from approximately six inches (6") to three feet (3') bgs.

Following backfilling activities, the access road into the site was repaired with non-impacted material purchased from Lea Land, Inc.

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 floor and sidewalls of the Poker Lake Unit 152 Pumping Well excavation were analyzed by an NMOCD-approved laboratory, and concentrations of benzene, BTEX, TPH, and chloride were less than the remediation levels established for the site. Based on these laboratory analytical results, Basin recommends BOPCO provide the NMOCD Artesia District and the BLM a copy of this *Remediation Summary & Site Closure Request* and request the NMOCD grant site closure to the Poker Lake Unit 152 Pumping Well 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, New Mexico 88210

Copy 2: James Amos

Bureau of Land Management

602 E. Greene Street

Carlsbad, New Mexico 88220

Copy 3: Tony Savoie

BOPCO, LP

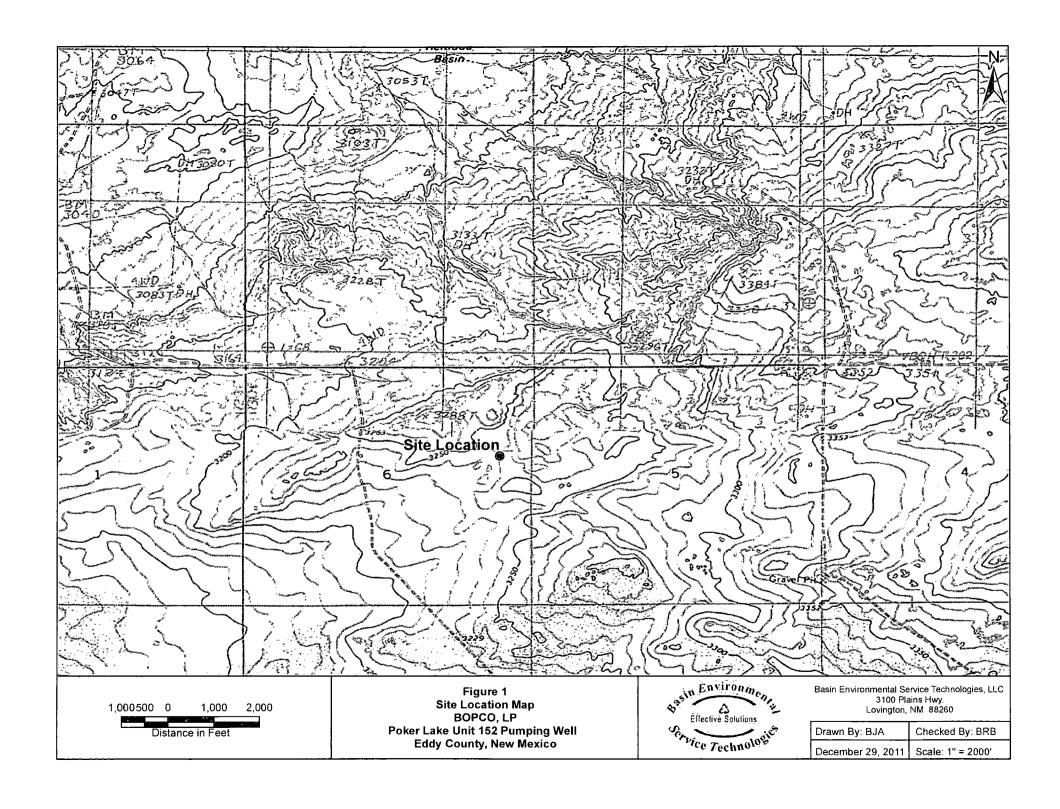
522 W. Mermod, Ste. 704 Carlsbad, New Mexico 88220

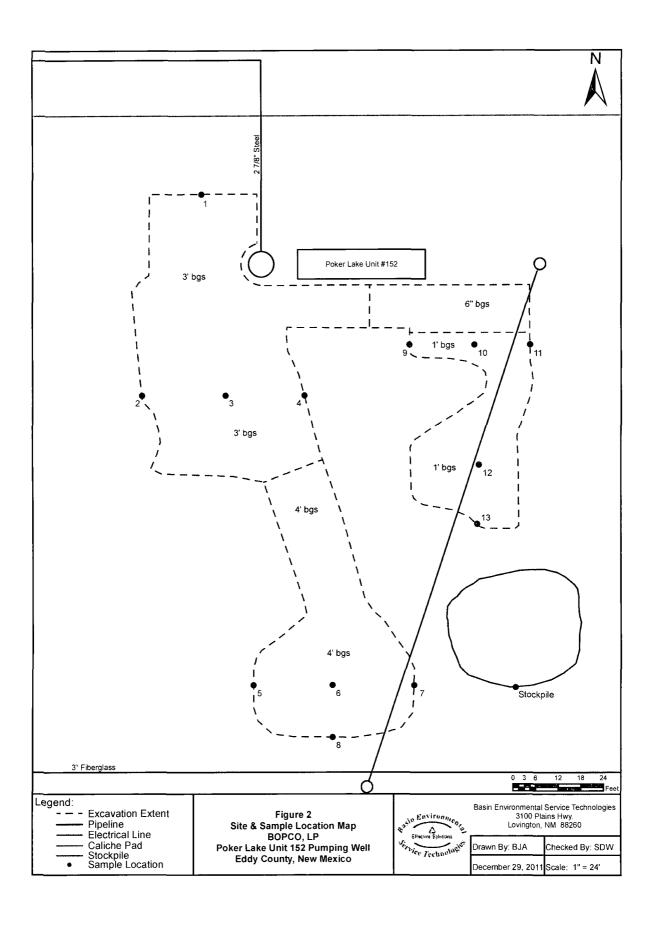
Copy 4: Basin Environmental Service Technologies, LLC

P.O. Box 301

Lovington, New Mexico 88260

Figures





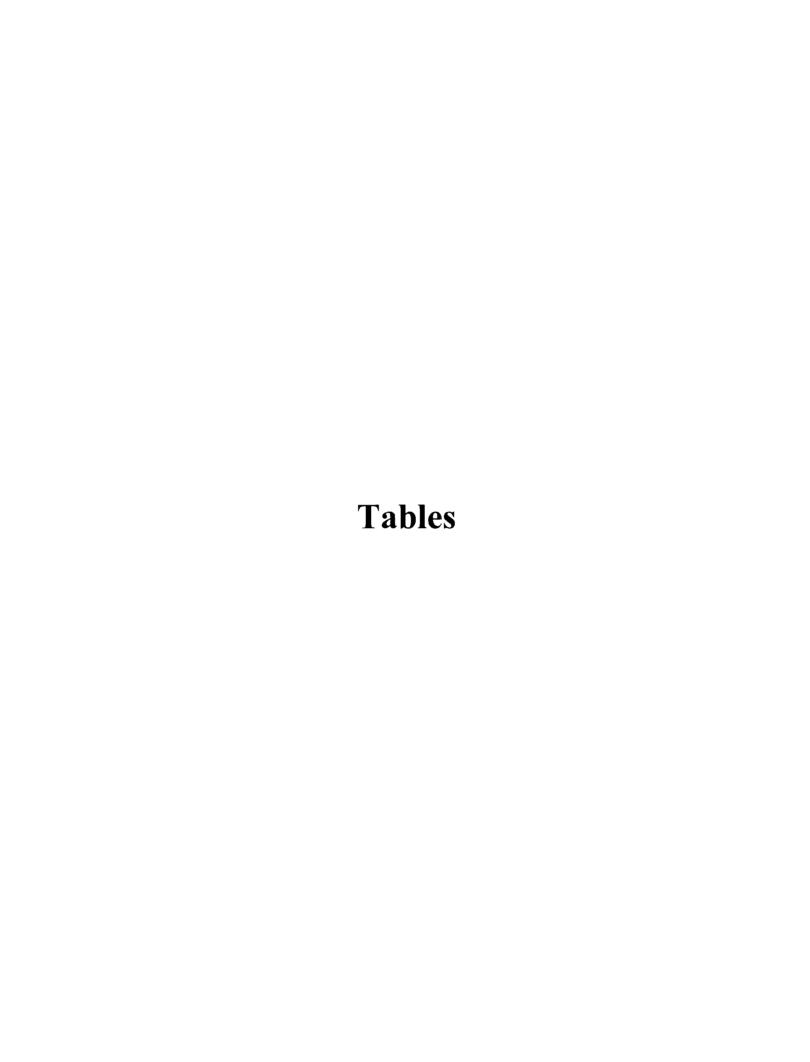
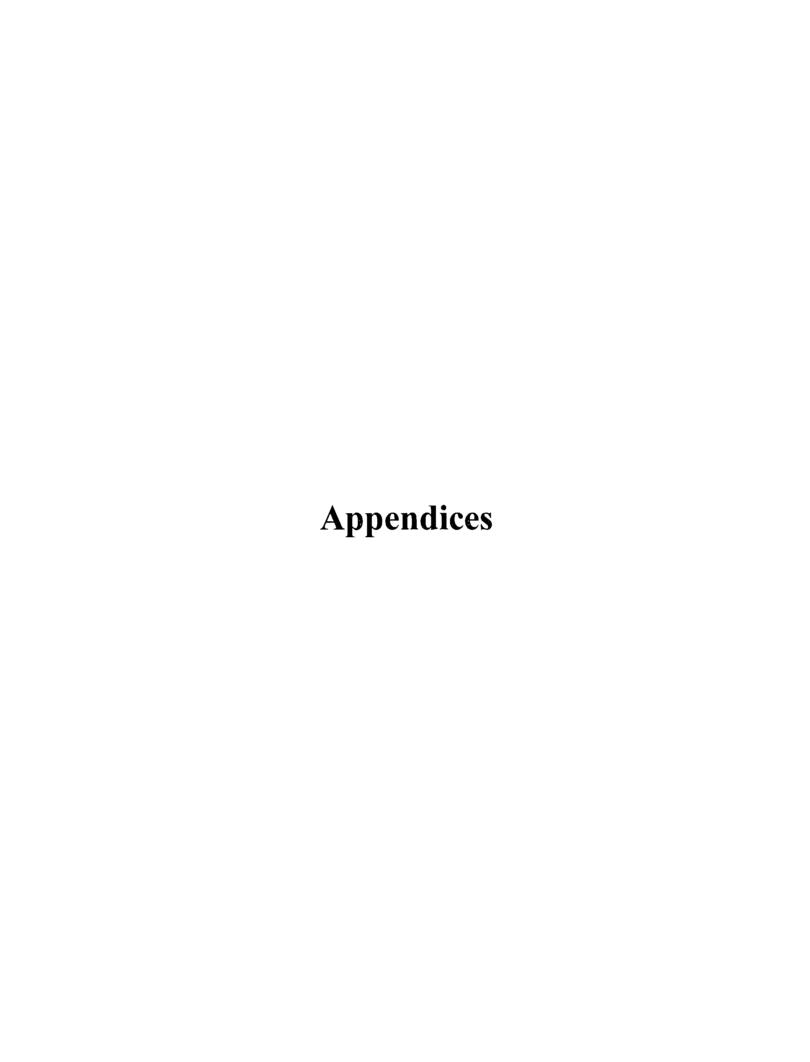


TABLE 1 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDES IN SOIL

BOPCO, LP POKER LAKE UNIT 152 PUMPING WELL EDDY COUNTY, NEW MEXICO

	CAMPIE	-			METHOD: El	PA SW 846-80	21B, 5030		METHOD: 8015M			TOTAL	E 300
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE	TOTAL XYLENES	TOTAL BTEX	GRO C ₆ -C ₁₂	DRO C ₁₂ -C ₂₈	ORO C ₂₈ -C ₃₅	TPH C ₆ -C ₃₅	CHLORIDE (mg/Kg)
					, , ,	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)		(mg/Kg)	(mg/Kg)	1=0
Sample 1	2'	9/12/2011	In-situ	-		-	-	-	<10.0	<10.0	<10.0	<10.0	176
Sample 2	2'	9/12/2011	In-situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	176
Sample 3	3'	9/12/2011	In-situ	-	_	-	-	-	<10.0	<10.0	<10.0	<10.0	512
Sample 4	2'	9/12/2011	In-situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	290
Sample 5	3'	9/12/2011	In-situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	160
Sample 6	4'	9/12/2011	In-situ	-	-	-	-	_	<10.0	<10.0	<10.0	<10.0	496
Sample 7	3'	9/12/2011	In-situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	210
Sample 8	3'	9/12/2011	In-situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	128
Sample 9	1'	9/12/2011	In-situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	<16.0
Sample 10	1'	9/12/2011	In-situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	16.0
Sample 11	1'	9/12/2011	In-situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	560
Sample 12	1'	9/12/2011	In-situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	624
Sample 13	1'	9/12/2011	In-situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	16.0
Stockpile	N/A	9/14/2011	Excavated	-	-	-	-	-	<10.0	49.8	<10.0	49.8	544
NMOCD Criteria				10				50				5,000	

^{- =} Not analyzed.



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

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

State of New Mexico Energy Minerals and Natural Resources

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

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

			Rele	ease Notifica	atior	n and Co	orrective A	ction			•
						OPERA	TOR	[🛚 Initia	al Report 🔲 Final 1	Report
Name of Co	ompany Bo	OPCO, L.P.				Contact Ton	y Savoie				
				ad, N.M. 88220			No. 432-556-87	30			
Facility Na	me Poker I	Lake Unit 15	2 Pumpii	ng Well		Facility Typ	e E&P				
Surface Ow	ner Federa	al		Mineral Ov	wner F	Federal			Lease N	lo.	
				LOCA	TIOI	N OF REI	LEASE				
Unit Letter H	Section 6	Township 24S	Range 30E	Feet from the	North/	South Line	Feet from the	East/W	est Line	County Eddy	
	<u></u>										
			1	_atitude_N 32.24	1847 0_	Longitu	de W 103.9142	220			
		·····	*****	NATI	URE	OF RELI					
Type of Rele	ase: Produc	ced water and	crude oil			Produced v	Release: 10 Bbl water and 5 Bbls		Volume F	Recovered: 0	
Source of Re	elease: 1" pi	pe connection	on the we	ll head.			lour of Occurrence			Hour of Discovery	
		<u> </u>				8/15/11 tin			8/15/11 1	0:30 a.m.	
Was Immedi	ate Notice (Yes [] No ⊠ Not Rec	quired	If YES, To	wnom?				
By Whom?						Date and H					
Was a Water	course Read		1	1		If YES, Vo	lume Impacting	the Water	course.	DE OFILER	-
			Yes 🗵							RECEIVE	الرا
If a Waterco	urse was Im	pacted, Descr	ibe Fully.'	ķ						AUG 22 2011	
										NINGOOD ADTES]
•									i	NMOCD ARTES	IAJ
Describe Car	use of Probl	em and Reme	dial Actio	n Taken.* The stuff	fing bo	ox rubbers on	the wellhead faile	ed, the ru	bbers were	e replaced.	
Describe Are	a Affected	and Cleanup,	Action Tal	cen.*The released f	fluid af	fected an area	of approximatel	y 3000 so	ft on the	caliche well pad, the satur	ated
										remediation plan with the	•
1 hereby cort	if will be su	information a	iven above	following the reco	ommeno	ded guideline	s for the remedian	tion of lea	aks and sp	ills. suant to NMOCD rules and	
regulations a	il operators	are required t	o report ar	id/or file certain re	lease n	otifications a	nd perform correct	ctive action	o mai puis	eases which may endanger	
public health	or the envi	ronment. The	acceptano	ce of a C-141 repor	t by the	e NMOCD m	arked as "Final R	eport" de	es not reli	ieve the operator of liability	v
should their	operations h	nave failed to	adequately	investigate and rem	mediat	e contaminati	on that pose a thr	eat to gro	ound water	, surface water, human hea	alth
		uddition, NMC ws and/or regi		tance of a C-141 re	eport d	oes not reliev	e the operator of	responsib	oility for c	ompliance with any other	
Teacrus, state	, 01 10001 10	ins aria or rege	aratrons.				OIL CON	SERV	ATION	DIVISION	
g: ,	10	. 0	P		i		<u> </u>	OISIC 11	IIIOI	DIVIDIOI	
Signature:	<u> </u>	y Dan	Lee			Approved by	District Supervis	or:			
Printed Nam	e: Tony Sav	oie									
Title: Waste	Mgmt.& Re	emediation Sp	ecialist			Approval Dat	e:	E	xpiration	Date:	
										T	
E-mail Addre	ess: TASavo	oic@BassPet.	com			Conditions of	Approval:			Attached	
Date: 8/22/1	l			Phone:432-556-87	730						ļ

Date: 8/22/11
* 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

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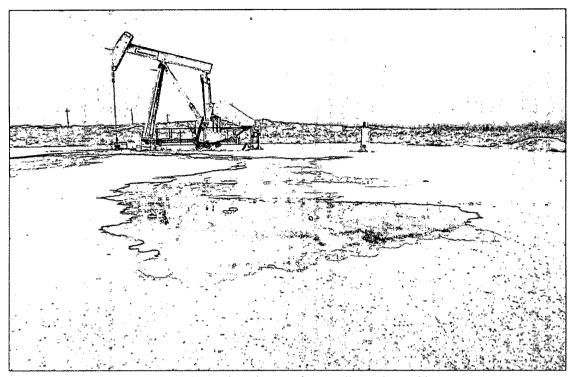
Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

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

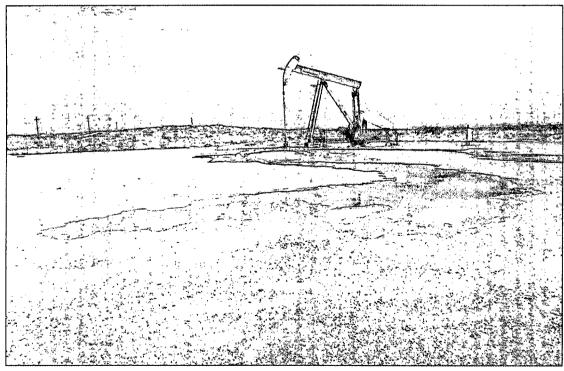
Release Notification and Corrective Action

				OP	ERATOR		Ir	nitial Re	port	X Final Report
Name of Co		BOPCO, LI			Contact To					
				sbad, NM 88220		No. (432)556-8	730			
Facility Nan	ne Poker	Lake Unit 1	52 Pump	ing Well	Facility Typ	be E&P				
Surface Ow	ner Feder	al		Mineral Owne	r Federal		L	ease No.		-
				LOCATI	ON OF RE	LEASE				
Unit Letter H	Section 6	Township 24S	Range 30E	Feet from the No	th/South Line	Feet from the	East/West		County Eddy	
			<u>Latit</u>	ude 32.248470°_Noi	th	Longitude 10	3.914220°	West		ė,
				NATUR	E OF REL	EASE				
Type of Relea						f Release 10 bbls water and 5 bbls o		lume Rec	covered	0
Source of Re	lease 1" pi	pe connection	on the we	llhead	I	Hour of Occurrence me unknown		te and Ho		scovery
Was Immedia	ate Notice C	iven? Ye	s No	X Not Required	If YES, To	Whom?	<u>'</u>			EIVED
By Whom?					Date and I	Hour		- 		
Was a Water	course Reac	hed?				olume Impacting t	the Watercou	urse.	JAN	0 4 2012
] Yes X	No				١		ARTESIA
If a Watercou	irse was Im	pacted, Descri	ibe Fully.*					N	MOGE	AHLOM
Describe Cau	se of Proble	em and Remed	dial Action	Taken:* The stuffing	box rubbers on	the wellhead faile	ed. The rubb	ers were	replaced.	
response acti Site Closure	vities, the re Request for	elease was re- remediation of	nediated i letails.	ten.* The release affer n accordance with NN	10CD and BLN	1 guidelines. Plea	se reference	the attac	hed Remo	ediation Summary &
regulations a public health should their o	Il operators or the envi operations h nment. In	are required ronment. The lave failed to addition, NM	to report a e acceptan adequately IOCD acce	e is true and complet and/or file certain rele acc of a C-141 report investigate and reme eptance of a C-141 re	ase notification by the NMOCE diate contamina	s and perform con marked as "Fina- tion that pose a th	rrective actional Report" de la grou	ons for re oes not re and water.	eleases, velieve the surface	which may endanger operator of liability water, human health
			O	· · · · · · · · · · · · · · · · · · ·		OIL CON	SERVAT	ION D	IVISIO	<u>DN</u>
Signature:	1 au	. Dii	uee							
Printed Name) '			Approved by	District Supervise	or:			
Title: Waste	Mgmt. & R	emediation S	pecialist		Approval Da	te:	Expi	ration Da	ite:	
E-mail Addre	ss: TASavo	oie@BassPet.o	com		Conditions o	f Approval:				
Date: 12/29/2	011		Ī	Phone: (432)556-8730						

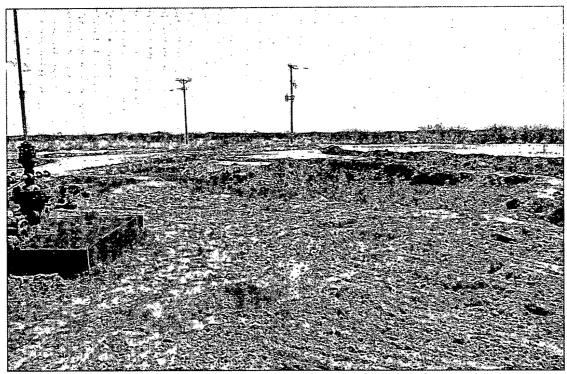
Appendix B Photographs



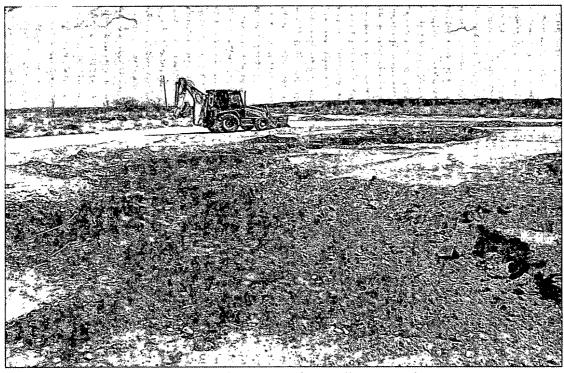
Poker Lake Unit 152 Pumping Well - Release Site



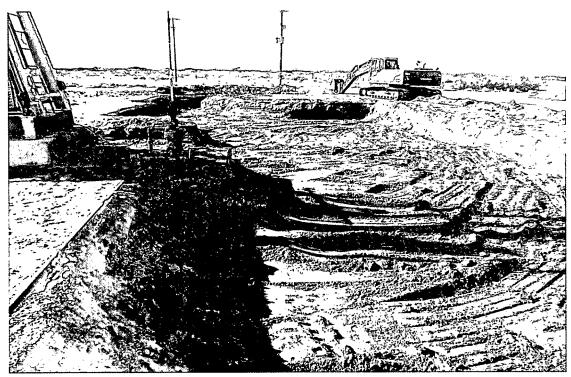
Poker Lake Unit 152 Pumping Well - Release Site



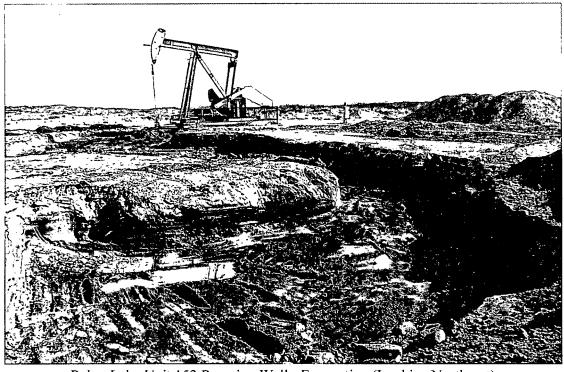
Poker Lake Unit 152 Pumping Well - Excavation (Looking South)



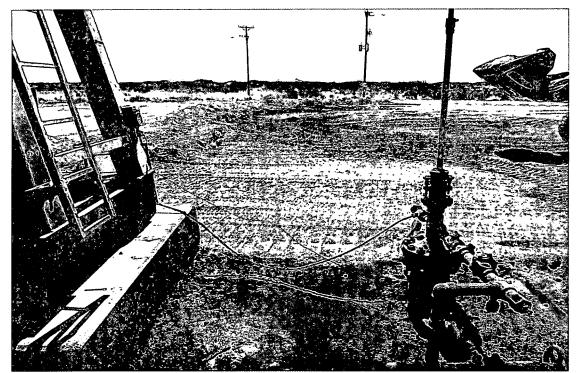
Poker Lake Unit 152 Pumping Well - Excavation



Poker Lake Unit 152 Pumping Well - Excavation (Looking South)



Poker Lake Unit 152 Pumping Well - Excavation (Looking Northeast)



Poker Lake Unit 152 Pumping Well - Excavation (During Backfill, Looking South)



Poker Lake Unit 152 Pumping Well - Excavation (Following Backfill)

Appendix C Laboratory Analytical Reports



September 19, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE UNIT 152

Enclosed are the results of analyses for samples received by the laboratory on 09/12/11 15:50.

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.

Celeg D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Received:

09/12/2011

Sampling Date:

09/12/2011

Reported:

Sampling Type:

Soil

Project Name:

09/19/2011

Sampling Condition:

Cool & Intact

Project Number:

POKER LAKE UNIT 152 NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY CO, NM

Sample ID: SAMPLE 1 (H101935-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/12/2011	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	09/16/2011	ND	182	90.8	200	0.533	
DRO >C10-C28	<10.0	10.0	09/16/2011	ND	183	91.7	200	1.13	
EXT DRO >C28-C35	<10.0	10.0	09/16/2011	ND					
Surrogate: 1-Chlorooctane	136	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	129	% 57.6-15	8						

Sample ID: SAMPLE 2 (H101935-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/12/2011	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	09/16/2011	ND	182	90.8	200	0.533	
DRO >C10-C28	<10.0	10.0	09/16/2011	ND	183	91.7	200	1.13	
EXT DRO >C28-C35	<10.0	10.0	09/16/2011	ND					
Surrogate: 1-Chlorooctane	133	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	127	% 57.6-15	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and record route: Licensing and Definings. Additional recording most continued and recording most continued claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



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

Received:

09/12/2011

09/19/2011

Reported: Project Name: Project Number:

Project Location:

POKER LAKE UNIT 152

NONE GIVEN

EDDY CO, NM

Sampling Date:

09/12/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE 3 (H101935-03)

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	09/12/2011	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	09/16/2011	ND	182	90.8	200	0.533	
DRO >C10-C28	<10.0	10.0	09/16/2011	ND	183	91.7	200	1.13	
EXT DRO >C28-C35	<10.0	10.0	09/16/2011	ND					
Surrogate: 1-Chlorooctane	112	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	108	% 57.6-15	8						

Sample ID: SAMPLE 4 (H101935-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	290	16.0	09/12/2011	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ab			- 4		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/16/2011	ND	182	90.8	200	0.533	
DRO >C10-C28	<10.0	10.0	09/16/2011	ND	183	91.7	200	1.13	
EXT DRO >C28-C35	<10.0	10.0	09/16/2011	ND					
Surrogate: 1-Chlorooctane	121	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	114	% 57.6-15	8						

Cardinal Laboratories *=Accredited Analyte

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Celey & Keine



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

Fax To:

(575) 396-1429

Received: Reported: 09/12/2011

09/19/2011

Project Name: Project Number: **POKER LAKE UNIT 152**

Project Location:

NONE GIVEN EDDY CO, NM Sampling Date:

09/12/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE 5 (H101935-05)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/12/2011	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	09/16/2011	ND	182	90.8	200	0.533	
DRO >C10-C28	<10.0	10.0	09/16/2011	ND	183	91.7	200	1.13	
EXT DRO >C28-C35	<10.0	10.0	09/16/2011	ND					
Surrogate: 1-Chlorooctane	110 9	% 55.5-15	4	• •					
Surrogate: 1-Chlorooctadecane	104 9	% 57.6-15	8						

Sample ID: SAMPLE 6 (H101935-06)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	09/12/2011	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	09/16/2011	ND	182	90.8	200	0.533	
DRO >C10-C28	<10.0	10.0	09/16/2011	ND	183	91.7	200	1.13	
EXT DRO >C28-C35	<10.0	10.0	09/16/2011	ND					
Surrogate: 1-Chlorooctane	125	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	119	% 57.6-15	8						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keene



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

Fax To:

(575) 396-1429

Received:

09/12/2011

Sampling Date:

09/12/2011

Reported:

09/19/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 152

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN EDDY CO, NM Sample Received By:

Jodi Henson

Sample ID: SAMPLE 7 (H101935-07)

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	210	16.0	09/12/2011	ND	432	108	400	0.00	
TPH 8015M	mg/kg Analyte Result Reporting Lim		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	09/16/2011	ND	182	90.8	200	0.533	
DRO >C10-C28	<10.0	10.0	09/16/2011	ND	183	91.7	200	1.13	
EXT DRO >C28-C35	<10.0	10.0	09/16/2011	ND					
Surrogate: 1-Chlorooctane	113 9	% 55.5-15	·4						
Surrogate: 1-Chlorooctadecane	110 9	% 57.6-15	8						

Sample ID: SAMPLE 8 (H101935-08)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/12/2011	ND	432	108	400	0.00	
TPH 8015M			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	09/16/2011	ND	182	90.8	200	0.533	
DRO >C10-C28	<10.0	10.0	09/16/2011	ND	183	91.7	200	1.13	
EXT DRO >C28-C35	<10.0	10.0	09/16/2011	ND					
Surrogate: 1-Chlorooctane	112	% 55.5-15	4					11111	
Surrogate: 1-Chlorooctadecane	106	% 57.6-15	8						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine



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

(575) 396-1429

Fax To:

Received:

09/12/2011

Reported:

09/19/2011

Project Name: Project Number: POKER LAKE UNIT 152 NONE GIVEN

Project Location:

EDDY CO, NM

Sampling Date:

09/12/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE 9 (H101935-09)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/12/2011	ND	432	108	400	0.00	
TPH 8015M			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	09/16/2011	ND	182	90.8	200	0.533	
DRO >C10-C28	<10.0	10.0	09/16/2011	ND	183	91.7	200	1.13	
EXT DRO >C28-C35	<10.0	10.0	09/16/2011	ND					
Surrogate: 1-Chlorooctane	112	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	107	% 57.6-15	8						

Sample ID: SAMPLE 10 (H101935-10)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/12/2011	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	09/16/2011	ND	182	90.8	200	0.533	
DRO >C10-C28	<10.0	10.0	09/16/2011	ND	183	91.7	200	1.13	
EXT DRO >C28-C35	<10.0	10.0	09/16/2011	ND					
Surrogate: 1-Chlorooctane	111	% 55.5-15	4						_
Surrogate: 1-Chlorooctadecane	107	% 57.6-15	8						

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Celeg & Keine



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

Fax To:

(575) 396-1429

Received:

09/12/2011

Sampling Date:

09/12/2011

Reported:

09/19/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 152

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY CO, NM

Sample ID: SAMPLE 11 (H101935-11)

Chloride, SM4500Cl-B	mg,	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	09/13/2011	ND	432	108	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	09/16/2011	ND	182	90.8	200	0.533	
DRO >C10-C28	<10.0	10.0	09/16/2011	ND	183	91.7	200	1.13	
EXT DRO >C28-C35	<10.0	10.0	09/16/2011	ND					
Surrogate: 1-Chlorooctane	127	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	124	% 57.6-15	8						

Sample ID: SAMPLE 12 (H101935-12)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	09/13/2011	ND	432	108	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	09/16/2011	ND	182	90.8	200	0.533	
DRO >C10-C28	<10.0	10.0	09/16/2011	ND	183	91.7	200	1.13	
EXT DRO >C28-C35	<10.0	10.0	09/16/2011	ND					
Surrogate: 1-Chlorooctane	118	% 55.5-15	4				·	<u> </u>	· · · · · · · · · · · · · · · · · · ·
Surrogate: 1-Chlorooctadecane	124	% 57.6-15	8						

Cardinal Laboratories *=Accredited Analyte

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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:

09/12/2011

Sampling Date:

09/12/2011

Reported:

09/19/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 152 NONE GIVEN

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

Project Number: Project Location:

Surrogate: 1-Chlorooctadecane

EDDY CO, NM

128 %

57.6-158

Sample ID: SAMPLE 13 (H101935-13)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP				_	_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/13/2011	ND	432	108	400	3.64	
TPH 8015M			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	09/16/2011	ND	182	90.8	200	0.533	
DRO >C10-C28	<10.0	10.0	09/16/2011	ND	183	91.7	200	1.13	
EXT DRO >C28-C35	<10.0	10.0	09/16/2011	ND					
Surrogate: 1-Chlorooctane	131	% 55.5-15	4						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Basin Environmental Service Technologies, LLC							
Project Manager: Ben J. Arguijo	P.O. #:						
Address: P.O. Box 301	Company: BOPCO, LP						
City: Lovington State: NM Zip: 98260	Attn: Tony Savoie						
Phone #: (575) 396-2378	Address: 522 w. Mermod						
Project #: Project Owner: BOPCO, LP	City: Carisbad						
Project Name: Poker Lake Wait 152	State: NM Zip: 88220						
Project Location: EDDY NYN	Phone #: (432) 556-8730						
Sampler Name: Jody Walters	Fax #:	\$ 200					
Tap I.D. Sample I.D. Sample I.D. Sample I.D. Sample I.D. Sont One of the sample I.D. Sample I.D. Sont One of the sample I.D. S	PRESERV. SAMPLING OUTHERS. ICE / COOL ICE / COOL OUTHERSE OUTH	X BDIS-M X Chlorides T HAIDFAL B.					
2 2 6 1	y 9-12-1/ 9:05	2 2 2					
3 3 61 1		X X X					
4 4 c X	X 9-12-11 9:10 Y 9-12-11 9:15	V × V					
5 5 6 1 1/1	X 9-12-11 9:20	7 7 2					
6 6 6 1 1	X 9-12-1 9:25	Y X					
7 0 1	X! 9-17-11 9:30	4 7 7					
8 8 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	X 9-12-11 9.35	2 < \					
G 9 G 1 X	X 9-12-11 9:45						
PLEASE NOTE: Haberty and Damages. Cardinal's backery and clean's exchange remedy for any dumin arising whether based in contin	act or fort, shall be furthed to the amount paid by the client for	r pho					
analyses. An spirins including those for negligible and any other cribs whatsoever shall be decined varied unless made in whing a service. In no even shall cardinal be hable for incidental or consequental damages, including without familian, business interruption	and received by Cardinal within 39 days after completion of	be applicable					
artitiones of successions arising flat or de related to the performance of services hereunder by Cardinata, regardless of whother such dar Relatively is hed by:	m is based upon any of the above stated reasons or otherwife. I Phone Re	sa.					
Too Wall In 1995 50 Chall IN	LULON REMARK	lt: 🖸 Yes 🗘 No: Add'l Fax#:					
Relinquished By: Date: Received By:		Please email results to pm@basinenv.com					
Delivered By: (Circle One) Sample Cond Cool Intact Sampler - UPS - Bus - Other: 50	es (hatriots)	& TAsavoie⊅BassPet.com					
† Cardinal cannot accept verbal changes. Please fax written changes to	0 505-393-2476	Pa					



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, LI	BILL TO	ANALYSIS REQUEST
Project Manager: _{Ben J. Arquijo}	P.O. #:	
Address: P.O. Box 301	Company: BOPCO, LF	
City: Lovington State: NM Zip: 88260	Alln: Tony Savoie	
Phone #: (575)396-2378	Address: 522 w. Mermod	
Project #: Project Owner: BOPCO, GP	City: Carlsbad	
Project Name: Poker Lake Unit 152	State: 8M Zip: 88220	
Project Location: EDDY, N.M.	Phone #: (432) 556 - 8730	_
Sampler Name: Jody Walters	Fax.#: PRESERV SAMPLING	
Lab I.D. Sample I.D. HIDIOGES WASTEWATER WASTEWATER II Sample II G. 1	PRESERV SAMPLING OTHERS: OTHE	
12 Sample 12 Gil X	X 9-12-11 9:53	
13 Samole 13 G 1 X	! X 9-12-1/ 10:00	
PLEASE NOTE: tradity and Damages. Cardinal's Authory and chem's evolution remody for any dam's arring whether thread in unalyzes. All claims including those for neighbors and any other claims what have so including those for neighbors are and any other claims what have so included the state of the included the consequents all damages, multiply which the native subjects arring out of or related to the performance of ventoes thereunder by Cardinal regardeds of what there allowed by Cardinal regardeds of what there are related to the performance of ventoes thereunder by Cardinal regardeds of what there are related to the performance of ventoes thereunder by Cardinal regardeds of what there are related by Cardinal regardeds of what there are related by Cardinal regardeds of what there are related to the performance of ventoes thereunder by Cardinal regardeds of what there are related by Cardinal regardeds of what there are related to the performance of ventoes thereunder by Cardinal regardeds of what there are related to the performance of ventoes the perf	ng and received by Cardinal within 30 days and completed blooms, loss of uses, or loss of profes moured by client, its substance of the second states reasons and the second states reasons reasons and the second states reasons reasons reasons reasons reasons reasons reasons re	of the agaillasable source Result: □ Yes □ No · Add' Phone #: Sult: □ Yes □ No Add' Fax #:
† Cardinal cannot accept verbal changes. Please fax written change	to 505-393-2476	Pag
	#26	



September 27, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE UNIT 152

Enclosed are the results of analyses for samples received by the laboratory on 09/12/11 15:50.

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.

Celeg D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To:

(575) 396-1429

Received:

09/12/2011

Sampling Date:

09/12/2011

Reported:

09/27/2011

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 152

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY CO, NM

Sample ID: SAMPLE 11 (H101935-11)

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	09/22/2011	ND	2.31	116	2.00	0.947	
Toluene*	<0.050	0.050	09/22/2011	ND	2.17	109	2.00	0.462	
Ethylbenzene*	<0.050	0.050	09/22/2011	ND	2.17	109	2.00	2.77	
Total Xylenes*	<0.150	0.150	09/22/2011	ND	6.49	108	6.00	3.30	

Surrogate: 4-Bromofluorobenzene (PIL

112%

64.4-134

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Celey D. Keene, Lab Director/Quality Manager

Celey D. Kune

Page 2 of 5



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celey D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	ompany Name: _{Basin Environmental Service Technologies, LI roject Manager: Ben J. Arguijo}							BILL TO ANALYSIS REQUEST																			
Project Manager	Ben J. Arguijo						P.0	O. #.									T	-							\top		
Address: P.O.							င္	mpa	any:	В	OPCO, LP																
City: Lovingto	on State: NM	Zip	: 88	3260			Att	tn:	Tor	ìу	Savoie					<u> </u>			-					-	- {	1	- 1
Phone #: (575)	396-2378 Fax # : (575) 3	96-1	429)			Ad	dre	ss:	522	w. Mer	nod						ļ									
Project #:	Project Owne	r: BO	PCO	, LP			Cit	ty: 🤈	arl	sb	ad					l	ļ								Į.		ļ
Project Name:	Poker Lake Unit 152			_			Sta	ate:	NM		Zip : 8822	0						1									1
Project Location	EDDY NM						Ph	one	#:(432	2)556-87	30				1	ا،								- [Į
Sampler Name:	I: EDDY NM Jody Walters						Fa	x #:									ġ							İ			ı
FOR LAB USE ONLY		٠.			MATR	IX	_	PRI	SEF	٧	SAMPL	NG			Ý	1 0	5	j					i				
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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	mpany Name: Basin Environmental Service Technologies, LL Dject Manager: Ben J. Arguijo						LC BILL TO ANALYSIS REQUEST																		
Project Manager	Ben J. Arquijo							P.C	. #:			· · · · · · · · · · · · · · · · · · ·						1		T		Ī			
Address: P.O.								Cor	npa	ny:	BOE	PCO, LP				Ï								1	
City: Lovingto	on State: NM	Zip	: g	8260)			Attı	n:	Ton	y s	avoie									İ				1 1
Phone #: (575)		96-1	429	9				Add	dres	s : 5:	22	w. Merr	nod					1				ŀ	1		
Project #:	Project Owne	r: BC	PCC), L	P			City	/: C	arls	sba	d.					1	İ						1	
Project Name:	PokerLake Unit 152							Sta	te:	NM	Z	ip: 8822)												
Project Location								Pho	one	#:(4	32)	556-87	30									1			
Sampler Name:	Joel Walters							Fax	#:							12	ļ				ļ			ļ	
FOR LAB USE ONLY			Г		MA	TRI	X		PRE	SER	v.	SAMPLI	NG	کے	2	378									
						OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	O DEK :	DATE	TIME	1 5108.	Chlorid	1/2/0/fac.									
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	elivered By: (Circle One) mpler - UPS - Bus - Other: Sample Co Cool Inta					nditi act Yes No	on	,	CHECKED BY: & TAsavoie@BassPet.com																



September 20, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE UNIT 152

Enclosed are the results of analyses for samples received by the laboratory on 09/16/11 14:20.

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.

Lope S. Moreno

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,

Hope Moreno

Inorganic Technical Director



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

Received: Reported: 09/16/2011

09/20/2011

Project Name: Project Number: Project Location: POKER LAKE UNIT 152 NONE GIVEN

EDDY CO, NM

Sampling Date:

09/14/2011

Sampling Type:

Soil S. In

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: STOCKPILE (H101971-01)

Chloride, SM4500CI-B	mg.	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	09/16/2011	ND	448	112	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	09/19/2011	ND	177	88.7	200	2.85	
DRO >C10-C28	49.8	10.0	09/19/2011	ND	177	88.7	200	3.47	
EXT DRO >C28-C35	<10.0	10.0	09/19/2011						
Surrogate: 1-Chlorooctane	121	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	110	% 57.6-15	8						

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Hope S. Moreno



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Lope S. Moreno

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Basin Environmental Service Technologies, LLC					BILL TO					ANALYSIS REQUEST														
Project Manager: Ben J. Arguijo				P.O. #:																				
Address: P.O. Box 301					Company: BOPCO, LP																			
City: Lovington State: NM Zip: \$8260						Attn: Tony Savoie																		
Phone #: (575) 396-2378						Address: 522 w. Mermod																}		
Project #: Project Owner: BOPCO, LP					City: Carlsbad					.[l								
Project Name: Poker Lake 152					State: MM Zip: 88220]														
Project Location: EDDY NM							Phone #: (432) 556-8730] }]	ļ			ĺ				
Sampler Name: Jody Welters							Fax #:				1 1		\$			1								
FOR LASTISE OVEY	'			MATRIX		TRIX	PRESERV. SAMPI			ING	29		18											
Lab I.D. Sample I.D.		OR (C)OMP	NERS	WATER	ATER			ψΩ	ا ر			Chlorides	BOISM	for										
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