3R - 235

REPORTS

DATE:



Certified Mail:

#7000 1670 0012 7260 6739

February 26, 2001

Mr. William C. Olson New Mexico Oil Conservation Division 1220 St. Francis Dr. Santa Fe, NM 87504 RECEIVED

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

RE: 2000 Pit Project Annual Groundwater Report

Dear Mr. Olson:

In accordance with reporting requirements, El Paso Field Services (EPFS) has enclosed annual updates for the 32 remaining groundwater impacted sites that were identified during our pit closure project of 1994 / 1995.

Of the 32 reports (Volumes 1-4), EPFS hereby requests closure of six sites. The six sites EPFS is requesting closure on are presented in one separate binder entitled "San Juan Basin Pit Closures, El Paso Field Services, Pit Closure Reports". Four of the six sites were submitted in last years report and a decision has not been made on closure. The remaining two sites have been submitted in previous years and denied closure.

The Jaquez Com. C #1 and Jaquez Com. E #1 site is not included in with this years report and will be submitted by the required deadline of April 1, 2001

EPFS has also included for your information six Navajo sites in a separate binder.

If you have any questions concerning the enclosed reports or closure requests, please call me at (505) 599-2124.

Sincepely,

Scott T. Pope P.G.

Senior Environmental Scientist

xc: Mr. Denny Foust, NMOCD, Aztec - w / enclosures; Certified Mail # 7000 1670 0012 7260 6722 Mr. Bill Liesse, BLM - w / enclosures (federal sites only), Certified Mail # 7000 1670 0012 7260 6715

SAN JUAN BASIN PIT CLOSURES San Juan Basin, New Mexico

El Paso Field Services Pit Project Groundwater Report Annual Report Volume I

March 2001

Prepared For

El Paso Field Services Farmington, New Mexico

Project 62800398



EPFS GROUNDWATER PITS 2000 ANNUAL GROUNDWATER REPORT

SANDOVAL GAS COM A #1A Meter/Line ID - 89620

SITE DETAILS

Legals - Twn: 30N

Rng: 9W

Sec: 35

Unit: C

Land Type: FEDERAL

Operator: AMOCO PRODUCTION COMPANY

PREVIOUS ACTIVITIES

NMOCD Hazard Ranking: 10

Site Assessment: May-94

Excavation: Sep-94 (50 cy)

Soil Boring: May-95

Monitor Well: May-95

Re-Excavation: Jul-97 (504 cy)

Re-Install MW: Aug-97

Quarterly Sampling Initiated: Apr-96 Annual Sampling Initiated: Apr-99

2000 ACTIVITIES

Annual Groundwater Monitoring – Annual groundwater monitoring was conducted during April of 2000.

SUMMARY TABLES

Groundwater analytical data is presented in Table 1. Copies of the laboratory data sheets and associated quality assurance/quality control data are presented as Attachment 1.

SITE MAP

A site map is presented as Figure 1.

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

There were no drilling activities at this site in 2000.

DISPOSITION OF GENERATED WASTES

There were no wastes generated at this site in 2000.

ISOCONCENTRATION MAPS

An isoconcentration map was not generated for this site.

CONCLUSIONS

Analytical results of groundwater samples from MW-1 show levels of benzene, toluene and total xylenes above NMWQCC groundwater standards. Groundwater samples collected from MW-1 have been over standards for BTEX since sampling was initiated but appear to be decreasing each year.

Pertinent data from past groundwater reports include the following:

A formerly unlined pit is adjacent to MW-1 and may be an additional source. An attempt was made to install down-gradient monitor wells in December of 1995. Refusal was encountered at approximately 38 feet below ground surface and no groundwater was encountered. An attempt was made to collect groundwater samples with a Geoprobe and refusal was encountered at approximately 26 feet below ground surface on 4 sides of the pit.

EPFS GROUNDWATER PITS 2000 ANNUAL GROUNDWATER REPORT

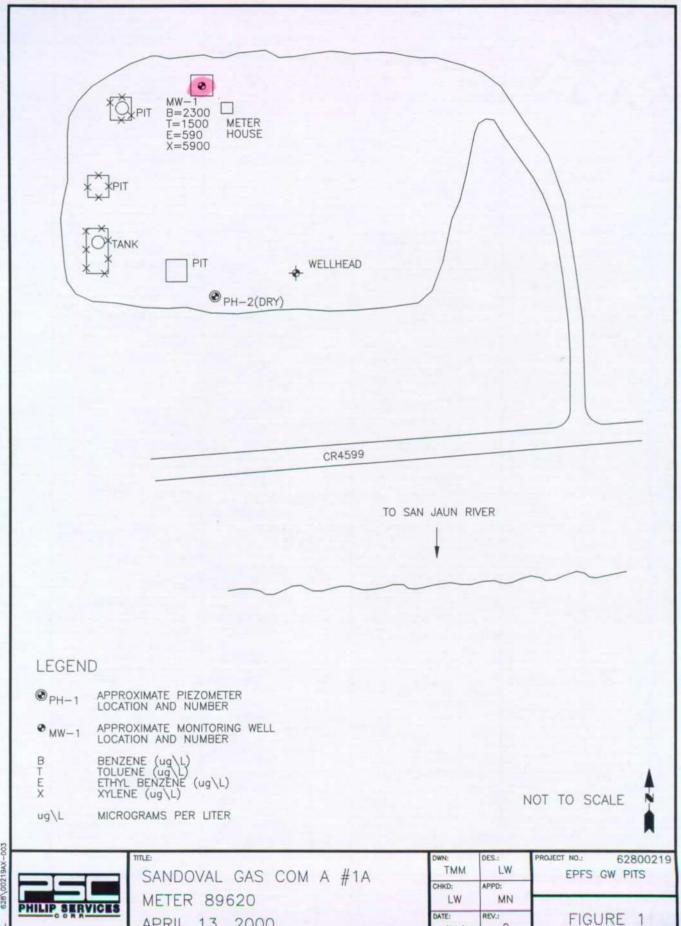
RECOMMENDATIONS

- EPFS proposes to conduct nutrient injection in MW-1 to enhance bioremediation and natural attenuation in the former pit.
- EPFS will conduct annual sampling at the site until BTEX constituents fall below New Mexico groundwater standards.
- After BTEX constituents fall below New Mexico Groundwater Standards, quarterly sampling will be conducted until analytical results show BTEX constituents are below New Mexico groundwater standards for four consecutive quarters.
- Following OCD approval for closure, MW-1 will be abandoned using OCD approved abandonment procedures.

EPFS Groundwater Pits 2000 Groundwater Report

Sample #	Meter / Line #	Site Name	Sample Date	WW #	Project	Benzene (PPB)	Toluene (PPB)	Ethyl le Benzene (PPB)	×	Total Xylenes (PPB)	Total BTEX (PPB)
SAN-0004-MW1	89620	SAN-0004-MW1 89620 Sandoval Gas Com A #1A	A 04/13/2000	_	Sample 1 - 5th Event =	= 2,300 $=$ 1,500	= 1,500	= 590		006	= 5,900 10,290

Sample 1 - Annual Sampling



0

1/30/01

APRIL 13, 2000

ATTACHMENT 1 2000 GROUNDWATER ANALYTICAL

Well Number	Serial No. WDPD-
	AND ALL ALL ALL ALL ALL ALL ALL ALL ALL AL

mber_MW.O!

☐ Developn. ※ Purging

WELL DEVELOPMENT AND PURGING ATA

Page___

Project No. 62800107 030

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Project Manager Robert Homrson Client Company EL PASO FIELD SEEVICES Project Name EPPS OUARTERLY SAMPLING

Phase. Task No.__

SAN JUAN

JARA)

Sile Address

89620

Site Name SANDOUAL GAS COM A #1A

Development Criteria

**A Oto 5 Casing Volumes of Water Removal A Stabilization of Indicator Parameters

□ Other

Methods of Development

Baller Pump

Stainless-steel Kemmerer **减**Bottom Valve IJ Double Check Valve ☐ Centrifugal ☐ Submersible ☐ Peristatlic

Gallons to be Removed 7.08 7.08 2.3613 Water Volume in Well Gallons Cubic Feel 3.42 Tolal Gravel Pack Drilling Hulds Well Casing llem

Serial No. (If applicable) X pH Meter Instruments

HYDAC

□ DO Monitor

70R

Initial Depth of Well (feet) 38.32" Initial Depth to Water (feet) 34.70 Height of Water Column in Well (feet)

Water Volume Calculation

3.62

Gravel Pack

Diameter (inches): Well 4"

450 M Temperature Meter □ Other

HYDAR

Conductivity Meter

Water Disposal Kutz Seperation

Water Removal Data

□ Other

						_		 	
Comments		CLEAR	CLEAR	CLEAR					
Dissolved Oxygen Imp/L}									
Conductivity (mmhos/cm)		4520	4320	4230					
Hq		22.0 6.78	21.2 6.78	78.7					
Temperature (°C)		22.0	21.2	21.5					
Product Volume Removed (gailons)	n Cumulaliva								
	ncreme 1								
Water Volume Removed (gallons)	Cumulative - Incremen Cumulative	2	7	و					
	hcrement	2	2	2					
Ending Waler Depth (feet)									
Removal Intake Depth Ending Rate (feet) Water Depth (gal/min)					_				
Development Method	Pump Boiler	×	×	×					
0	Time P	1337	248/	1384					
	Date	4/13/00 1337	4/13/00	4/13/00 1354					

Circle the date and time that the development criteria are met.

AT 1405, COC# C252 SAMPLED GAL. LET RECOVER AND SAMPLED A Comments WELL BAILED DRY

Date
Reviewer
Date 4/13/00
muspan
John Alle
\ Developer's Signature(s)_

Chain of Custod, Record 4000 Monroe Road 505) 326-2262 Phone (505) 326-2388 FAX

2521 COC Serial No.

Project Name 2FFS QUARTERLY SY	SAMPLINE	Type of	\ \ \ \	\ \ \	\	\ \ \	\
Project Number 62800/07 Phase . Task 630/	0301.				\ \ \	\ \ \	\
Samplers R. THOMPSON		· · · · · · · · · · · · · · · · · · ·		\ \ \		\ \ \	
Appraison Name PINNACLE LABS					\		
	E, NO	N les					
Sample Number (and depth) Date T	Time Matrix	o1				Con	nments
(1/13/00	-					020655 9 74N00NHS	SANDOVAL GAS COMA # M
		-					
	4						
					:		
						The state of the s	
							The state of the s
Relinquished by:			Received By:				
() Signature	Date	Time	Sign	Signature		Date	Time
Here Marson John.	20/ 60/10						
Samples Iced: 🗵 Yes 🗆 No	Carrier:	SPETTANTA SE	\$0 XX		Airbill No	Airbill No. $(\frac{1}{2}IJ/L^2)$ L^2	5620793
Preservatives (ONLY for Water Samples)		Shipping and Lab Notes:					



Pinnacle Lab ID number April 24, 2000

004056

PHILIP ENVIRONMENTAL 4000 MONROE ROAD

FARMINGTON, 1

NM

87401

Project Name

EPFS QUARTERLY SAMPLING

Project Number

62800107

Attention:

Robert Thompson/LeAudra Stanley

On 04/14/00 Pinnacle Laboratories, Inc. Inc., (ADHS License No. AZ0592 pending), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.

Kimberly D. McNeill Project Manager

MR: jt

Enclosure

H. Mitchell Rubenstein Ph. D.

General Manager



CLIENT	: PHILIP ENVIRONMENTAL	PINNACLE ID	: 004056
PROJECT#	: 62800107	DATE RECEIVED	: 04/14/00
PROJECT NAME	: EPFS QUARTERLY SAMPLING	REPORT DATE	: 04/24/00
PIN			DATE
ID. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
01	SAN-0004-MW01	AQUEOUS	04/13/00

File: '004056; COVEREP



PINNACLE I.D.: 004056

GAS CHROMATOGRAPHY RESULTS

TEST

: EPA 8021 MODIFIED

CLIENT

: PHILIP ENVIRONMENTAL

PROJECT#

: 62800107

PROJECT NAME

: EPFS QUARTERLY SAMPLING

SAMPLE				DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	SAN-0004-MW01		AQUEOUS	04/13/00	NA	04/15/00	10
PARAME ⁻	TER	DET. LIMIT		UNITS	SAN-0004- MW01		
BENZENE		0.5		UG/L	2300		
TOLUENE		0.5		UG/L	1500		
ETHYLBE	NZENE	0.5		UG/L	590		
TOTAL X	YLENES	0.5		UG/L	5900		

SURROGATE LIMITS

(80 - 120)

CHEMIST NOTES:

N/A





GAS CHROMATOGRAPHY RESULTS REAGENT BLANK

TEST

: EPA 8021 MODIFIED

PINNACLE I.D.

004056

BLANK I. D.

: 041500

DATE EXTRACTED :

N/A

CLIENT

DATE ANALYZED

04/15/00

PROJECT#

BENZENE

: PHILIP ENVIRONMENTAL

: AQUEOUS

: 62800107

(80 - 120)

SAMPLE MATRIX

PROJECT NAME **PARAMETER**

: EPFS QUARTERLY SAMPLING

UNITS UG/L

<0.5

< 0.5

TOLUENE ETHYLBENZENE UG/L UG/L

<0.5

TOTAL XYLENES

UG/L

< 0.5

SURROGATE:

BROMOFLUOROBENZENE (%)

92

GATE LIMITS:

CHZIVIIST NOTES:

N/A



GAS CHROMATOGRAPHY QUALITY CONTROL **MSMSD**

TEST

: EPA 8021 MODIFIED

MSMSD#

: 041500

CLIENT

: PHILIP ENVIRONMENTAL

PROJECT#

PROJECT NAME

: 62800107

: EPFS QUARTERLY SAMPLING

PINNACLE I.D.

004056

DATE EXTRACTED

N/A

DATE ANALYZED SAMPLE MATRIX

04/15/00 **AQUEOUS**

UNITS

UG/L

					J J		•		
	SAMPLE	CONC	SPIKED	%	DUP	DUP		REC	RPD
PARAMETER	RESULT	SPIKE	SAMPLE	REC	SPIKE	% REC	RPD	LIMITS	LIMITS
BENZENE	<0.5	20.0	21.0	105	20.7	104	1	(80 - 120)	20
TOLUENE	<0.5	20.0	23.6	118	22.6	113	4	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	22.9	115	22.2	111	3	(80 - 120)	20
TOTAL XYLENES	<0.5	60.0	69.2	115	66.4	111	4	(80 - 120)	20



(Spike Sample Result - Sample Result)

% Recovery =

----- X 100

Spike Concentration

RPD (Relative Percent Difference) =

(Sample Result - Duplicate Result)

----- X 100

Average Result



Chain of Custod, Record

4000 Monroe Road Farmington, NM 87401

(505) 326-2262 Phone (505) 326-2388 FAX

coc Serial No. **C** 2521

Project Name EPFS QUARTERLY SAMPLING	21N6	Type of			
Project Number 62800107 Phase Task 630	. /0				
Samplers R. THOMPSON					
Laboratory Name PINIMICLE 1 ABS		quini			
	NW	.			/>///
Sample Number (and depth) Date Time	Matrix			Comments	2010
1/13/00 1	H20	×		SAMBOUML GAS COMA#41-	7
		3			
Relinquished by:			Received By:		
∫ ASignature	Date	Time	Signature //	Date Time)
Cent Money pran	1/13/po	(620	fra the work	O4.14.Q 900	
Samples Iced: 💢 Yes 🛘 No	Carrier: GR	J GWHOUND 1	1NES	AITDII NO. GLI 160 6650793	
	Shipping and Lab Notes:	ab Notes:			
X Volatile Organic Analysis				ON 19 9 4.8.C	
TPH (418.1) Sulfurfe acid (H2SO4)					
Other (Specify)					