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2001

SAN JUAN BASIN PIT CLOSURES San Juan Basin, New Mexico

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El Paso Field Services Pit Closure Reports

March 2001

FEB 200

19.19.20

Prepared For

El Paso Field Services Farmington, New Mexico

Project 62800398



SAN JUAN BASIN PIT CLOSURES San Juan Basin, New Mexico

Sites Submitted for Closure:

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TWN	RNG	SEC	UNIT	SITE NAME	METER	LAND TYPE
28	11	26	Р	Ohio C Govt #3	72890	Federal
29	10	[•] 28	С	Anderson GC A #1 CH	95210	Fee

Sites Previously Submitted for Closure:

TWN	RNG	SEC	UNIT	SITE NAME	METER	LAND TYPE
31	11	34	K	Turner A #1 PM (Pit #1 and #2)	71676	State
31	9	28	Н	Sheets #2	70286	Fee
29	14	4	C	Mesa CPD	02643	Fee
26	6	34	A	K-51 Line Drip	LD244	Federal

EPFS GROUNDWATER PITS 2000 CLOSURE REPORT

ANDERSON GC A #1 CH Meter/Line ID - 95210 FEB 2001 FEB 2001 FEC EiveD -Col CON. DN Dist. 3 Operator: AMOCO PRODUCTION COMPANY

PREVIOUS ACTIVITIES

Site Assessment: Apr-94 Re-Excavation: Oct-96 (192 CY) Submitted for Closure: Dec-98 Denied Closure: Jul-99

Excavation: Apr-94 (25 CY)GeoprobSoil Boring: Feb-97MonitorAdditional Monitor Well: Nov-99

Geoprobe: Oct-96 Monitor Well: Feb-97

SR 145

Following the initial site assessment in April of 1994 (previously submitted), the pit was excavated to 6 feet beneath ground surface (bgs) where groundwater was encountered. A composite soil sample was collected from the excavation bottom and four walls. Approximately 25 cubic yards were removed during excavation. The headspace soil reading from the excavation bottom was 428 ppm. Soil analytical was as follows: benzene - <0.5, total BTEX – 26.9, and TPH (418.1) 2,220 mg/kg (analytical data was submitted in the December 1998 Groundwater Closure Report).

The pit was re-excavated to 11 feet bgs and an additional 192 cubic yards of contaminated soil were removed in October of 1996 (previously submitted). Groundwater was encountered at 6 feet bgs. Excavation to the south was limited by trees and large berm used for flood control (levee) for the San Juan River. The headspace soil reading from the excavation bottom was 126 ppm. Soil analytical was as follows: benzene – non- detect, total BTEX – non- detect, and TPH – 25.0 mg/kg (analytical data was previously submitted). One half gallon of 30% hydrogen peroxide was added to the excavation to aid in the natural degradation of residual hydrocarbons.

In February of 1997 one soil boring was drilled in the center of the former pit. Groundwater was encountered at 6 feet bgs and a monitoring well was installed. No soil samples were collected. Quarterly groundwater monitoring was initiated on March 11, 1997 and continued through May 5, 1998.

Following the closure request for this site in the December 1998 annual report, two additional monitor wells were requested by the OCD in correspondence dated July 28, 1999. One monitor well, MW-2, was installed in November 1999. Groundwater analytical data from this monitor well establishes no detectable levels of hydrocarbon migration in MW-2.

For an additional monitor well to be installed downgradient of the former pit, the monitor well would have to be located south of the fence that is next to the former pit. This location, privately owned, maintains dense tree coverage and a 20-30 foot levee for the river, which prohibits drilling of the second downgradient monitor well.

Based on groundwater levels collected from Geoprobe and monitoring well data, the groundwater flow trends to the south on this site. One downgradient groundwater sample collected from PH-8 in 1996 was below standards for BTEX (Table 1 and Figure 2). Groundwater samples collected

EPFS GROUNDWATER PITS 2000 CLOSURE REPORT

from cross-gradient and upgradient probeholes, piezometers, and MW-2 were below regulatory standards for BTEX (analytical data previously submitted).

Historical analytical groundwater data is included in Table 1. Laboratory analytical data, well diagrams and boring logs were previously submitted in respective reports.

2000 ACTIVITIES

Groundwater Monitoring – Annual groundwater samples were collected from MW-1, MW-2 and former piezometer PZ-1 in 2000. Groundwater analytical data has been below standards since sampling was initiated at this site.

SUMMARY TABLES

Groundwater analytical data are presented in Table 1 and Figure 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. A figure previously included in the 1999 Annual Groundwater Report is offered as Figure 2 to show the groundwater gradient for this site (a current figure with groundwater elevation and gradient is not possible due to apparent damage to MW-2).

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

There were no drilling activities at this site during 2000.

DISPOSITION OF GENERATED WASTES

There were no wastes generated at this site in 2000.

CONCLUSIONS

EPFS has excavated 217 cubic yards of slightly contaminated soil from the former pit. Soil samples collected from the excavation were below regulatory standards. Laboratory analyses of groundwater from MW-1 and MW-2 have demonstrated no detectable levels of BTEX constituents since August of 1997 (Table 1).

Groundwater analytical data from a sample obtained from PZ-1, PH-2, PH-3 and PH-8 has indicated only trace levels of BTEX constituents, below the NMWQCC groundwater standards. Additional groundwater monitor wells are not feasible downgradient of the former pit. Negligible impact to groundwater has occurred at this site. Therefore, EPFS requests closure of this site.

RECOMMENDATIONS

- EPFS requests closure of this site.
- Following OCD approval for closure, MW-1 and MW-2 will be abandoned in accordance with the Monitoring Well Abandonment Plan.

March 2001

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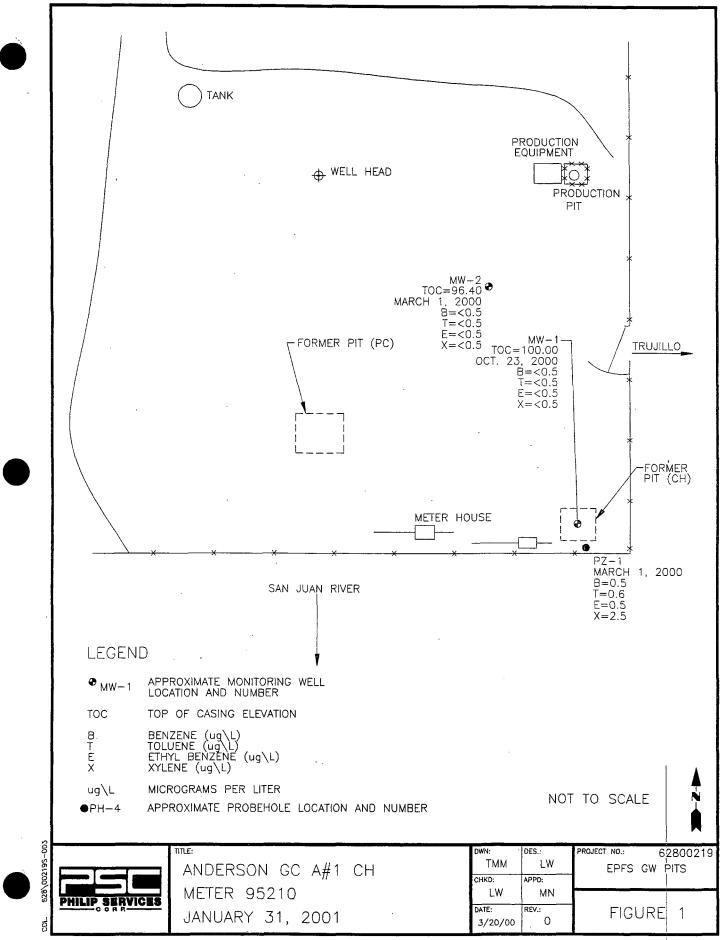
EPFS Groundwater Pits 2000 Groundwater Report

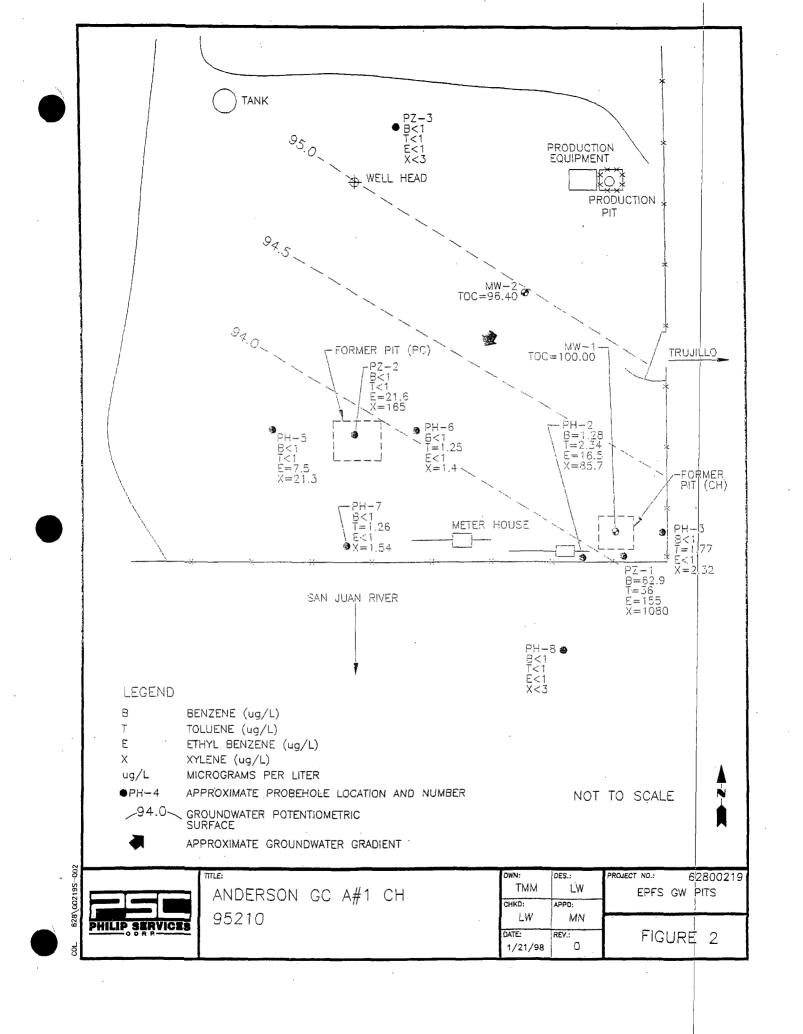
Table 1

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ND - No detectable levels Sample 1 - Annual Sampling Sample 2 - Semi-annual Sampling

Analytical Tables.xls95210





ATTACHMENT 1

2000 GROUNDWATER ANALYTICAL

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MOV - 6 2000

Pinnacle Lab ID number November 02, 2000 010102

PHILIP ENVIRONMENTAL 4000 MONROE ROAD FARMINGTON, NM 87401

EL PASO FIELD SERVICES 614 RIELLY STREET FARMINGTON, NM 87401

Project Name Project Number EPFS QUARTERLY SAMPLING 62800107

Attention: ROBERT THOMPSON/SCOTT POPE

On 10/26/00 Pinnacle Laboratories, 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.

H. Mitchell Rubenstein, Ph. D. General Manager

MR: jt

Enclosure



CLIENT	: PHILIP ENVIRONMENTAL	PINNACLE ID	: 010102
PROJECT #	: 62800107	DATE RECEIVED	: 10/26/00
PROJECT NAME	: EPFS QUARTERLY SAMPLING	REPORT DATE	: 11/02/00
PIN	· · · · · · · · · · · · · · · · · · ·		DATE
ID. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
01	AND-0010-MW 01	AQUEOUS	10/23/00

Confidential



GAS CHROMATOGRAPHY RESULTS

TEST CLIENT PROJECT # PROJECT NAME	: EPA 8021 MOD : PHILIP ENVIRC : 62800107 : EPFS QUARTE	NMENTAL	NG .		PINNACLE I.D.	: 010102
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CHEMIST NOTES:

N/A

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GAS CHROMATOGRAPHY RESULTS REAGENT BLANK

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BENZENE	UG/L	<0.5	
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ETHYLBENZENE	UG/L	<0.5	
TOTAL XYLENES	UG/L	<0.5	
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GAS CHROMATOGRAPHY QUALITY CONTROL MSMSD

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CHEMIST NOTES:

N/A

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% Recovery = ------ X 100

Spike Concentration

(Sample Result - Duplicate Result)

RPD (Relative Percent Difference) =

Average Result

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Site Name ANDERSON BAS COM	ANDER	SON B	NO) SH	1#H			Sile A	ddress	PLUDANE	Site Address BLOOMFIELD, MM	JM			
Development Criteria 🖄 3 to 5 Casing Volumes of Water Removal 🖾 Stabilization of Indicator Parameters 🗆 Other	ent Crite Ising Vo an of In	eria lumes of dicator P;	Water Rei arameters	moval	-	Water V Initial De Initial De Height of	Water Volume Calculation Initial Depth of Welt (feet) <u>/5. 33</u> Initial Depth to Water (feet) <u>4. 4/1</u> Height of Water Column in Welt (feet)	lculatio I (feet) fer (feet) tumn in '	n <u>/S. 33'</u> <u>/// // //</u> Well (feet)	3' 70R		Instruments ØpH Meter DO Monitor	s er nitor	Serial No. (If applicable) EXTECH
Methods of Development Pump Bailer Centrifugal A Bottom	Develt gal B	elopment Bailer M Bottom Valve	elopment Bailer M Bottom Valve	ente	 	Diameter Item Well Casing	Diameter (inches): Well 2 ¹ Water Volume in Well Casing Cubic Feel Go	es): Well <mark>2^a Gr</mark> Water Volume in Well Ubic Feel Gallons	Gallons		θ	K Condue K Temper	🛚 Conductivily Meter 🖄 Temperature Meter	er HYDAC ar HYDAC
D Peristallic	l	1 Stainles.	D Stainless-sleet Kernmerer	mmerer		Orden Pack Dritting Fluids Toto	Jock Jolal			K 30	> 	Water Disposal		
Water Removal Data	oval D;	ata			 					22.1	1	DN CR		ON 5112
eico	Lieo,	Development Method Pumol Boiller	nt Removal Rate (gal/min)	Infake Depth (feel)	h Ending Water Depth [feat]		Waler Volume Removed (galloris)		Product Volume Removed (gallans)	Ternperalure (°C)	Hď	Conductivity (mmhos/cm)	Dissolvad Oxygan [mg/l]	Comments
	enne ارگار			-		Incarnent .	Cunutative		nciemen Connativo 1	(()		1840		
	1142	~ ~								24	1 1 2	00~11		
	attil	*					7:5			10.5	h'1	1570		
	1120	~-					1-1			10.2	7.3	15.80		
	154	* >					5-			10,3		1400		
	1200	× ×					914			0.t	4.1	17-00		
											•			
- .														
Circle the date and lime that the development criteria are met. Comments SAMPLED 13511 C.P.D.	SAMPLED	PLE O	elopment cái 1 J S ()	lerio ore mer	R 75 X	XX	5001							
			(1					and we give a "agreed" over the state as we wanted				
Developer's Signature(s)	ignature) (s)	Red	Z	NVO	pool	5	Dale	(S)	1/00	Rev	Reviewer	Date	
Form A0101 Rev.	Rav. 10/6/94					-							F:\NEWF	F:\NEWFORM\PE_A0101.DOT 1/31/96

		4000 Monroe Road		(505) 326-2262 Phone		(((
na and an	:	mington, NM 87	7401	(505) 326-2388 FAX	COC Serial No. C	2498
Project Name EPFS 6w	TNUEST. A dhase task 34		€ Type of Type of Analysis and Bottle			
Samplers R. THOM FSON						
	ALLE TARS					
	Location AI BU DUERQUE	XI M				,
Sample Number (and depth)	Date	Matrix	120			Comments
AND-0002-MW2			X		-	95210
AND-0003- P71	1 100 122					95210
		. si 				
					5	
Relinquished by:				Received By:		
くつう C _A Signature		Date	Time	Signature	Date	Time
Hilled Themipson	X	3/1/00				
Samples Iced: 🕅 Yes	s 🗋 No	Carrier: Co	CV MANERA		Airbill No. GUT	Airbill No. 611 160 665 072 7
Y for W inatysis .	Samples) Sodium hyroxide (NaOH) Hydrochloric acid (HCI)	Shipping and Lab Notes:		RULT SAMPLES - Travorce	DHILL ST & ST	PASO NORMAL RATE,
TPH (418.1) Other (Specify)	Nitric acid (HNO3) Sulturic acid (H2SO4)		3	CHARCE.	2 6° 6° - 2	
C Other (Specify)					-	

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	Chain of Cus	Cus) y Record	003010
ENTAF	4000 Monroe Road Farmington, MM 87401	d 7401	(505) 325-2262 Phone (505) 326-2383 FAX	CDC Serial No. C 2498
		e Type of Analysis	64 616	
Project Number 1028 00018 Phase. Task - Samplers R, THOM PSON		91 01 BO	ottle	
		admul	And Wash	
LOCATION ALBUQUERQUE	WW ,	. <u>.</u>		
Sample Number (and depth) Date Time	ne Matrix		S. A.	Commente
AND-0003-MWZ 3/1/00 1203	03 H20	X Z	10	95210
AND - 0003 - PZIAZI 100 1225		X Z	8	95210
			-	
Relinquished by:			Received By:	
Signature	Date	Time		r Date
Hed Chempon	3/1/2	<i>[h]</i>	35 ZUMENLO	anno 3/2/00 1015
Samples Iced: 🕅 Yes 🗌 No	Carrier: C.C.	Carrier: GREV 12011.ND		Alfbill No.
Preservatives (ONLY for Water Samples) C. Cyanide		1	T - SZIAMAS HZUS	JUVDICE EL PASO NORMAL RATE. JUVDICE PHILIP SERVICES FOR RUSH
		led a fi	C.	CHARES.

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GAS CHROMATOGRAPHY RESULTS

TEST CLIENT PROJECT # PROJECT N		: EPA 8021 MOE : PHILIP ENVIRG : 62800018 : EPFS GW INVI	ONMENTAL		• •	PINNACLE I.D.	: 003010
SAMPLE			· · · · · · · · · · · · · · · · · · ·	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	AND-0003-MW	12	AQUEOUS	03/01/00	NA	03/02/00	1
02	AND-0003-PZ1		AQUEOUS	03/01/00	NA	03/02/00	1
PARAMETE	R	DET. LIMIT		UNITS	AND-0003-MW2	AND-0003-PZ1 A	·
BENZENE		0.5		UG/L	< 0.5	< 0.5	
TOLUENE		0.5		UG/L	< 0.5	0.6	
ETHYLBEN	ZENE	0.5		UG/L	< 0.5	0.5	
TOTAL XYL	ENES	0.5		UG/L	< 0.5	2.5	
	TE: JOROBENZENE	E (%)			MW-2 101	₽ <u></u> 2-1A 95	•
SUKROGA	TE LIMITS	(80 - 120)					

CHEMIST NOTES: N/A