

3R - 231

REPORTS

DATE:

2000



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

FEB 28 2001

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.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Scott T. Pope', written over a horizontal line.

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 IV (Sites on Navajo Owned Land)

March 2001

Prepared For

**El Paso Field Services
Farmington, New Mexico**

Project 62800398



23

EPFS GROUNDWATER PITS 2000 ANNUAL GROUNDWATER REPORT

**RAMENTA ET AL #1
Meter/Line ID - 75155**

SITE DETAILS

Legals - Twn: 27N	Rng: 9W	Sec: 13	Unit: J
NMOCD Hazard Ranking: 30			Land Type: NAVAJO
Operator: BURLINGTON RESOURCES			

PREVIOUS ACTIVITIES

Site Assessment: Jun-96	Excavation: Oct-96 (432 cy)	Geoprobe: Feb-97
Soil Boring: May-97	Monitor Well: May-97	Quarterly Sampling Initiated: June-97
Additional Monitor Wells: Jun-99		

2000 ACTIVITIES

Quarterly Groundwater Monitoring - Quarterly groundwater monitoring at MW-1 continued through 2000 and annual groundwater monitoring was completed at MW-2 and MW-3.

Monitor Well Completion - The temporary monitor wells MW-2 and MW-3 drilled in 1999 were completed.

SUMMARY TABLES

Groundwater analytical data are 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 with the groundwater elevations and gradients is presented as Figure 1.

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

The temporary monitor wells, MW-2 and MW-3, were completed January 31, 2001. Well completion diagrams are included as Attachment 2.

DISPOSITION OF GENERATED WASTES

There were no wastes generated at this site in 2000.

ISOCONCENTRATION MAPS

BTEX parameters are at or below regulatory standards and isoconcentration maps were not generated.

CONCLUSIONS

Analytical results of groundwater samples collected from MW-1 show levels of benzene below NMWQCC standards during the last quarter of 2000 and only slightly above the groundwater standards during the first three quarters. Total xylene concentrations continue to decrease during 2000 and have remained below the NMWQCC standards throughout 2000. The most recent sampling event shows that all BTEX constituents are below NMWQCC standards.

EPFS GROUNDWATER PITS 2000 ANNUAL GROUNDWATER REPORT

Monitor wells MW-2 and MW-3 are below detection limits for all BTEX constituents since sampling was initiated in June 1999. Groundwater gradient is to the northwest at this site (Figure 1). Based on the decreasing hydrocarbon constituents at this site and with groundwater from the downgradient monitor wells below standards, natural attenuation and bioremediation appears to be occurring at this site.

Since this site is on Navajo land, EPFS assumes the Navajo Environmental Protection Agency has jurisdiction of this site and will either approve or deny closure upon submittal.

RECOMMENDATIONS

- Quarterly sampling will continue at MW-1 until analytical results show hydrocarbon constituents are below NMWQCC standards for four consecutive quarters.
- Monitor wells MW-2 and MW-3 will be sampled annually until the site is approved for closure.
- EPFS will continue to work with the operator of this site.
- Following OCD approval for closure, MW-1, MW-2, and MW-3 will be abandoned using OCD approved abandonment procedures.

Table 1

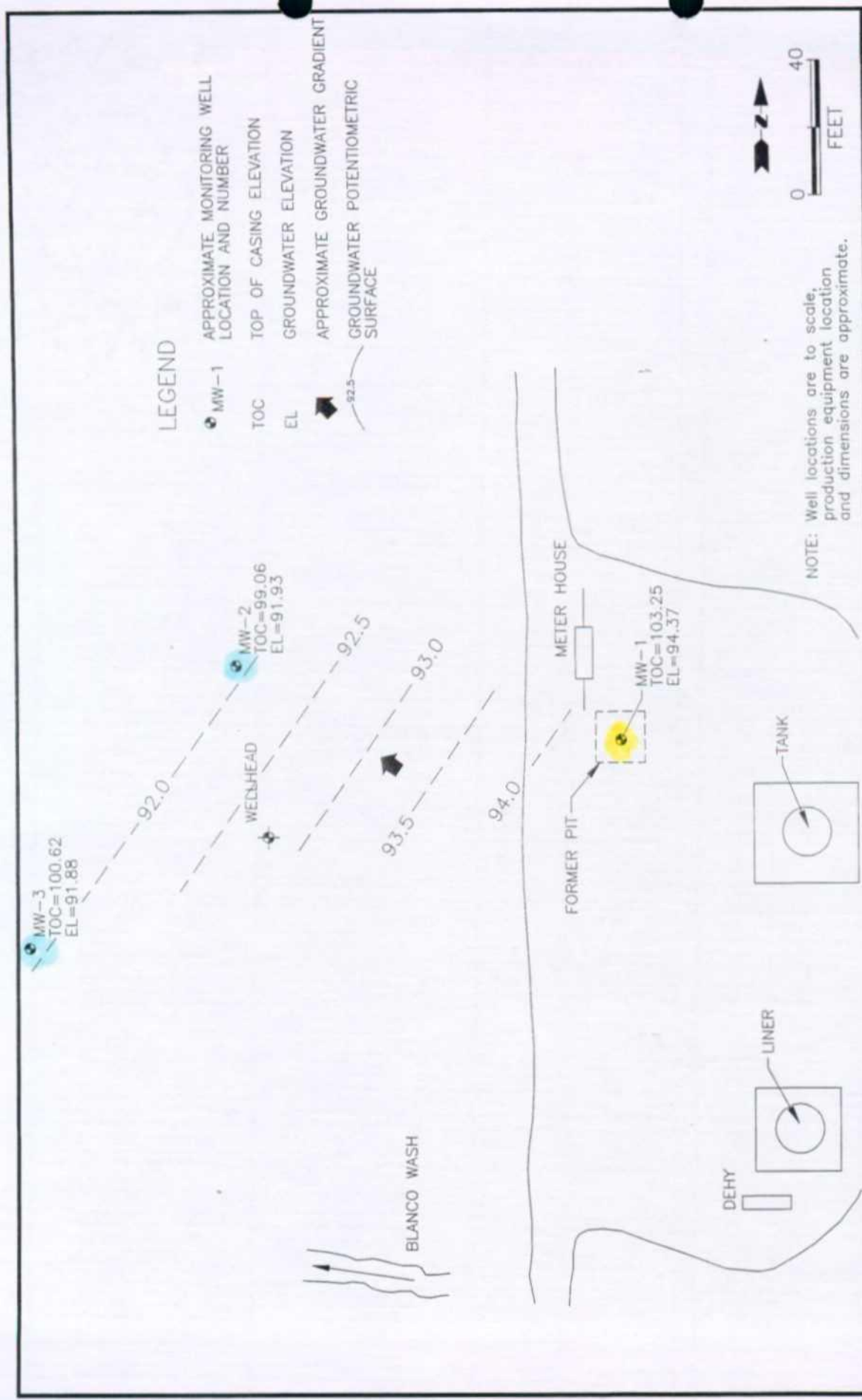
March 2001

Sample #	Meter / Line #	Site Name	Sample Date	MW #	Project	Benzene (PPB)	Toluene (PPB)	Ethyl Benzene (PPB)	Total Xylenes (PPB)	Total BTEX (PPB)
RAM-0003-MW1	75155	RAMENTA ET AL #1	3/16/00	1	Sample 4 - 12th Quarter	= 12	= 22	= 39	= 200	273
RAM-0006-MW1	75155	RAMENTA ET AL #1	6/12/00	1	Sample 4 - 13th Quarter	= 11	< 2.5	= 24	= 140	175
RAM-0009-MW1	75155	RAMENTA ET AL #1	9/25/00	1	Sample 4 - 14th Quarter	= 13	= 0.8	= 19	= 100	132.8
RAM-0012-MW1	75155	RAMENTA ET AL #1	12/12/00	1	Sample 4 - 15th Quarter	= 4.4	= 4.0	= 12	= 62	82.4
REM-0101-MW2	75155	RAMENTA ET AL #1	1/29/01	2	Sample 1 - 2nd Annual	< 0.5	< 0.5	< 0.5	< 0.5	ND
REM-0101-MW3	75155	RAMENTA ET AL #1	1/29/01	3	Sample 1 - 2nd Annual	< 0.5	< 0.5	< 0.5	< 0.5	ND

ND - No detectable levels

Sample 1 - Annual Sampling

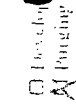
Sample 4 - Quarterly Sampling



PHILIP SERVICES CORP.	TITLE: REMENTA ET AL #1 METER 75155 JANUARY 29, 2001		DWN: TMM CHG: LW	DES: LW APP: MN	PROJECT NO.: 62800219 EPFS GW PITS
			DATE: 2/19/01	REV: 0	FIGURE 1

ATTACHMENT 1

2000 GROUNDWATER ANALYTICAL



WELL-DEVELOPMENT AND PURGING DATA

Page 1 of 1

Project No. 62800107

Phase.Task No.

File Address

Water Volumes Contribution

initially with a well 70.12' TOR

27 100

Highly recommended for all

RESEARCH REPORT

REMOVED

75013

1.50	1.50
------	------

[illegible]

377

Circle the date and time that the development criteria are met

Doc # C2512

3/16/00 Reviewer BT Date 3/16/00

PHILIP

Chain of Custody Record

4000 Monroe Road
Farmington, NM 87401

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

COC Serial No. C 2512

Project Name <u>EPFS QUARTERLY SAMPLING</u>		Type of Analysis and Bottle	
Project Number <u>62800107 Phase 1 Task</u>			
Samplers <u>R. Thompson</u>	Name <u>PRINCIPLE LAB</u>		
Laboratory	Location <u>ALBUQUERQUE NM</u>		
Sample Number (and depth)	Date	Time	Matrix
<u>RAM-0003-MW01</u>	<u>3/16/00</u>	<u>11:10</u>	<u>1</u>
Total Number of Bottles			
Comments <u>RAMENTA ET AL #1</u> <u>75155</u>			

Relinquished by:

Signature

Date

Time

Received By:

Signature

Date

Time

Samples Iced: ☒ Yes ☐ No

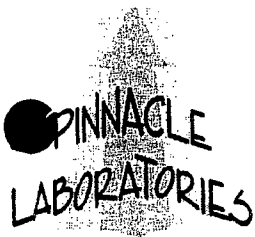
Preservatives (ONLY for Water Samples)

- ☐ Cyanide Sodium hydroxide (NaOH)
☒ Volatile Organic Analysis Hydrochloric acid (HCl)
☐ Metals Nitric acid (HNO₃)
☐ TPH (418.1) Sulfuric acid (H₂SO₄)
☐ Other (Specify)
☐ Other (Specify)

Carrier:

Shipping and Lab Notes:

Airbill No. BLT 1606650661



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

Pinnacle Lab ID number 003058
March 22, 2000

PHILIP ENVIRONMENTAL
4000 MONROE ROAD
FARMINGTON, NM 87401

Project Name EPFS QUARTERLY SAMPLING
Project Number 32800107

Attention: ROBERT THOMPSON

On 03/17/00 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.

A handwritten signature in cursive script, appearing to read "Kim D. McNeill".

Kimberly D. McNeill
Project Manager

A handwritten signature in cursive script, appearing to read "H. Mitchell Rubenstein".

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: jt

Enclosure



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

CLIENT	: PHILIP ENVIRONMENTAL	PINNACLE ID	: 003058
PROJECT #	: 62800107	DATE RECEIVED	: 03/17/00
PROJECT NAME	: EPFS QUARTERLY SAMPLING	REPORT DATE	: 03/22/00
PIN			DATE
D. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
01	RAM-0003-MW01	AQUEOUS	03/16/00



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED
CLIENT : PHILIP ENVIRONMENTAL
PROJECT # : 62800107
PROJECT NAME : EPFS QUARTERLY SAMPLING

PINNACLE I.D.: 003058

SAMPLE			DATE	DATE	DATE	DIL.
D. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	RAM-0003-MW01	AQUEOUS	03/16/00	NA	03/20/00	10

PARAMETER	DET. LIMIT	UNITS	RAM-0003-MW01
BENZENE	0.5	UG/L	12
TOLUENE	0.5	UG/L	22
ETHYLBENZENE	0.5	UG/L	39
TOTAL XYLENES	0.5	UG/L	200

SURROGATE:
BROMOFLUOROBENZENE (%) 111
SURROGATE LIMITS . 80 - 120)

CHEMIST NOTES:
N/A



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 003058
BLANK I. D.	: 032000	DATE EXTRACTED	: NA
CLIENT	: PHILIP ENVIRONMENTAL	DATE ANALYZED	: 03/20/00
PROJECT #	: 62800107	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: EPFS QUARTERLY SAMPLING		

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<0.5

SURROGATE:

BROMOFLUOROBENZENE (%)

97

SURROGATE LIMITS: (80 - 120)

CHEMIST NOTES.

N/A



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY QUALITY CONTROL
MSMSD

TEST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 003058
MSMSD #	: 003055-01	DATE EXTRACTED	: NA
CLIENT	: PHILIP ENVIRONMENTAL	DATE ANALYZED	: 03/20/00
PROJECT #	: 62800107	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: EPFS QUARTERLY SAMPLING	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	21.3	107	20.4	102	4	(80 - 120)	20
TOLUENE	<0.5	20.0	20.7	104	19.3	97	7	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	21.2	106	21.7	109	2	(80 - 120)	20
TOTAL XYLENES	<0.5	60.0	61.4	102	62.6	104	2	(80 - 120)	20

CHEMIST NOTES
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

PHILIP

Chain of Custody Record

4000 Monroe Road
Farmington, NM 87401

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

003058

COC Serial No. C 2512

Project Name <u>EPFS QUARTERLY SAMPLING</u>		Type of Analysis and Bottle	
Project Number <u>628 00107 Phase 1 Task</u>		Total Number of Bottles	
Samplers <u>R. THOMPSON</u>		Type of Analysis and Bottle	
Laboratory		Total Number of Bottles	
Name <u>Pinnacle Labs</u>		Type of Analysis and Bottle	
Location <u>ALBUQUERQUE, NM</u>		Type of Analysis and Bottle	
Sample Number (and depth)	Date	Time	Matrix
<u>RAM-0003-M1001</u>	<u>3/16/00</u>	<u>1140</u>	<u>H₂O</u>
Comments <u>RAMENTA ET AL #1</u> <u>75/55</u>			

Relinquished by:

Signature

Date

Time

Received By:

Signature

Date

Time

Samples Iced: ☒ Yes ☐ No

Preservatives (ONLY for Water Samples)

- ☐ Cyanide Sodium hydroxide (NaOH)
☒ Volatile Organic Analysis Hydrochloric acid (HCl)
☐ Metals Nitric acid (HNO₃)
☐ TPH (418.1) Sulfuric acid (H₂SO₄)
☐ Other (Specify) _____
☐ Other (Specify) _____

Carrier: GREY HOUND

Shipping and Lab Notes:

NEED RESULTS BY 3/24/00! ROAD SWICE
3.80C

Airbill No. 6111606650661

Chain of Custody Record

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

COC Serial No. C 2572

[illegible]

Relinquished by:

Signature	Date	Time	Signature	Date	Time
<i>Juan Vazquez</i>	11/14/11				

Received By:

[illegible]**Samples Iced:**☒ Yes ☐ No

Carrier:

Carrier: _____
Shipping and Lab Notes: _____

Airbill No. GLX 1006918511

Preservatives (ONLY for Water Samples)

☐ Cyanide Sodium hydroxide (NaOH)

☒ Volatile Organic Analysis Hydrochloric acid (HCl)

☐ Metals Nitric acid (HNO₃)

☐ TPH (418.1) Sulfuric acid (H₂SO₄)

☐ Other (Specify) _____

☐ Other (Specify) _____



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

Pinnacle Lab ID number **006060**
June 19, 2000

PHILIP ENVIRONMENTAL
4000 MONROE ROAD
FARMINGTON, NM 87401

EL PASO FIELD SERVICES
614 RIELY STREET
FARMINGTON, NM 87401

Project Name EPFS QUARTERLY SAMPLING
Project Number 62800107

Attention: ROBERT THOMPSON/LEAUDRA STANLEY

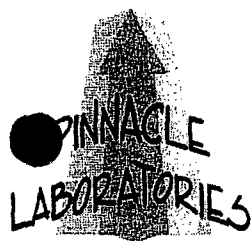
On 06/15/00 Pinnacle Laboratories, Inc. Inc., (ADHS License No. AZ0592 pending), received a request to analyze aqueous samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

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

H. Mitchell Rubenstein, Ph. D.
General Manager

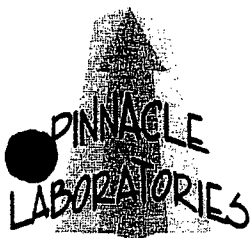
MR: jt

Enclosure



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

CLIENT	: PHILIP ENVIRONMENTAL	PINNACLE ID	: 006060
PROJECT #	: 62800107	DATE RECEIVED	: 06/15/00
PROJECT NAME	: EPFS QUARTERLY SAMPLING	REPORT DATE	: 06/19/00
PIN			DATE
D. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
01	RAM-0006-MW01	AQUEOUS	06/12/00



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED
CLIENT : PHILIP ENVIRONMENTAL
PROJECT # : 62800107
PROJECT NAME : EPFS QUARTERLY SAMPLING

PINNACLE I.D.: 006060

SAMPLE	DATE	DATE	DATE	DIL.		
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	RAM-0006-MW01	AQUEOUS	06/12/00	NA	06/16/00	5

PARAMETER	DET. LIMIT	UNITS	RAM-0006-MW01
BENZENE	0.5	UG/L	11
TOLUENE	0.5	UG/L	< 2.5
ETHYLBENZENE	0.5	UG/L	24
TOTAL XYLENES	0.5	UG/L	140

SURROGATE:
BROMOFLUOROBENZENE (%) 120
SURROGATE LIMITS (80 - 120)

CHEMIST NOTES:
N/A



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 006060
BLANK I. D.	: 061500	DATE EXTRACTED	: NA
CLIENT	: PHILIP ENVIRONMENTAL	DATE ANALYZED	: 06/15/00
PROJECT #	: 62800107	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: EPFS QUARTERLY SAMPLING		

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<0.5

SURROGATE:

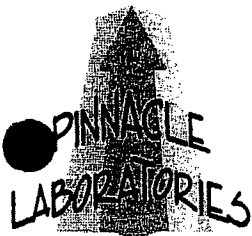
BROMOFLUOROBENZENE (%)

107

SURROGATE LIMITS: (80 - 120)

CHROMATIST NOTES:

N/A



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 006060
BLANK I. D.	: 061600	DATE EXTRACTED	: NA
CLIENT	: PHILIP ENVIRONMENTAL	DATE ANALYZED	: 06/16/00
PROJECT #	: 62800107	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: EPFS QUARTERLY SAMPLING		

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<0.5

SURROGATE:

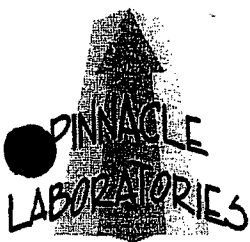
BROMOFLUOROBENZENE (%)

113

SURROGATE LIMITS: (80 - 120)

CHECKOUT NOTES:

N/A



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY QUALITY CONTROL
MSMSD

TEST : EPA 8021 MODIFIED
MSMSD # : 006058-05
CLIENT : PHILIP ENVIRONMENTAL
PROJECT # : 62800107
PROJECT NAME : EPFS QUARTERLY SAMPLING

PINNACLE I.D. : 006060
DATE EXTRACTED : NA
DATE ANALYZED : 06/15/00
SAMPLE MATRIX : AQUEOUS
UNITS : UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	18.2	91	17.9	90	2	(80 - 120)	20
TOLUENE	<0.5	20.0	19.9	100	20.0	100	1	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	20.2	101	20.3	102	0	(80 - 120)	20
TOTAL XYLENES	0.9	30.0	61.6	101	61.7	101	0	(80 - 120)	20

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

Chain of Custody Record

4000 Monroe Road
Farmington, NM 87401
(505) 326-2262 Phone
(505) 326-2388 FAX

COC Serial No. C 2572

[illegible]

Relinquished by:

Signature	Date	Time
Juan Wagner	6/14/02	1142
H. M. [Signature]	6/15/02	9:22

Received By:

Signature	Date	Time
<i>[Signature]</i>	6/15/08	9:22

Samples Iced:

Samples Iced: ☒ Yes ☐ No

Samples Iced: ☒ Yes ☐ No

servatives (ONLY for Water Samples)

☐ Cyanide Sodium hydroxide (NaOH)

☒ Volatile Organic Analysis Hydrochloric acid (HCl)

☐ Metals Nitric acid (HNO₃)

☐ TPH (418.1) Sulfuric acid (H₂SO₄)

Carrier: GRIFFIN LINES

Shipping and Lab Notes:

Airbill No. GLF/0006918511

16°C, still cool
13.9
NW

U.S. ENVIRONMENTAL PROTECTION AGENCY

NOTICE OF INSPECTION

Address (EPA Regional Office) Region 9 Environmental Inspection Agency 75 Hawthorne Street (WTR-9) San Francisco, CA 94105	Inspection Contractor NAVAJO EPA Groundwater Pollution Control Pgm. P.O. Box 1979 1999 Shiprock, NM 87420-1979 1999	Firm To Be Inspected Phillips Services 4000 Monroe Rd. Farmington, NM 87401
Date 9-25-00 Hour 12:40pm	Notice of inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C. §300 f et seq.).	

For El Paso Field Services.

Reason For Inspection

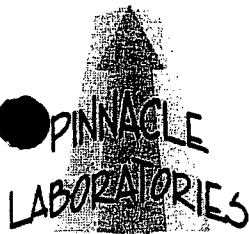
For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable permit or rule.

Groundwater Sampling @ Kamentz St. A/H, Sec's, T&TN, R&W, San Juan County - New Mexico and Juncos #1 Sec 36, 28N, R&W San Juan County, NM. The sampling was completed by Phillips Services for El Paso Field Service. Two samples were placed in sample bottles from each monitor well and were going to be sent to Pinnacle Labs. AHB, NM.

Section 1445(b) of the SDWA (42 U.S.C. §300 i-4 (b) is quoted on the reverse of this form.

Receipt of this Notice of Inspection is hereby acknowledged.

Firm Representative Miss A. May	Date 9-25-00	Inspector Melvyn Clark
---	------------------------	----------------------------------



OCT 2 2000

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

Pinnacle Lab ID number 009132
September 29, 2000

PHILIP ENVIRONMENTAL
4000 MONROE ROAD
FARMINGTON, NM 87401

EL PASO FIELD SERVICES
614 RIELY STREET
FARMINGTON, NM 87401

Project Name EPFS QUARTERLY SAMPLING
Project Number 62800107

Attention: ROBERT THOMPSON/LEAUDRA STANLEY

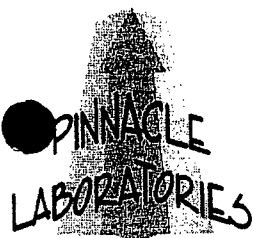
On 09/26/00 Pinnacle Laboratories, Inc., (ADHS License No. AZ0592 pending), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

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

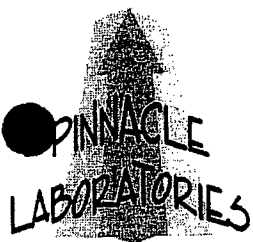
MR: jt

Enclosure



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

CLIENT	: PHILIP ENVIRONMENTAL	PINNACLE ID	: 009132
PROJECT #	: 62800107	DATE RECEIVED	: 09/26/00
PROJECT NAME	: EPFS QUARTERLY SAMPLING	REPORT DATE	: 09/29/00
PIN			DATE
D. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
01	RAM-0009-MW01	AQUEOUS	09/25/00



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Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED
CLIENT : PHILIP ENVIRONMENTAL
PROJECT # : 62800107
PROJECT NAME : EPFS QUARTERLY SAMPLING

PINNACLE I.D.: 009132

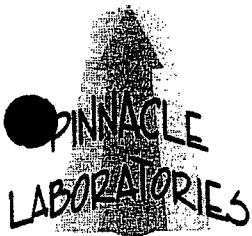
AMPLE			DATE	DATE	DATE	DIL.
D. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
1	RAM-0009-MW01	AQUEOUS	09/25/00	NA	09/27/00	1

PARAMETER	DET. LIMIT	UNITS	RAM-0009-MW01
BENZENE	0.5	UG/L	13
TOLUENE	0.5	UG/L	0.8
ETHYLBENZENE	0.5	UG/L	19
TOTAL XYLENES	0.5	UG/L	100

SURROGATE:
BROMOFLUOROBENZENE (%) 163*
SURROGATE LIMITS (80 - 120)

CHEMIST NOTES:

= High surrogate due to matrix interference.



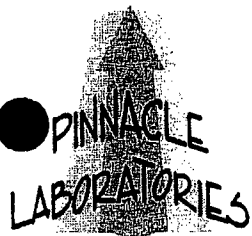
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Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

EST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 009132
LANK I. D.	: 092700	DATE EXTRACTED	: NA
LIENT	: PHILIP ENVIRONMENTAL	DATE ANALYZED	: 09/27/00
ROJECT #	: 62800107	SAMPLE MATRIX	: AQUEOUS
ROJECT NAME	: EPFS QUARTERLY SAMPLING		

PARAMETER	UNITS	
ENZENE	UG/L	<0.5
OLUENE	UG/L	<0.5
THYLBENZENE	UG/L	<0.5
OTAL XYLENES	UG/L	<0.5

JRROGATE:
ROMOFLUOROBENZENE (%) 103
JRF DATE LIMITS: (80 - 120)
HEMIST NOTES:
A



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Fax (505) 344-4413

GAS CHROMATOGRAPHY QUALITY CONTROL
MSMSD

TEST : EPA 8021 MODIFIED
MSMSD # : 009128-02
CLIENT : PHILIP ENVIRONMENTAL
PROJECT # : 62800107
PROJECT NAME : EPFS QUARTERLY SAMPLING

PINNACLE I.D. : 009132
DATE EXTRACTED : NA
DATE ANALYZED : 09/27/00
SAMPLE MATRIX : AQUEOUS
UNITS : UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	18.5	93	19.4	97	5	(80 - 120)	20
TOLUENE	<0.5	20.0	20.4	102	21.0	105	3	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	21.1	106	21.5	108	2	(80 - 120)	20
TOTAL XYLENES	<0.5	60.0	63.6	106	64.4	107	1	(80 - 120)	20

CHEMIST NOTES:
NA

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

PHILIP



Chain of Custody Record

4000 Monroe Road
Farmington, NM 87401

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

COC Serial No. C 2461

Project Name EpFS Quarterly Sampling

Project Number 62800107 Phase Task 0301

Samplers C. Maer

Laboratory Name PINNACLE

Location ALBQ - NM

Sample Number (and depth) RAM-0009-MW 0109 25-00/102

Date 09-25-00

Time 1102

Matrix H₂O

Type of Analysis and Bottle

Total Number of Bottles

2

X

01

Comments

RAM-0009 ET AL #1

Lab ID#

TC02 X 907

Relinquished by:

Signature

Date

Time

Received By:

Signature

Date

Time

Samples Iced: ☒ Yes ☐ No

Preservatives (ONLY for Water Samples)

☐ Cyanide Sodium hydroxide (NaOH)

☐ Volatile Organic Analysis Hydrochloric acid (HCl)

☐ Metals Nitric acid (HNO₃)

☐ TPH (418.1) Sulfuric acid (H₂SO₄)

☒ Other (Specify) H₂SO₄

☐ Other (Specify) _____

Carrier: Gregy

Shipping and Lab Notes:

Airbill No. 6LI 1606918687

Rec'd @ Vic Ice Present



Well Number MW 01

Well Development and Purging Data

Serial No. WDPD

Page 1 of 1

Project Name EPFS Quarterly Sampling

Contractor R Thompson

Project No. 62800102

Client Company ELP-50 Field Services

Phase/Task No. 0301

Site Name Ramona ET AL #1 (75155)

Owner Purcell Services Co.

Development Criteria

☒ 3 to 5 Casing Volumes of Water Removal

☒ Stabilization of Indicator Parameters

☐ Other

Instruments

☒ pH Meter

☐ DO Monitor

☒ Conductivity Meter

☒ Temperature Meter

☐ Other

Serial No. (if applicable)

Hydac

Hydac

Hydac

Methods of Development

Pump ☐ Bailor

☐ Centrifugal ☒ Bottom Valve

☐ Submersible ☐ Double Check Valve

☐ Peristaltic ☐ Stainless-steel Peristaltic

☐ Other

Water Disposal

KUTZ Separate for Bloomfield N.M.

Water Removal Data

Date	Time	Development Method (Pump/Bailor)	Removal Rate (gal/min)	Intake (feet)	Exhaust (feet)	Flow (gpm)	Conductivity (umhos/cm)	Dissolved Oxygen (mg/l)	Comments
12-12-00									
	1012	X				4.5	721	1300	Chloride bottom egg color
	1018	X				4.5	705	1380	"
	1023	X				4.5	700	1390	"
	1031	X				4.5	700	1390	"
						4.5	673	1360	NO Change

Circle the date and time that the development criteria are met

Comments Sampled for BTEX 1037

Developer's Signature(s) Chris A. May

Date 12-12-00

Reviewer RT

Date 12/18/00

Chain of Custody Record

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

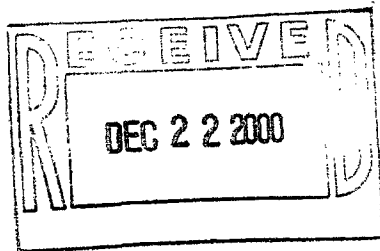
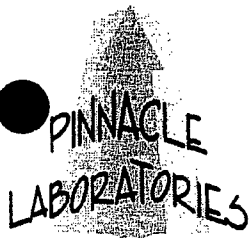
COC Serial No. C 2816

Relinquished by:

Received By:

	Signature	Date	Time	Signature	Date	Time
Unacquainted w:	[Handwritten Signature]					

Samples Iced: ☒ Yes ☐ No		Carrier: _____ Shipping and Lab Fees: _____	Airbill No. <u>GLI 1606919974</u>
Preservatives (ONLY for Water Samples)			
☐ Cyanide Sodium hydroxide (NaOH)			
☐ Volatile Organic Analysis Hydrochloric acid (HCl)			
☐ Metals Nitric acid (HNO ₃)			
☐ TPH (418.1) Sulfuric acid (H ₂ SO ₄)			
☒ Other (Specify) <u>Hydrochloric acid</u>			
☐ Other (Specify) _____			



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

Pinnacle Lab ID number **012060**
December 19, 2000

PHILIP ENVIRONMENTAL
4000 MONROE ROAD
FARMINGTON, NM 87401

EL PASO FIELD SERVICES
614 RIELLY STREET
FARMINGTON, NM 87401

Project Name EPFS QUARTERLY SAMPLING
Project Number 62800107

Attention: ROBERT THOMPSON/SCOTT POPE

On 12/14/00 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

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

PINNACLE
LABORATORIES

CLIENT	: PHILIP ENVIRONMENTAL	PINNACLE ID	: 012060
PROJECT #	: 62800107	DATE RECEIVED	: 12/14/00
PROJECT NAME	: EPFS QUARTERLY SAMPLING	REPORT DATE	: 12/19/00
PINNACLE			DATE
ID #	CLIENT DESCRIPTION	MATRIX	COLLECTED
012060 - 01	RAM-0012-MW 01	AQUEOUS	12/12/00
012060 - 02	TRIP BLANK	AQUEOUS	12/13/00



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Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

EST : EPA 8021 MODIFIED
CLIENT : PHILIP ENVIRONMENTAL
PROJECT # : 62800107
PROJECT NAME : EPFS QUARTERLY SAMPLING

PINNACLE I.D.: 012060

AMPLE			DATE	DATE	DATE	DIL.
1. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
1	RAM-0012-MW 01	AQUEOUS	12/12/00	NA	12/18/00	2
2	TRIP BLANK	AQUEOUS	12/13/00	NA	12/18/00	1

PARAMETER	DET. LIMIT	UNITS	RAM-0012-MW 01	TRIP BLANK
BENZENE	0.5	UG/L	4.4	< 0.5
TOLUENE	0.5	UG/L	4.0	< 0.5
ETHYLBENZENE	0.5	UG/L	12	< 0.5
BTOTAL XYLENES	0.5	UG/L	62	< 0.5

LABORATORY:

ROMOFLUOROBENZENE (%)

120

101

LABORATORY LIMITS (80 - 120)

ANALYST NOTES:

NA



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Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 012060
LAB I. D.	: 121500	DATE EXTRACTED	: NA
CLIENT	: PHILIP ENVIRONMENTAL	DATE ANALYZED	: 12/15/00
PROJECT #	: 62800107	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: EPFS QUARTERLY SAMPLING		

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
CHLOROBENZENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<0.5

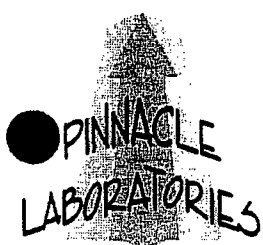
REMARKS:

CHLOROBENZENE (%)

107

REMARKS LIMITS: (80 - 120)

REMARKS NOTES:



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Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY QUALITY CONTROL
MSMSD

TEST : EPA 8021 MODIFIED
MSMSD # : 012057-01
CLIENT : PHILIP ENVIRONMENTAL
PROJECT # : 62800107
PROJECT NAME : EPFS QUARTERLY SAMPLING

PINNACLE I.D. : 012060
DATE EXTRACTED : NA
DATE ANALYZED : 12/15/00
SAMPLE MATRIX : AQUEOUS
UNITS : UG/L

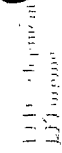
PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	20.8	104	21.1	106	1	(80 - 120)	20
FLUENE	<0.5	20.0	19.6	98	19.5	98	1	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	20.8	104	20.9	105	0	(80 - 120)	20
METHYL XYLENES	<0.5	60.0	60.6	101	61.1	102	1	(80 - 120)	20

CHEMIST NOTES:

A

$$\text{Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$



WEI L. DEVELOPMENT AND PURGING DATA

Page 7 of 7

Project # Thompson Project No. 62800/07

Phase, Task No. 0301

Wm. H. K. Co. San Francisco

[illegible]

John Male

0123456789

☐ DO Monitor

21 Conductivity Meter 11 pages

☒ Temperature

□ □ □

1110

Director, Design

77

Water Disposal

Kuntz Separate Blomfield N/M.

Journal of Management Education 35(1) 1-16

[illegible]

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

Comments Sampled for BTEX 11/11

Developer's Signature(s) Re-A May Full-01-29-01 Reviewer RT Date 1/31/01

PHILIP

4000 Monroe Road
Farmington, NM 87401
(505) 326-2262 Phone
(505) 326-2388 FAX

COC Serial No. C 2845

Project Name <u>EOFS ANNEX 1</u>			Type of Analysis and Bottle		
Project Number <u>62800107</u>			Total Number of Bottles		
Phase <u>Task 02</u>					
Samplers <u>C. Maer</u>					
Laboratory					
Name <u>PIANACHE</u>					
Location <u>ALBQ NAM</u>					
Sample Number (and depth)	Date	Time	Matrix		
REM-0101-MW 02	01-24-01	11:30	11.0		
REM-0101-MW 03	01-24-01	11:45	11.0		
JEN-0101-MW 03	01-24-01	14:05	11.0		
JEN-0101-MW 03	01-24-01	14:05	11.0		
JEN-0101-MW 02	01-24-01	14:50	11.0		
<u>TRIP BLANK</u>	01-24-01	16:00			

Relinquished by:

Received By:

Signature	Date	Time
<i>Chas A. Moore</i>	<i>6/1/66</i>	

Samples Iced:

☒ Yes ☐ No

Samples Iced: ☒ Yes ☐ No
Preservatives (ONLY for Water Samples)

servatives (ONLY for Water Samples)

☐ Cyanide Sodium hydroxide (NaOH)

☐ Volatile Organic Analysis Hydrochloric acid (HCl)

☐ Metals Nitric acid (HNO₃)

☒ TPH (4+8-1) Sulfuric acid (H₂SO₄)

☒ Other (Specify) Asbestos

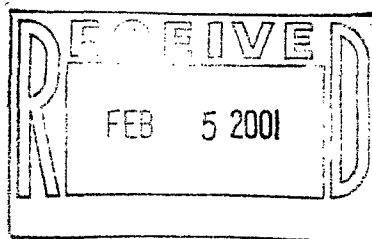
☐ Other (Specify) _____

Carrier:

Shipping and Lab Notes:

Airbill No. GLT106919941

PINNACLE
LABORATORIES



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

Pinnacle Lab ID number
February 01, 2001

101088

PHILIP ENVIRONMENTAL
4000 MONROE ROAD
FARMINGTON, NM 87401

EL PASO FIELD SERVICES
614 RIELLY STREET
FARMINGTON, NM 87401

Project Name EPFS ANNUAL SAMPLING
Project Number 62800107

Attention: ROBERT THOMPSON/SCOTT POPE

On 01/31/01 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.

A handwritten signature in black ink, appearing to read "H. Mitchell Rubenstein".

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: jt

Enclosure



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

CLIENT	: PHILIP ENVIRONMENTAL	PINNACLE ID	: 101088
PROJECT #	: 62800107	DATE RECEIVED	: 01/31/01
PROJECT NAME	: EPFS ANNUAL SAMPLING	REPORT DATE	: 02/01/01

PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01088 - 01	REM-0101-MW 02	AQUOEUS	01/29/01
01088 - 02	REM-0101-MW 03	AQUOEUS	01/29/01
01088 - 03	JEN-0101-MW 03	AQUOEUS	01/29/01
01088 - 04	JEN-0101-MW S3	AQUOEUS	01/29/01
01088 - 05	JEN-0101-MW 02	AQUOEUS	01/29/01
01088 - 06	TRIP BLANK	AQUOEUS	01/29/01



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Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED
CLIENT : PHILIP ENVIRONMENTAL
PROJECT # : 62800107
PROJECT NAME : EPFS ANNUAL SAMPLING

PINNACLE I.D.: 101088

SAMPLE	DATE	DATE	DATE	DIL.
#	SAMPLED	EXTRACTED	ANALYZED	FACTOR
1	01/29/01	NA	01/31/01	1
2	01/29/01	NA	01/31/01	1
3	01/29/01	NA	01/31/01	1

PARAMETER	DET. LIMIT	UNITS	REM-0101-MW 02	REM-0101-MW 03	JEN-0101-MW 03
BENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
TOLUENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
ETHYLBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
TOTAL XYLENES	0.5	UG/L	< 0.5	< 0.5	< 0.5

surrogate:
BROMOFLUOROBENZENE (%) 99 100 101
 surrogate LIMITS (80 - 120)

ANALYST NOTES:

NA



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Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED
CLIENT : PHILIP ENVIRONMENTAL
PROJECT # : 62800107
PROJECT NAME : EPFS ANNUAL SAMPLING

PINNACLE I.D.: 101088

RESOLUTION REPORT FOR ANALYSIS SAMPLES						
SAMPLE			DATE	DATE	DATE	DIL.
D. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
4	JEN-0101-MW S3	AQUEOUS	01/29/01	NA	01/31/01	1
5	JEN-0101-MW 02	AQUEOUS	01/29/01	NA	01/31/01	1
6	TRIP BLANK	AQUEOUS	01/29/01	NA	01/31/01	1

PARAMETER	DET. LIMIT	UNITS	JEN-0101-MW S3	JEN-0101-MW 02	TRIP BLANK
BENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
TOLUENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
ETHYLBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
TOTAL XYLENES	0.5	UG/L	< 0.5	< 0.5	< 0.5

TURROGATE:
BROMOFLUOROBENZENE (%) 101 99 102
TURROGATE LIMITS (80 - 120)

CHEMIST NOTES:
N/A



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Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

EST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 101088
BLANK I. D.	: 013101	DATE EXTRACTED	: NA
CLIENT	: PHILIP ENVIRONMENTAL	DATE ANALYZED	: 01/31/01
PROJECT #	: 62800107	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: EPFS ANNUAL SAMPLING		

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<0.5

surrogate:
BROMOFLUOROBENZENE (%) 100
 surrogate LIMITS: (80 - 120)
CHEMIST NOTES:

A



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY QUALITY CONTROL
MSMSD

TEST : EPA 8021 MODIFIED
MSMSD # : 013101
CLIENT : PHILIP ENVIRONMENTAL
PROJECT # : 62800107
PROJECT NAME : EPFS ANNUAL SAMPLING
PINNACLE I.D. : 101088
DATE EXTRACTED : NA
DATE ANALYZED : 01/31/01
SAMPLE MATRIX : AQUEOUS
UNITS : UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	20.3	102	20.7	104	2	(80 - 120)	20
OLUENE	<0.5	20.0	18.1	91	18.3	92	1	(80 - 120)	20
THYLBENZENE	<0.5	20.0	19.5	98	19.8	99	2	(80 - 120)	20
TOTAL XYLENES	<0.5	60.0	57.1	95	57.9	97	1	(80 - 120)	20

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

ATTACHMENT 2

**MONITOR WELL COMPLETION
RECORDS**

MONITORING WELL INSTALLATION RECORD

Millip Environmental Services Corp.
 000 Monroe Road
 Farmington, New Mexico 87401
 5061 326-2388 FAX (506) 326-2388

Borehole # 2
 Well # MLW-2
 Page 1 of 1

Project Name EPFS GW Inv
 Project Number 20990 Phase 1000
 Project Location Amenita #1

On-Site Geologist P. Cheney
 Personnel On-Site Cheney, K. Padilla, D. Padilla
 Contractors On-Site _____
 Client Personnel On-Site _____

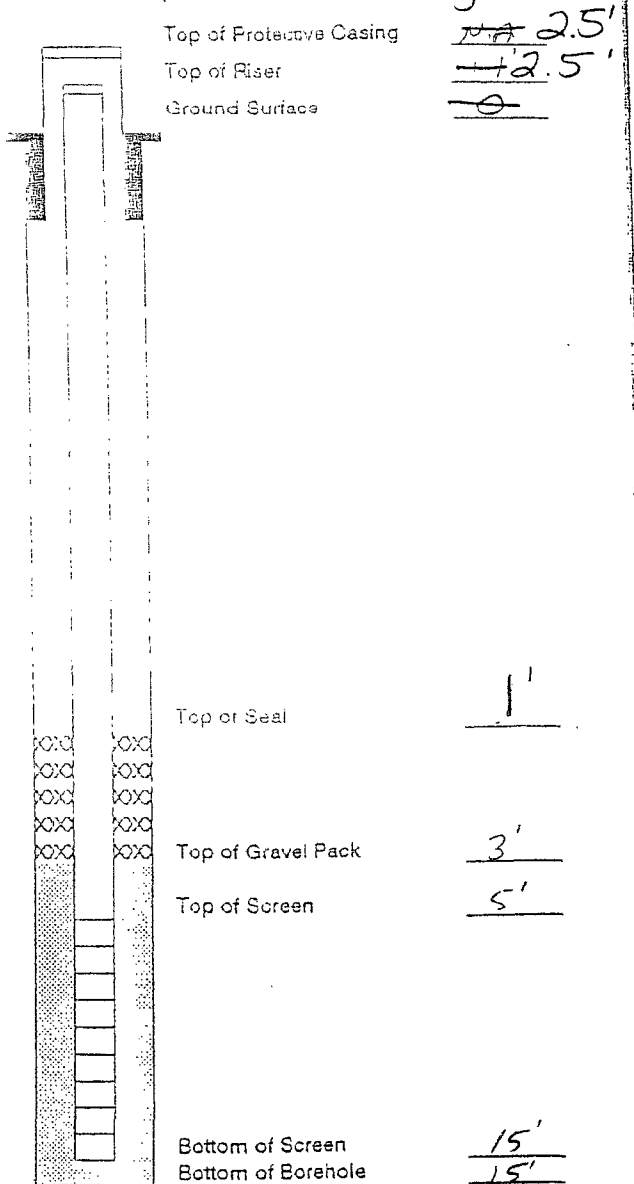
Elevation _____
 Well Location _____
 SWL Depth _____
 Installed By K. Padilla

Date/Time Started 06/01 1224
 Date/Time Completed 06/01 1305

Monitor well completed January 31, 2001 by D. Padilla
 J. W. J.

Depths in Reference to Ground Surface

Item	Material	Depth
Top of Protective Casing		+2.5'
Bottom of Protective Casing		-2.5'
Top of Permanent Borehole Casing		+2.5'
Bottom of Permanent Borehole Casing		-15'
Top of Concrete		0
Bottom of Concrete		-1'
Top of Grout		0
Bottom of Grout		0
Top of Well Riser		+1'
Bottom of Well Riser		5'
Top of Well Screen		5'
Bottom of Well Screen		15'
Top of Peltonite Seal		N.A.
Bottom of Peltonite Seal		N.A.
Top of Gravel Pack		3'
Bottom of Gravel Pack		15'
Top of Natural Cave-In		N.A.
Bottom of Natural Cave-In		N.A.
Top of Groundwater		7'
Total Depth of Borehole		15'



Comments: Temporary well installation

Geologist Signature _____

MONITORING WELL INSTALLATION RECORD

Slip Environmental Services Corp.
 00 Monroe Road
 Birmingh New Mexico 87401
 505 3 FAX (505) 326-2388

Temporary well

Borehole # 3
 Well # MW-3
 Page 1 of 1

Project Name EPFS GW Inv
 Project Number 20990 Phase 1000
 Project Location Amenita #1

On-Site Geologist P. Cheney
 Personnel On-Site Cheney, A. Padilla, D. Padilla
 Contractors On-Site _____
 Client Personnel On-Site _____

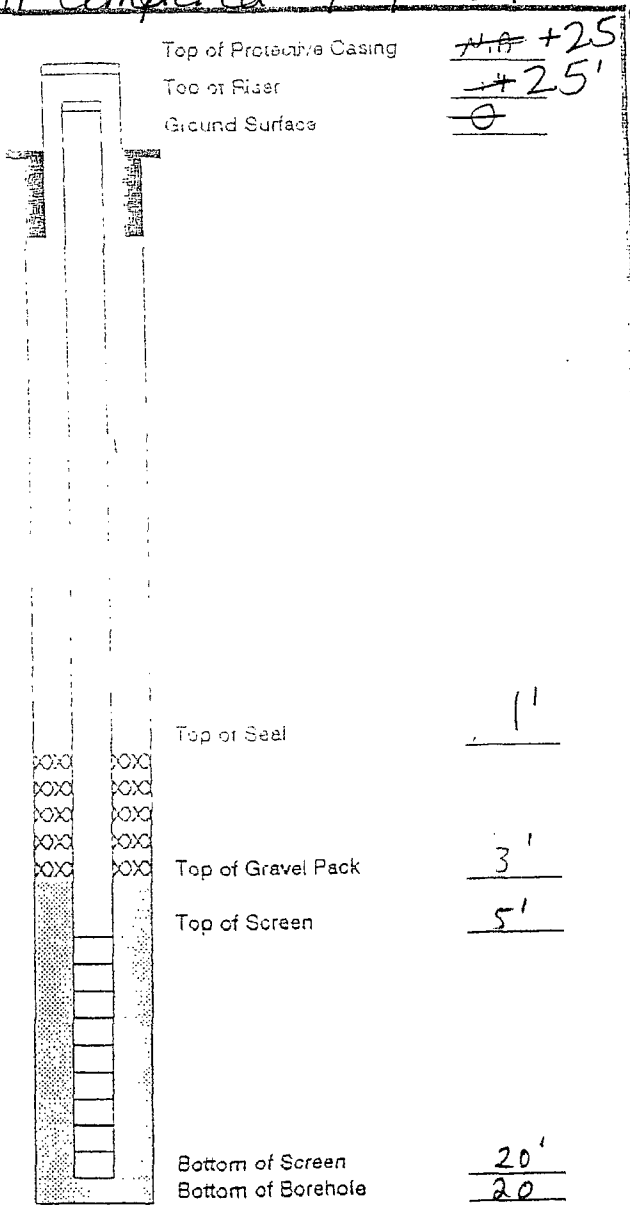
Elevation _____
 Well Location Amenita #1
 Well Depth _____
 Installed By K. Padilla

Date/Time Started 06/01 1310
 Date/Time Completed 06/01 1500

Monitor well completed 1/31/01 by D. Padilla

Depths in Reference to Ground Surface

Item	Material	Depth
Top of Protective Casing		+25'
Bottom of Protective Casing		-2.5'
Top of Permanent Borehole Casing		+25'
Bottom of Permanent Borehole Casing		-20'
Top of Concrete		0
Bottom of Concrete		+1'
Top of Grout		0
Bottom of Grout		0
Top of Well Riser		+1'
Bottom of Well Riser		5'
Top of Well Screen		5'
Bottom of Well Screen		20'
Top of Peltonite Seal		N.A.
Bottom of Peltonite Seal		N.A.
Top of Gravel Pack		3'
Bottom of Gravel Pack		20'
Top of Natural Cave-In		N.A.
Bottom of Natural Cave-In		N.A.
Top of Groundwater		10'
Total Depth of Borehole		20'



Comments: _____

 Geologist Signature _____