

3R - 194

REPORTS

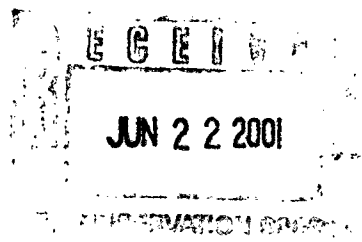
DATE:

6/21/2001

Certified Mail: #7000 1670 0012 7260 6289

June 21, 2001

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



**RE: Request to Reduce Surface Water Sample Frequency of Citizens Ditch Surface Water
at the Jaquez Site From Quarterly to Semi Annual**

Dear Mr. Olson:

El Paso Field Services (EPFS) hereby requests the surface water sampling frequency of the up and down stream surface water in Citizens Ditch be reduced from quarterly to semi annually (December, June) at the Jaquez site. The sampling was required in the May 15, 2000 letter from the New Mexico Oil Conservation Division "Investigation Results and Work Plans Jaquez Com C #1 and E #1".

As discussed in our recent telephone conversation, samples have been collected for Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX) by EPA method 8021 modified up and down stream of the site in June of 2000, September of 2000, January of 2001, and May of 2001. No BTEX compounds were detected above laboratory detection limits in any of the samples, except the May 2001, up stream sample. In the May 2001, up stream sample, Toluene was detected at 1.2 ug/L, Ethylbenzene 0.5 ug/L and total Xylenes at 1.1 ug/L, which are well below state water quality standards. At the request of EPFS the samples were re-analyzed and BTEX compounds were not found above the detection limits. Laboratory reports are enclosed for your information.

According to the proposed schedule the next surface water sampling event will be December of 2001. EPFS also recommends that semi annual sampling be re-evaluated and possibly discontinued after the June 2002 sampling event since free phase hydrocarbons are no longer present at the site.

If you have any questions or require additional information, please call me at (505) 599-2124.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott T. Pope".

Scott T. Pope P.G.
Senior Environmental Scientist

Enclosures: as stated

xc: Mr. Denny Foust, NMOCD, Aztec - w / enclosures; **Certified Mail # 7000 1670 0012 7260 9303**
Mr. John Jaquez, Landowner - w / enclosures, **Certified Mail # 7000 1670 0012 7260 9310**



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

Pinnacle Lab ID number **105014**
June 07, 2001

PHILIP SERVICE CORPORATION
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 05/02/01 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.

At the request of the client the sample was reanalyzed (six days past hold time). Examination of the reanalysis did not confirm the presence of the aromatics. Low levels of hydrocarbons were observed. While Pinnacle is not able to refute the original results, we will make the new results available in this revised report. Pinnacle also recommends that they be notified at the time of the next round of quarterly samples. If Toluene (or any aromatic compound) is found, we will immediately confirm the presence by EPA 8260 (at our cost).

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

PINNACLE
LABORATORIES

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

CLIENT	: PHILIP SERVICE CORPORATION	PINNACLE ID	: 105014
PROJECT #	: 62800107	DATE RECEIVED	: 05/02/01
PROJECT NAME	: EPFS QUARTERLY SAMPLING	REPORT DATE	: 06/07/01
PINNACLE			DATE
ID #	CLIENT DESCRIPTION	MATRIX	COLLECTED
105014 - 01	JAQ-0501-CDUG	AQUEOUS	05/01/01
105014 - 02	JAQ-0501-CDDG	AQUEOUS	05/01/01

PINNACLE
LABORATORIES

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 SERVICE CORPORATION
PROJECT # : 62800107
PROJECT NAME : EPFS QUARTERLY SAMPLING

PINNACLE I.D.: 105014

SAMPLE	DATE	DATE	DATE	DIL.		
D. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
11	JAQ-0501-CDUG	AQUEOUS	05/01/01	NA	05/21/01	1

PARAMETER	DET. LIMIT	UNITS	JAQ-0501- CDUG
BENZENE	0.5	UG/L	< 0.5
TOLUENE	0.5	UG/L	< 0.5
ETHYLBENZENE	0.5	UG/L	< 0.5
TOTAL XYLENES	0.5	UG/L	< 0.5
METHYL-t-BUTYL ETHER	2.5	UG/L	< 2.5

SURROGATE:

BROMOFLUOROBENZENE (%)

102

SURROGATE LIMITS (80 - 120)

CHEMIST NOTES:

Sample analyzed out of hold time.

PINNACLE
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GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

EST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 105014
BLANK I. D.	: 052101	DATE EXTRACTED	: NA
CLIENT	: PHILIP SERVICE CORPORATION	DATE ANALYZED	: 05/21/01
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 (%) 100
SURROGATE LIMITS: (80 - 120)
CHEMIST NOTES:
N/A

PINNACLE
LABORATORIES

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Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY QUALITY CONTROL
MSMSD

EST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 105014
MSMSD #	: 052101	DATE EXTRACTED	: NA
CLIENT	: PHILIP SERVICE CORPORATION	DATE ANALYZED	: 05/21/01
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	18.6	93	17.8	89	4	(80 - 120)	20
TOLUENE	<0.5	20.0	18.7	94	18.2	91	3	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	19.4	97	19.2	96	1	(80 - 120)	20
TOTAL XYLENES	<0.5	60.0	57.7	96	57.1	95	1	(80 - 120)	20

CHEMIST NOTES:

N/A

(Spike Sample Result - Sample Result)

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

(Sample Result - Duplicate Result)

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

105014

COC Serial No. C3201

Project Name EPFS QUARTERLY SAMPLING				Total Number of Bottles	Type of Analysis and Bottle <i>BTX 8021</i> <i>Lab ID#</i>														
Project Number 62800107 Phase . Task 0301																			
Samplers R. THOMPSON																			
Laboratory	Name PINNACLE LABS																		
	Location ALBUQUERQUE, NM																		
Sample Number (and depth)	Date	Time	Matrix																Comments
JAQ-0501-CDUG	5/1/01	1200	H ₂ O	X	X				01										
JAQ-0501-CDDG	5/1/01	1205	H ₂ O	X	X				02										
<i>RT 5/1/01</i>																			

Relinquished by:

Received By:

Signature	Date	Time	Signature	Date	Time
<i>Robert Thompson</i>	5/1/01	1525	<i>Francine Juvino</i>	5/2/01	0905

Samples Iced: ☒ Yes ☐ No	Carrier: GREY HOUND LINES	Airbill No. GLI 160 691 9590
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) HgCl₂ ☐ Other (Specify) _____	Shipping and Lab Notes: BILL SCOTT POPE w/ EPFS DIRECTLY. SEND LAB RESULTS TO SCOTT POPE w/ EPFS AND ROBERT THOMPSON w/ PSC. Rec'd @ 4.2°C	

PINNACLE
LABORATORIES

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Pinnacle Lab ID number **105014**
May 04, 2001

PHILIP SERVICE CORPORATION
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 05/02/01 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.



H. Mitchell Rubenstein, Ph. D.
General Manager

MR: jt

Enclosure

PINNACLE
LABORATORIES

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Phone (505) 344-3777
Fax (505) 344-4413

CLIENT : PHILIP SERVICE CORPORATION
PROJECT # : 62800107
PROJECT NAME : EPFS QUARTERLY SAMPLING

PINNACLE ID : 105014
DATE RECEIVED : 05/02/01
REPORT DATE : 05/04/01

PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
105014 - 01	JAQ-0501-CDUG	AQUEOUS	05/01/01
105014 - 02	JAQ-0501-CDDG	AQUEOUS	05/01/01

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GAS CHROMATOGRAPHY RESULTS

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

PINNACLE I.D.: 105014

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	JAQ-0501-CDUG	AQUEOUS	05/01/01	NA	05/03/01	1
02	JAQ-0501-CDDG	AQUEOUS	05/01/01	NA	05/03/01	1

PARAMETER	DET. LIMIT	UNITS	JAQ-0501- CDUG	JAQ-0501- CDDG
BENZENE	0.5	UG/L	< 0.5	< 0.5
TOLUENE	0.5	UG/L	1.2	< 0.5
ETHYLBENZENE	0.5	UG/L	0.5	< 0.5
TOTAL XYLENES	0.5	UG/L	1.1	< 0.5

SURROGATE:
BROMOFLUOROBENZENE (%) 96 98
SURROGATE LIMITS (80 - 120)

CHEMIST NOTES:
N/A

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LABORATORIES

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GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 105014
BLANK I. D.	: 050301	DATE EXTRACTED	: NA
CLIENT	: PHILIP SERVICE CORPORATION	DATE ANALYZED	: 05/03/01
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 (%)

98

SURROGATE LIMITS: (80 - 120)

CHEMIST NOTES:

N/A

PINNACLE
LABORATORIES

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GAS CHROMATOGRAPHY QUALITY CONTROL
MSMSD

TEST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 105014
MSMSD #	: 050301	DATE EXTRACTED	: NA
CLIENT	: PHILIP SERVICE CORPORATION	DATE ANALYZED	: 05/03/01
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	19.5	98	17.8	89	9	(80 - 120)	20
TOLUENE	<0.5	20.0	20.0	100	18.3	92	9	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	20.8	104	19.0	95	9	(80 - 120)	20
TOTAL XYLENES	<0.5	60.0	61.8	103	56.8	95	8	(80 - 120)	20

CHEMIST NOTES:
N/A

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

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



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Pinnacle Lab ID number **101069**
January 23, 2001

PHILIP ENVIRONMENTAL
4000 MONROE ROAD
FARMINGTON, NM 87401

EL PASO FIELD SERVICES
614 RIELLY STREET
FARMINGTON, NM 87401

Project Name JAQUEZ SVE
Project Number 62800165

Attention: ROBERT THOMPSON/SCOTT POPE

On 01/23/01 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". The signature is stylized and fluid.

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

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED
CLIENT : PHILIP ENVIRONMENTAL
PROJECT # : 62800165
PROJECT NAME : JAQUEZ SVE

PINNACLE I.D.: 101069

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	JAQ-0101-CDUG	AQUEOUS	01/19/01	NA	01/23/01	1
02	JAQ-0101-CDDG	AQUEOUS	01/19/01	NA	01/23/01	1
03	TRIP BLANK	AQUEOUS	01/22/01	NA	01/23/01	1

PARAMETER	DET. LIMIT	UNITS	JAQ-0101- CDUG	JAQ-0101- CDDG	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

SURROGATE:
BROMOFLUOROBENZENE (%) 101 100 101
SURROGATE LIMITS (80 - 120)

ANALYST NOTES:
/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.	: 101069
BLANK I. D.	: 012301	DATE EXTRACTED	: NA
CLIENT	: PHILIP ENVIRONMENTAL	DATE ANALYZED	: 01/23/01
PROJECT #	: 62800165	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: JAQUEZ SVE		

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

URROGATE:
ROMOFLUOROBENZENE (%) 101
URROGATE LIMITS: (80 - 120)
HEMIST NOTES:
'A

PINNACLE
LABORATORIES

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 # : 101069-01
CLIENT : PHILIP ENVIRONMENTAL
PROJECT # : 62800165
PROJECT NAME : JAQUEZ SVE

PINNACLE I.D. : 101069
DATE EXTRACTED : NA
DATE ANALYZED : 01/23/01
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	19.9	100	18.7	94	6	(80 - 120)	20
TOLUENE	<0.5	20.0	19.0	95	17.6	88	8	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	20.6	103	19.3	97	7	(80 - 120)	20
BTAL XYLENES	<0.5	60.0	60.0	100	56.1	94	7	(80 - 120)	20

CHEMIST NOTES:

A

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

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



Chain of Custody Record

4000 Monroe Road
Farmington, NM 87401

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

PLI ID# 101069

COC Serial No. C 2808

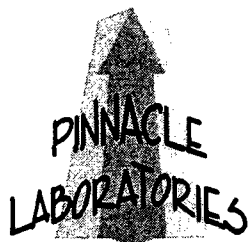
Project Name <u>Jaquez S.V.E.</u>				Total Number of Bottles	Type of Analysis and Bottle	Lab ID#	Comments
Project Number <u>62800165</u> Phase . Task <u>SS</u>							
Samplers <u>C maez</u>							
Laboratory Name <u>PINNACLE</u> Location <u>ALBQ NM.</u>							
Sample Number (and depth)	Date	Time	Matrix				
<u>JAQ-0101-CDUG</u>	<u>01-19-01</u>	<u>1709</u>	<u>H₂O</u>	<u>2</u>	<u>X</u>	<u>01</u>	<u>JAquez DITCH</u>
<u>JAQ-0101-CDDG</u>	<u>01-19-01</u>	<u>1717</u>	<u>H₂O</u>	<u>2</u>	<u>X</u>	<u>02</u>	<u>JAquez DITCH</u>
<u>Trip Blank</u>	<u>01-22-01</u>	<u>1530</u>	<u>H₂O</u>	<u>1</u>	<u>X</u>	<u>03</u>	<u>JAquez</u>

Relinquished by:

Received By:

Signature	Date	Time	Signature	Date	Time
<u>Chris A. May</u>	<u>01-22-01</u>	<u>0800</u>	<u>Humene Juino</u>	<u>1/23/01</u>	<u>0950</u>

Samples Iced: ☒ Yes ☐ No		Carrier: <u>Greyhound</u>	Airbill No. <u>GLI1606919963</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>HgCL₂</u> ☐ Other (Specify) _____		Shipping and Lab Notes: <u>Rec'd @ 8°C On Ice</u>	



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

Pinnacle Lab ID number 009052
September 13, 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

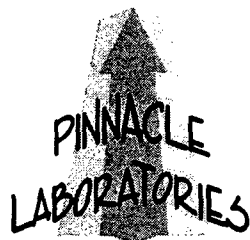
On 09/08/00 Pinnacle Laboratories, Inc., (ADHS License No. AZ0592 pending), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

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

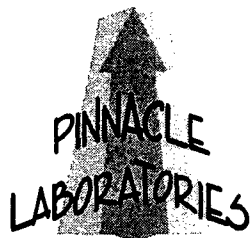
MR: jt

Enclosure



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

CLIENT	: PHILIP ENVIRONMENTAL	PINNACLE ID	: 009052
PROJECT #	: 62800107	DATE RECEIVED	: 09/08/00
PROJECT NAME	: EPFS QUARTERLY SAMPLING	REPORT DATE	: 09/13/00
PIN			DATE
ID. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
01	JAQ-0009-CD DG	AQUEOUS	09/06/00
02	JAQ-0009-CD UG	AQUEOUS	09/06/00



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.: 009052

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	JAQ-0009-CD DG	AQUEOUS	09/06/00	NA	09/06/00	1
02	JAQ-0009-CD UG	AQUEOUS	09/06/00	NA	09/06/00	1

PARAMETER	DET. LIMIT	UNITS	JAQ-0009-CD DG	JAQ-0009-CD UG
BENZENE	0.5	UG/L	< 0.5	< 0.5
TOLUENE	0.5	UG/L	< 0.5	< 0.5
ETHYLBENZENE	0.5	UG/L	< 0.5	< 0.5
TOTAL XYLENES	0.5	UG/L	< 0.5	< 0.5

SURROGATE:

BROMOFLUOROBENZENE (%)

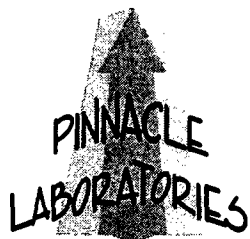
107

107

SURROGATE LIMITS (80 - 120)

CHEMIST NOTES:

N/A



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
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GAS CHROMATOGRAPHY QUALITY CONTROL
MSMSD

TEST	: EPA 8021 MODIFIED	PINNACLE I.D.	:	009052
MSMSD #	: 009051-01	DATE EXTRACTED	:	NA
CLIENT	: PHILIP ENVIRONMENTAL	DATE ANALYZED	:	09/11/00
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	20.1	101	19.7	99	2	(80 - 120)	20
TOLUENE	<0.5	20.0	21.0	105	21.1	106	0	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	22.1	111	21.7	109	2	(80 - 120)	20
TOTAL XYLENES	<0.5	60.0	66.0	110	65.7	110	0	(80 - 120)	20

CHEMIST NOTES:
N/A

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

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



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

COC Serial No. C 2451

009052

Relinquished by:

Received By:

Samples Iced: ☐ Yes ☐ No		Carrier: <u>Greyhound Bus Lines</u>	Airbill No.
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>HgCl₂</u> ☐ Other (Specify) _____		Shipping and Lab Notes: Rec'd @ 41°C	



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

JUN 12 REC'D

Pinnacle Lab ID number 006018
June 07, 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 06/02/00 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	: 006018
PROJECT #	: 62800107	DATE RECEIVED	: 06/02/00
PROJECT NAME	: EPFS QUARTERLY SAMPLING	REPORT DATE	: 06/07/00
PIN			DATE
ID. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
01	JAQ-0006-CDUG	AQUEOUS	06/01/00
02	JAQ-0006-CDDG	AQUEOUS	06/01/00



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Albuquerque, New Mexico 87107
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GAS CHROMATOGRAPHY RESULTS

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

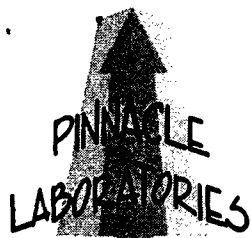
PINNACLE I.D.: 006018

PROJECT NAME: 1275 QUARTZENEY SHALING						
SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	JAQ-0006-CDUG	AQUEOUS	06/01/00	NA	06/05/00	1
02	JAQ-0006-CDDG	AQUEOUS	06/01/00	NA	06/05/00	1

PARAMETER	DET. LIMIT	UNITS	JAQ-0006- CDUG	JAQ-0006- CDDG
BENZENE	0.5	UG/L	< 0.5	< 0.5
TOLUENE	0.5	UG/L	< 0.5	< 0.5
ETHYLBENZENE	0.5	UG/L	< 0.5	< 0.5
TOTAL XYLENES	0.5	UG/L	< 0.5	< 0.5

SURROGATE:
BROMOFLUOROBENZENE (%) 106 106
SURROGATE LIMITS (80 - 120)

CHEMIST NOTES:
N/A



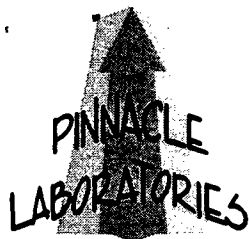
2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 006018
BLANK I. D.	: 060500	DATE EXTRACTED	: NA
CLIENT	: PHILIP ENVIRONMENTAL	DATE ANALYZED	: 06/05/00
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 (%) 108
SURROGATE LIMITS: (80 - 120)
CHEMIST NOTES:
N/A



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Albuquerque, New Mexico 87107
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GAS CHROMATOGRAPHY QUALITY CONTROL
MSMSD

TEST : EPA 8021 MODIFIED
MSMSD # : 006015-01
CLIENT : PHILIP ENVIRONMENTAL
PROJECT # : 62800107
PROJECT NAME : EPFS QUARTERLY SAMPLING

PINNACLE I.D. : 006018
DATE EXTRACTED : NA
DATE ANALYZED : 06/05/00
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	18.6	93	19.2	96	3	(80 - 120)	20
TOLUENE	<0.5	20.0	20.2	101	20.4	102	1	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	20.9	105	21.6	108	3	(80 - 120)	20
TOTAL XYLENES	<0.5	60.0	63.8	106	64.9	108	2	(80 - 120)	20

CHEMIST NOTES:
N/A

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

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

Chain of Custody Record

4000 Monroe Road
Farmington, NM 87401

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

COC Serial No. C 2566

[illegible]

Relinquished by:

Received By:

Signature	Date	Time	Signature	Date	Time
<i>James Ziegler</i>	6/2/00	0800			

Samples Iced: ☒ Yes ☐ No		Carrier: <u>GREYHOUND LINES</u>	Airbill No. <u>GLI1606918610</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) _____ ☐ Other (Specify) _____		Shipping and Lab Notes:	