

3R - 231

REPORTS

DATE:

1998



Certified Mail: #Z 211 324 121

March 31, 1999

Mr. William C. Olson
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87504

RECEIVED

APR 05 1999

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

RE: 1998 Pit Project Annual Groundwater Report

Dear Mr. Olson:

In accordance with reporting requirements, El Paso Field Services (EPFS) has enclosed annual updates for the 49 remaining groundwater impacted locations that were identified during our pit closure project of 1994 / 1995.

Of the 49 reports, EPFS hereby requests closure of 18 of these locations. The 18 sites EPFS is requesting closure on are presented in 4 separate binders entitled "Final Closure Report for Groundwater Sites with Four Consecutive Quarters Below Standards".

The Jaquez Com. C #1 and Jaquez Com. E #1 site is included in a separate report which is entitled "Jaquez Com. C #1 and Jaquez Com. E #1 Annual Report for Soil and Groundwater Remediation".

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'.

Scott T. Pope P.G.
Senior Environmental Scientist

xc: Mr. Denny Foust, NMOCD, Aztec - w / enclosures; **Certified Mail # Z 211 324 122**
Mr. Bill Liesse, BLM - w / enclosures; **Certified Mail # Z 211 324 123**
Ms. Charmaine Tso, Navajo EPA - w / enclosures; **Certified Mail # Z 211 324 120**

EPFS GROUNDWATER PITS 1998 ANNUAL GROUNDWATER REPORT

RAMENTA ET AL #1
Meter/Line ID - 75155

RECEIVED

APR 05 1999

SITE DETAILS

Legals - Twn: 27N Rng: 9W
NMOCD Hazard Ranking: 30
Operator: BURLINGTON RESOURCES

Sec: 13 Unit: J
Land Type: NAVAJO

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

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

1998 ACTIVITIES

Quarterly Groundwater Monitoring- Quarterly groundwater monitoring continued through 1998. Groundwater analytical data are presented in Table 1. A site map is presented as Figure 1.

Proposed Site Closure- During March, EPFS proposed closure of the site to the EPA. The EPA rejected the proposed closure of the site and requested additional monitoring.

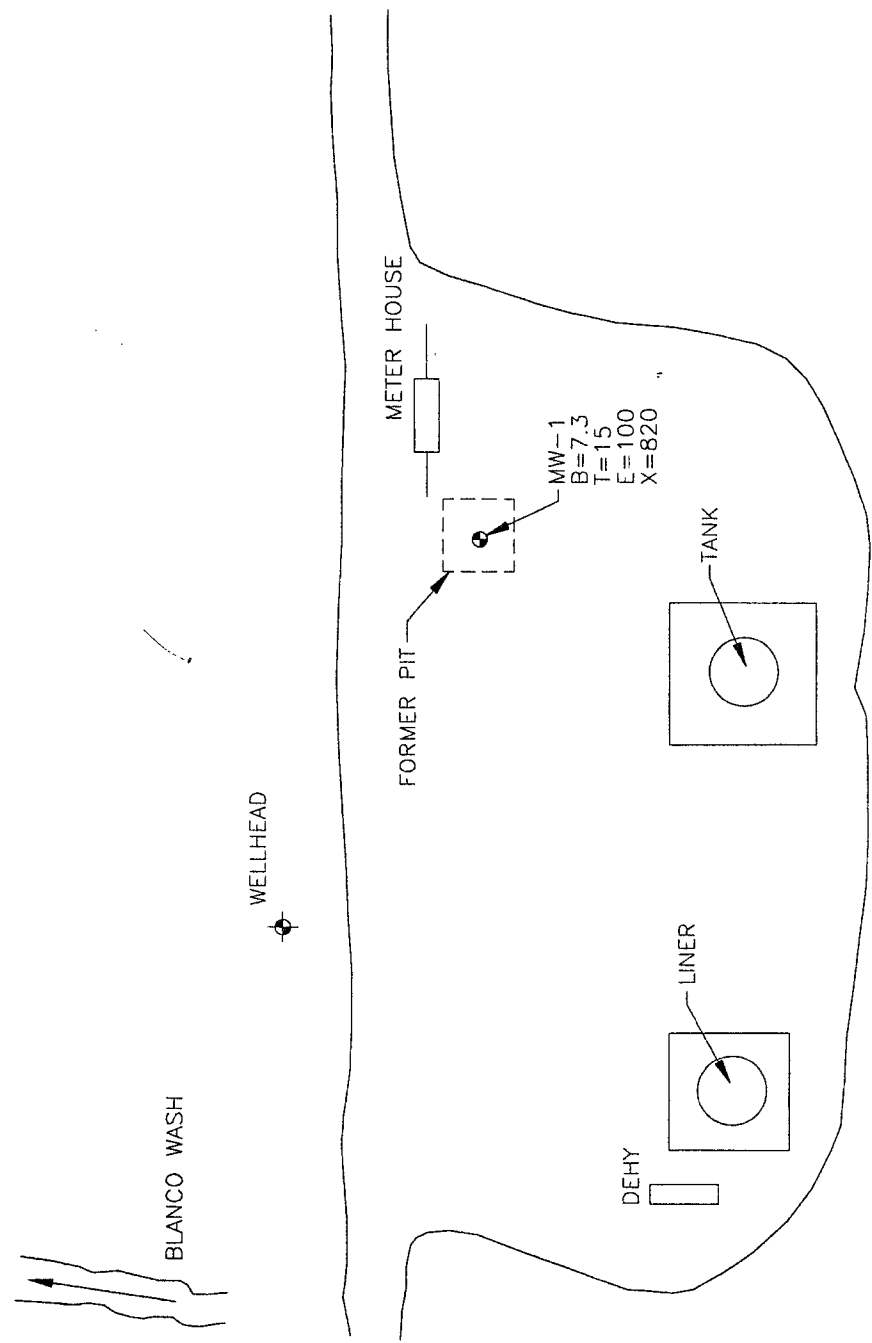
CONCLUSIONS

Analytical results of groundwater samples collected from MW-1 show levels of total xylenes above New Mexico Groundwater Standards during all four 1998 monitoring events.

Pertinent data from the 1997 groundwater report includes the following: Based on groundwater levels collected from Geoprobe data, the groundwater flow trends to the northwest on this site. Benzene concentrations have dropped below standards since quarterly sampling was initiated. One groundwater sample collected from PH-2 down-gradient of MW-1 was in excess of standards for benzene only at 388 ppb.

RECOMMENDATIONS

- Quarterly sampling will continue at MW-1 until analytical results show hydrocarbon constituents are below New Mexico Groundwater Standards for four consecutive quarters.
- After four consecutive quarters below New Mexico Groundwater Standards are collected from MW-1, two temporary wells will be placed at down-gradient locations to collect at least one groundwater sample to show that contamination has not migrated (as per EPA request).
- Following OCD approval for closure, MW-1 will be abandoned using OCD approved abandonment procedures.



LEGEND

● MW-1 APPROXIMATE MONITORING WELL LOCATION AND NUMBER

B BENZENE (ug\L)
T TOLUENE (ug\L)
E ETHYL BENZENE (ug\L)
X XYLENE (ug\L)

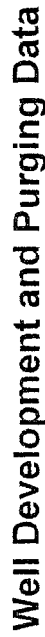
ug\L MICROGRAMS PER LITER

EPFS Groundwater Pits
1998 Annual Groundwater Report

TABLE 1

Sample #	Meter/ Line #	Site Name	Sample Date	MW #	Project	Benzene (PPB)	Toluene (PPB)	Ethyl Benzene (PPB)	Total Xylenes (PPB)	Total BTEX
980257	75155	Ramenta ET AL #1	03/26/98	1	Sample 4 - 4th Quarter	< 1.0	= 13.80	= 247	= 1920	= 2181
980424	75155	Ramenta ET AL #1	06/02/98	1	Sample 4 - 5th Quarter	< 1.0	= 13.00	= 197	= 1920	= 2130
980631	75155	Ramenta ET AL #1	09/10/98	1	Sample 4 - 6th Quarter	< 1.0	= 1.48	= 154	= 1350	= 1505
980867	75155	Ramenta ET AL #1	12/15/98	1	Sample 4 - 7th Quarter	= 7.3	= 15.00	= 100	= 820	= 942

**1998 GROUNDWATER
ANALYTICAL**



Well Number MW-1
Meter Code 75155

☒	3 to 5 Casing Volumes of Water Removal
☐	Stabilization of Indicator Parameters
☐	Other

Initial Depth of Well (feet) 20.20
Initial Depth to Water (feet) 8.23
Height of Water Column in Well (feet) 11.97

☐	Pump		Bailer
☐	Centrifugal	☒	Bottom Valve
☐	Submersible	☐	Double Check Valve
☐	Peristaltic	☐	Stainless-steel Kemmerer

☒	pH Meter
☐	DO Monitor
☒	Conductivity Meter
☒	Temperature Meter
☒	Other <u>D.O.C</u>

KUTZ SEP 9 1970

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		7.9	23.7
Gravel Pack			
Drilling Fluids			
Total			

[illegible]

Developer's Signature *Dennis Bird*

Date 3-28-98

Mr. Ford

Date 8/3/98



EPA PASO FIELD SERVICES

FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980257
MTR CODE SITE NAME:	75155	Ramenta et al #1
SAMPLE DATE TIME (Hrs):	3/26/98	1210
PROJECT:	Sample 4 4th Quarter	
DATE OF BTEX EXT. ANAL.:	3/28/98	3/28/98
TYPE DESCRIPTION:	MW-1	Water

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	<1	PPB				
TOLUENE	13.8	PPB				
ETHYL BENZENE	247	PPB	10	D		
TOTAL XYLENES	1920	PPB				
TOTAL BTEX	2181	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 99.8 % for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

The "D" qualifier indicates that the analyte calculated is based on a secondary dilution factor.

Narrative:

Approved By:

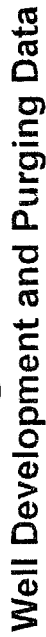
Date:

4/3/98

980257BTEXMW,3/31/98

CHAIN OF CUSTODY RECORD

Project No.		Project Name		MC# 75155		Samplers: (Signature)		Date: 3-26-98		Sample Number		Type and No. of Sample Containers		Preservation Technique		Requested Analysis		Remarks	
Date	Time	Comp.	GRAB	Date	Time	Comp.	GRAB	Date	Time	Comp.	GRAB	Date	Time	Comp.	GRAB	Date	Time	Comp.	GRAB
3-26-98	1310		X																
Relinquished by: (Signature) Relinquished by: (Signature) Relinquished by: (Signature) Received by: (Signature) Received by: (Signature) Received for Laboratory by: (Signature) Date/Time Date/Time Date/Time Relinquished by: (Signature) Relinquished by: (Signature) Relinquished by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature) Date/Time Date/Time Date/Time																			



Well Development and Purging Data

Well Number MW-1
Meter Code 75155

☒ 3 to 5 Casing Volumes of Water Removal
☐ Stabilization of Indicator Parameters
☐ Other

Initial Depth of Well (feet) 20.20
Initial Depth to Water (feet) 8.46
Height of Water Column in Well (feet) 11.74

☒	pH Meter
☐	DO Monitor
☒	Conductivity Meter
☒	Temperature Meter
☒	Other <u>D.O. C</u>

☐	Pump	☒	Bailer
☐	Centrifugal	☐	Bottom Valve
☐	Submersible	☐	Double Check Valve
☐	Peristaltic	☐	Stainless-steel Kemmerer
☐	Other		

KUTZ SEPARATOR

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		7.8	23.3
Gravel Pack			
Drilling Fluids			
Total			

[illegible]

Developer's Signature: Tennis Bird

Date 6-2-98 Reviewer John Fuchs

Date 6/10/98



EPA PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980424
MTR CODE SITE NAME:	75155	Ramenta et al #1
SAMPLE DATE TIME (Hrs):	6/2/98	1017
PROJECT:	Sample 4 5th Quarter	
DATE OF BTEX EXT. ANAL.:	6/5/98	6/5/98
TYPE DESCRIPTION:	MW-1	Water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	< 1	PPB				
TOLUENE	13.0	PPB				
ETHYL BENZENE	197	PPB				
TOTAL XYLENES	1920	PPB	10	D		
TOTAL BTEX	2130	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 99.1 % for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

The "D" qualifier indicates that the analyte calculated is based on a secondary dilution factor.

Narrative: _____

Approved By: _____

John Lardi

Date: _____

6/10/98

75155BTEXMW, 6/8/98

CHAIN OF CUSTODY RECORD

Project No.	Project Name		Requested Analysis		Remarks	
Samplers: (Signature)	Date	Time	Comp.	GRAB	Sample Number	
<i>Dennis Bird</i>	6-2-98	1017		X	730424	
<i>Dennis Bird</i>	6-2-98			X		
Relinquished by: (Signature) <i>Dennis Bird</i> Received by: (Signature) <i>M. S. Hopper</i>						
Relinquished by: (Signature) <i>Dennis Bird</i> Received by: (Signature) <i>M. S. Hopper</i>						
Relinquished by: (Signature) <i>Dennis Bird</i> Received by: (Signature) <i>M. S. Hopper</i>						

Well Development and Purging Data

Site Name RAMENTA ET AL #1

Well Number MW-1
Meter Code 75155

☐ Development
☒ Purging

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal
☐ Stabilization of Indicator Parameters
☐ Other _____

Methods of Development

- Pump**
☐ Centrifugal
☐ Submersible
☐ Peristaltic
- Bailer**
☒ Bottom Valve
☐ Double Check Valve
☐ Stainless-steel Kemmerer
- ☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 22.20
Initial Depth to Water (feet) 8.89
Height of Water Column in Well (feet) 11.31

Diameter (inches): Well 4 Gravel Pack _____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		<u>7.5</u>	<u>22.4</u>
Gravel Pack			
Drilling Fluids			
Total			

Instruments

- ☒ pH Meter
☐ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☒ Other D.O. CHEMETS KIT

Water Disposal

KUTZ SEPARATOR

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
9-10-98	1023						5.0	5.0			21.1	6.21	1018		
9-10-98	1029						5.0	10.0			19.5	6.26	1099		
9-10-98	1035						5.0	15.0			18.7	6.45	1114		
9-10-98	1043						5.0	20.0			18.7	6.91	1151		
9-10-98	1049						5.0	25.0			18.7	6.43	1135		
9-10-98	1055						5.0	30.0			18.7	6.91	1152	1.5	

Comments THE WATER HAD A LIGHT HYDROGEN SULFIDE SMELL.

Developer's Signature JP Dennis Bird

Date 9-10-98

Reviewer John J. J...

Date 9/17/98



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980631
MTR CODE SITE NAME:	75155	Ramenta et al #1
SAMPLE DATE TIME (Hrs):	9/10/98	1105
PROJECT:	Sample 4 6th Quarter	
DATE OF BTEX EXT. ANAL.:	9/14/98	9/14/98
TYPE DESCRIPTION:	MW-1	Water

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	< 1	PPB	2	D		
TOLUENE	1.48	PPB	2	D		
ETHYL BENZENE	154	PPB	2	D		
TOTAL XYLENES	1350	PPB	10	D		
TOTAL BTEX	1505	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 107.1 % for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

The "D" qualifier indicates that the analyte calculated is based on a secondary dilution factor.

Narrative:

Approved By:

John L. Ladd

Date:

9/17/98

980631BTEXMonitorWell, 9/17/98

CHAIN OF CUSTODY RECORD

[illegible]

☐	Development
☒	Purging

Well Number MW-1

Meter Code 75155

Site Name *PAMENTA ET AL #1*

Development Criteria

- | | |
|-------------------------------------|--|
| ☒ | 3 to 5 Casing Volumes of Water Removal |
| ☐ | Stabilization of Indicator Parameters |
| ☐ | Other |

Water Volume Calculation

Initial Depth of Well (feet) 20.20
Initial Depth to Water (feet) 8.22
Height of Water Column in Well (feet) 11.98

Diameter (inches): Well 4 Gravel Pack

Methods of Development

- | | | | |
|--------------------------|-------------|-------------------------------------|--------------------------|
| ☐ | Pump | ☐ | Bailer |
| ☐ | Centrifugal | ☒ | Bottom Valve |
| ☐ | Submersible | ☐ | Double Check Valve |
| ☐ | Peristaltic | ☐ | Stainless-steel Kemmerer |

Instruments

- | | |
|-------------------------------------|----------------------|
| ☒ | pH Meter |
| ☐ | DO Monitor |
| ☒ | Conductivity Meter |
| ☒ | Temperature Meter |
| ☒ | Other <i>D.O. CH</i> |

Water Disposal

KUTZ SEPARATOR

Water Removal Data

[illegible]

THE WATER HAD A LIGHT HYDROGEN SULFIDE SMELL.

Comments _____

Developer's Signature Lennie Bird

Date 12-15-98 Reviewer

John Bull:

Date 1-11-99



EPA PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980867
MTR CODE SITE NAME:	75155	Ramenta ET AL #1
SAMPLE DATE TIME (Hrs):	12/15/98	1115
PROJECT:	Sample 4 7th Quarter	
DATE OF BTEX EXT. ANAL.:	NA	12/29/98
TYPE DESCRIPTION:	MW-1	Water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	7.3	PPB	10			
TOLUENE	15	PPB	10			
ETHYL BENZENE	100	PPB	10			
TOTAL XYLENES	820	PPB	10			
TOTAL BTEX	942	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 100 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative:

Sample Analyzed by Pinnical Laboratories.

Approved By: _____

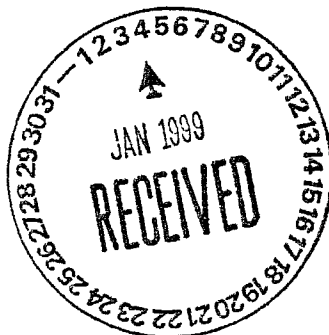
John Saldi

Date: _____

1-12-99

980867BTEXMW,1/11/99

PINNACLE
LABORATORIES



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

Pinnacle Lab ID number 812083
December 30, 1998

980867 to 980869
980872 to 980874
+ 2 Trip Blanks

EL PASO FIELD SERVICES
770 WEST NAVAJO
FARMINGTON, NM 87401

Project Name QTRLY MONITOR WELL
Project Number (none)

Attention: JOHN LAMBDIN

On 12/22/98 Pinnacle Laboratories, Inc. Inc., (ADHS License No. AZ0592), 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

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: mt

Enclosure

Reviewed & Approved
J. Sanchez
1-6-99



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

CLIENT : EL PASO FIELD SERVICES PINNACLE ID : 812083
PROJECT # : (none) DATE RECEIVED : 12/22/98
PROJECT NAME : QTRLY MONITOR WELL REPORT DATE : 12/30/98

EN			DATE
O. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
1	980867	AQUEOUS	12/15/98
2	980868	AQUEOUS	12/15/98
3	980869	AQUEOUS	12/15/98
4	980872	AQUEOUS	12/15/98
5	980873	AQUEOUS	12/17/98
6	980874	AQUEOUS	12/17/98
7	TRIP BLANK	AQUEOUS	12/15/98
8	TRIP BLANK	AQUEOUS	12/17/98



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

GAS CHROMATOGRAPHY RESULTS

EST : EPA 8021 MODIFIED
CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : QTRLY MONITOR WELL

PINNACLE I.D.: 812083

AMPLE			DATE	DATE	DATE	DIL.
S. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
1	980867	AQUEOUS	12/15/98	NA	12/29/98	10
2	980868	AQUEOUS	12/15/98	NA	12/28/98	1
3	980869	AQUEOUS	12/15/98	NA	12/28/98	25

PARAMETER	DET. LIMIT	UNITS	980867	980868	980869
BENZENE	0.5	UG/L	7.3	9.8	710
TOLUENE	0.5	UG/L	15	79	1300
ETHYLBENZENE	0.5	UG/L	100	61	160
OXYLENES	0.5	UG/L	820	460	940

SURROGATE:					
BROMOFLUOROBENZENE (%)			100	112	117
SURROGATE LIMITS	(80 - 120)				

CHEMIST NOTES:
N/A

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED
CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : QTRLY MONITOR WELL

PINNACLE I.D.: 812083

SAMPLER NAME: TREVINO MONITOR WELL						
SAMPLE	DATE	DATE	DATE	DIL.		
D. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
04	980872	AQUEOUS	12/15/98	NA	12/28/98	1
05	980873	AQUEOUS	12/17/98	NA	12/29/98	1
06	980874	AQUEOUS	12/17/98	NA	12/29/98	1
PARAMETER	DET. LIMIT	UNITS	980872	980873	980874	
BENZENE	0.5	UG/L	100	89	330	
TOLUENE	0.5	UG/L	29	25	1.6	
E BENZENE	0.5	UG/L	1.1	0.9	30	
TOTAL XYLENES	0.5	UG/L	5.8	4.9	150	
SURROGATE:						
BROMOFLUOROBENZENE (%)			104	104	114	
SURROGATE LIMITS			(80 - 120)			

CHEMIST NOTES:
N/A

GAS CHROMATOGRAPHY RESULTS

EST : EPA 8021 MODIFIED
 CLIENT : EL PASO FIELD SERVICES
 PROJECT # : (none)
 PROJECT NAME : QTRLY MONITOR WELL

PINNACLE I.D.: 812083

SAMPLE			DATE	DATE	DATE	DIL.
D: #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
17	TRIP BLANK	AQUEOUS	12/15/98	NA	12/29/98	1
18	TRIP BLANK	AQUEOUS	12/17/98	NA	12/29/98	1

PARAMETER	DET. LIMIT	UNITS	TRIP BLANK	TRIP BLANK
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
T XYLENES	0.5	UG/L	< 0.5	< 0.5

SURROGATE:

BROMOFLUOROBENZENE (%)

110

107

SURROGATE LIMITS (80 - 120)

CHEMIST NOTES:

N/A



709-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.	: 812083
BLANK I. D.	: 122898	DATE EXTRACTED	: NA
CLIENT	: EL PASO FIELD SERVICES	DATE ANALYZED	: 12/28/98
PROJECT #	: (none)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: QTRLY MONITOR WELL		

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

SURROGATE:

MONOFLUOROBENZENE (%) 113

SURROGATE LIMITS: (80 - 120)

CHEMIST NOTES:

N/A



709-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.	: 812083
BLANK I. D.	: 122998	DATE EXTRACTED	: NA
CLIENT	: EL PASO FIELD SERVICES	DATE ANALYZED	: 12/29/98
PROJECT #	: (none)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: QTRLY MONITOR WELL		

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

SURROGATE:

1,2,4-TRIMETHYLBENZENE (%)

111

SURROGATE LIMITS: (80 - 120)

CHEMIST NOTES:

N/A

**GAS CHROMATOGRAPHY QUALITY CONTROL
MSMSD**

EST : EPA 8021 MODIFIED
MSMSD # : 122998
CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : QTRLY MONITOR WELL

PINNACLE I.D. : 812083
DATE EXTRACTED : NA
DATE ANALYZED : 12/29/98
SAMPLE MATRIX : AQUEOUS
UNITS : UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SRIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	10.0	9.3	93	9.5	95	2	(80 - 120)	20
TOLUENE	<0.5	10.0	10.4	104	10.5	105	1	(80 - 120)	20
ETHYLBENZENE	<0.5	10.0	10.3	103	10.5	105	2	(80 - 120)	20
TOTAL XYLENES	<0.5	30.0	30.5	102	31.1	104	2	(80 - 120)	20

CHEMIST NOTES:
N/A

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

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

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: John Lambdin
 COMPANY: EL PASO Field Services
 ADDRESS: 770 W. WABAJO
 PHONE: FARMINGTON, NM 87401
 (505) 544-2144
 FAX: (505) 544-2261
 BILL TO: (Same as Above)
 COMPANY:
 ADDRESS:

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
980867	12-15-98	1115	Water	01
980868	12-15-98	1252	Water	02
980869	12-15-98	1545	Water	03
980872	12-17-98	1121	Water	04
980873	12-17-98	1121	Water	05
980874	12-17-98	1443	Water	06
TRIP BLANK	12-15-98	NA	Water	07
TRIP BLANK	12-17-98	NA	Water	08

ANALYSIS REQUEST										NUMBER OF CONTAINERS
8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides /PCB (608/8081)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Poly-nuclear Aromatics (610/8310)	General Chemistry:	Priority Pollutant Metals (13)	
									Target Analyte List Metals (23)	
									RCRA Metals (8)	
									RCRA Metals by TCLP (Method 1311)	
									Metals:	

PROJECT INFORMATION		PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS		RELINQUISHED BY:	
PROJ NO: NA		(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK ☒ (NORMAL)		Signature: John Lambdin	Time: 1330
PROJ NAME: Gtely Monitor (Wt)		CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER		Printed Name: John Lambdin	Date: 12/14/98
PO NO: NA		METHANOL PRESERVATION ☐		Company: El Paso Field Services	
SHIPPED VIA: Fed-X		COMMENTS: FIXED FEE ☐			
SAMPLE RECEIPT		RECEIVED BY:		RECEIVED BY: (LAB)	
NO. CONTAINERS		Signature: [Signature]	Time: 1025	Signature: [Signature]	Time: 1025
CUSTODY SEALS	Y/N/NA	Printed Name: [Name]	Date: 12/22/98	Printed Name: [Name]	Date: 12/22/98
RECEIVED INTACT		Company: American Environmental Network (NM), Inc.		Company: American Environmental Network (NM), Inc.	
BLUE ICE/ICE					

CHAIN OF CUSTODY RECORD

[illegible]