

3R - 179

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**

SAN JUAN BASIN PIT CLOSURES
San Juan Basin, New Mexico

El Paso Field Services
Final Closure Report For Groundwater Sites With Four
Consecutive Quarters Below Standards

December 1998

Prepared For

El Paso Field Services
Farmington, New Mexico

Project 17520
Book 1



EPFS GROUNDWATER MONITORING 1998 ANNUAL GROUNDWATER REPORT

GALLEGOS CANYON UNIT COM A #142E Meter/Line ID - 03906

SITE DETAILS

Legals - Twn: 29N Rng: 12W Sec: 25 Unit: G
NMOCD Hazard Ranking: 10 Land Type: FEE
Operator: AMOCO PRODUCTION COMPANY

PREVIOUS ACTIVITIES

Site Assessment: Apr-94 Excavation: Apr-94 (20 cy) Soil Boring: Oct-95
Re-Excavation: Oct-96 (882 cy) Monitor Well: Feb-97 Quarterly Sampling Initiated: Aug-97

1998 ACTIVITIES

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

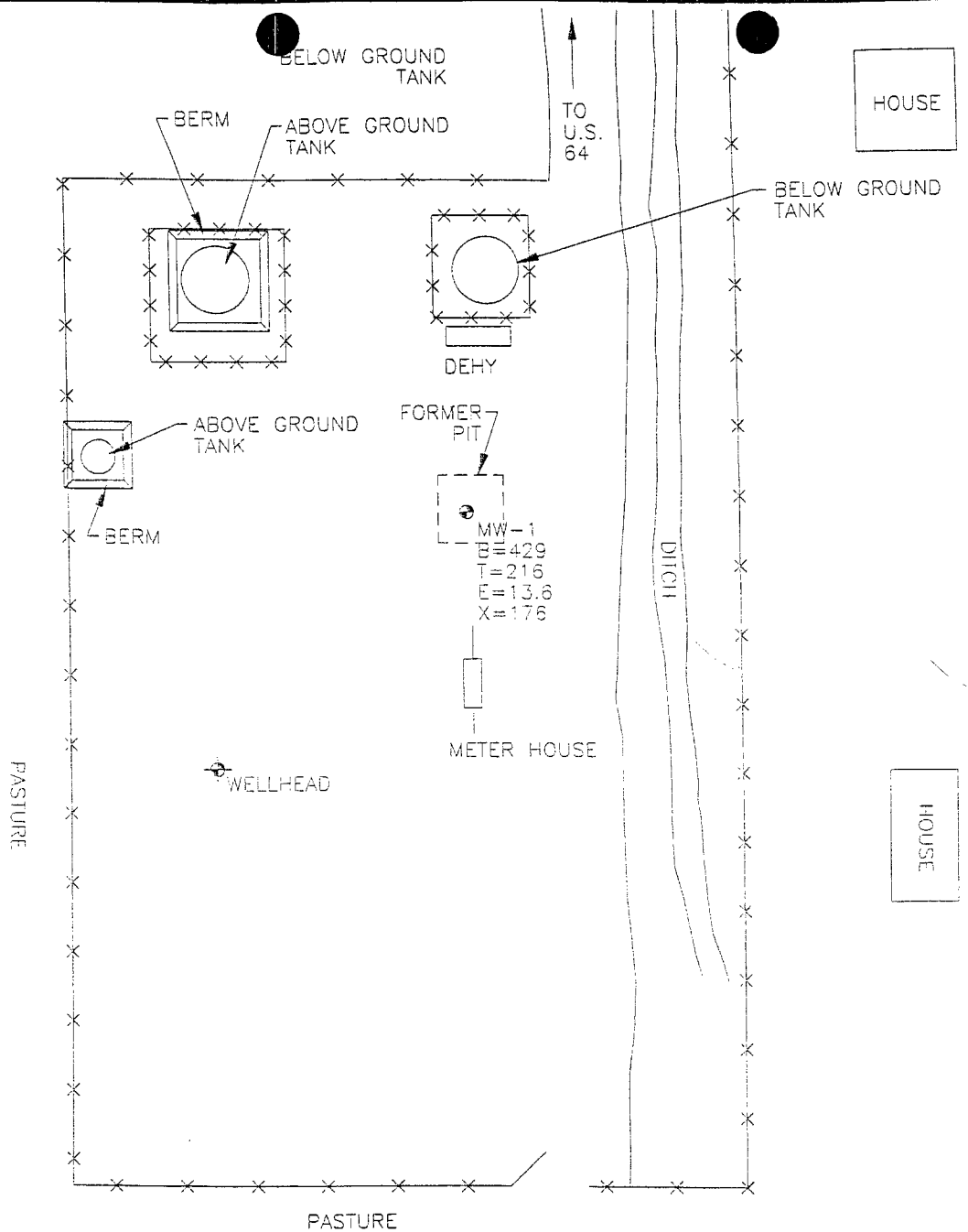
CONCLUSIONS

Analytical results of groundwater samples from MW-1 show levels of benzene above New Mexico Groundwater Standards.

Pertinent data from the 1997 groundwater report include the following: Groundwater measurements taken from temporary Geoprobe holes indicate that production pits are up-gradient of the EPFS MW-1. Up-gradient Geoprobe hole shows levels of benzene, toluene, and total xylenes in the groundwater above New Mexico Groundwater Standards. Levels of hydrocarbon constituents in groundwater from up-gradient Geoprobe holes are two orders of magnitude greater than hydrocarbon levels from MW-1. The production pits may be the source of most of the hydrocarbon constituents in the groundwater at this site.

RECOMMENDATIONS

- EPFS proposes to conduct annual sampling at the site.
- EPFS will contact operator and provide pertinent site data regarding EPFS activities at the site.



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



TITLE:

GALLEGOS CANYON UNIT A142E
 METER 03906
 MAY 6, 1998

DWN:

TMM

DES.:

CI

PROJECT NO.:

17520

EPFS GW PITS

CHKD:

CI

APPD:

DATE:

2/26/99

REV.:

0

FIGURE 1



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 Nylenes (PPB)	Total BTEX
980160	03906	GCU Com A #142E	02/13/98	1	Sample 4 - 3rd Quarter	= 343	= 354	= 27.6	= 394	= 1118
980350	03906	GCU Com A #142E	05/06/98	1	Sample 4 - 4th Quarter	= 429	= 216	= 13.6	= 176	= 835

**1998 GROUNDWATER
ANALYTICAL**

☐ Development
☒ Purging

Well Number MW-1
Meter Code 03906

Water Volume Calculation

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

Water Volume Calculation

Initial Depth of Well (feet) 2.77

Initial Depth to Water (feet) 13.78

Height of Water Column in Well (feet) 3.54

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

Gravel Pack

Initial Depth of Well (feet)	21.77
Initial Depth to Water (feet)	13.78
Height of Water Column in Well (feet)	7.54

Gravel Pack

Instruments

- | | |
|-------------------------------------|--------------------|
| ☒ | pH Meter |
| ☐ | DO Monitor |
| ☒ | Conductivity Meter |
| ☒ | Temperature Meter |
| ☒ | Other <u>DO-C</u> |

Water Disposal

K072 SEPRA70R

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		7.3	7.0
Gravel Pack			
Drilling Fluids			
Total			

Other

Water Removal Data

[illegible]

Comments THE WATER HAD A LIGHT HYDROCARBON SMELL.

Developer's Signature *Dennis Bird*

2-13-98

Reviewer

John F. Abdo.

Date 3/2/98



EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:

Field ID

Lab ID

N/A

980160

MTR CODE | SITE NAME:

03906

GCU Com A #142E

SAMPLE DATE | TIME (Hrs):

2/13/98

1008

PROJECT:

Sample 4 3rd Quarter

DATE OF BTEX EXT. | ANAL.:

2/19/98

2/19/98

TYPE | DESCRIPTION:

MW-1

Water

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	343	PPB	2	D		
TOLUENE	354	PPB	2	D		
ETHYL BENZENE	27.6	PPB	2	D		
TOTAL XYLENES	394	PPB	2	D		
TOTAL BTEX	1118	PPB				

--BTEX is by EPA Method 8020 --

Surrogate Recovery was at 78.4 % for this sample All QA/QC was acceptable.

= Dilution Factor Used

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

ative:

roved By:

John Latch

Date:

3/2/98

980160BTEXMW, 2/19/98

CHAIN OF STUDY RECORD

[illegible]

☐	Development
☒	Purging

Well Number 17W-1
Meter Code 03906

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

Initial Depth of Well (feet)	31.73
Initial Depth to Water (feet)	18.69
Height of Water Column in Well (feet)	3.03

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

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

Water Disposal

KUTZ SEPARATOR

[illegible]

Comments THE WATER HAD A LIGHT HYDROCARBON SMELL.

Developer's Signature *Dennis Bied*

Date: 5-6-99 Reviewer:

Wm. T. Fisher

Date 5/11/48



EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980350
MTR CODE SITE NAME:	03906	GCU Com A #142E
SAMPLE DATE TIME (Hrs):	5/6/98	0942
PROJECT:	Sample 4 4th Quarter	
DATE OF BTEX EXT. ANAL.:	5/7/98	5/7/98
TYPE DESCRIPTION:	MW-1	Water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	429	PPB	5	D		
TOLUENE	216	PPB	5	D		
ETHYL BENZENE	13.6	PPB				
TOTAL XYLENES	176	PPB				
TOTAL BTEX	835	PPB				

--BTEX is by EPA Method 8020 --

Surrogate Recovery was at 93.7 % for this sample All QA/QC was acceptable.
= Dilution Factor Used

ative: _____

oved By: _____

John L. Luedi

980350BTEXMW, 5/8/98

Date: _____

5/11/98

A 2504

CHAIN OF CUSTODY RECORD

[illegible]