3R - 176

REPORTS

DATE:
2001

elpaso Field Services

Certified Mail: #7001 1940 0003 1553 8513

February 28, 2002

RECEIVED

MAR 0 4 2002

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

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

RE: 2001 Pit Project Annual Groundwater Report

Dear Mr. Olson:

In accordance with reporting requirements, El Paso Field Services (EPFS) has enclosed annual reports for the 30 remaining groundwater impacted sites that were identified during our pit closure project of 1994 / 1995.

EPFS has organized the 30 reports (Volumes IA, IB, II and III), reports by land type. Volume IA and IB contain annual reports for sites found on Federal land. Volume II contains Non Federal sites and Volume III contains sites on Navajo land. Of the 30 reports submitted EPFS is requesting closure of three sites located on Navajo lands. Of the three Navajo sites submitted for closure OCD has closed the Charley Pah #4 and the John Charles #8. The Rementa et al #1 has not been closed by either agency. EPFS understands closure of groundwater sites on Navajo land falls under jurisdiction of the Navajo Environmental Protection Agency and original documents have been submitted to them for review. Other Navajo sites are included in the report for your information.

The Jaquez Com. C #1 and Jaquez Com. E #1 site is not included in with this report and will be submitted by the required deadline of April 1, 2002.

If you have any questions concerning the enclosed reports, please call me at (505) 599-2124.

Sincerely,

Scott T. Pope P.G.
Senior Environmental Scientist

xc: Mr. Denny Foust, NMOCD, Aztec - w / enclosures; **Certified Mail # 7001 1940 0003 1553 8506**
Mr. Bill Liesse, BLM – w / enclosures (federal sites only), **Certified Mail # 7001 1940 0003 1553 8520**

El Paso Field Services
614 Reilly Farmington, New Mexico 87401

SAN JUAN BASIN PIT CLOSURES

San Juan Basin, New Mexico

El Paso Field Services
Pit Project Groundwater Sites
Annual Report
Volume III-Navajo Sites

March 2002

Prepared for

El Paso Field Services
Farmington, New Mexico

elpaso

MWH
MONTGOMERY WATSON HARZA

EL PASO FIELD SERVICES ANNUAL GROUNDWATER REPORT

NAVAJO SITES VOLUME III

TABLE OF CONTENTS

Site Map

METER or LINE ID	SITE NAME	TOWNSHIP	RANGE	SECTION	UNIT
95608	Gallegos Canyon Unit #124E	28N	12W	35	N
71816	Jennepah #1	28N	09W	36	H
75155	Ramenta et al #1	27N	09W	13	J
93126	John Charles #8	27N	09W	13	B
71531	Charley Pah #4	27N	09W	12	K

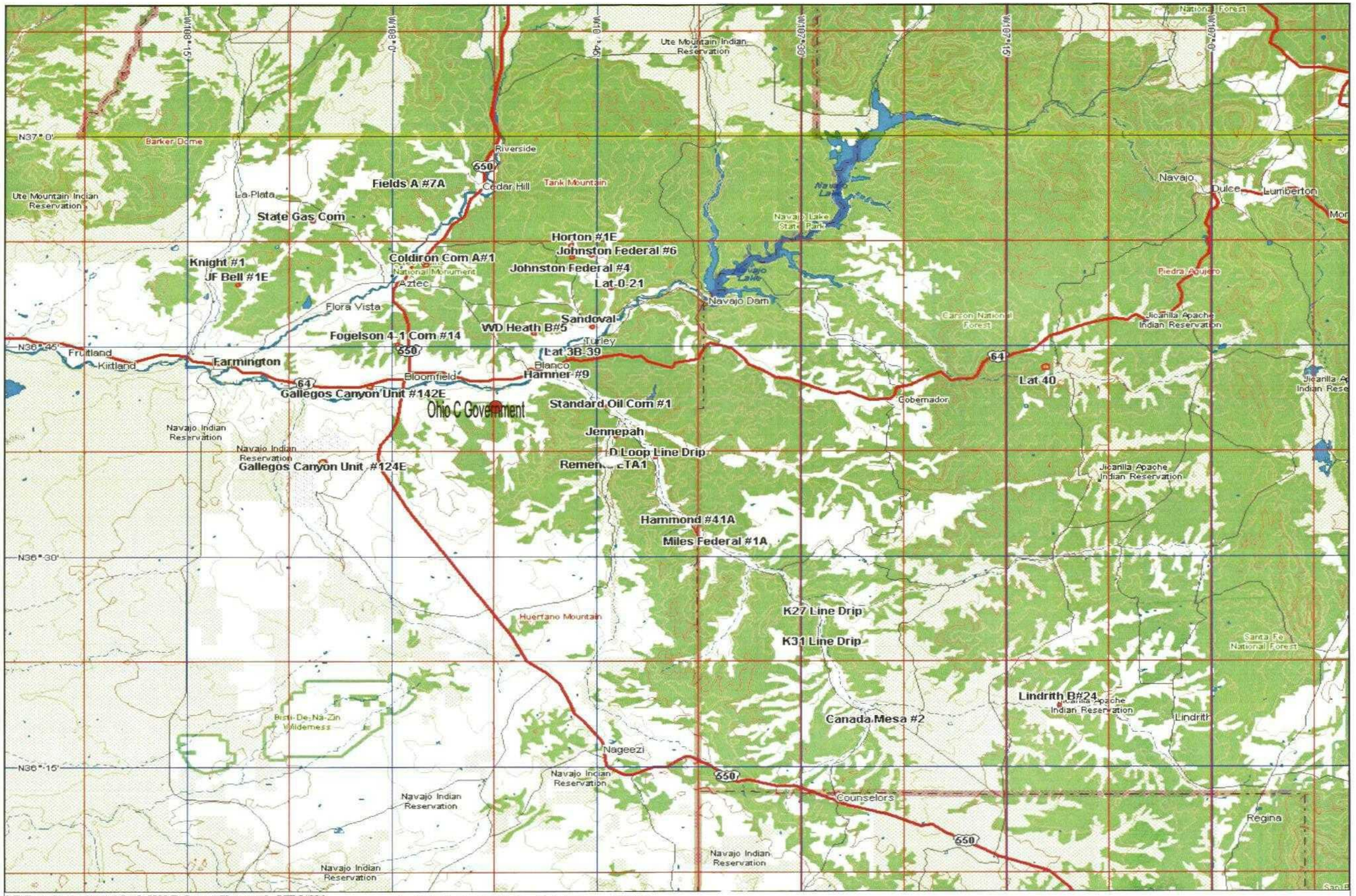
elpaso

MWH
MONTGOMERY WATSON HARZA

ACRONYMS

B	Benzene
E	Ethylbenzene
EPFS	El Paso Field Services
ft	foot/feet
GWEL	groundwater elevation
ID	identifier
MW	Monitoring Well
PSH	Phase Separated Hydrocarbons
NMWQCC	New Mexico Water Quality Control Commission
T	Toluene
TOC	Top Of Casing
NE	not establihed
NS	not sampled
ORC	oxygen release compound
OCD	Oil Conservation Division
ppb	parts per billion
µg/L	micrograms per liter
X	Total Xylenes

Groundwater Site Map



3-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 — 3 mi Scale: 1 : 600,000 Detail: 3-4 Datum: WGS84

EPFS GROUNDWATER PITS
2001 ANNUAL GROUNDWATER REPORT

GCU #124E

Meter Code: 95608

SITE DETAILS

Legals Twn: 28N Rng: 12W Sec: 35 UNIT: N

NMOCD Haz Ranking: 20 Land Type: Navajo Operator: Amoco Production Company

PREVIOUS ACTIVITIES

Site Assessment: Jan-95 Excavation: Oct-95 (196cy) Soil Boring: Mar-98 Monitor Well: Jun-98

Geoprobe: NA Additional MWs: * Downgradient MW's: NA Replace MW: NA

PSH Removal Initiated: Apr-99 ORC Nutrient Injection: NA Re-Excavation: NA

Quarterly Initiated: Jun-98 Annual Initiated NA Quarterly Resumed: NA

2001 ACTIVITY

Phase Separated Hydrocarbons (PSH) Removal - PSH removal continued through 2001 at MW-1.

* An attempt was made in November 2000 to install additional wells, the two attempts resulted in dry holes.

SUMMARY TABLES AND GRAPHS

PSH Removal presented in Product Removal Table. Copies of the Laboratory Data Sheets and the associated quality assurance/quality control data are presented as Attachment 1. Included is a BTEX Data graph for MW-1 and a Free Product Recovery graph for MW-1.

SITE MAP

Site Maps with BTEX concentrations and groundwater elevations are attached.

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

No drilling activities were performed at this site for 2001.

DISPOSITION OF GENERATED WASTES

All PSH removed disposed of at Kutz Separator, Bloomfield, NM.

EPFS GROUNDWATER PITS
2001 ANNUAL GROUNDWATER REPORT

GCU #124E

Meter Code: 95608

ISOCONCENTRATION MAPS

No isoconcentration maps were generated at this site.

CONCLUSIONS

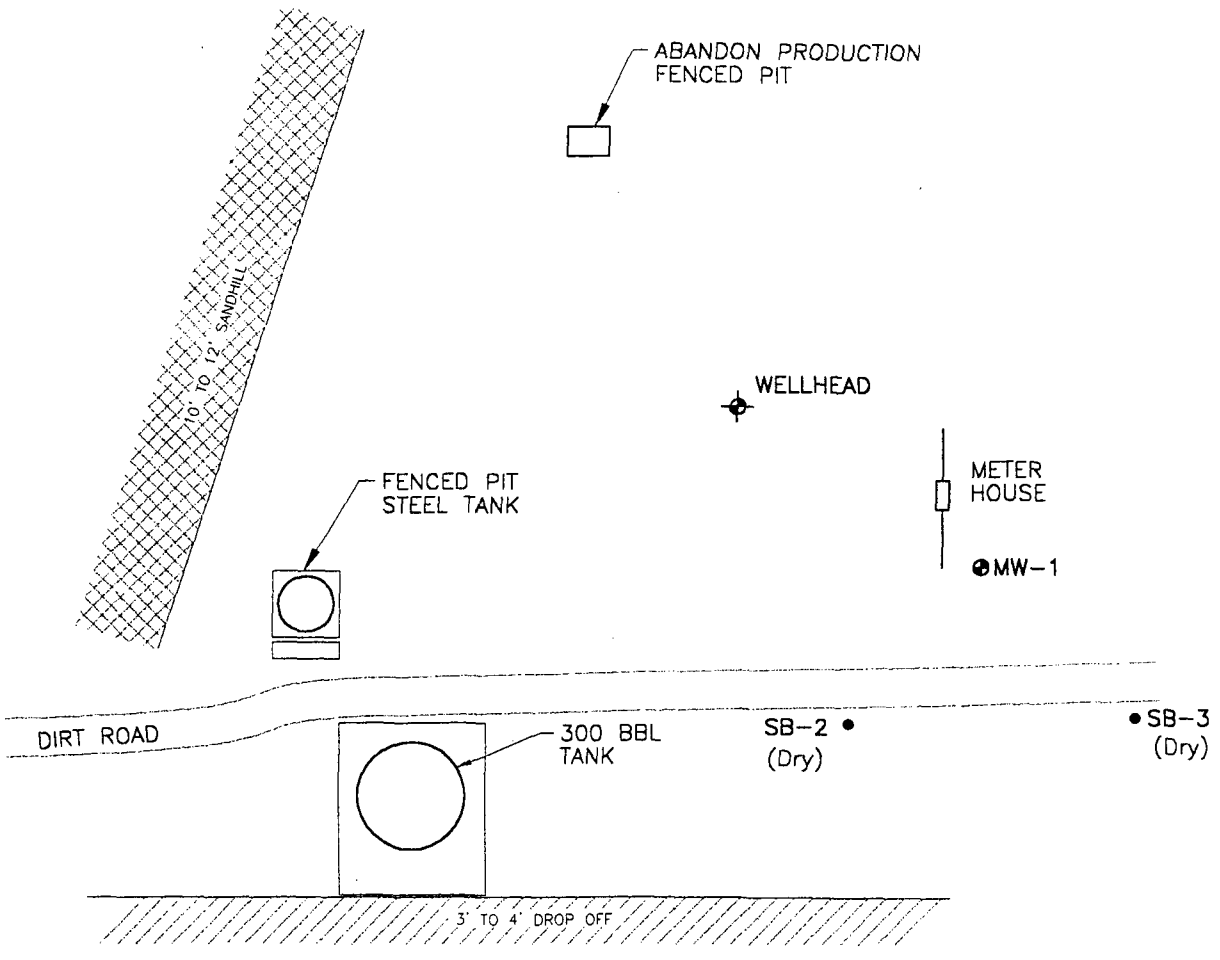
Phase separated hydrocarbons recovered from MW-1 totaled 1.06 gallons in 2001. A cumulative of 18.01 gallons have been recovered at this site since 1999.

RECOMMENDATIONS

> Product removal will continue as needed in MW-1

> Following product removal, MW-1 will be sampled annually until BTEX constituents fall below NMWQCC standards for four consecutive quarters

> Following OCD approval for closure, monitoring wells will be abandoned using OCD approved guidelines.



LEGEND

MW-1	Approximate Monitoring Well Location and Number
•	Dry 2000 Borehole

N

0 60

SCALE: 1"=60'

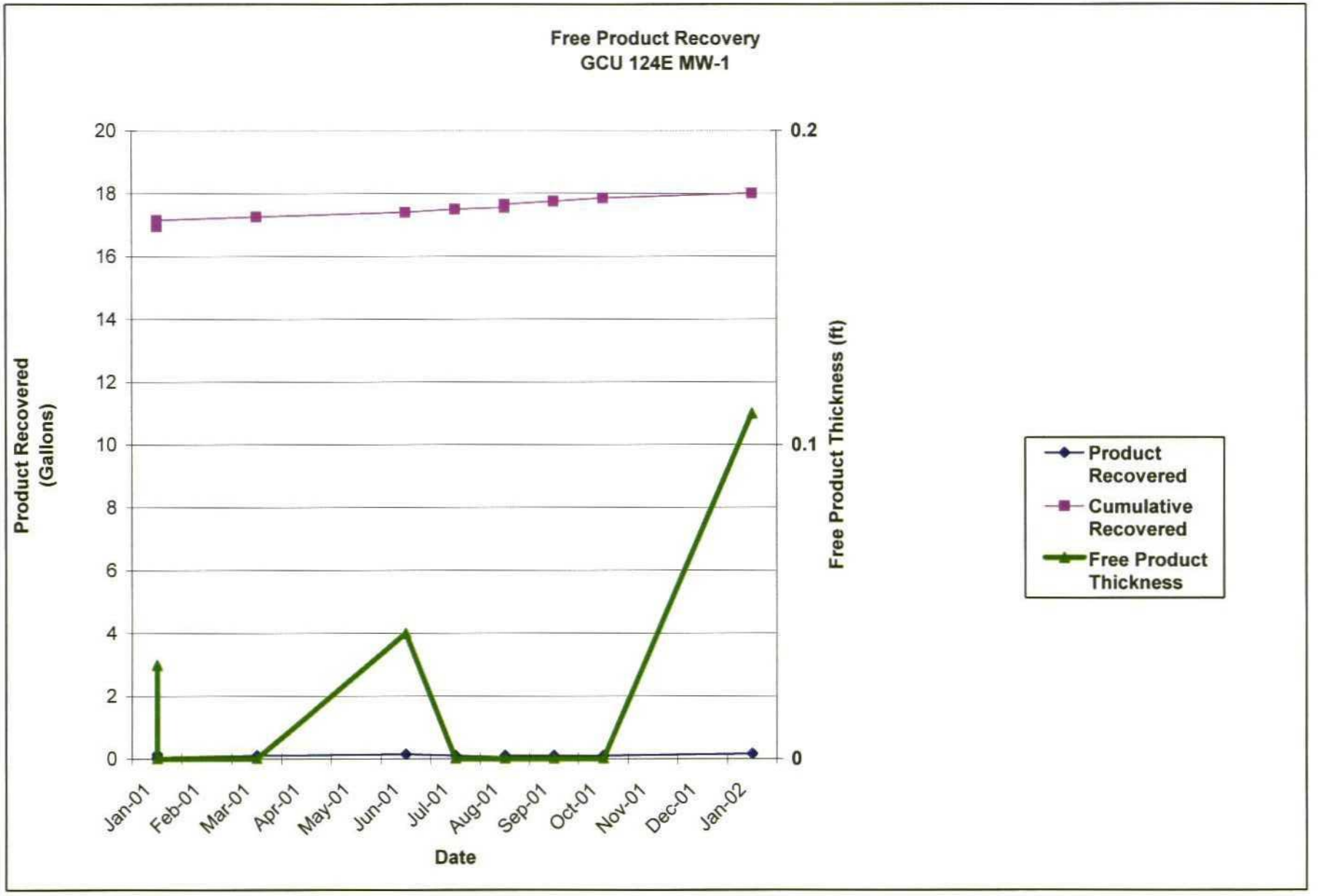
gallegos124_01.dwg

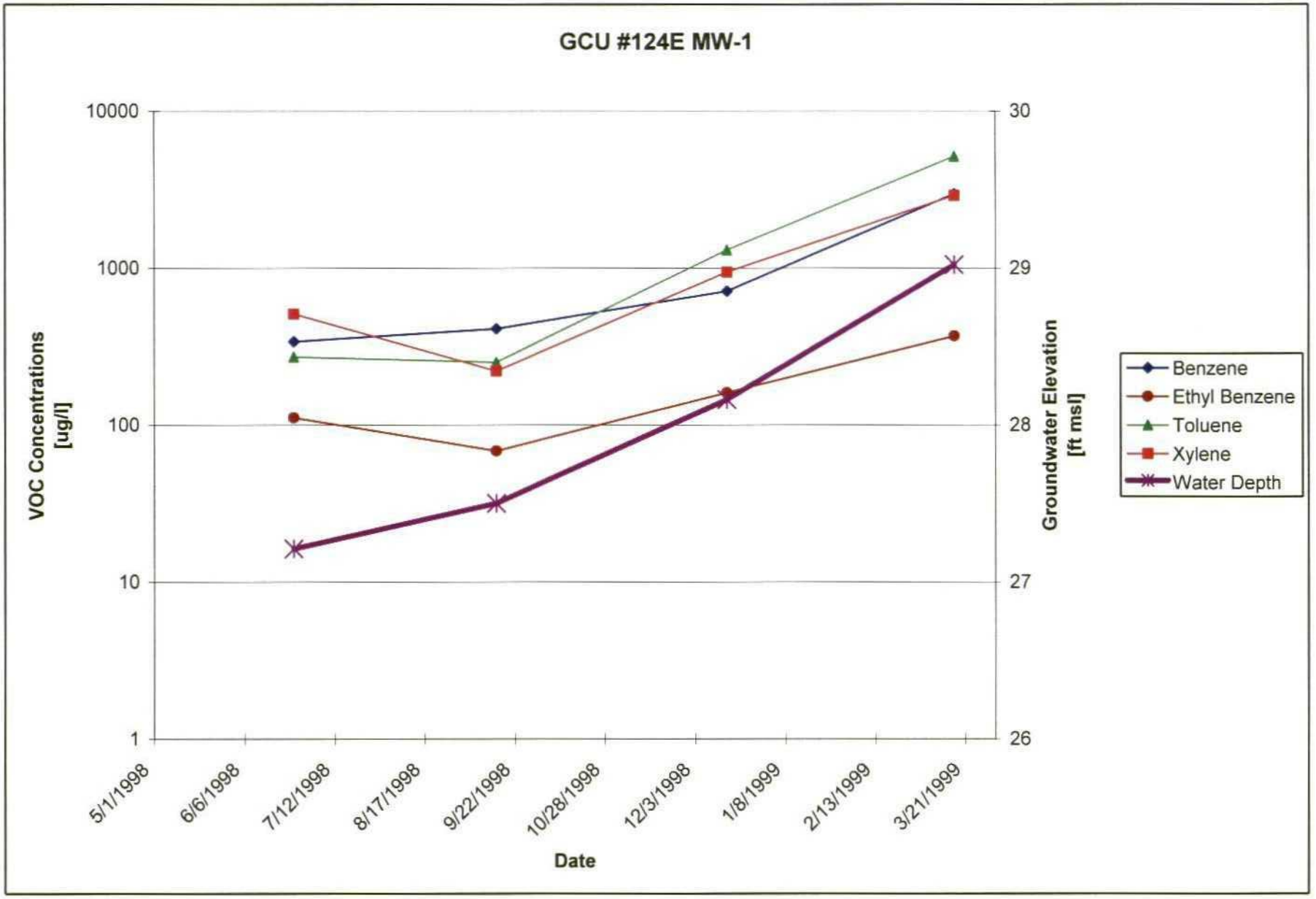
GALLEGOS CANYON UNIT 124E METER 95608	GROUNDWATER SITES EL PASO FIELD SERVICES
	FIGURE 1

Product Removal Table
GCU #124E

Meter Line	Site Name	MW#	Date	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Volume Removed (Gallons)	Cumulative Total (Gallons)
95608	GCU #124E	1	1/9/2001	29.18	29.21	0.03	0	16.95
95608	GCU #124E	1	1/15/2001	29.04	29.07	0.03	0	16.95
95608	GCU #124E	1	1/22/2001		28.99	0	0.15	17.1
95608	GCU #124E	1	1/30/2001		29.09	0	0.05	17.15
95608	GCU #124E	1	3/12/2001	0	29.26	0	0.1	17.25
95608	GCU #124E	1	6/5/2001	29.28	29.32	0.04	0.15	17.4
95608	GCU #124E	1	7/13/2001		29.65	0	0.1	17.5
95608	GCU #124E	1	8/2/2001		29.53	0	0.05	17.55
95608	GCU #124E	1	8/31/2001		29.27	0	0.1	17.65
95608	GCU #124E	1	9/21/2001		29.33	0	0.1	17.75
95608	GCU #124E	1	10/2/2001		28.98	0	0.1	17.85
95608	GCU #124E	1	1/2/2002	28.85	28.96	0.11	0.16	18.01

Skimmer installed in MW-1


Free Product Recovery
GCU 124E MW-1
Product Recovered (Gallons)
Free Product Thickness (ft)
20
18
16
14
12
10
8
6
4
2
0
0.2
0.1
0
Jan-01
Feb-01
Mar-01
Apr-01
May-01
Jun-01
Jul-01
Aug-01
Sep-01
Oct-01
Nov-01
Dec-01
Jan-02
Date
Product Recovered
Cumulative Recovered
Free Product Thickness


GCU #124E MW-1
VOC Concentrations [ug/l]
Groundwater Elevation [ft msl]
10000
1000
100
10
1
30
29
28
27
26
5/1/1998
6/6/1998
7/12/1998
8/17/1998
9/22/1998
10/28/1998
12/3/1998
1/8/1999
2/13/1999
3/21/1999
Date
Benzene
Ethyl Benzene
Toluene
Xylene
Water Depth

Product Recovery Data

WELL OBSERVATION DATA

Project Name EFS Remediation project Project No. 6169

Project Manager Lisa Wynn Cost Code

Client Company El Paso Field Services Date 10-2-01

Site Name Gallegos 124E - (95608)

Well or Piezometer	Time	Reason Not Measured	Depth to Floating Product (Feet)	Depth to Water (Feet)	Depth to Sinking Product (Feet)	Total Well Depth (Feet)	Floating Product Thickness	Sinking Product Thickness	Approximate product Recovered Comments
MW 1	1350			28.98					.10 gal

Reason Not Measured: D = Dry; O = Obstructed; N = Not Accessible

Comments NO product DETECTED on water/oil probe NO water recovered in skimmer

Signature Chris A Mey Date 10-2-01

WELL OBSERVATION DATA

Project Name: Ex-BS Remedial Dig project Project No.: 610

Project Manager: Lisa Wilson Cost Code:

Client Company: El Paso Field Services Date: 9-21-01

Site Name: Gallegos 124E (95608)

Well or Piezometer	Time	Reason Not Measured	Depth to Floating Product (Feet)	Depth to Water (Feet)	Depth to Sinking Product (Feet)	Total Well Depth (Feet)	Floating Product Thickness	Sinking Product Thickness	Comments
MW1	0920			29.37					10

Reason Not Measured: D = Dry; O = Obstructed; N = Not Accessible

Comments: MW 1 was Not Measured in Skimmer. Did NOT Detect any Product on Probe

Signature: Lisa A Wilson Date: 9-21-01

WELL OBSERVATION DATA

Project Name EPFS Remediation project Project No. 6169

Project Manager Lisa Hunn Cost Code

Client Company El paso Field Services Date 8-31-01

Site Name Gallegos 124E (95608)

Well or Piezometer	Time	Reason Not Measured	Depth to Floating Product (Feet)	Depth to Water (Feet)	Depth to Sinking Product (Feet)	Total Well Depth (Feet)	Floating Product Thickness	Sinking Product Thickness	Approximate product recovery Comments (Gallons)
MW 1	1350			29.27					10 gal.

Reason Not Measured: D = Dry; O = Obstructed; N = Not Accessible

Comments probe did not detect product in well NO water Recovered in Skimmer

Signature Chris A. Hunn Date 8-31-01

WELL OBSERVATION DATA

Project Name EPFS Remediation project Project No. 6169

Project Manager LISA minn Cost Code

Client Company El paso Field services Date 8-2-01

Site Name Gallegos #124 E (95608)

Well or Piezometer	Time	Reason Not Measured	Depth to Floating Product (Feet)	Depth to Water (Feet)	Depth to Sinking Product (Feet)	Total Well Depth (Feet)	Floating Product Thickness	Sinking Product Thickness	Approximate Product Recovery Comments Gallons
MW1	12 20			29.53					.05

Reason Not Measured: D = Dry; O = Obstructed; N = Not Accessible

Comments NO water Recovered NO product Detected on probe

Signature Chris A. Mann Date 8-2-01

WELL OBSERVATION DATA

Project Name EpFS Remediation project Project No. 6169

Project Manager Lisa Winn Cost Code

Client Contact Elpaso Field services Date 7-13-01 Friday

Site Name Gallegos #124E (95608)

Well No.	Time	Purge Time Measured	Depth to Water (Feet)	Depth to Sinking Product (Feet)	Total Well Depth (Feet)	Floating Product Thickness	Sinking Product Thickness	Product Recovered Comments Approximate Gallons
MW1	840		29.65					.10 gal

Reason Not Sampled: Y = Yes, O = Obstructed, N = Not Accessible

Y N

Comments: No water Recovered no product Detected on probe
Product recovered from skimmer.

Signature Chris J. Mc Date 7-13-01

WELL OBSERVATION DATA

Project Name EPFS product Recovery Project No. 6169

Project Manager LISA Winn Cost Code

Client Company El paso Field Services Date 6-5-01

Site Name Gallegos #124 95608

Well or Piezometer	Time	Reason Not Measured	Depth to Floating Product (Feet)	Depth to Water (Feet)	Depth to Sinking Product (Feet)	Total Well Depth (Feet)	Floating Product Thickness	Sinking Product Thickness	Approximate Recovery Comments Gallons
MW1	1415		29.28	29.32			.04		.15

Reason Not Measured: D = Dry; O = Obstructed; N = Not Accessible

Comments

Signature Chris A. May Date 6-5-01

Product Recovery

Meter/Line #:	95608
Location/Line Name:	GALLEGOS 12 4E
Date:	3-12-01
MW:	1
Depth to Product:	0
Depth to Water:	29.26
Product Thickness:	0
Volume Removed:	.10
Comments:	NO WATER RECOVERED

Product Recovery

Meter/Line #:	95608
Location/Line Name:	GALLEGOS 12 4 E
Date:	01-22-01
MW:	01
Depth to Product:	
Depth to Water:	28.99
Product Thickness:	
Volume Removed:	.15
Comments:	NO water Recovered

Product Recovery

Meter/Line #:	95608
Location/Line Name:	GALLEGOS #124E.
Date:	01-30-09
MW:	01
Depth to Product:	
Depth to Water:	29.09
Product Thickness:	
Volume Removed:	.05
Comments:	No water Recovered

Product Recovery

Meter/Line #:	95608
Location/Line Name:	GALLEGOS #124E
Date:	01-15-01
MW:	01
Depth to Product:	29.04
Depth to Water:	29.07
Product Thickness:	.03
Volume Removed:	0
Comments:	nothing Recovered in Skimmer Replaced Filter inside Skimmer

Product Recovery

Meter/Line #:	95608
Location/Line Name:	GALLEGOS #124E.
Date:	01-09-01
MW:	01
Depth to Product:	29.18
Depth to Water:	29.21
Product Thickness:	.03
Volume Removed:	0
Comments:	Noth-s Recovered in Skimmer Skimmer empTx