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Oil Conservation Division
Environmental Bureau

El Paso Tennessee
Pipeline Company

San Juan Basin Pit Program
Groundwater Sites Project

Final 2006 Annual Report
Federal Sites (Volume 1)

March 2007



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1801 California Street, Suite 2900
Denver, Colorado 80202

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2006 ANNUAL GROUNDWATER REPORT
FEDERAL SITES VOLUME I

EL PASO TENNESSEE PIPELINE COMPANY

MAR 06 2007

Oil Conservation Division
Environmental Bureau

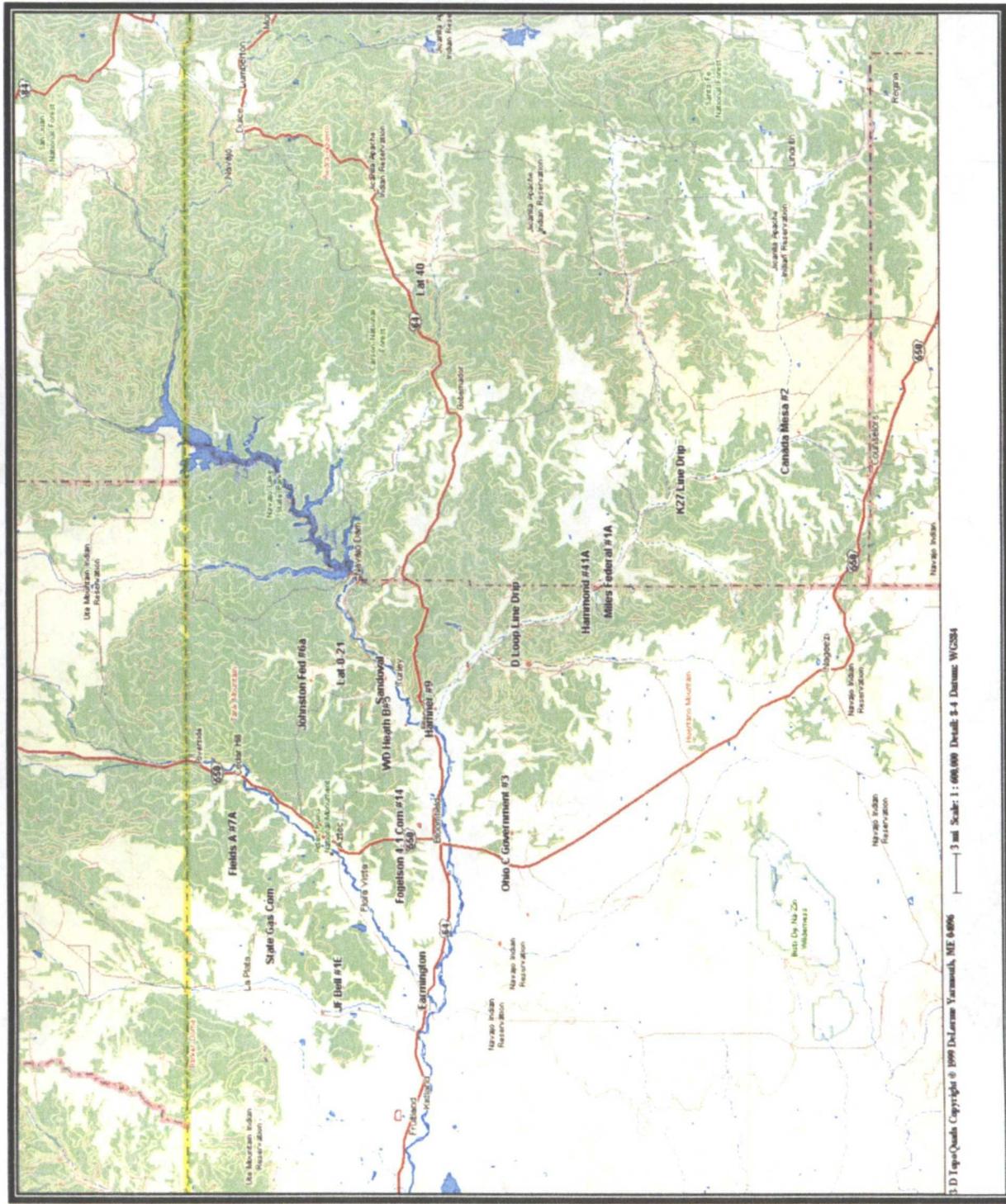
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METER or LINE ID	SITE NAME	TOWNSHIP	RANGE	SECTION	UNIT
89961	Fields A#7A	32N	11W	34	E
89232	Johnston Fed #6A	31N	09W	35	F
94715	James F. Bell #1E	30N	13W	10	P
89620	Sandoval GC A #1A	30N	09W	35	C
LD151	Lat 0-21 Line Drip	30N	09W	12	O
73220	Fogelson 4-1 Com. #14	29N	11W	4	P
97213	Hamner #9	29N	09W	20	A
LD174	LAT L 40	28N	04W	13	H
89894	Hammond #41A	27N	08W	25	O
94810	Miles Fed 1A	26N	07W	5	F
LD072	K27 LD072	25N	06W	4	E
87640	Canada Mesa #2	24N	06W	24	I
70194	Johnston Fed #4	31N	09W	33	H



MWH

Federal Groundwater Site Map



LIST OF ACRONYMS

B	benzene
btoc	below top of casing
E	ethylbenzene
EPTPC	El Paso Tennessee Pipeline Company
ft	foot/feet
GWEL	groundwater elevation
ID	identification
MW	monitoring well
PSH	phase-separated hydrocarbons
NMWQCC	New Mexico Water Quality Control Commission
T	toluene
TOC	top of casing
NA	not applicable
NE	not established
NM	not measured
NMOCD	New Mexico Oil Conservation Division
NS	not sampled
ORC	oxygen-releasing compound
ppb	parts per billion
µg/L	micrograms per liter
X	total xylenes

**EPTPC GROUNDWATER SITES
2006 ANNUAL GROUNDWATER REPORT**

**Miles Fed 1A
Meter Code: 94810**

SITE DETAILS

Legal Description:	Town: 26N	Range: 7W	Sec: 5	Unit: F
NMOCD Haz Ranking:	40	Land Type: Federal	Operator: Louis Dreyfus Natural Gas	

PREVIOUS ACTIVITIES

Site Assessment:	5/94	Excavation:	6/94	Soil Boring:	9/95
Monitor Well:	9/95	Geoprobe:	2/97	Additional MWs:	10/99
Downgradient MWs:	10/99	Replace MW:	NA	Quarterly Initiated:	NA
ORC Nutrient Injection:	NA	Re-Excavation:	NA	PSH Removal Initiated:	2/99
Annual Initiated:	10/99	Quarterly Resumed:	NA		

SUMMARY OF 2006 ACTIVITIES

MW-1: Quarterly free-product recovery activities and water level monitoring were performed in 2006.

MW-2: Quarterly water level monitoring was performed in 2006.

MW-3: Quarterly water level monitoring was performed in 2006.

Site-Wide Activities: The site was inspected quarterly for hydrocarbon seeps. No seeps were detected.

SITE MAP

A site map (2006) is attached in Figure 1.

SUMMARY TABLES AND GRAPHS

- Historic analytical data are presented graphically in Figures 2 through 4.
- Free-product recovery data from 2006 are included in Table 1, and historic data are presented graphically in Figure 5.
- Field documentation is presented in Attachment 1 (included on CD).

**EPTPC GROUNDWATER SITES
2006 ANNUAL GROUNDWATER REPORT**

**Miles Fed 1A
Meter Code: 94810**

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

No subsurface activities were performed at this site during 2006.

DISPOSITION OF GENERATED WASTES

All purge water was taken to the El Paso Natural Gas Rio Vista Compressor Station. Recovered free-product is stored in a 55 gallon drum and periodically picked up by Mesa Oil for recycling.

ISOCONCENTRATION MAPS

No isoconcentration maps were prepared for this site; however, the attached site maps present water level data collected during 2006.

CONCLUSIONS

- The groundwater flow direction at this site is toward the northeast.
- Free-product recovery efforts at MW-1 resulted in removal of approximately 0.14 gallons of free-phase hydrocarbons during 2006 bringing the cumulative total recovered to date to approximately 11.97 gallons. Free-product removal in 2005 totaled 0.74 gallons, compared to 0.14 gallons in 2006, demonstrating that product accumulation is decreasing. Additionally, there was no measurable product thickness in MW-1 subsequent to the January 2006 gauging event.
- No seeps along the well pad slopes were noted during 2006.
- New oil absorbent socks were installed in MW-1 during the January 2006 monitoring event. No product was detected during the April, July, and October 2006 monitoring events; therefore, the socks were not replaced during these events.

**EPTPC GROUNDWATER SITES
2006 ANNUAL GROUNDWATER REPORT**

**Miles Fed 1A
Meter Code: 94810**

RECOMMENDATIONS

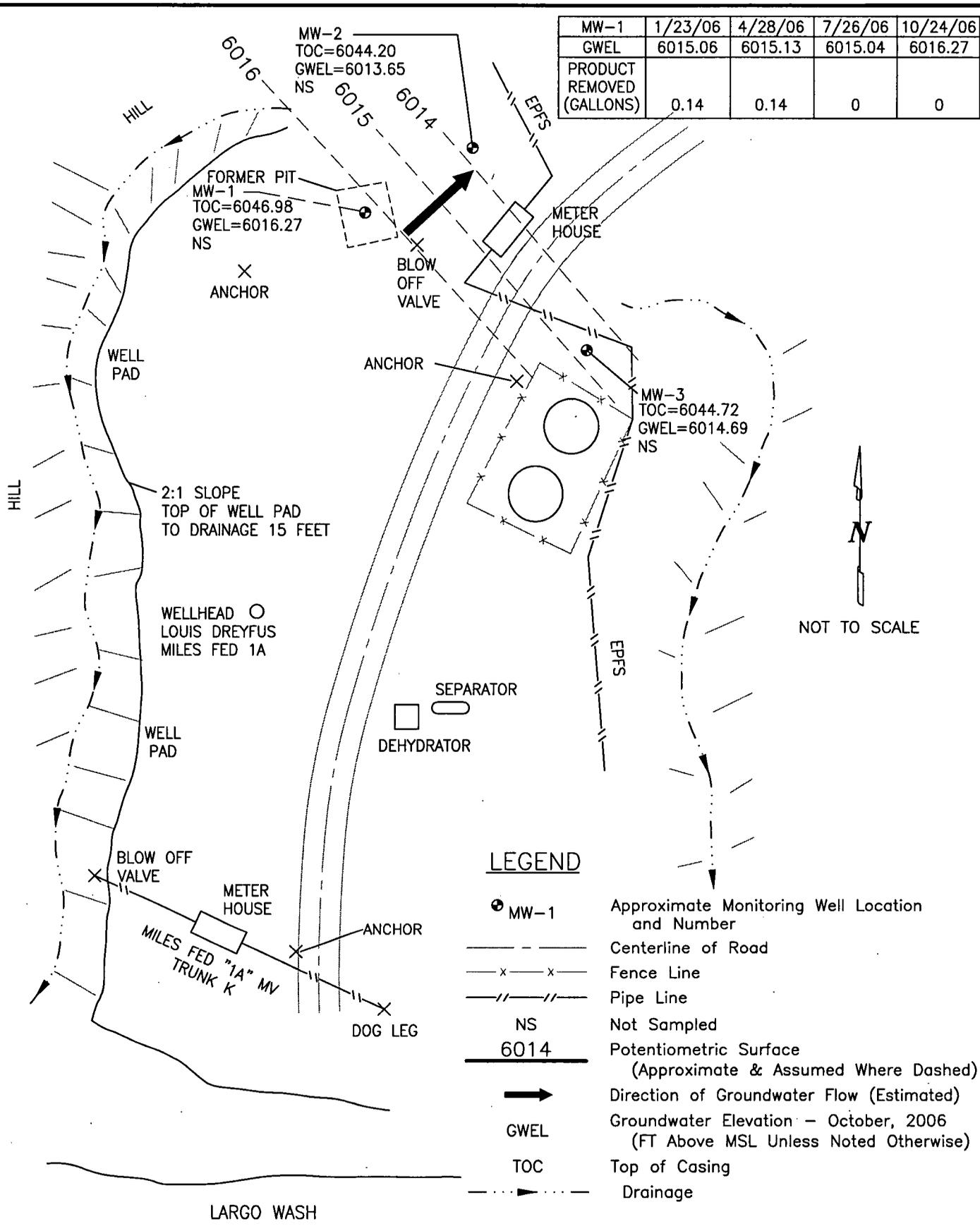
- EPTPC will continue to inspect the well pad slopes for evidence of seeps. If a seep is found, photographic documentation will be made and the seep will be sampled.
- If free-product continues to be absent from MW-1, this well will be sampled on an annual basis until sample results approach closure criteria. The well will then be scheduled for quarterly sampling until closure criteria are met. The first sample event will be in April 2007, if possible.
- EPTPC will continue water level monitoring at MW-2 and MW-3, in conjunction with product removal activities. Because historical analyses indicate minimal contamination in MW-2 and MW-3, these wells will be sampled once with MW-1 in April 2007, if free-product does not reappear.

TABLE 1

**SUMMARY OF FREE-PRODUCT REMOVAL
MILES FED 1A (METER #94810)**

Site Name	Monitoring Well	Removal Date	Depth to Product (feet bgs)	Depth to Water (feet bgs)	Product Thickness (feet)	Volume of Product Removed (gallons)	Cumulative Volume of Product Removed (gallons)
Miles Fed 1A	MW-1	1/2/02	31.20	32.17	0.97	1.50	7.75
Miles Fed 1A	MW-1	4/1/02	31.09	31.45	0.36	0.25	8.00
Miles Fed 1A	MW-1	7/15/02	31.43	32.35	0.92	0.25	8.25
Miles Fed 1A	MW-1	10/8/02	31.33	31.73	0.40	0.25	8.50
Miles Fed 1A	MW-1	1/27/03	31.21	31.59	0.38	0.75	9.25
Miles Fed 1A	MW-1	4/26/03	31.16	31.30	0.14	0.20	9.45
Miles Fed 1A	MW-1	7/17/03	31.73	32.31	0.58	0.75	10.20
Miles Fed 1A	MW-1	1/19/04	31.32	31.49	0.17	0.13	10.33
Miles Fed 1A	MW-1	7/27/04	31.89	32.47	0.58	0.50	10.83
Miles Fed 1A	MW-1	10/20/04	31.95	32.24	0.29	0.27	11.09
Miles Fed 1A	MW-1	1/25/05	31.75	31.91	0.16	0.19	11.28
Miles Fed 1A	MW-1	4/14/05	31.52	31.68	0.16	0.11	11.39
Miles Fed 1A	MW-1	7/19/05	32.32	32.43	0.11	0.23	11.62
Miles Fed 1A	MW-1	10/21/05	0	32.02	0	0.21	11.83
Miles Fed 1A	MW-1	1/23/06	31.92	31.93	0.01	0.14	11.97
Miles Fed 1A	MW-1	4/28/06	0	31.85	0	0.00	11.97
Miles Fed 1A	MW-1	7/26/06	0	31.94	0	0.00	11.97
Miles Fed 1A	MW-1	10/24/06	0	30.71	0	0.00	11.97

MW-1	1/23/06	4/28/06	7/26/06	10/24/06
GWEL	6015.06	6015.13	6015.04	6016.27
PRODUCT REMOVED (GALLONS)	0.14	0.14	0	0



MILES FED 1A, METER 94497
2006

GROUNDWATER SITES
EL PASO TENNESSEE PIPELINE COMPANY

FIGURE 1

Fig1_miles_1a_2006.dwg

FIGURE 2
HISTORIC BTEX CONCENTRATIONS AND GROUNDWATER ELEVATIONS
MILES FED 1A
MW-1

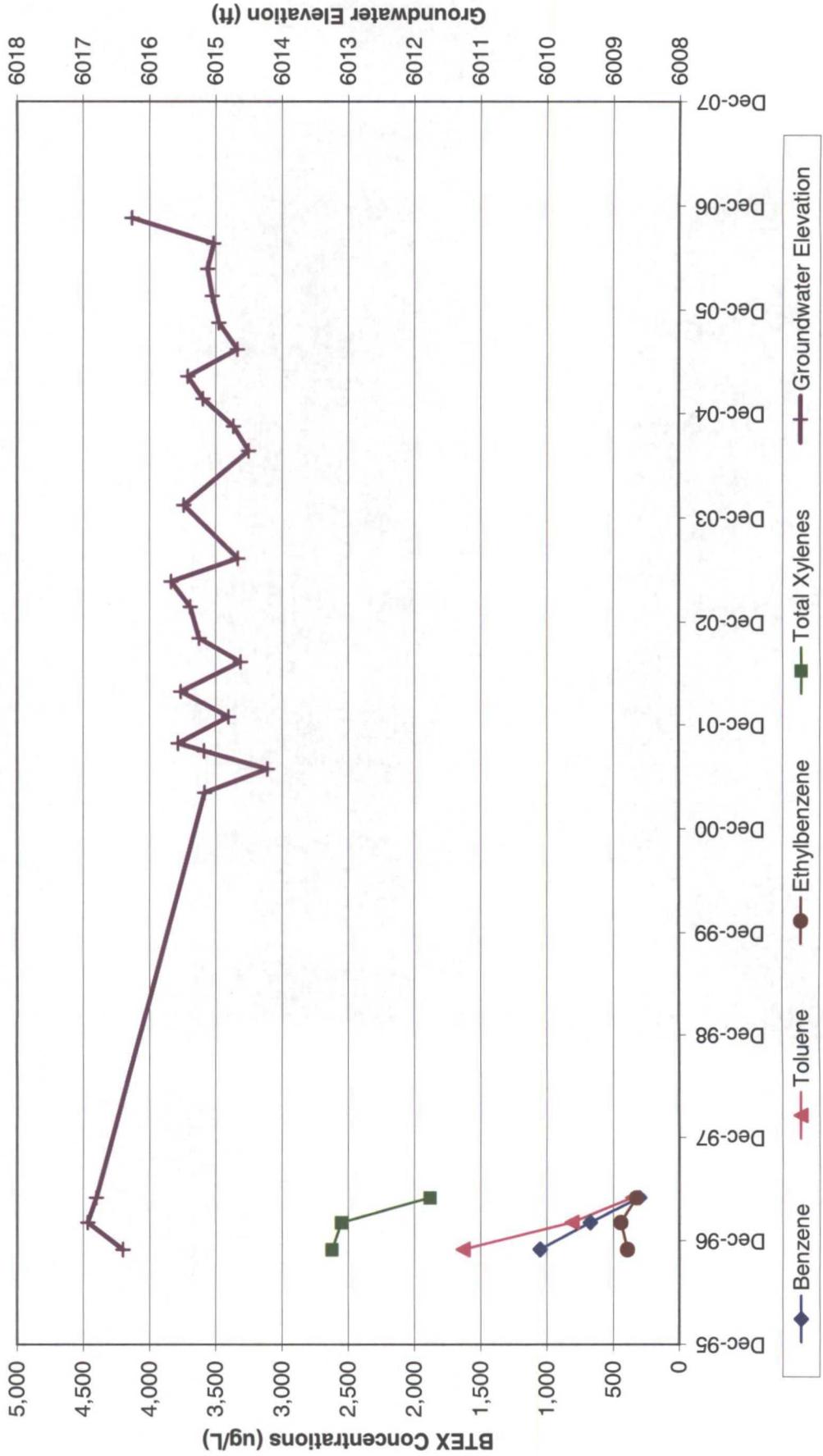


FIGURE 3
HISTORIC BTEX CONCENTRATIONS AND GROUNDWATER ELEVATIONS
MILES FED 1A
MW-2

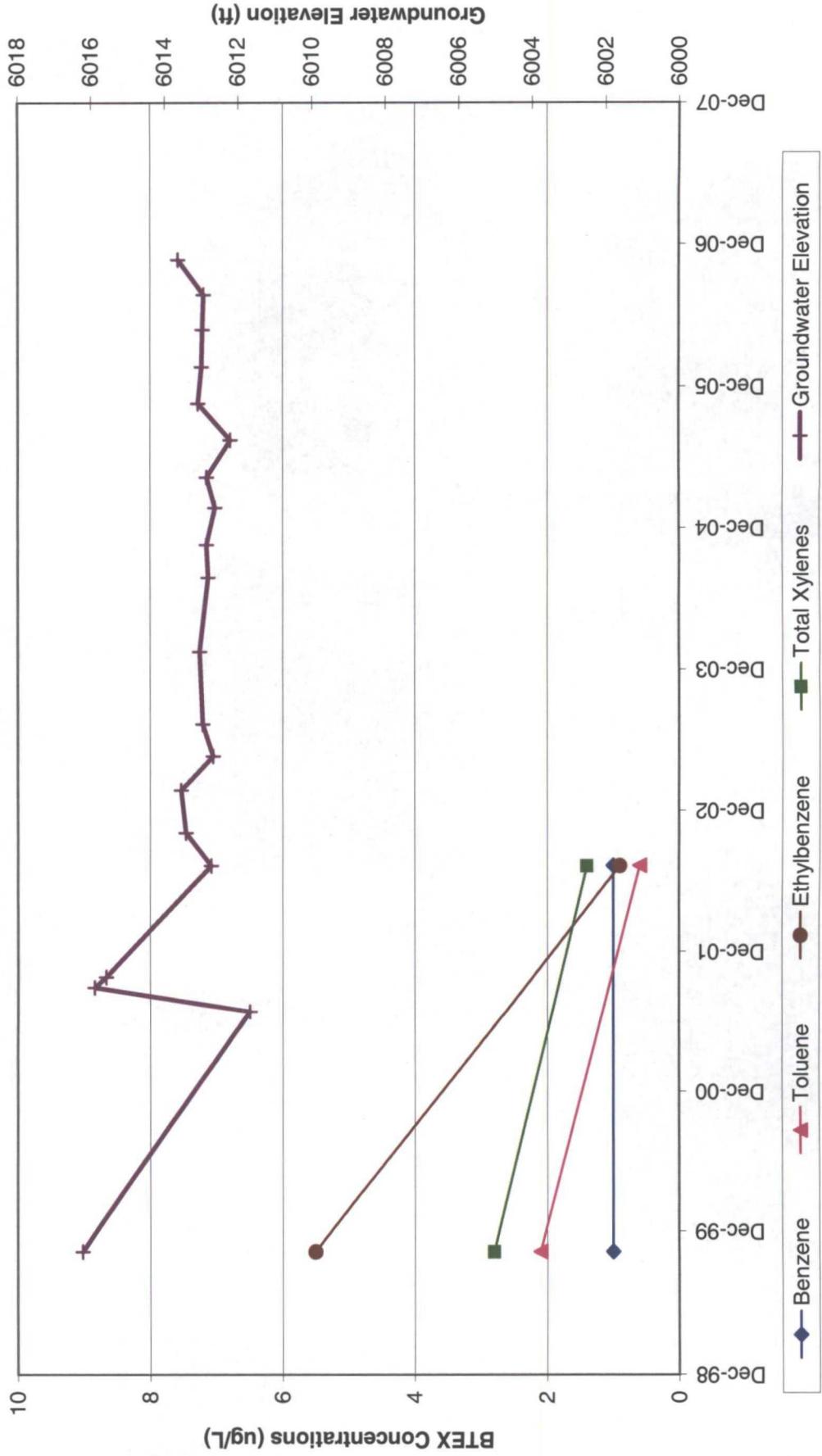


FIGURE 4
HISTORIC BTEX CONCENTRATIONS AND GROUNDWATER ELEVATIONS
MILES FED 1A
MW-3

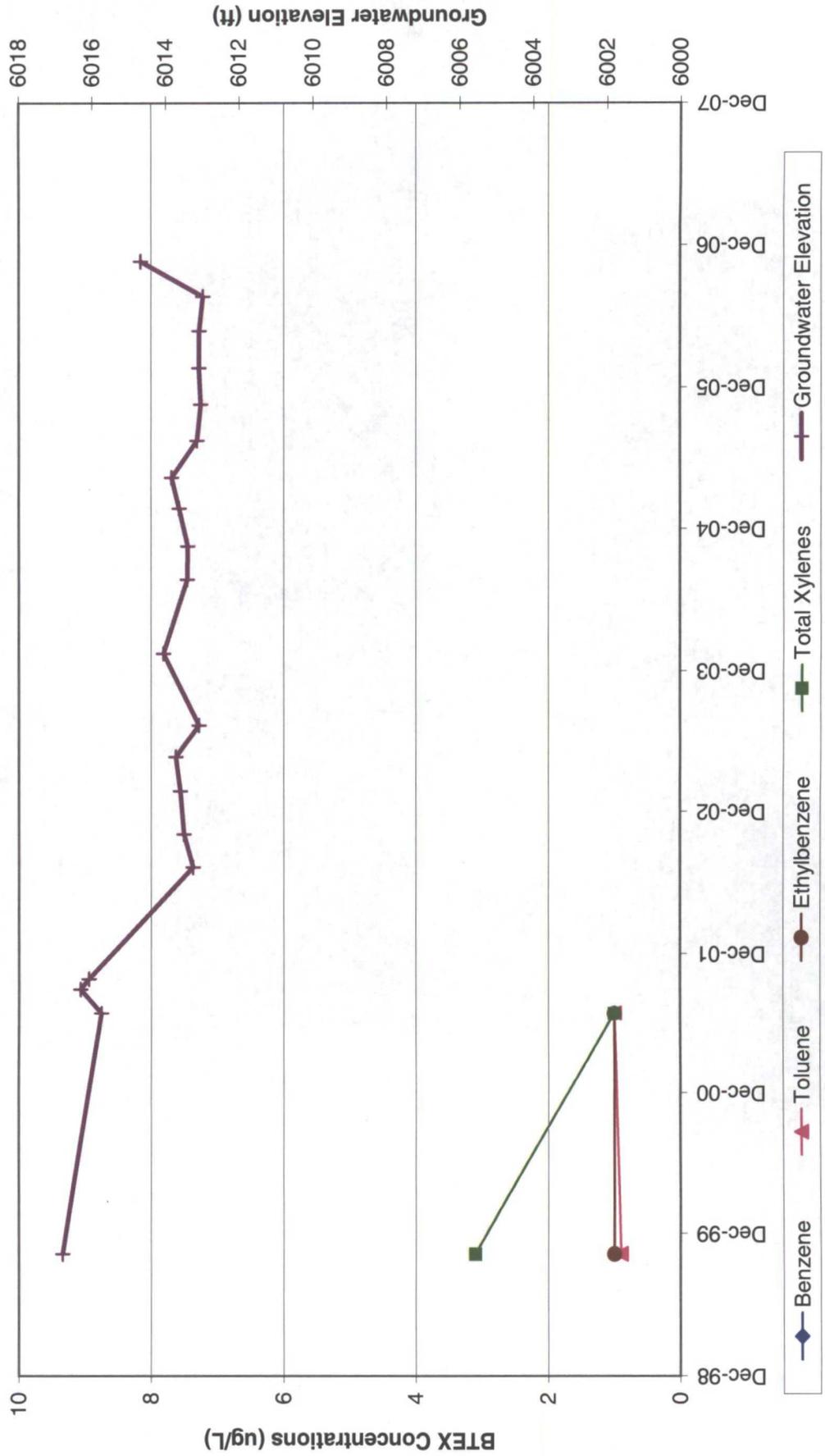


FIGURE 5
HISTORIC FREE-PRODUCT RECOVERY
MILES FED 1A
MW-1

