3R - 407

ANNUAL MONITORING REPORT

04/02/2008



BUILDING A BETTER WORLD

RECEIVED 2008 APR 4 PM 1 38

April 2, 2008

Mr. Glenn von Gonten New Mexico Oil Conservation Division (NMOCD) 1220 South St., Francis Drive Santa Fe, New Mexico 87505

RE: El Paso Tennessee Pipeline Company Pit Groundwater Remediation Sites 2007 Annual Reports

Dear Mr. Von Gonten:

MWH Americas, Inc., on behalf of El Paso Tennessee Pipeline Company (EPTPC), is submitting the enclosed 2007 Annual Reports for each of EPTPC's 21 remaining San Juan River Basin pit groundwater remediation Sites. The reports present the 2007 sampling and product recovery data and include recommendations for 2008 activities at these Sites.

Copies of the reports for Sites located on Federal or Navajo lands are also being sent under separate cover to the Bureau of Land Management and the Navajo Nation Environmental Protection Agency.

If you have any questions concerning the enclosed reports, please call either Nancy Prince of EPTPC (719-520-4690) or me (303-291-2276).

Sincerely,

Jed Smith Project Manager

cc: Brandon Powell – NMOCD, Aztec, NM Nancy Prince – EPTPC MWH Project File

> 1801 California Street Suite 2900 Denver, Colorado 80202

TEL 303 291 2222 FAX 303 291 2221 www.mwhglobal.com

3R407

2007 ANNUAL GROUNDWATER REPORT NAVAJO SITES VOLUME III

EL PASO TENNESSEE PIPELINE COMPANY

TABLE OF CONTENTS

METER or LINE ID	SITE NAME	TOWNSHIP	RANGE	SECTION	ÚNIT
95608	Gallegos Canyon Unit #124E	28N	12W	35	N



EPTPC GROUNDWATER SITES 2007 ANNUAL GROUNDWATER REPORT

GCU #124E Meter Code: 95608

SITE DETAILS								
Legal Description:	Town:	28N	Range:	12W	Sec:	35	Unit:	Ν
NMOCD Haz Ranking:	20	Land Type:	Navajo	Operator:	BP / A	Атоса	Productio	on
PREVIOUS ACTIV	<u>ITIES</u>							
Site Assessment:	Jan/95	Excava	tion:	Oct/95 (196 cy)	Soil B	oring	;:	Mar/98
Monitor Well:	Jun/98	Geopro	be:	NA	Addit	ional	MWs:	*
Downgradient MWs:	*	Replace	e MW:	NA	Quart	terly	Initiated:	Jun/98
ORC Nutrient Injection:	NA	Re-Exc	avation:	NA	PSH I Initia		val	Apr/99
Annual Initiated:	NA	Quarte	rly Resumed:	NA	PSH J 2007?		val in	No

* Attempts were made in November 2000 to install additional wells that resulted in dry holes.

SUMMARY OF 2007 ACTIVITIES

MW-1: Quarterly water level gauging and groundwater sampling were performed in 2007.

Site-Wide Activities: No other activities were performed at this Site in 2007.

SITE MAP

Site maps (January, April, July, and October) are attached as Figures 1-4.

SUMMARY TABLES AND GRAPHS

- Analytical data are summarized in Table 1 and presented graphically in Figure 5.
- Product removal data are summarized in Table 2 and presented graphically in Figure 6.
- Laboratory analytical data are presented in Attachment 1 (included on CD).
- Field documentation is presented in Attachment 2 (included on CD).

EPTPC GROUNDWATER SITES 2007 ANNUAL GROUNDWATER REPORT

GCU #124E Meter Code: 95608

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

No subsurface activities were performed at this Site during 2007.

DISPOSITION OF GENERATED WASTES

All purge water was taken to the El Paso Natural Gas Rio Vista Compressor Station.

ISOCONCENTRATION MAPS

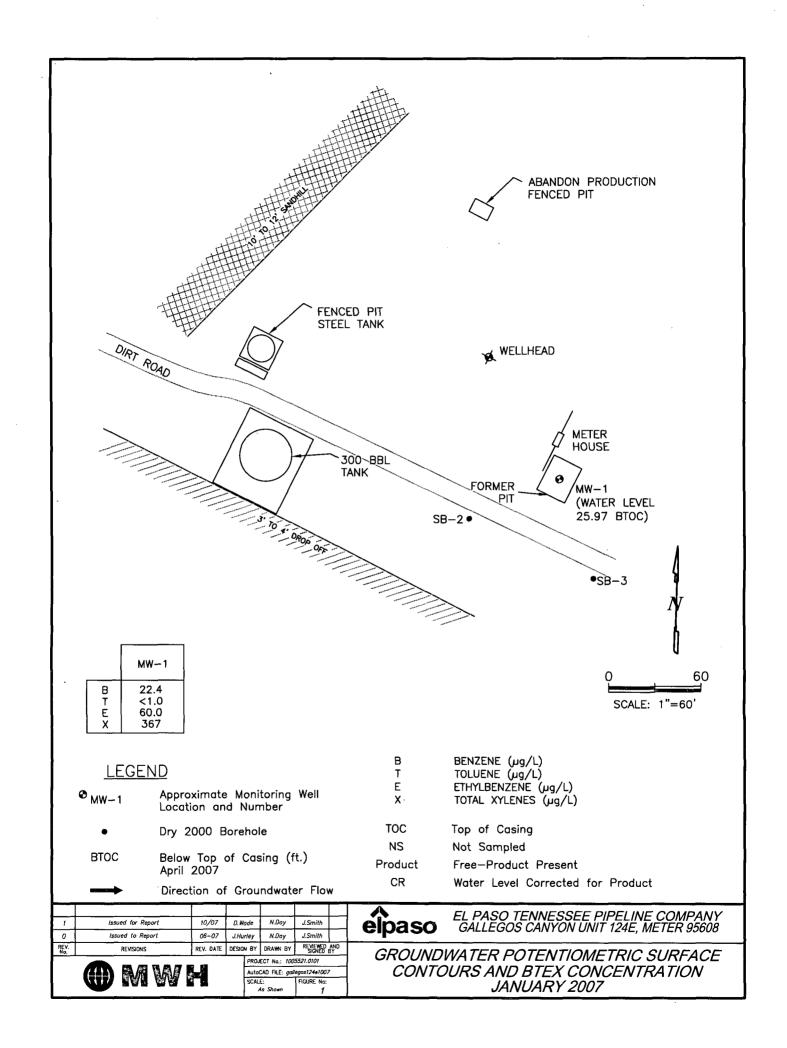
No isoconcentration maps were generated for this Site. However, the attached Site maps present the 2007 water level and analytical data.

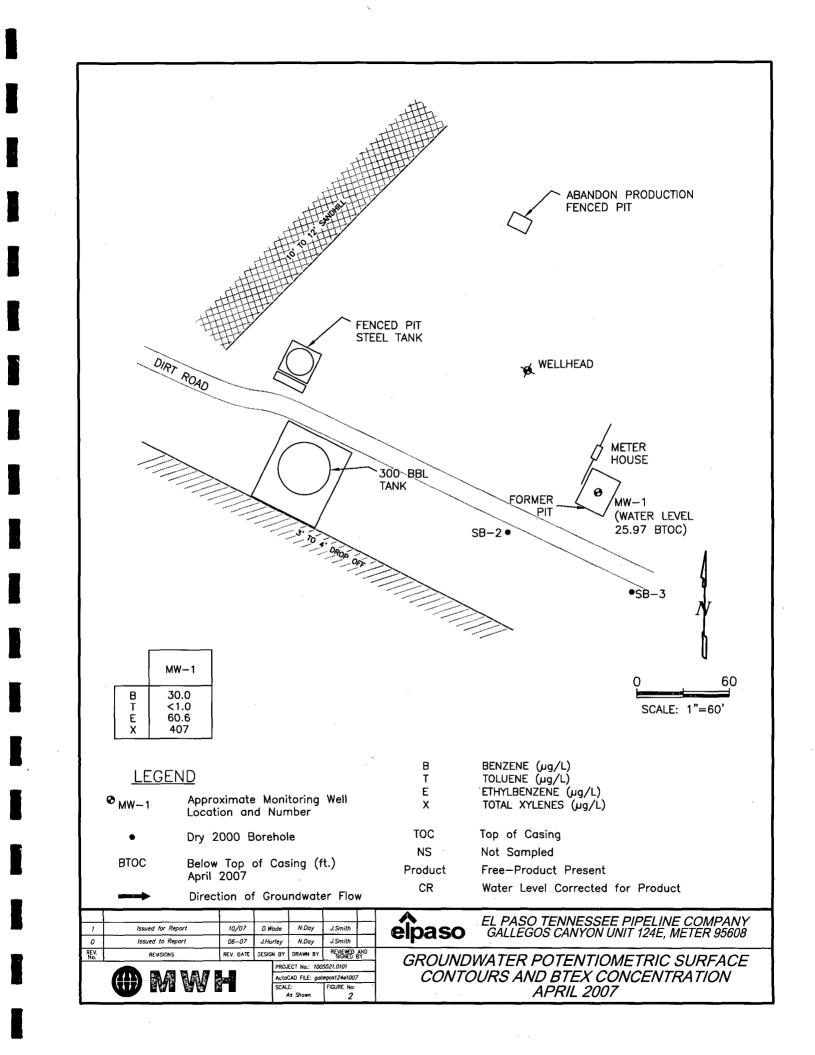
CONCLUSIONS

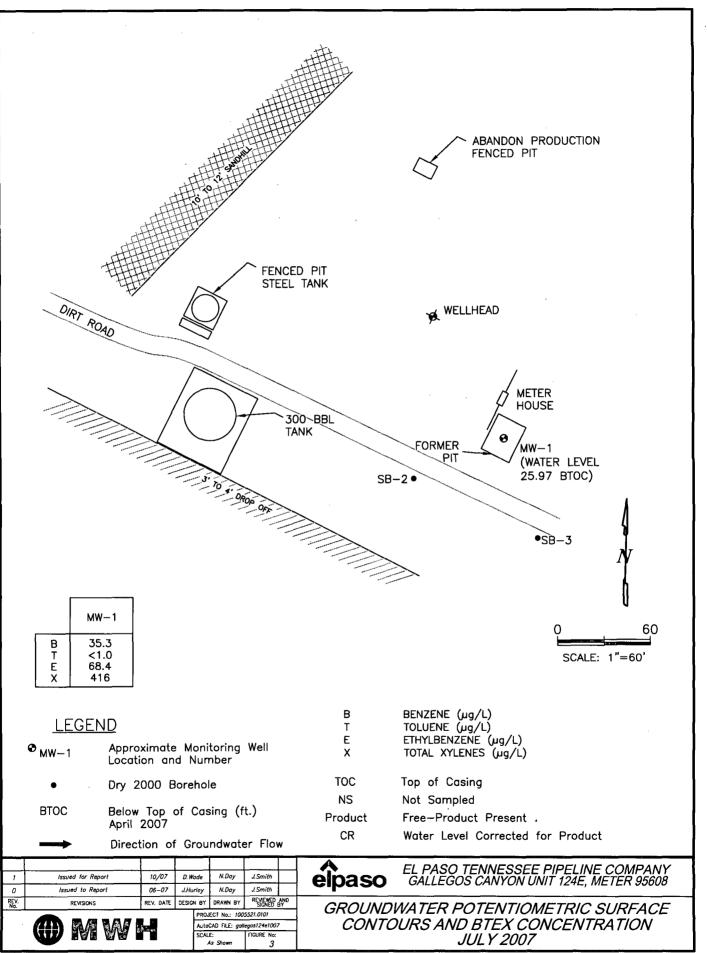
- Quarterly gauging at MW-1 did not detect any free product in the well in 2007. Free product has not been detected in the well since 2003. The majority of freeproduct was removed from MW-1 by 2002 (approximately 19 gallons); between 2003 and 2005, a total of only 0.03 gallons of product were removed, and an oily sheen was periodically detected on the water.
- Benzene concentrations were above the applicable standards until the four quarter of 2007. The quarterly results were 22.4 μ g/L, 30.0 μ g/L, 35.3 μ g/L, and 9.0 μ g/L for January, April, July, and October 2007, respectively. Concentrations appear to be attenuating steadily.
- Toluene, ethylbenzene, and total xylenes concentrations were below all applicable standards during 2007.

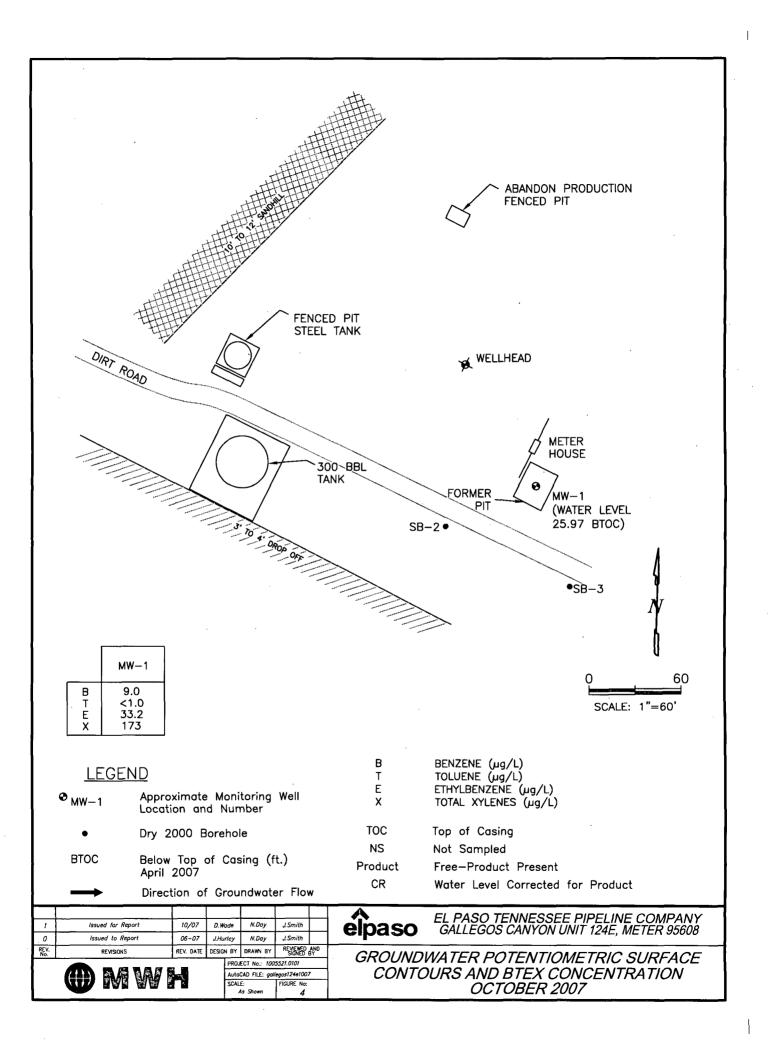
RECOMMENDATIONS

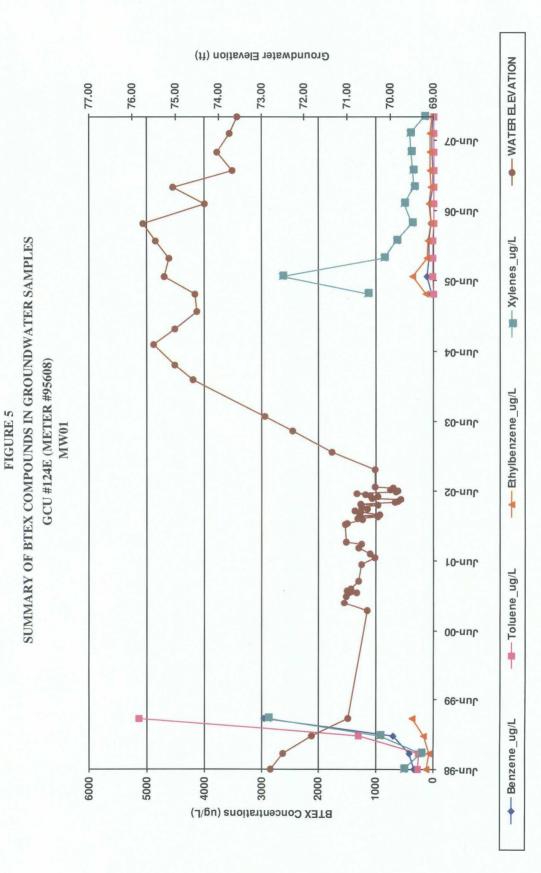
- Because the BTEX concentrations in MW-1 have now fallen below the their respective groundwater standards, EPTPC will continue to sample MW-1 quarterly.
- Sampling will continue on a quarterly basis until BTEX concentrations are below the applicable NNEPA/USEPA standards for three consecutive quarters and NMWQCC standards for four consecutive quarters.
- Following approval for closure by both the NNEPA/USEPA and the NMOCD, the monitoring well will be removed in accordance with the approved EPTPC Monitoring Well Abandonment Plan.



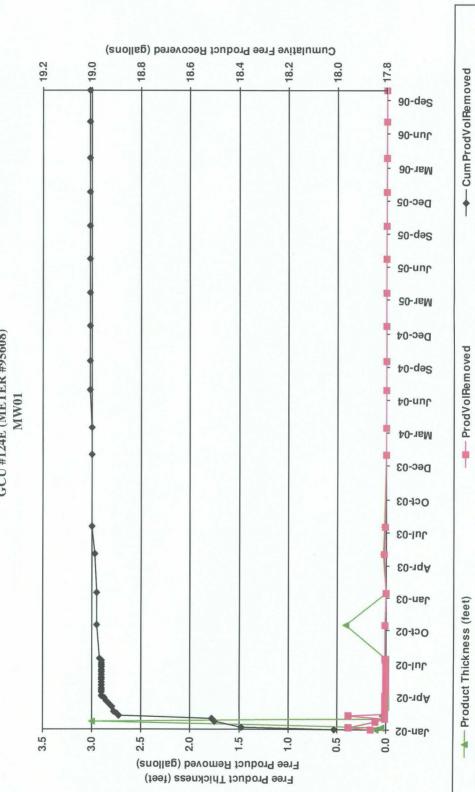








Note: Non Detects are represented by a value of 1.



SUMMARY OF FREE-PRODUCT REMOVAL GCU #124E (METER #95608) FIGURE 6

TABLE 1

Monitoring Well	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	Depth to Water (ft BTOC)
MW01	6/25/1998	340	271	111	510	27.21
	9/14/1998	410	251	68.3	220	27.50
	12/15/1998	710	1300	160	940	28.16
	3/16/1999	2960	5130	367	2890	29.02
	4/19/2005	38.8	1	142	1160	25.45
•	7/20/2005	125	11.4	371	2640	24.73
	10/20/2005	86.8	11.3	125	864	24.85
	1/19/2006	77.9	12	101	656	24.53
	4/24/2006	45.1	3.5	56.1	377	24.25
,	7/31/2006	60.8	1.5	79.3	524	25.68
	10/24/2006	21.1	1	56.6	349	24.94
	1/19/2007	22.4	1	60	367	26.33
	4/24/2007	30.3	1	60.6	407	25.97
•	7/31/2007	35.3	1	68.4	416	26.26
	10/25/2007	9	1	33.2	173	26.44

SUMMARY OF BTEX COMPOUNDS IN GROUNDWATER SAMPLES GCU #124E (METER #95608)

Note: Non Detects are represented by a value of 1.

Page 1

TABLE 2

SUMMARY OF FREE-PRODUCT REMOVAL GCU #124E (METER #95608)

Monitoring Well	Removal Date	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	Volume Removed (gallons)	Cumulative Volume of Product Removed (gallons)
MW01	1/2/2002	28.85	28.96	0.11	0.16	18.01
	1/7/2002	28.94	28.99	0.05	0.38	18.39
	1/23/2002	26.35	29.35	3.00	0.11	18.50
	1/30/2002	29.22	29.24	0.02	0.01	18.51
	2/7/2002	29.66	29.7	0.04	0.38	18.89
	2/14/2002	29.28	29.29	0.01	0.01	18.90
	2/20/2002	29.75	29.76	0.01	0.01	18.91
	3/4/2002		29.3	0	0.01	18.92
	3/11/2002		29.17	0	0.01	18.93
	3/21/2002		29.47	0	0.01	18.94
/	3/28/2002		29.33	0	0.01	18.95
	4/3/2002		29.33	0	0.01	18.96
	4/12/2002	j.	29.7	0	0	18.96
	4/18/2002		29.31	0	0	18.96
	4/25/2002		30.11	0	0	18.96
	5/3/2002		30.18	0	0	18.96
	5/10/2002		30.25	0	0	18.96
	5/17/2002		29.57	0	0	18.96
	5/24/2002		29.7	0	0	18.96
	5/31/2002		29.54	0	0	18.96
	6/7/2002		29.42	0	. 0 ,	18.96
	6/12/2002		29.21	0	0	18.96
	6/21/2002		30.12	0	0	18.96
	6/27/2002		30.18	0	0	18.96
	7/2/2002	29.98	29.99	0.01	0	18.96
	7/11/2002		30.06	0	0	18.96
	7/15/2002		29.63	0	0.01	18.97
	10/16/2002	29.24	29.65	0.41	0.01	18.98
	1/15/2003	, .	28.63	0	0	18.98
	5/5/2003	27.69	27.72	0.03	0.02	18.99
	7/18/2003	27.06	27.08	0.02	0.01	19.00
	1/29/2004		25.4	0	0	<u>,</u> 19.00
	4/15/2004		24.98	0	0.004	19.00
	7/26/2004		24.5	0	0.004	19.01
	10/15/2004		24.98	0	Ò	19.01
	1/17/2005		25.49	0	0	19.01
	4/19/2005		25.45	0	0	19.01
	7/20/2005		24.73	0	0	19.01
	10/20/2005		24.85	0	0	19.01

TABLE 2

GCU #124E (METER #95608)								
Monitoring Well	Removal Date	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	Volume Removed (gallons)	Cumulative Volume of Product Removed (gallons)		
MW01	1/19/2006		24.53	0	0.	19.01		
	4/24/2006		24.25	0	0	19.01		
	7/31/2006		25.68	0	. 0	19.01		
	10/24/2006		24.94	0	0	19.01		

SUMMARY OF FREE-PRODUCT REMOVAL GCU #124E (METER #95608)