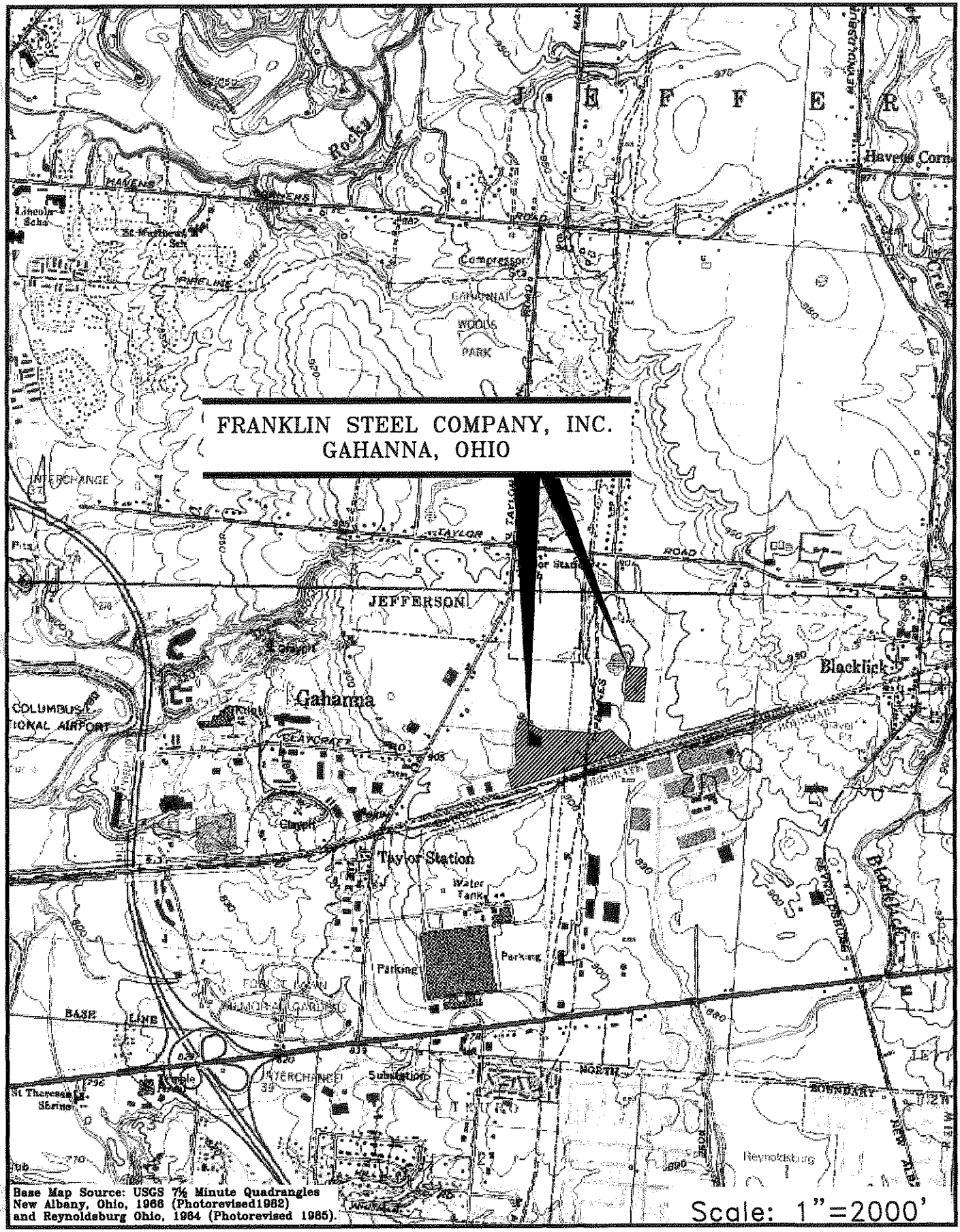

Base Map Source: USGS 7½ Minute Quadrangles New Albany, Ohio, 1966 (Photorevised1982) and Reynoldsburg Ohio, 1964 (Photorevised 1985).

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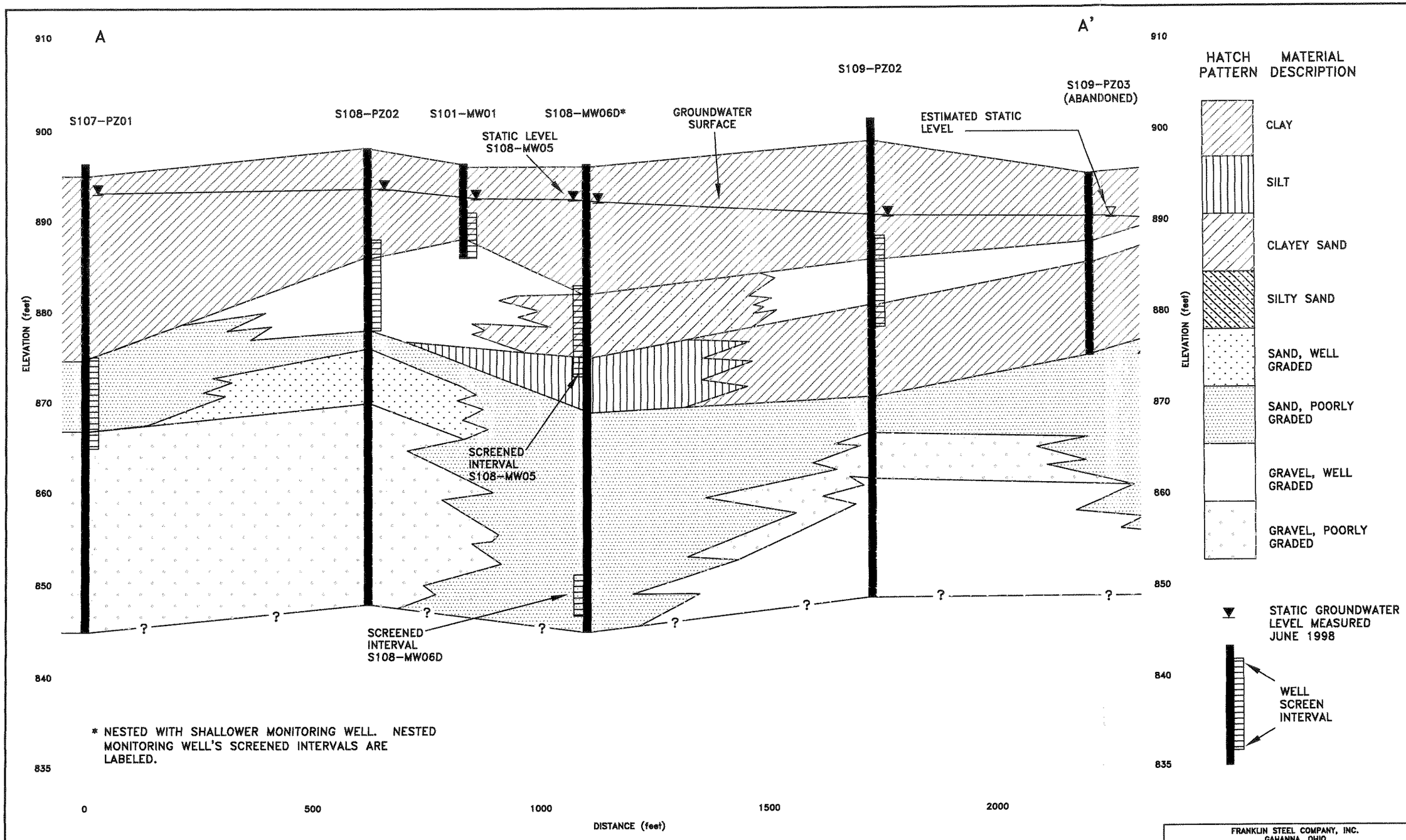
Figure 2.1 Location Map For Franklin Steel Company



* NESTED WITH SHALLOWER MONITORING WELL. NESTED MONITORING WELL'S SCREENED INTERVALS ARE LABELED.

REFER TO FIGURE 2.4 DRAWING FOR CROSS SECTION LOCATION.

CROSS SECTION A – A'

FRANKLIN STEEL COMPANY, INC.
GAHANNA, OHIO

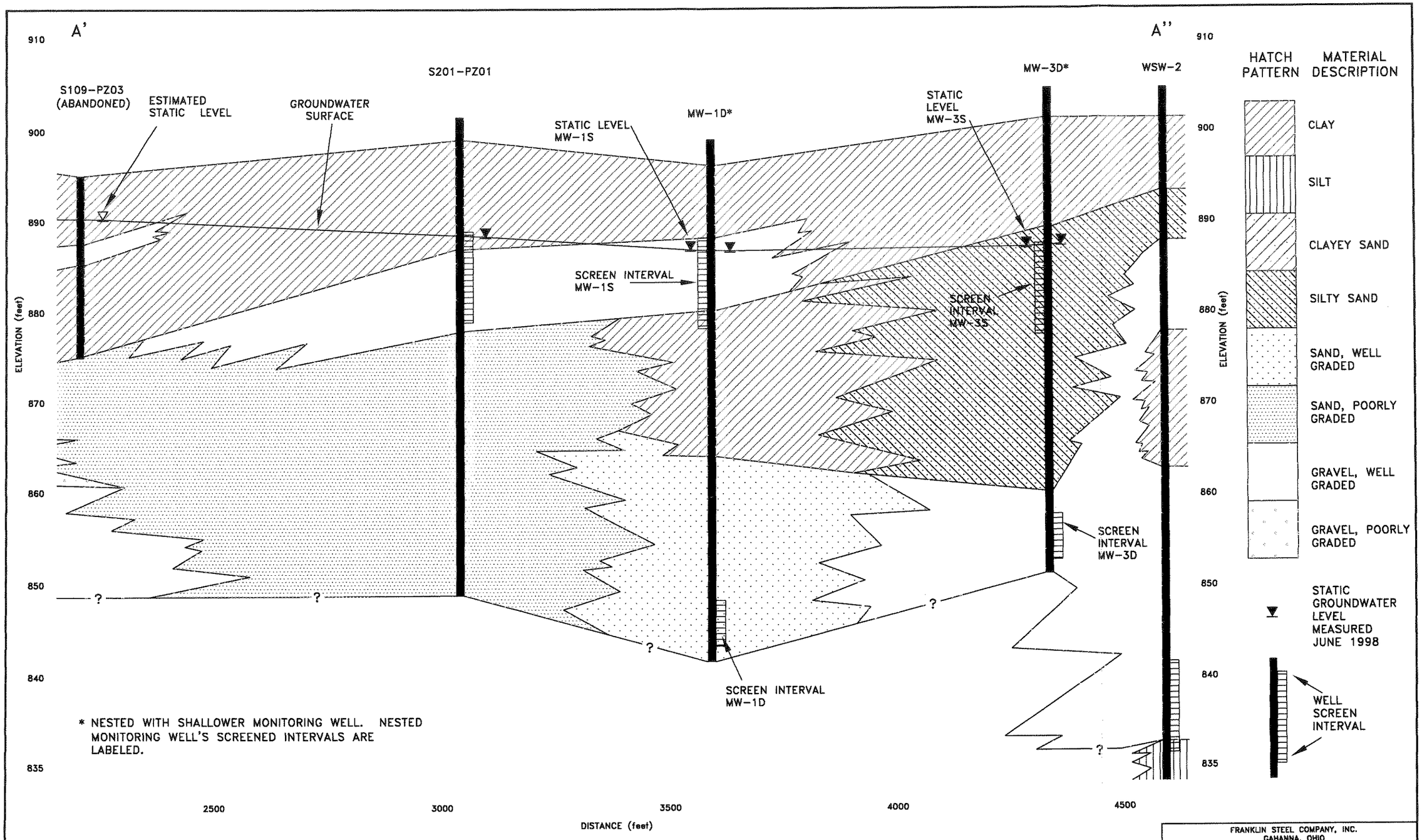
RCRA Facility
Investigation Report

Cross Section
A – A'

SAIC Science Applications International Corporation Columbus, Ohio

FIGURE 2.2

NAME: FIGURE 2.2-R:\CSD\C002759\101\COMPOSIT.DWG DATE: DEC 06, 2001 TIME: 7:58 AM CTB: S:\CTB PLOTTING\FULLCOLR.CTB



* NESTED WITH SHALLOWER MONITORING WELL. NESTED MONITORING WELL'S SCREENED INTERVALS ARE LABELED.

REFER TO FIGURE 2.4 DRAWING FOR CROSS SECTION LOCATION.

Cross Section A' – A''

FRANKLIN STEEL COMPANY, INC.
GAHANNA, OHIO

RCRA Facility Investigation Report

Cross Section A' – A''

SAIC Science Applications International Corporation Columbus, Ohio

FIGURE 2.3

NAME: FIGURE 2.3-R:\CSD\C002759\101\COMPOSIT.DWG DATE: DEC 06, 2001 TIME: 7:59 AM CTB: S:\CTB PLOTTING\FULLCOLR.CTB

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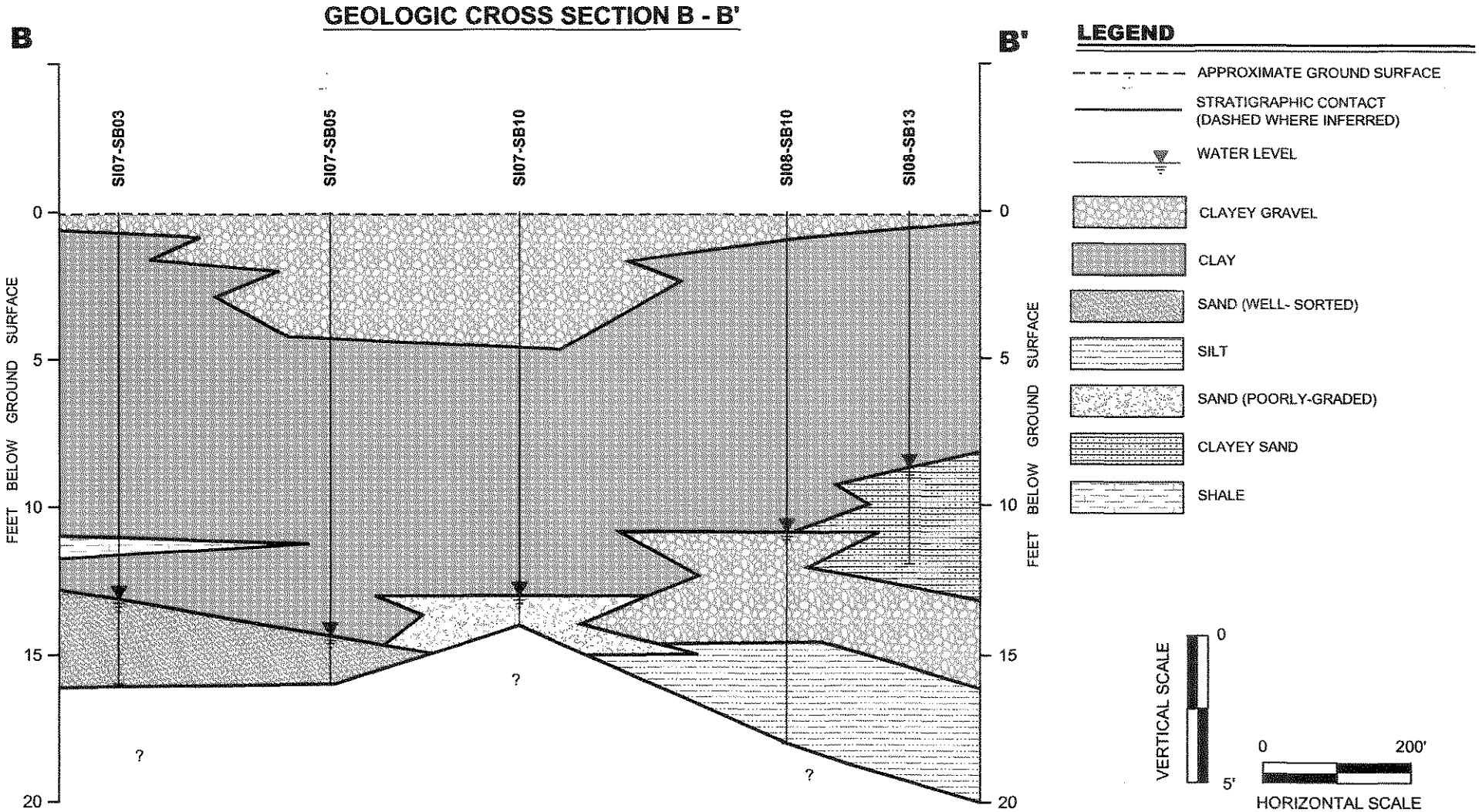

RMT

655 Metro Place S., Ste. 750
Dublin, Ohio 43017
Phone: 614-793-0026
Fax: 614-793-0151

FRANKLIN STEEL COMPANY
BLACKLICK, OHIO

GEOLOGIC CROSS SECTION B-B'

DRAWN BY:	QR
CHECKED BY:	TL
APPROVED BY:	TL
PROJECT NUMBER:	J:\06771\51
FILE NUMBER:	Fig 2.5.dwg
DATE:	June 2008

FIGURE 2.4

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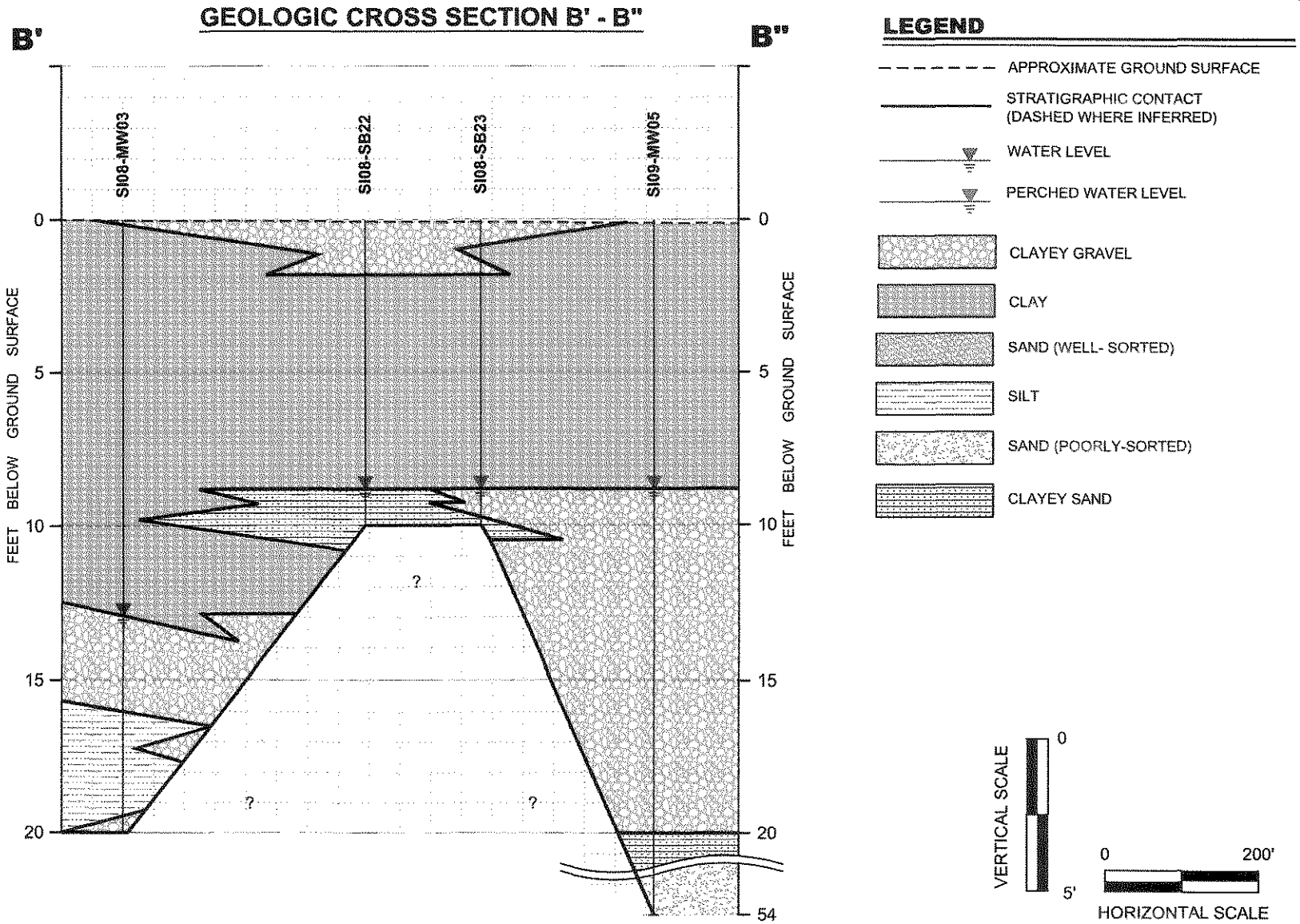
RMT COMPUTER AID... DESIGN AND DRAFTING

GEOLOGIC CROSS SECTION B' - B"



RMT

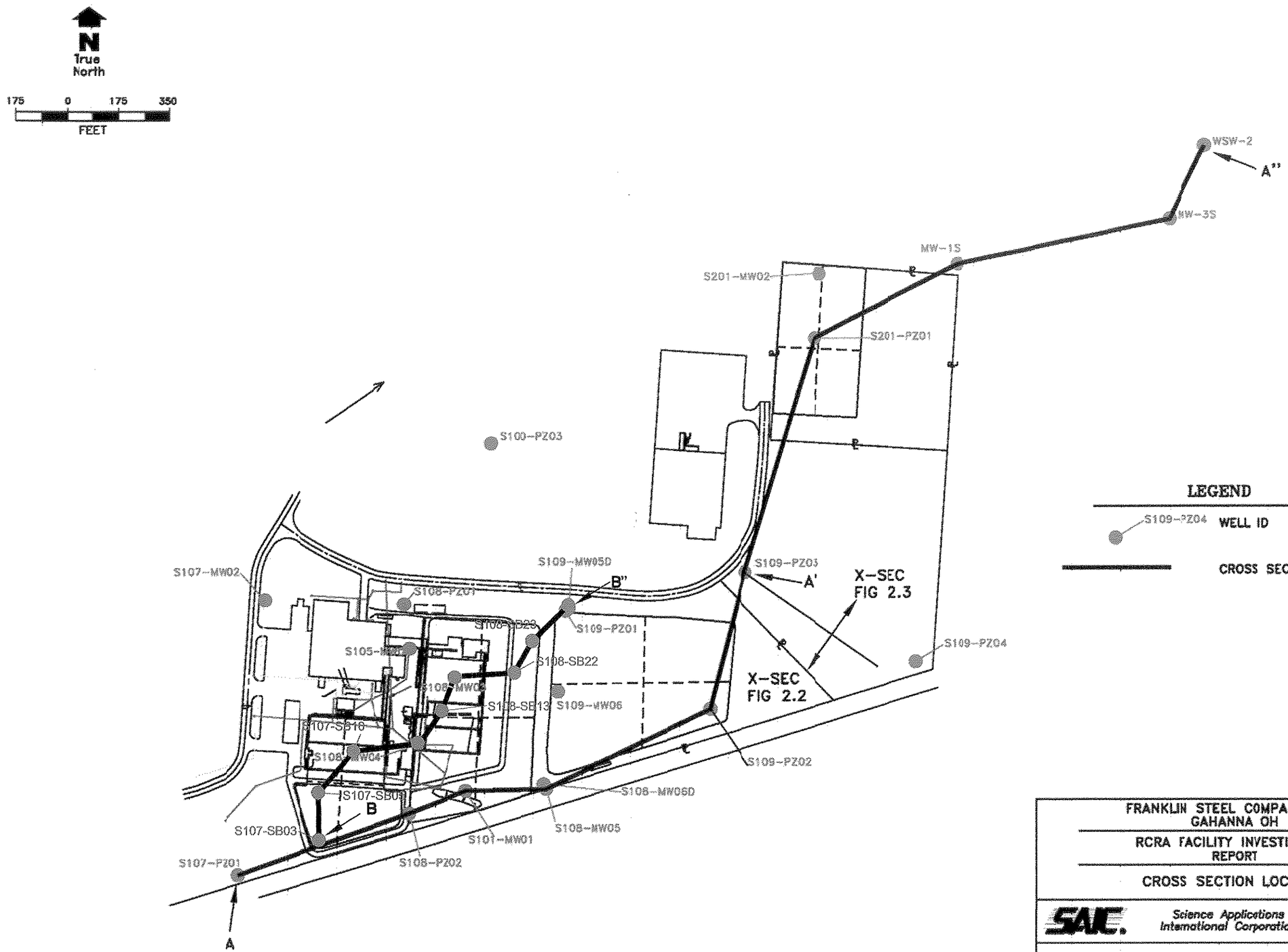
655 Metro Place S., Ste. 750
Dublin, Ohio 43017
Phone: 614-793-0026
Fax: 614-793-0151

FRANKLIN STEEL COMPANY
BLACKLICK, OHIO

GEOLOGIC CROSS SECTION B'-B"

DRAWN BY:	QR
CHECKED BY:	TL
APPROVED BY:	TL
PROJECT NUMBER:	J:\06771\51
FILE NUMBER:	Fig 2.5.dwg
DATE:	June 2008

FIGURE 2.5



FRANKLIN STEEL COMPANY, INC.
GAHANNA OH

RCRA FACILITY INVESTIGATION
REPORT

CROSS SECTION LOCATION

SAIC. Science Applications International Corporation Columbus, Ohio

FIGURE 2.6

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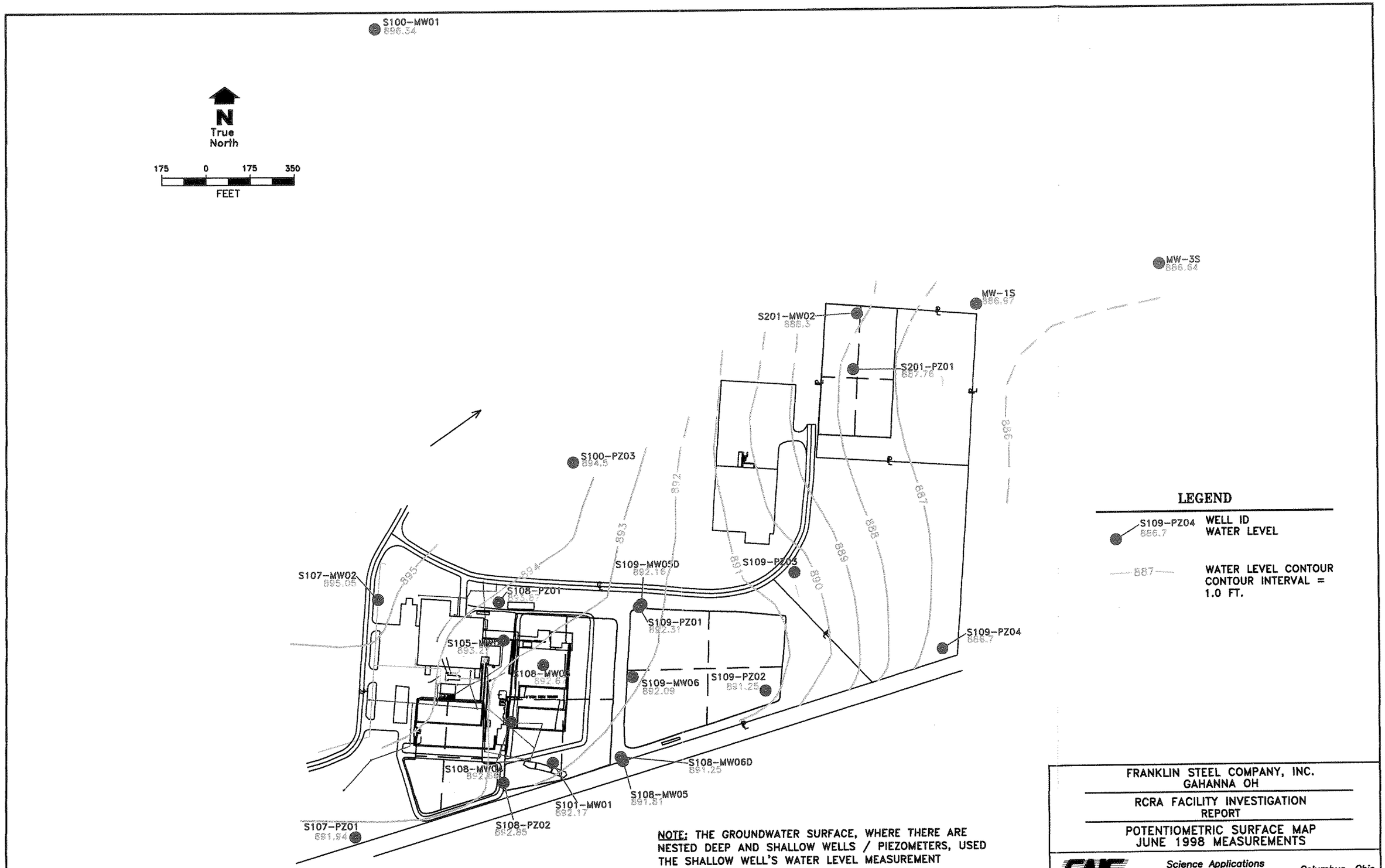

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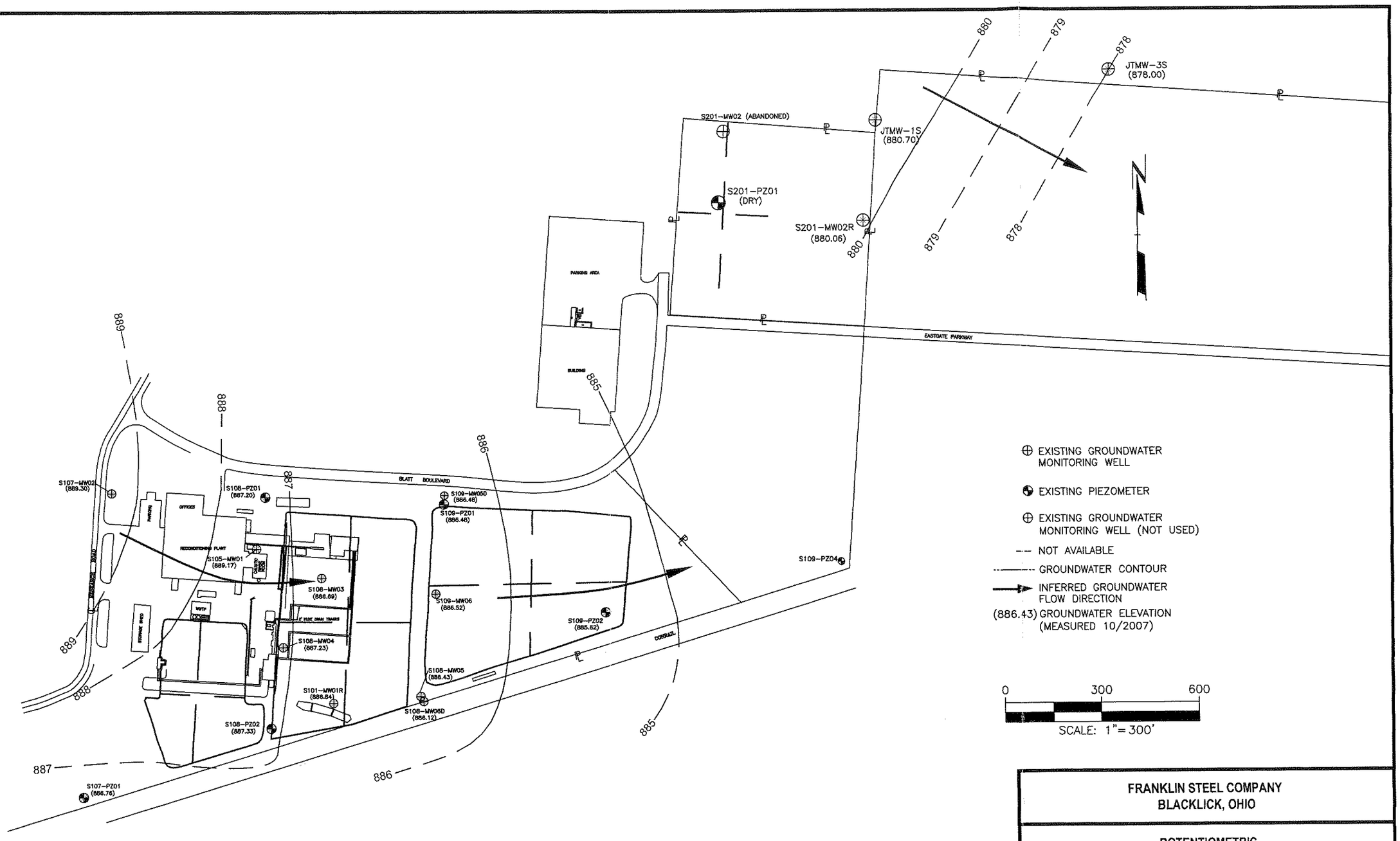

FRANKLIN STEEL COMPANY
BLACKLICK, OHIO

POTENTIOMETRIC SURFACE MAP

DRAWN BY:	QR	PROJECT NUMBER:	J:\06771
CHECKED BY:	ML	FILE NUMBER:	01.dwg
APPROVED BY:	ML	DATE:	June 2008
DRAWING SCALE:	SHOWN	FIGURE NO.	**FIGURE 2.8**

RMT
655 Metro Place South, Suite 750
Dublin, Ohio 43017-5306
Phone: 614-793-0026 • Fax: 614-793-0151

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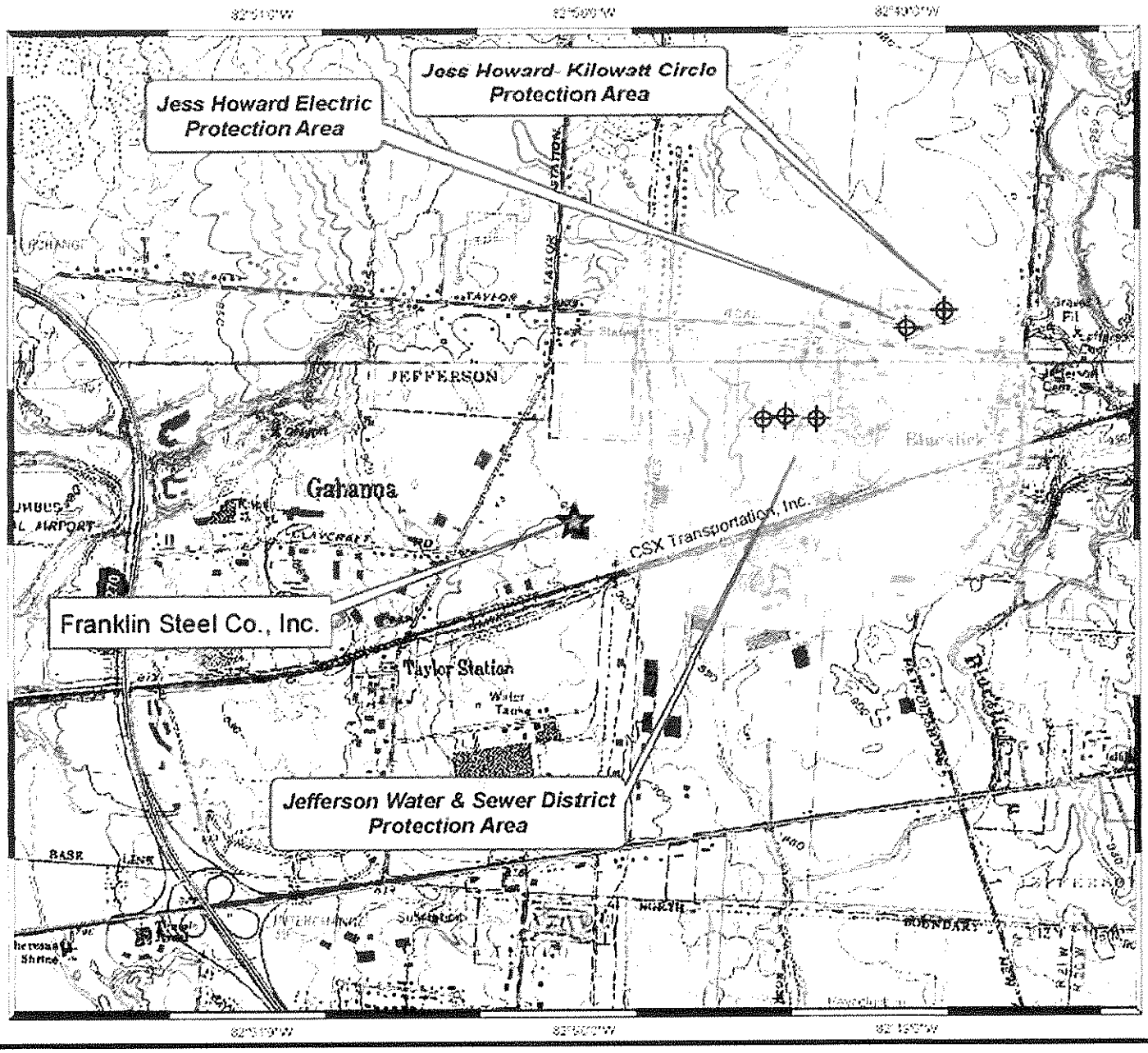

LEGEND

PWS WELLS - ACTIVE

DRINKING WATER SOURCE PROTECTION AREAS (GROUND WATER)

TYPE OF SOURCE WATER AREA

INNER MANAGEMENT ZONE (1-YEAR TIME OF TRAVEL)

DRINKING WATER SOURCE PROTECTION AREA (5-YEAR TIME OF TRAVEL)

QUADRANGLE LOCATIONS

N

0 2000' 4000'

APPROXIMATE SCALE IN FEET

RMT

655 Metro Place S., Ste. 750
Dublin, Ohio 43017
Phone: 614-793-0026
Fax: 614-793-0151

FRANKLIN STEEL COMPANY
REYNOLDSBURG, OHIO

DRINKING WATER SOURCE PROTECTION AREAS

DRAWN BY:	QR
CHECKED BY:	LS
APPROVED BY:	LS
PROJECT NUMBER:	J:\06771\51
FILE NUMBER:	6771.51.04.dwg
DATE:	June 2008

FIGURE 4.0

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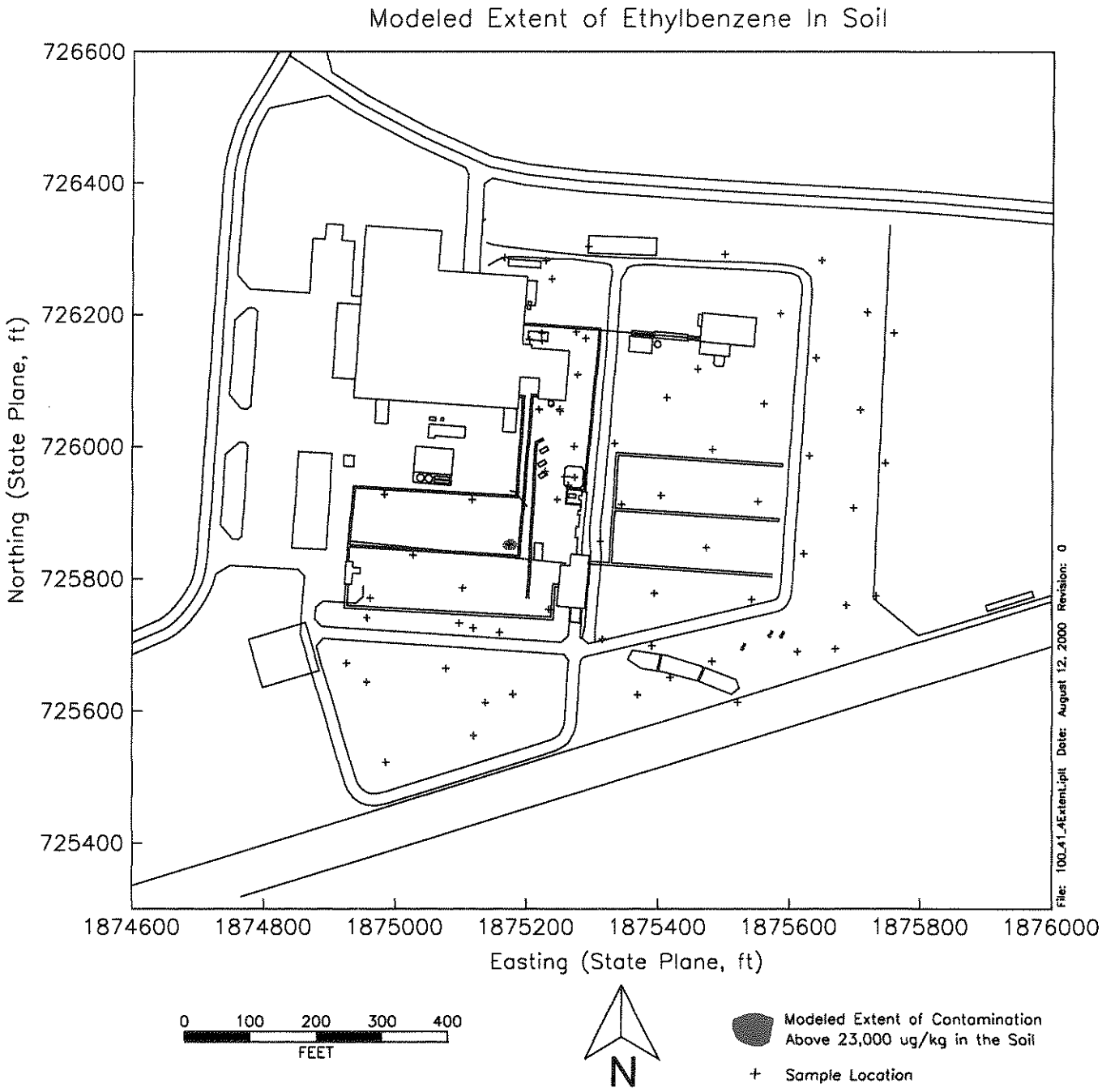


Figure 5.1: Modeled Extent of Ethylbenzene in Soil

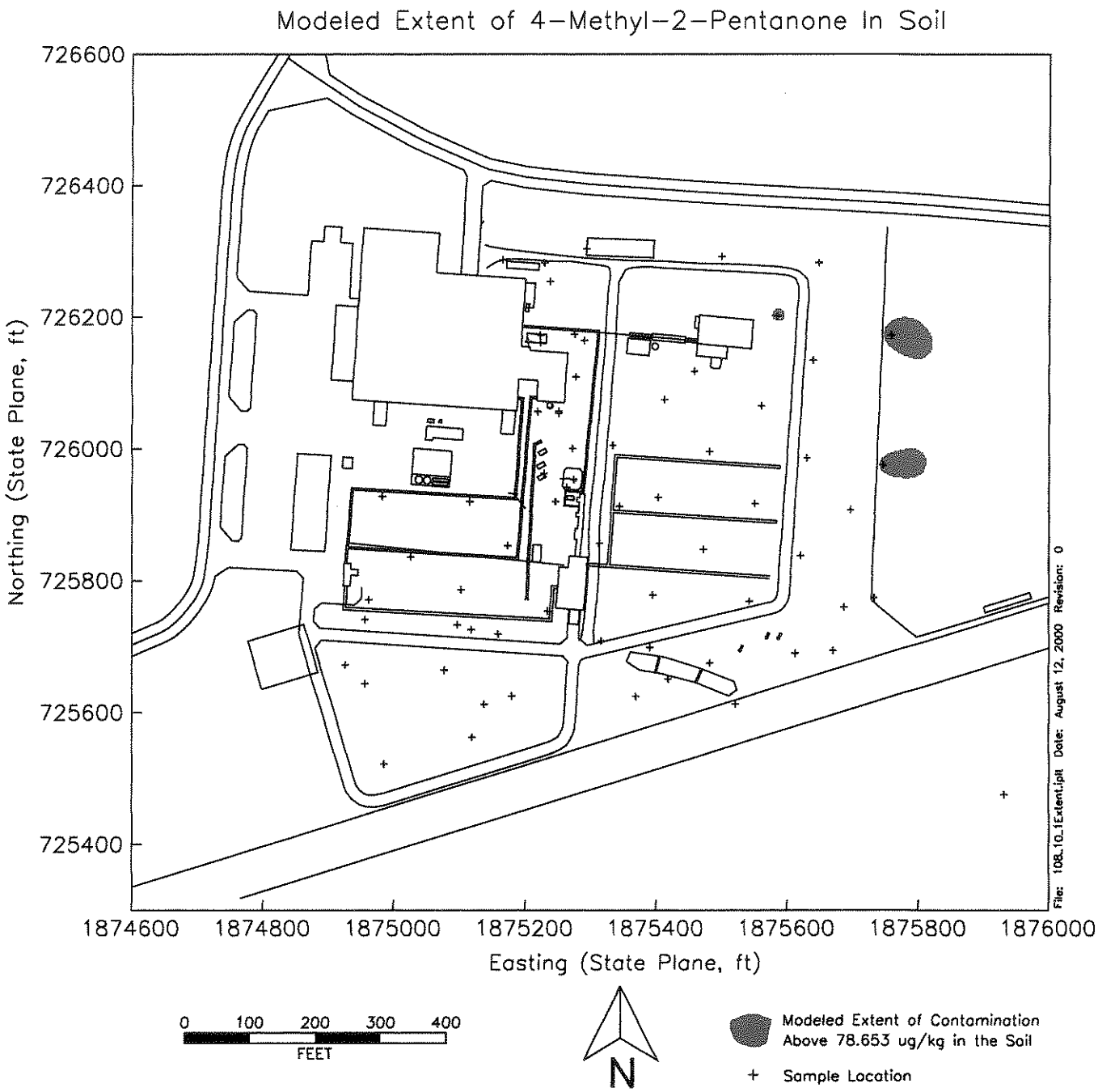


Figure 5.2: Modeled Extent of 4-Methyl-2-Pentanone in Soil

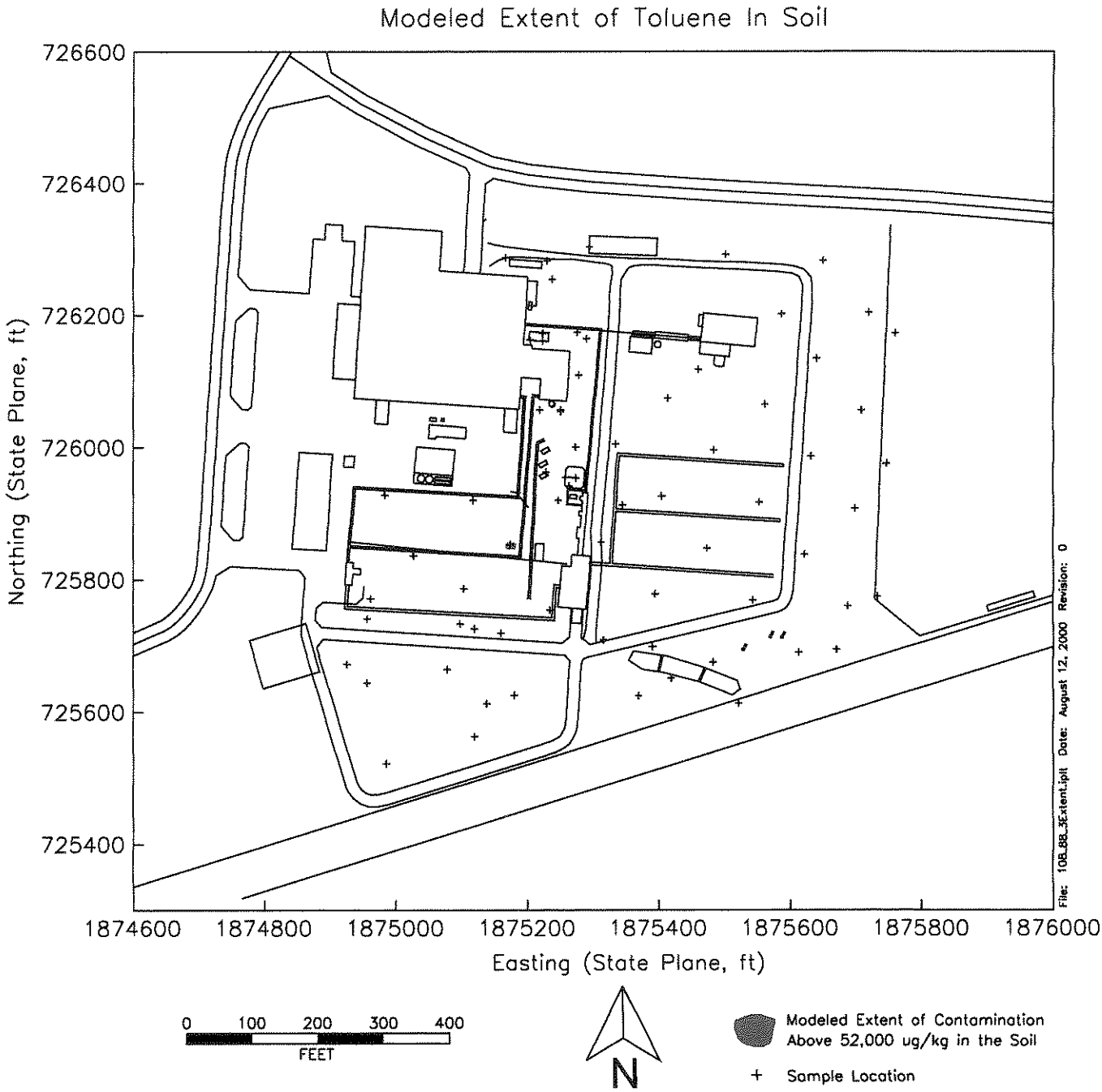


Figure 5.3: Modeled Extent of Toluene in Soil

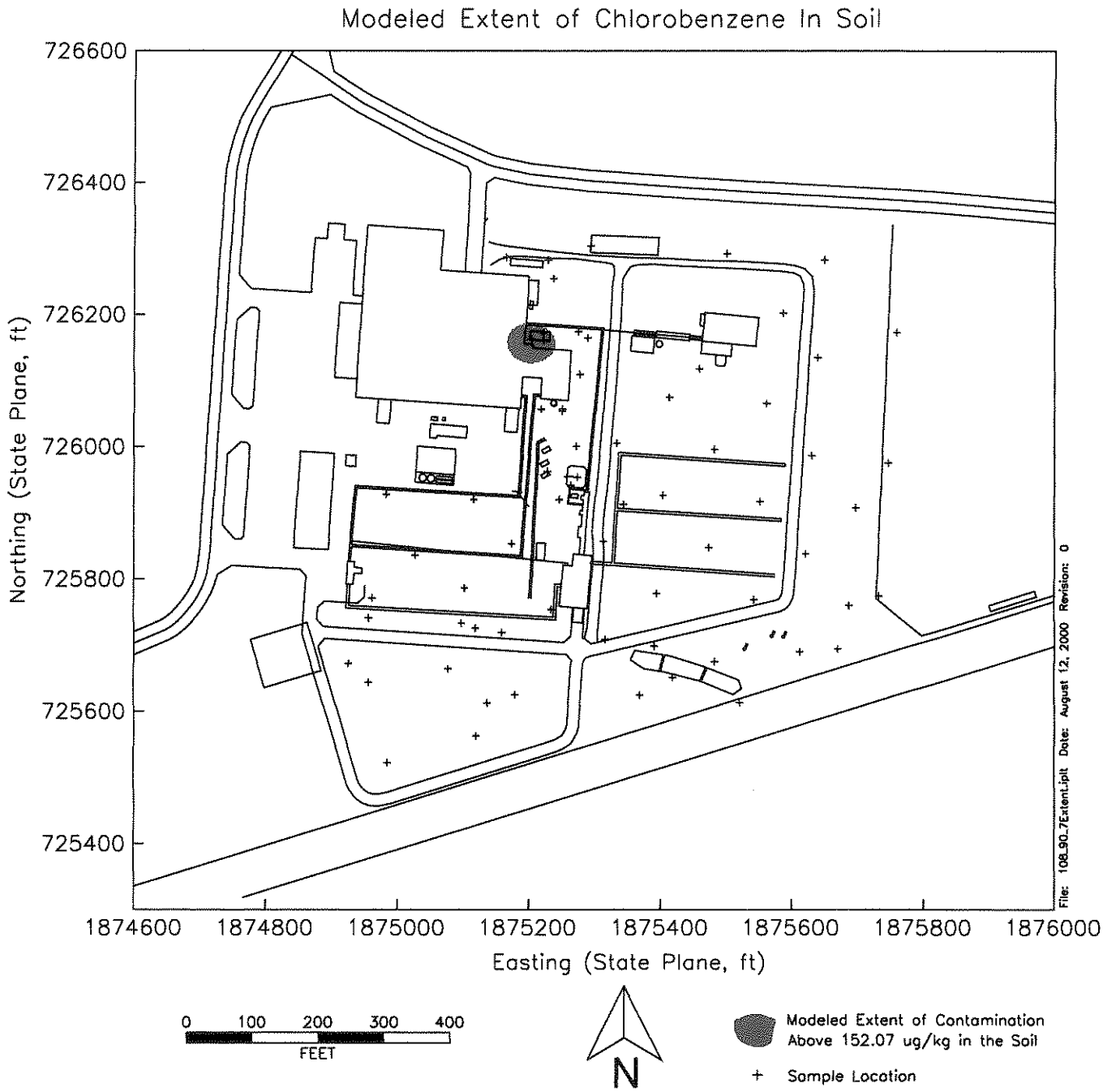


Figure 5.4: Modeled Extent of Chlorobenzene in Soil

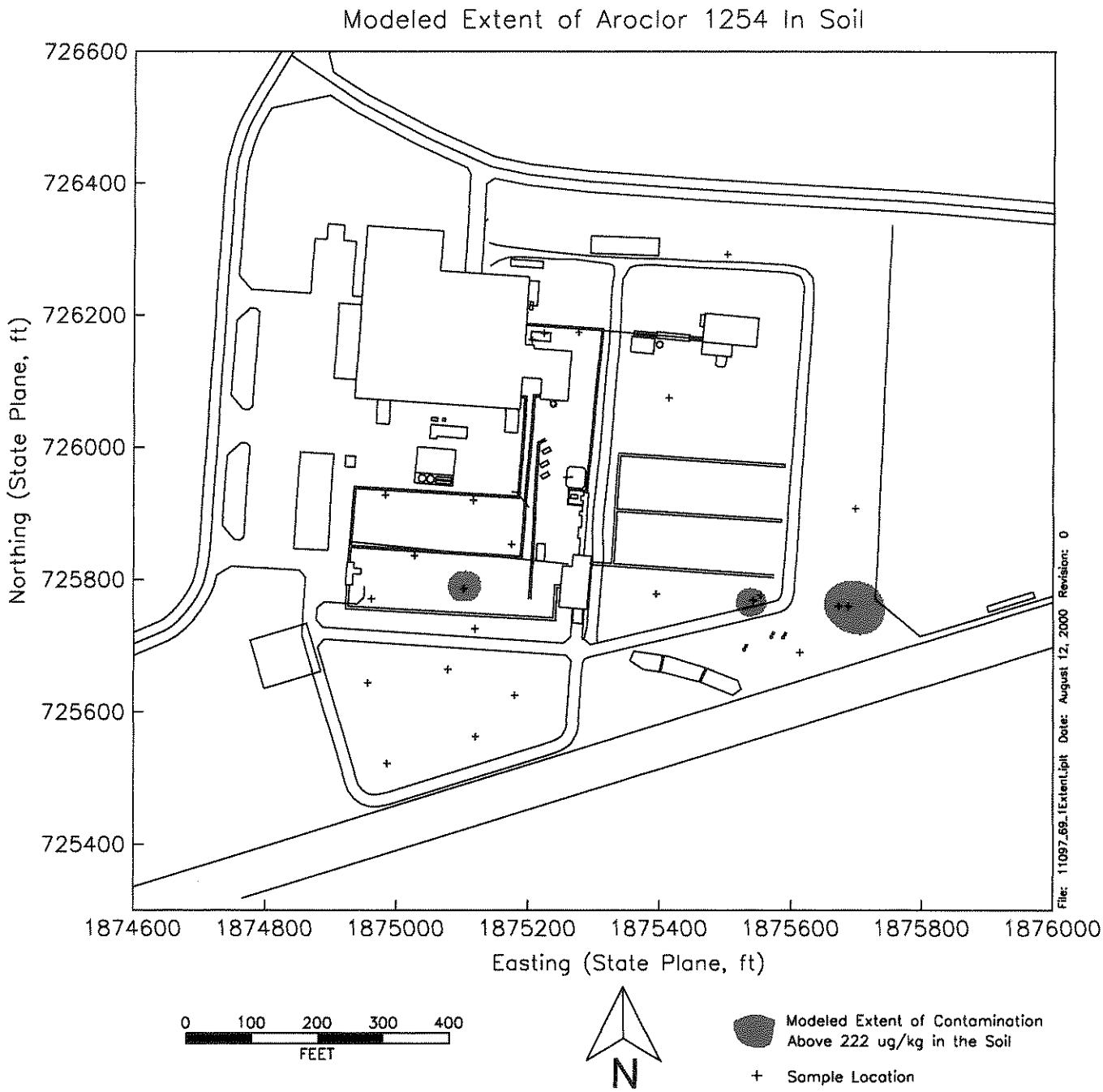


Figure 5.5: Modeled Extent of Aroclor 1254 in Soil

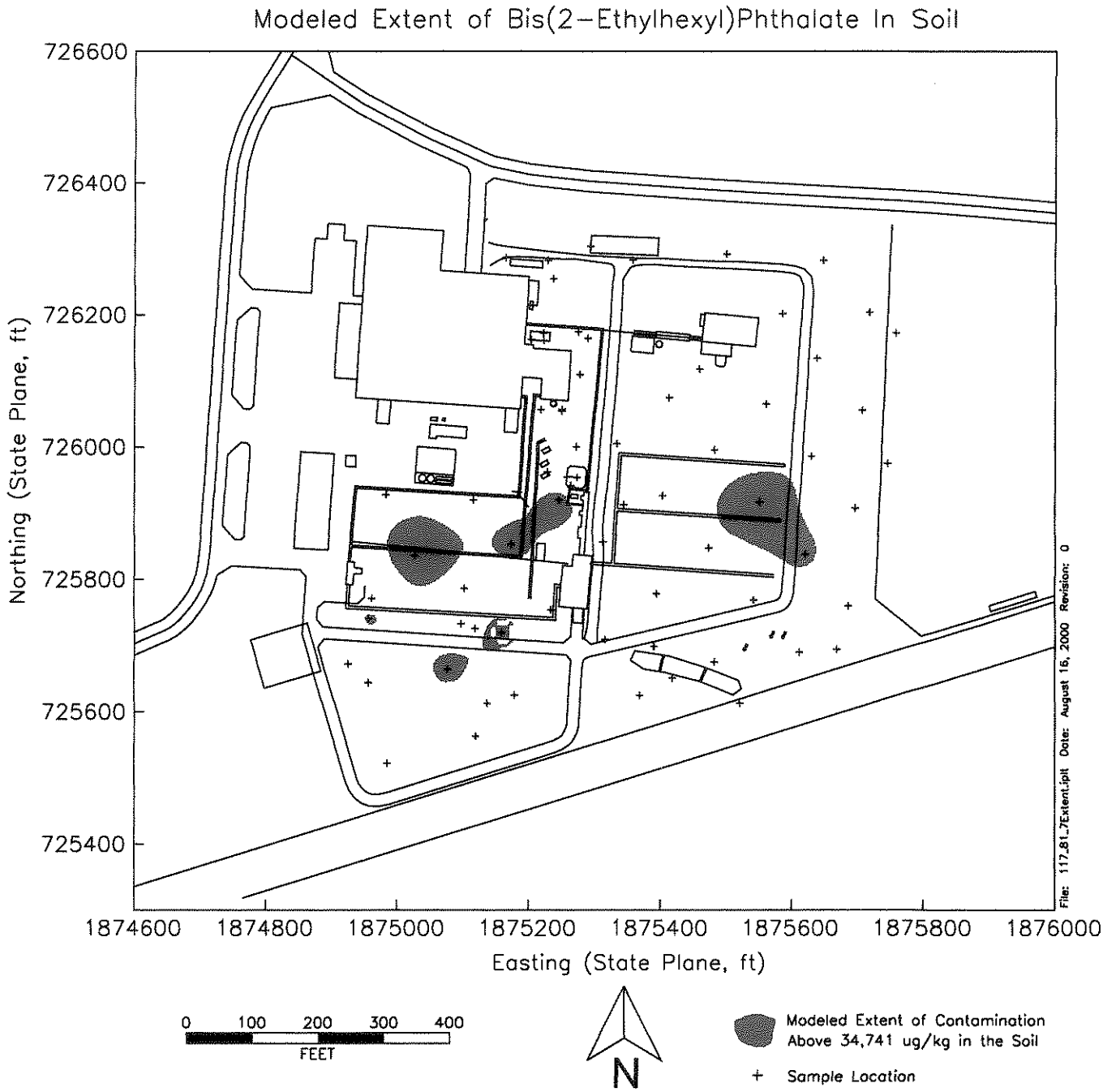


Figure 5.6: Modeled Extent of Bis(2-Ethylhexyl)Phthalate in Soil

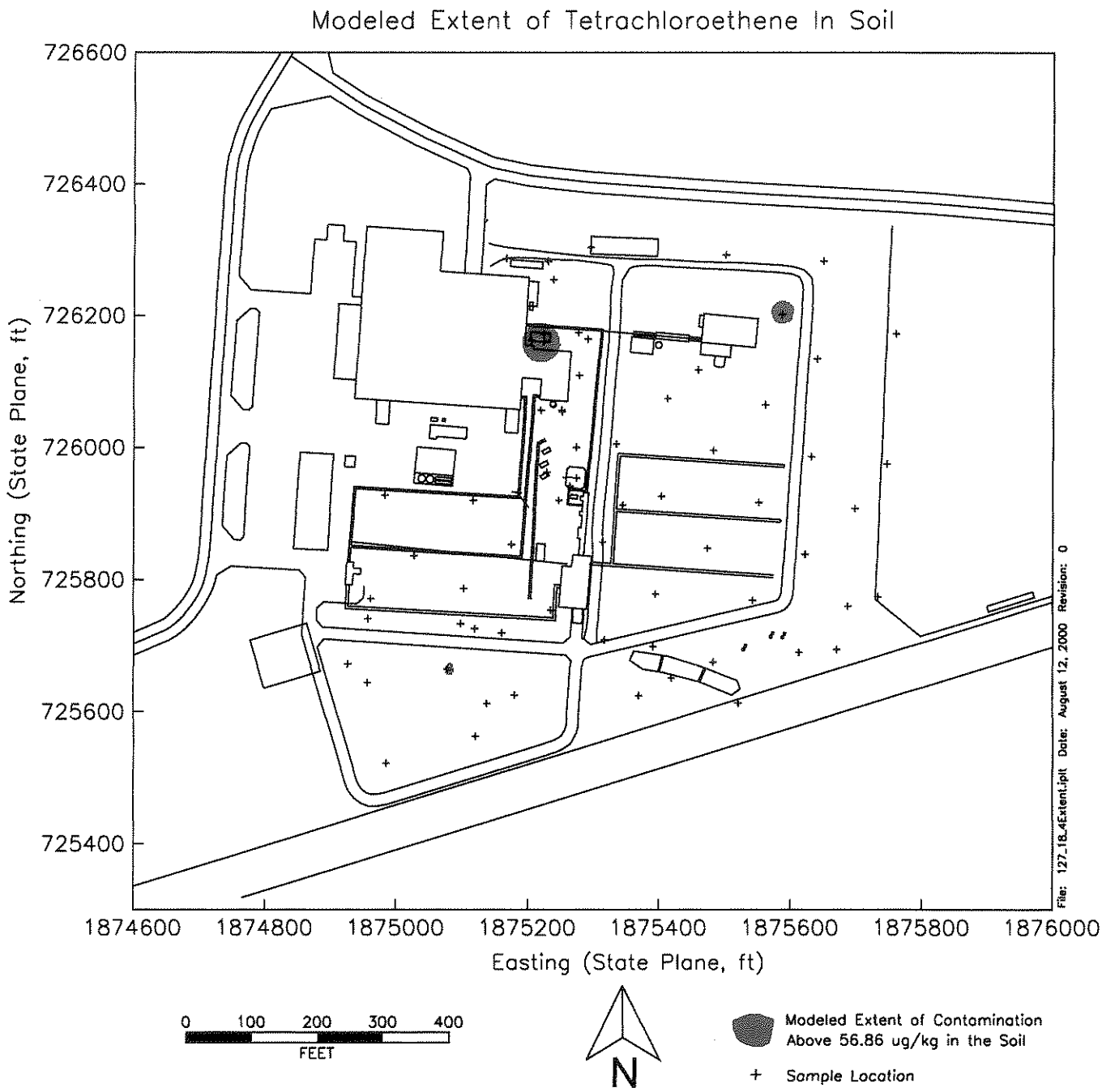


Figure 5.7: Modeled Extent of Tetrachloroethene in Soil

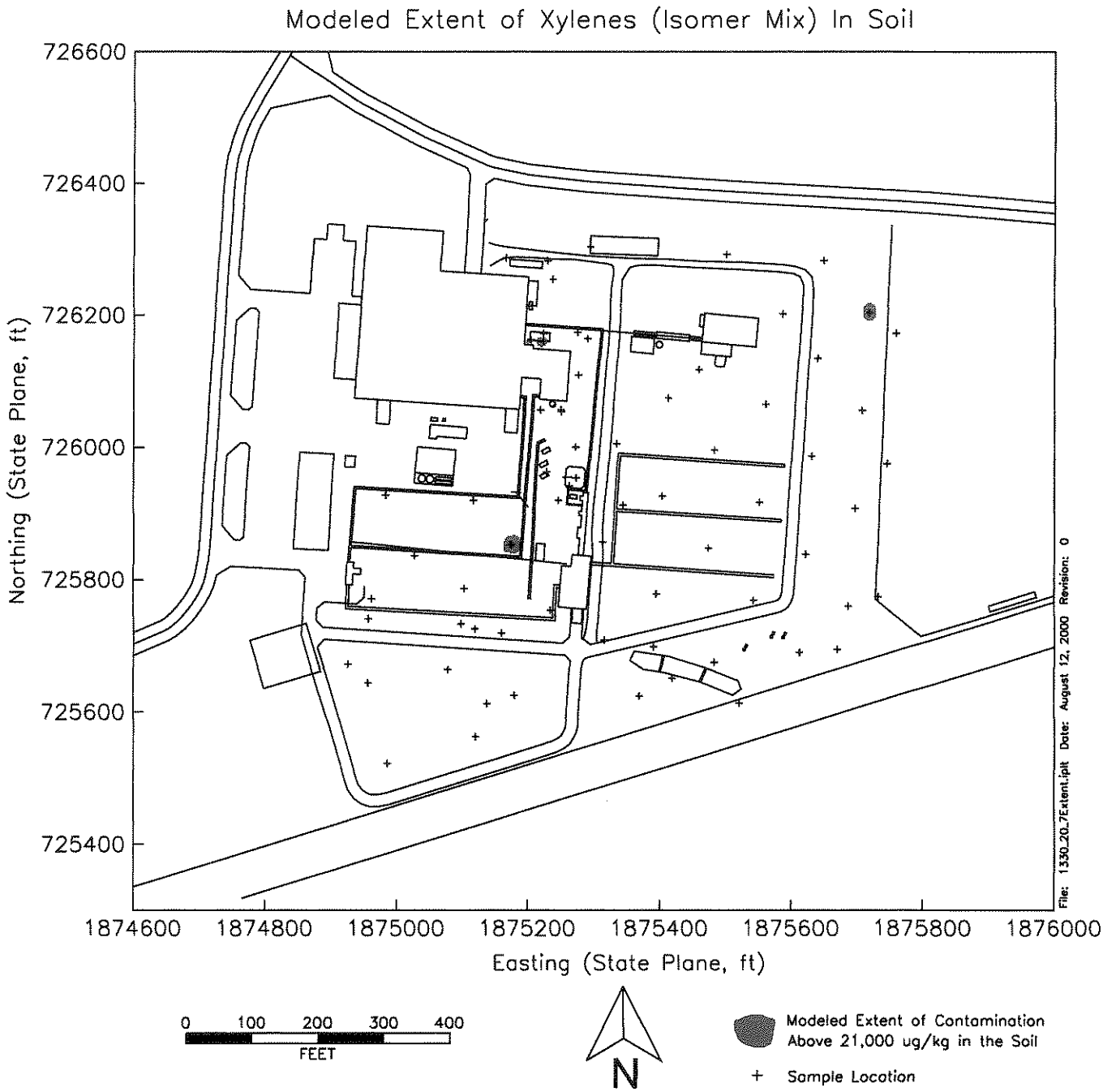


Figure 5.8: Modeled Extent of Xylenes (Isomer Mix) in Soil

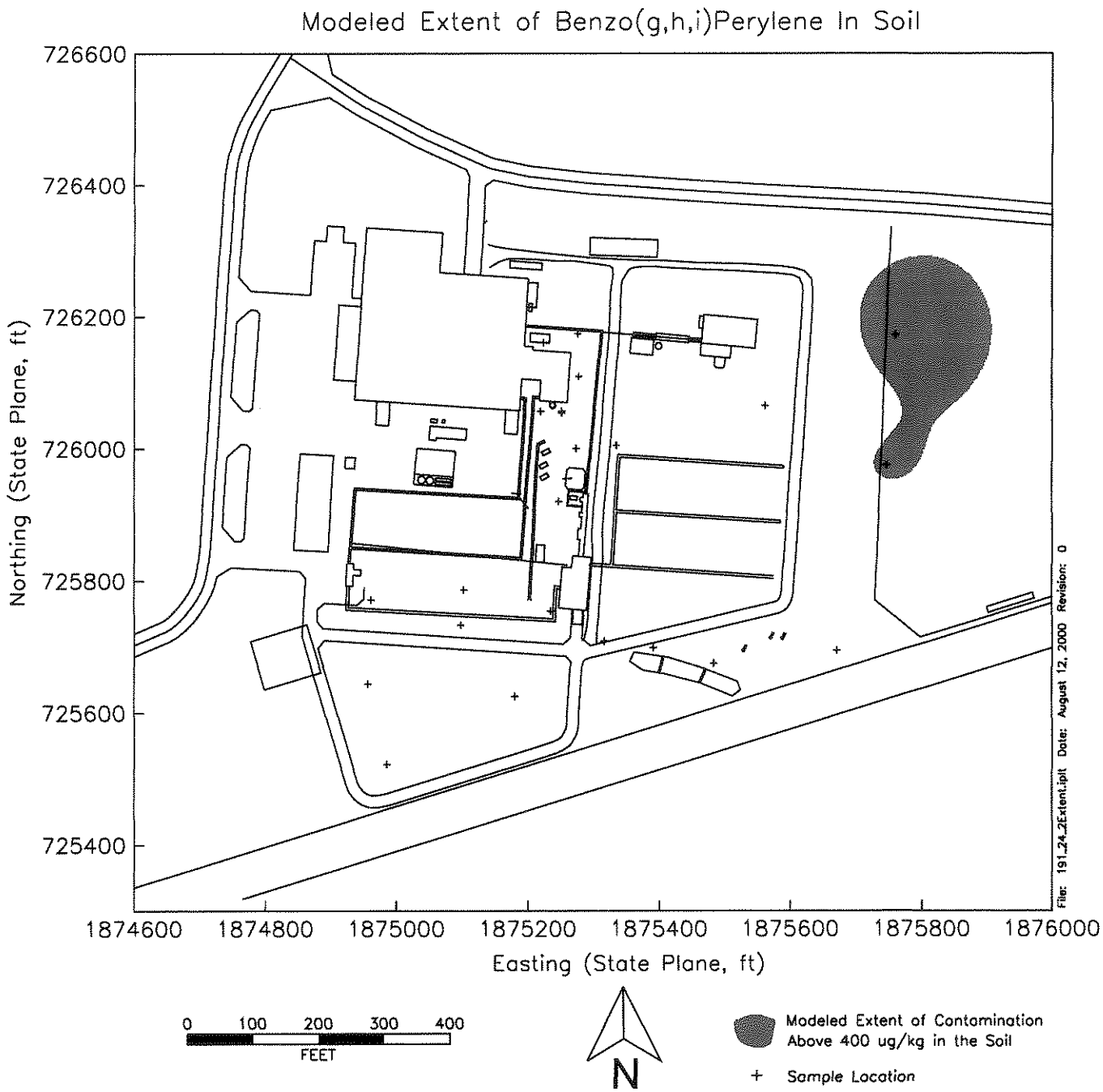


Figure 5.9: Modeled Extent of Benzo(g,h,i)Perylene in Soil

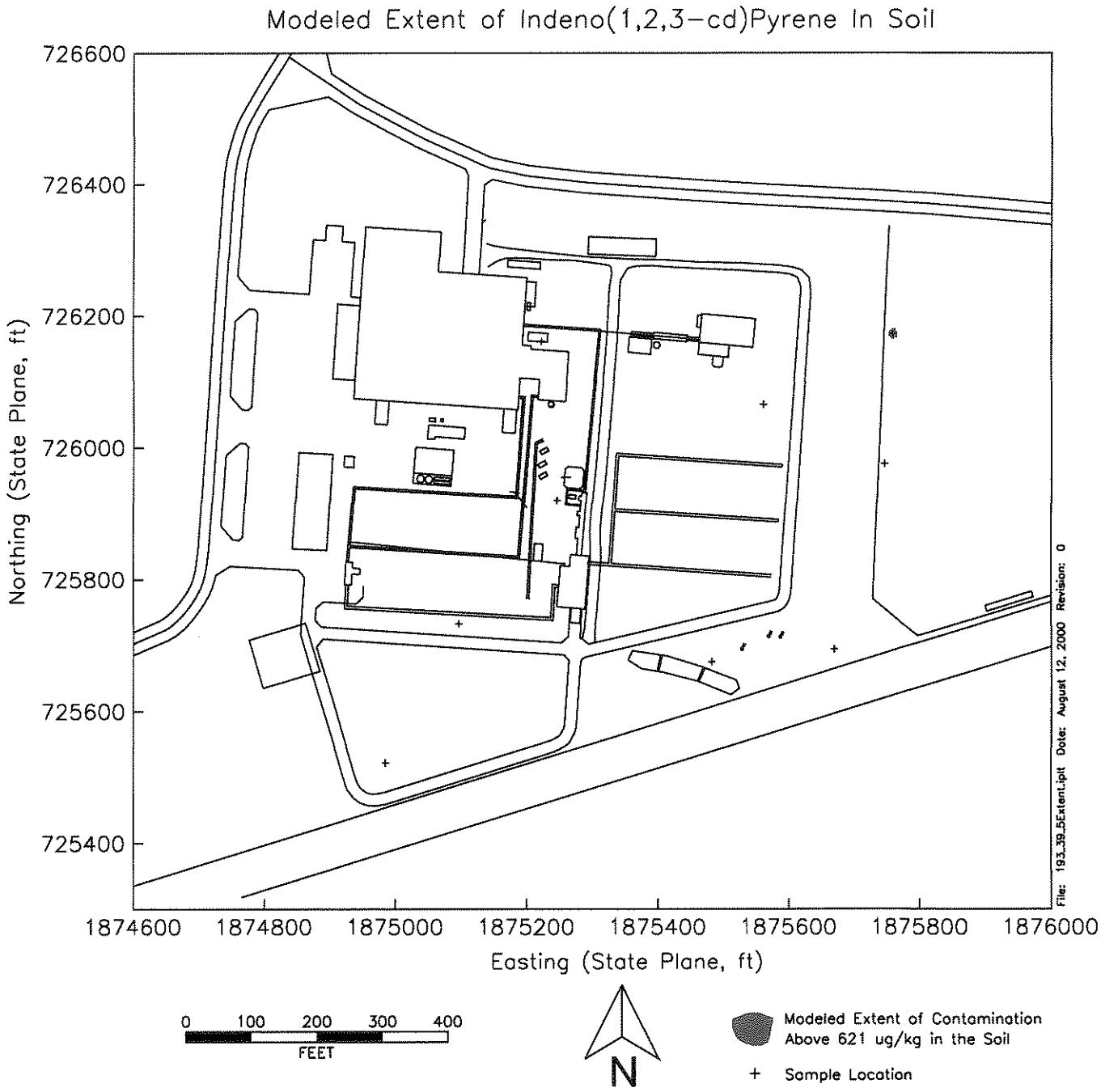


Figure 5.10: Modeled Extent of Indeno(1,2,3-cd)Pyrene in Soil

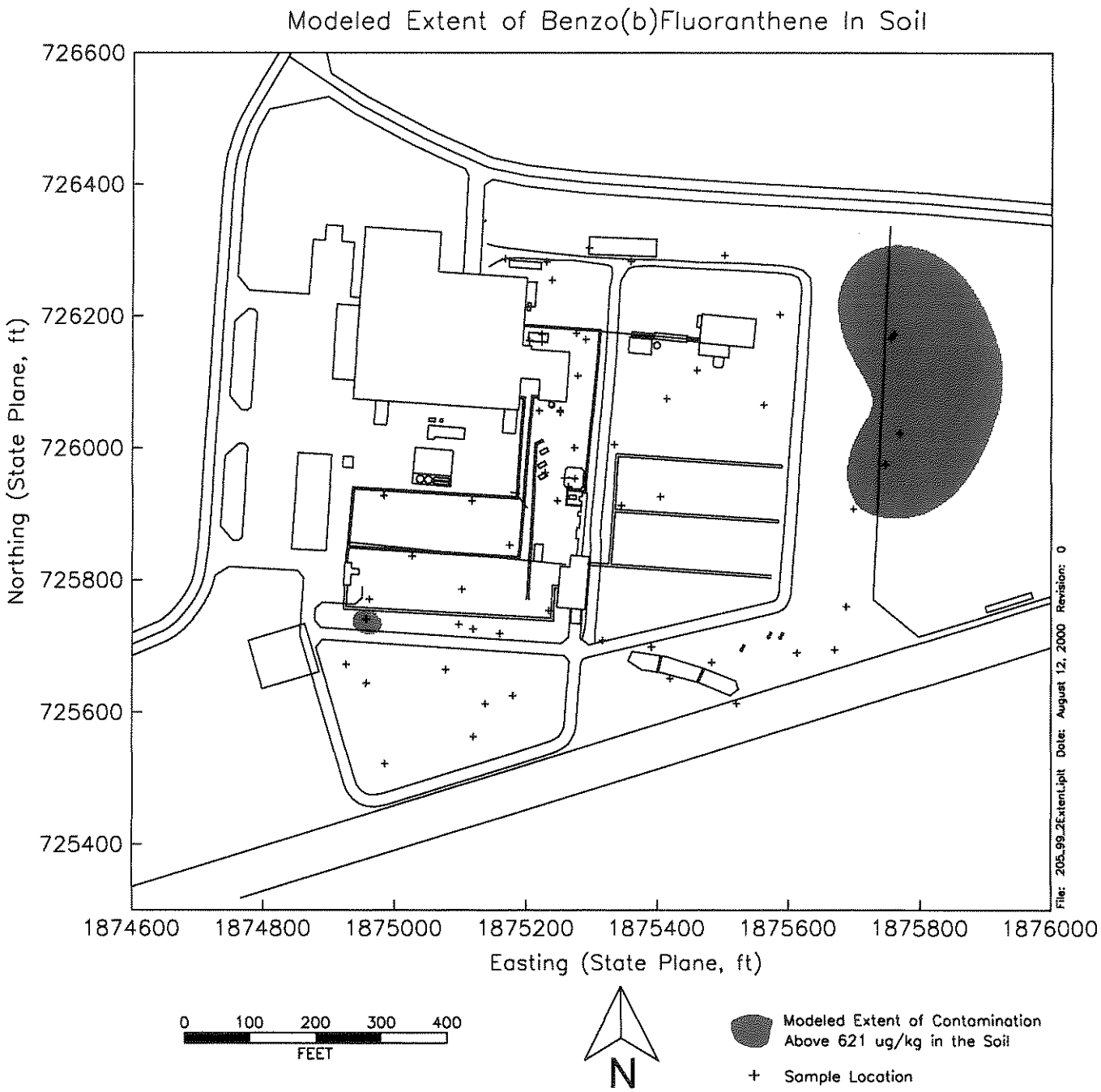


Figure 5.11: Modeled Extent of Benzo(b)Fluoranthene in Soil

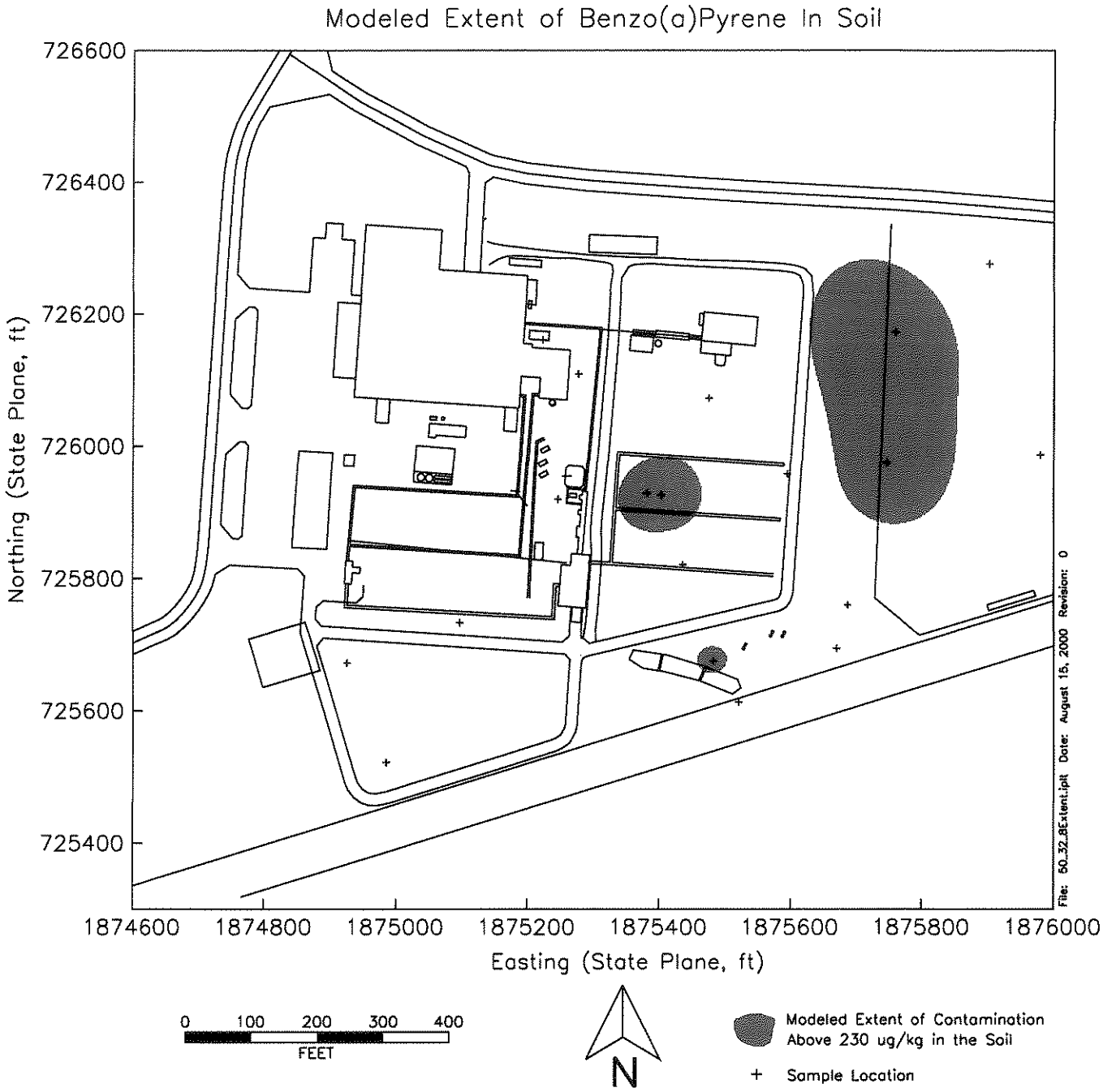


Figure 5.12: Modeled Extent of Benzo(a)Pyrene in Soil

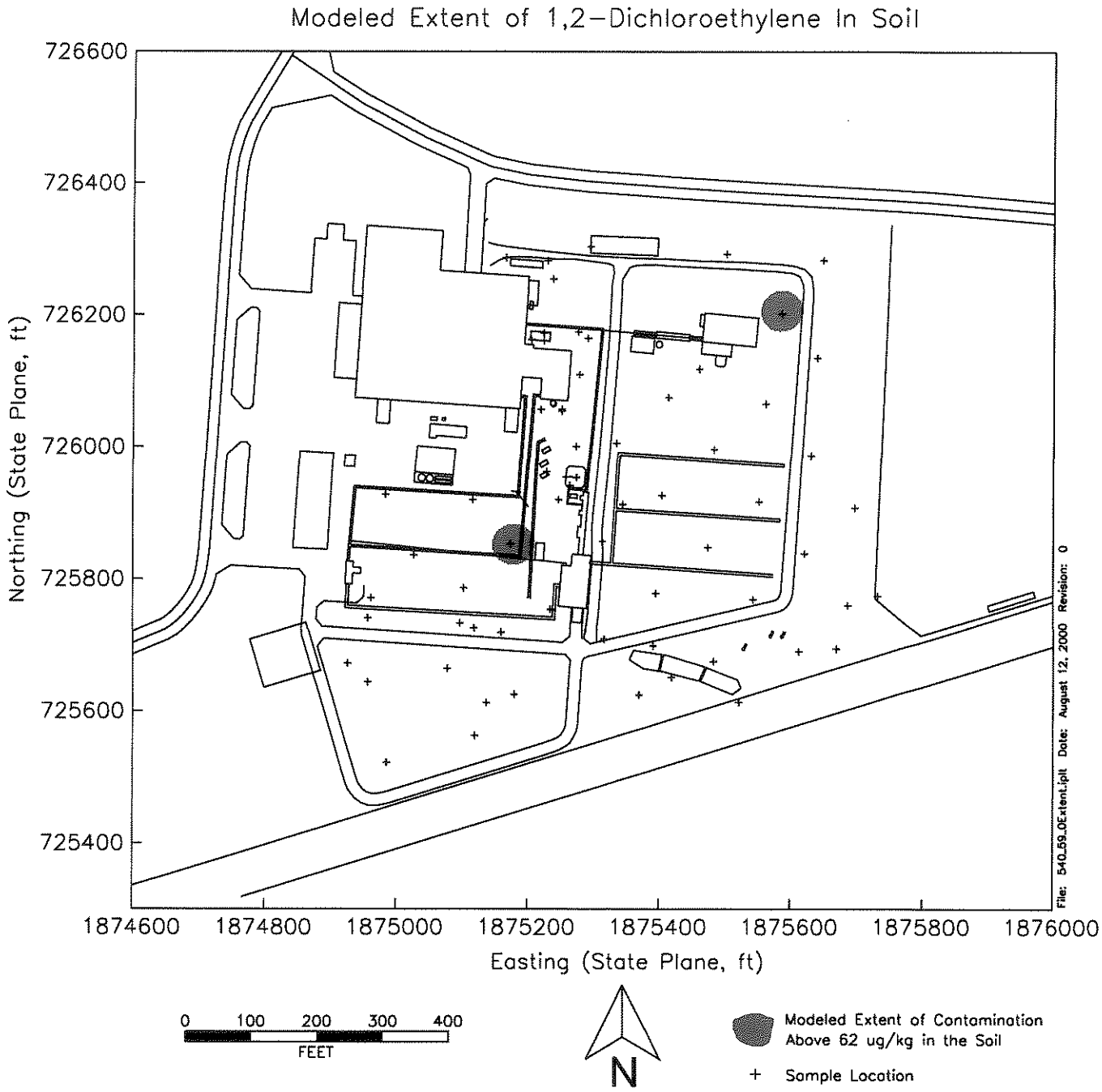


Figure 5.13: Modeled Extent of 1,2-Dichloroethylene in Soil

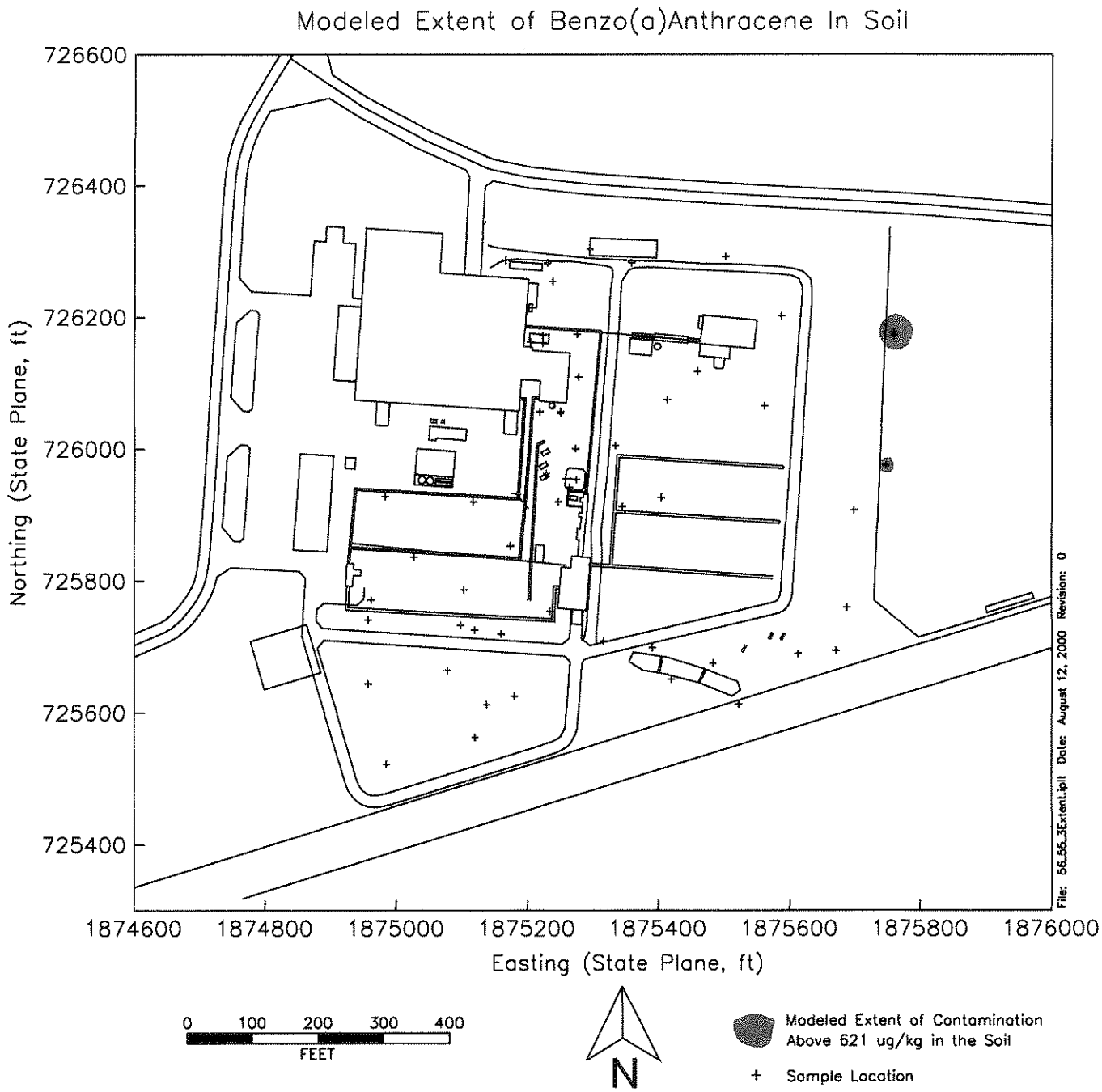


Figure 5.14: Modeled Extent of Benzo(a)Anthracene in Soil

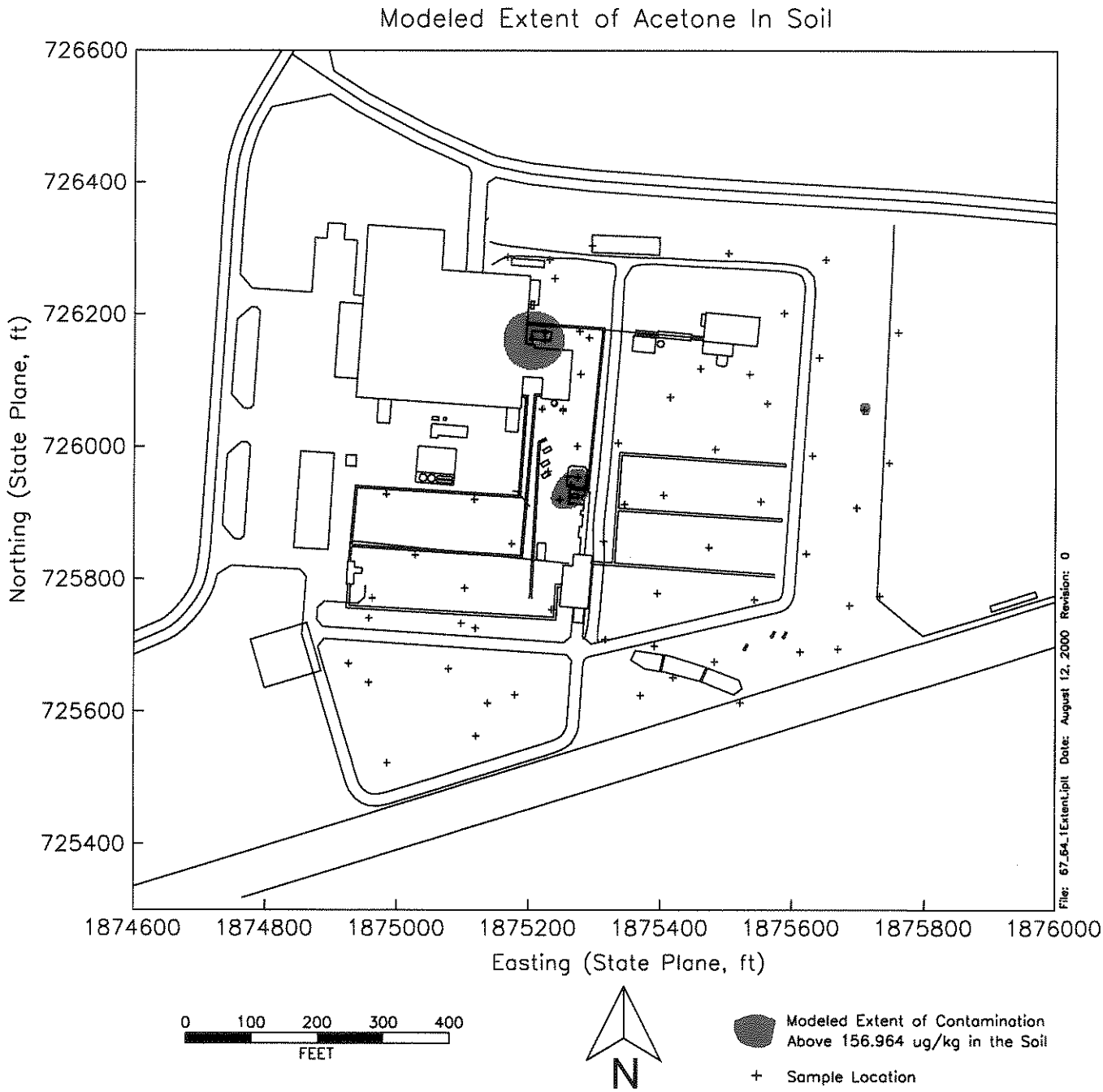


Figure 5.15: Modeled Extent of Acetone in Soil

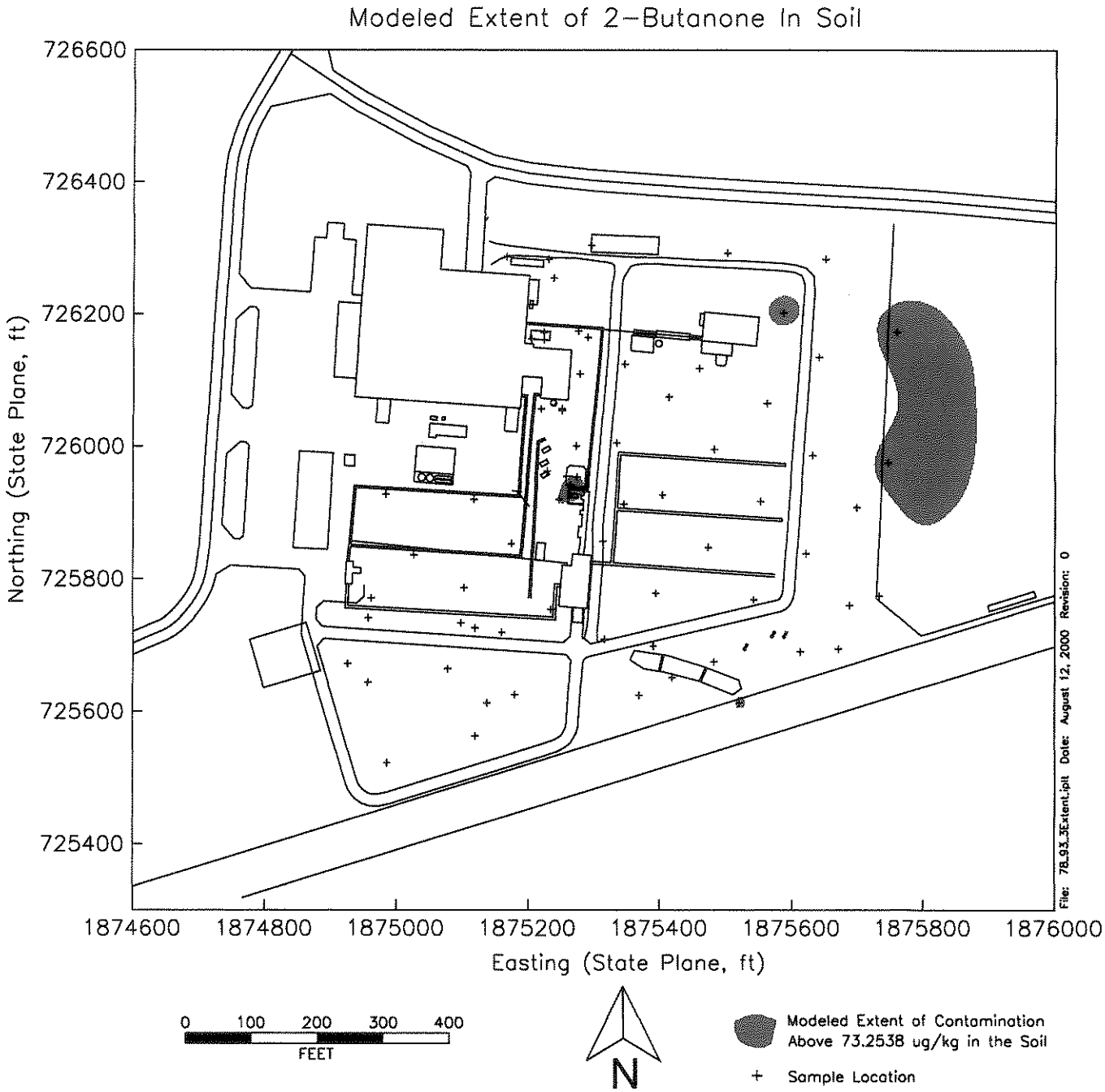


Figure 5.16: Modeled Extent of 2-Butanone in Soil

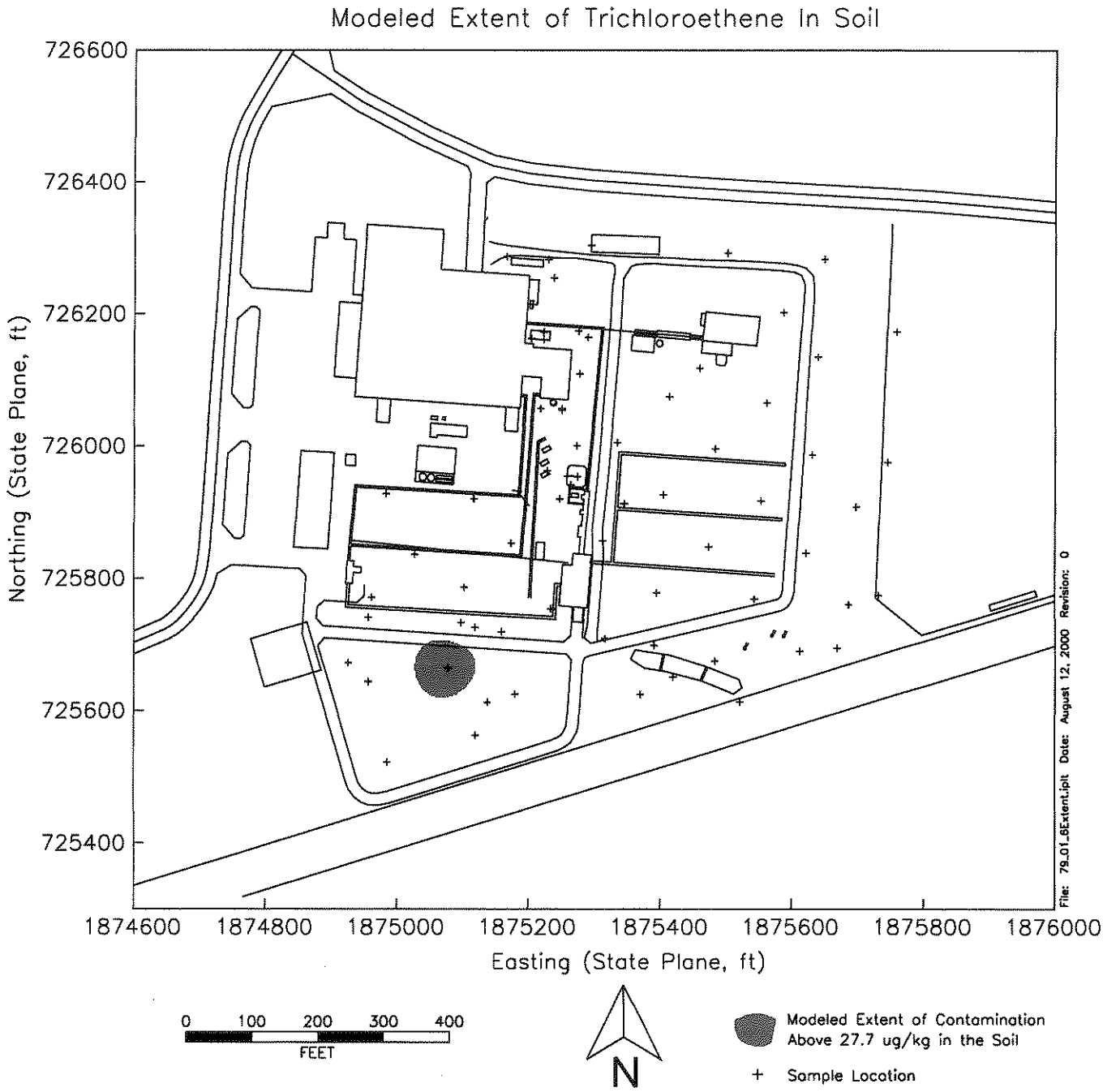


Figure 5.17: Modeled Extent of Trichloroethene in Soil

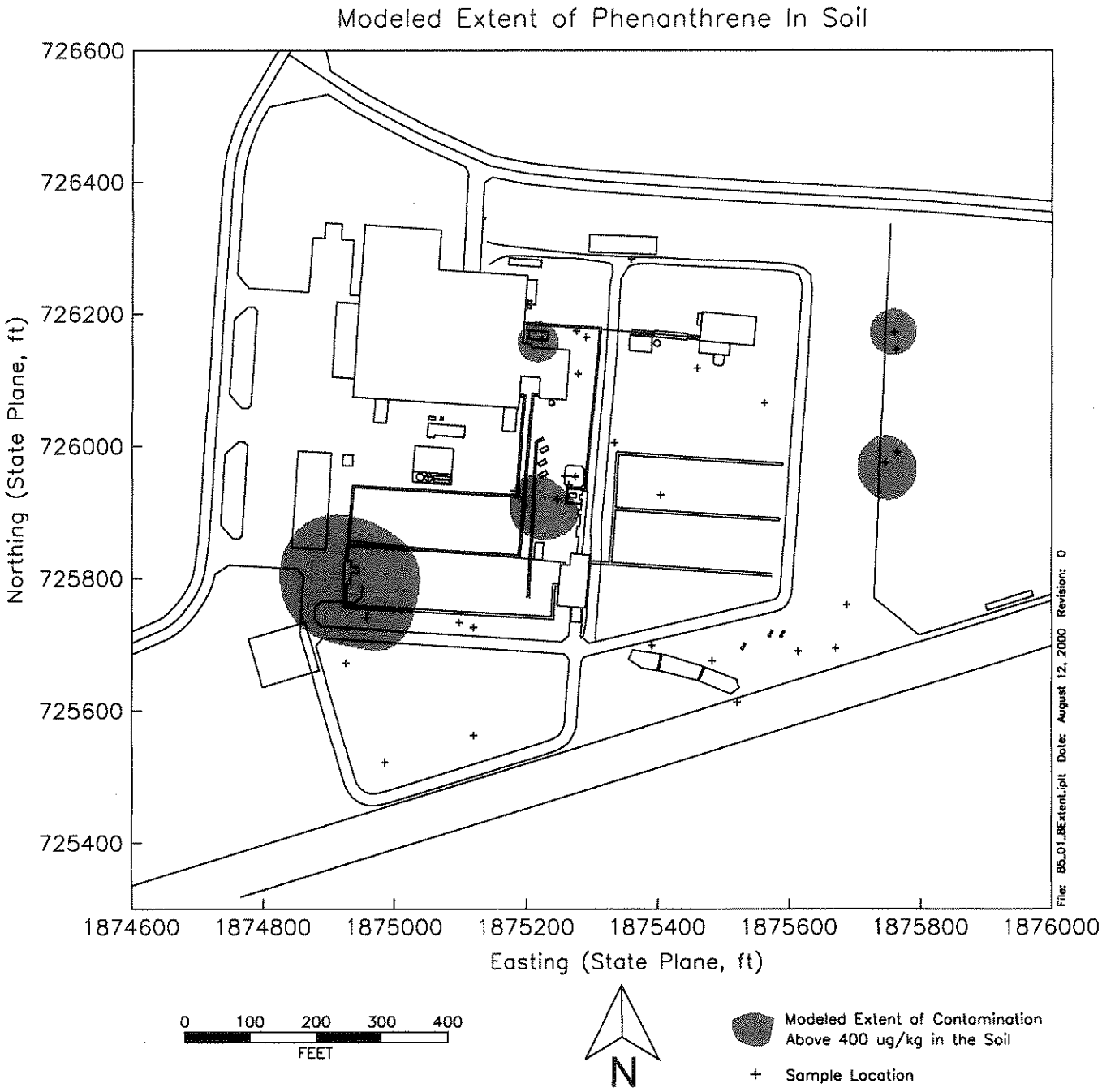


Figure 5.18: Modeled Extent of Phenanthrene in Soil

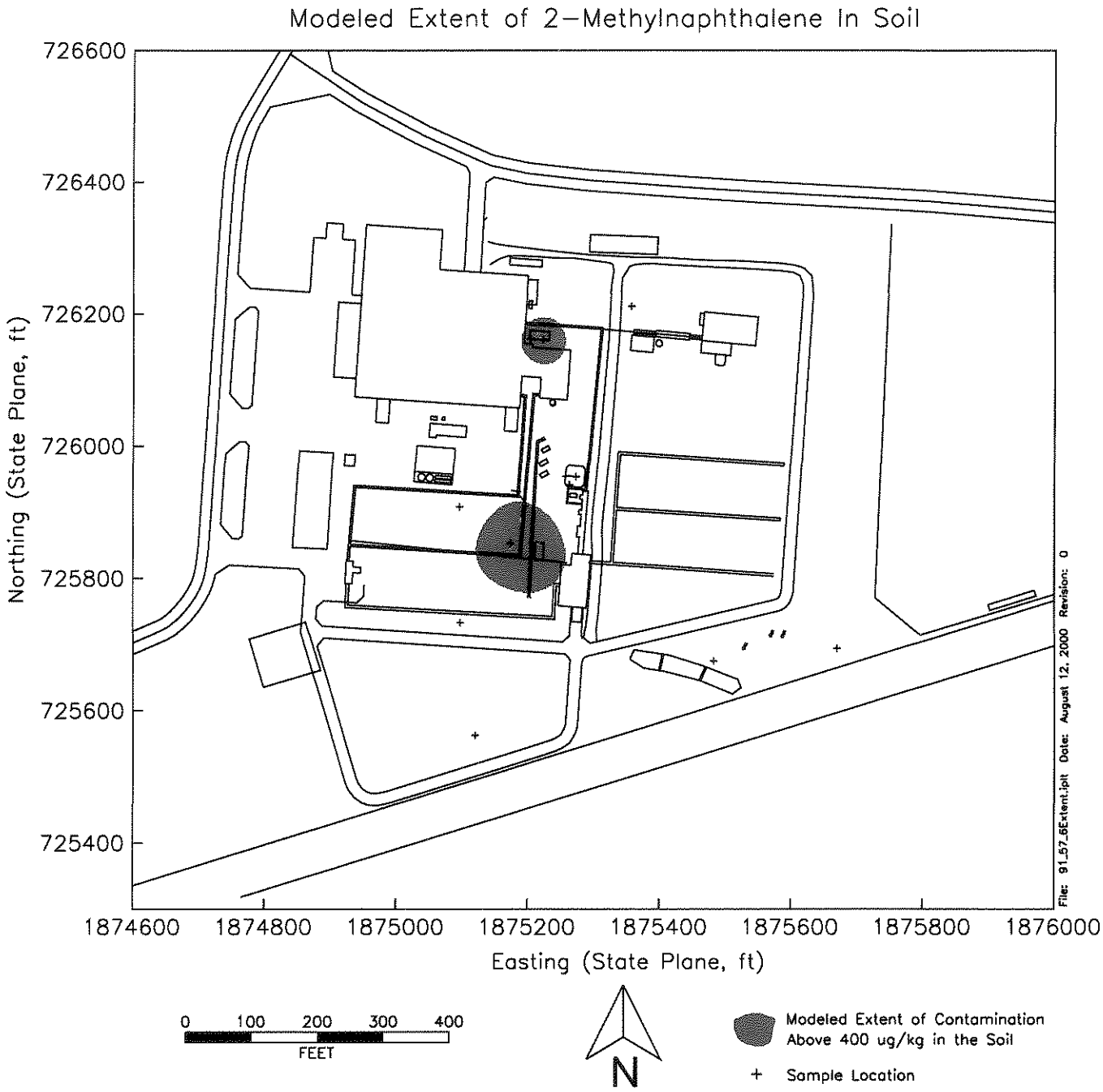


Figure 5.19: Modeled Extent of 2-Methylnaphthalene in Soil

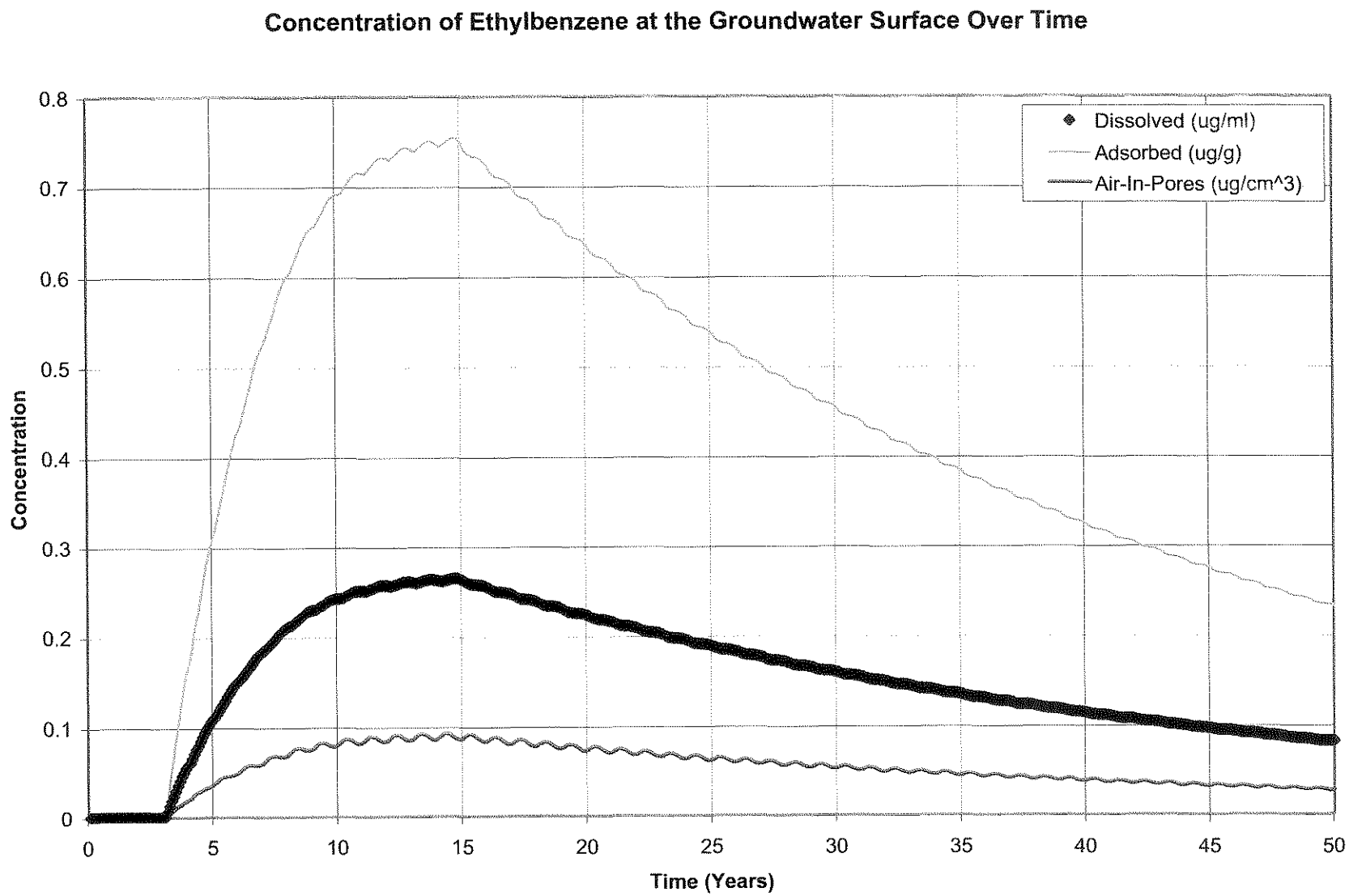


Figure 5.20: Concentration of Ethylbenzene at the Groundwater Surface Over Time

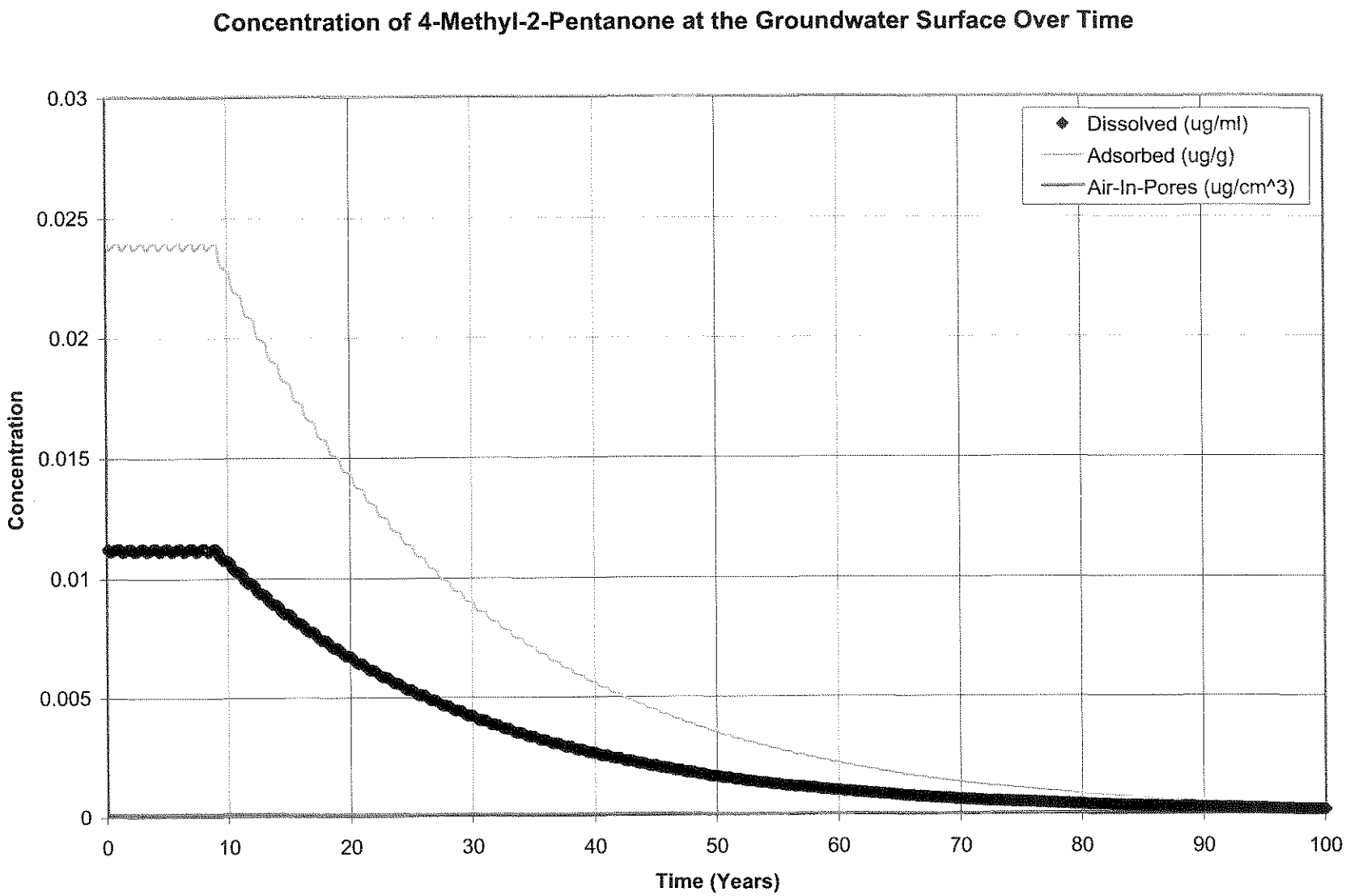


Figure 5.21: Concentration of 4-Methyl-2-Pentanone at the Groundwater Surface Over Time

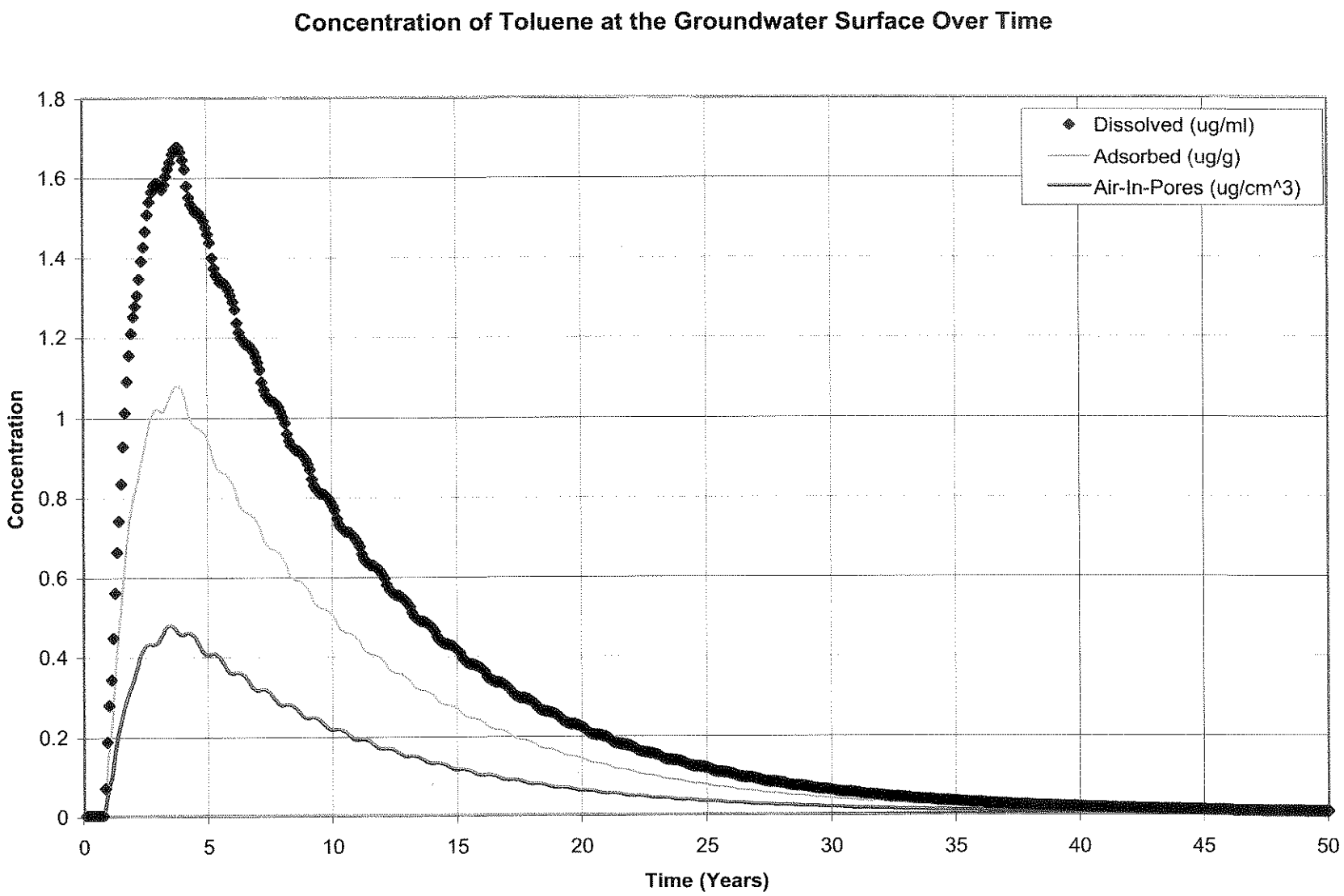


Figure 5.22: Concentration of Toluene at the Groundwater Surface Over Time

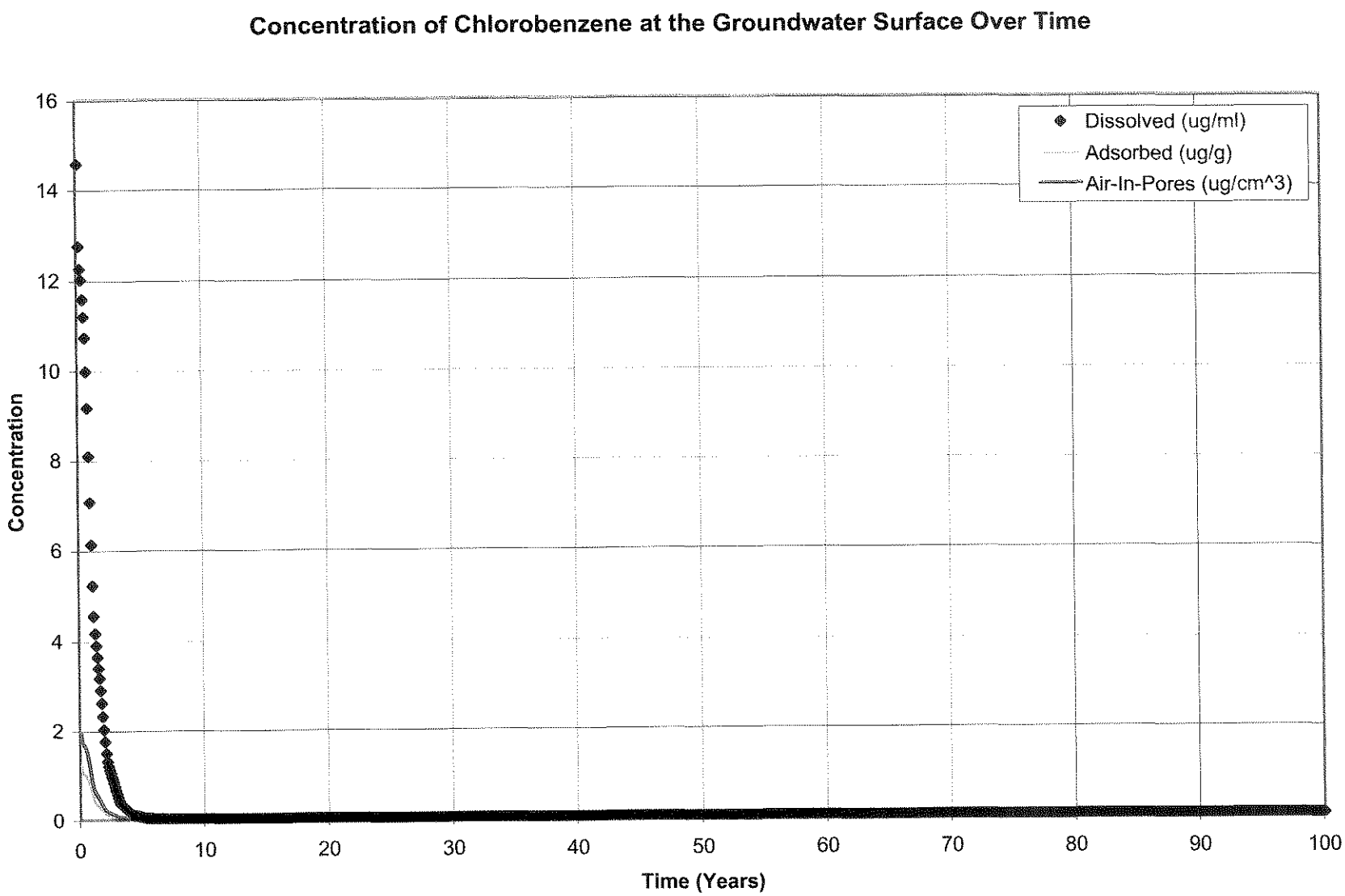


Figure 5.23: Concentration of Chlorobenzene at the Groundwater Surface Over Time

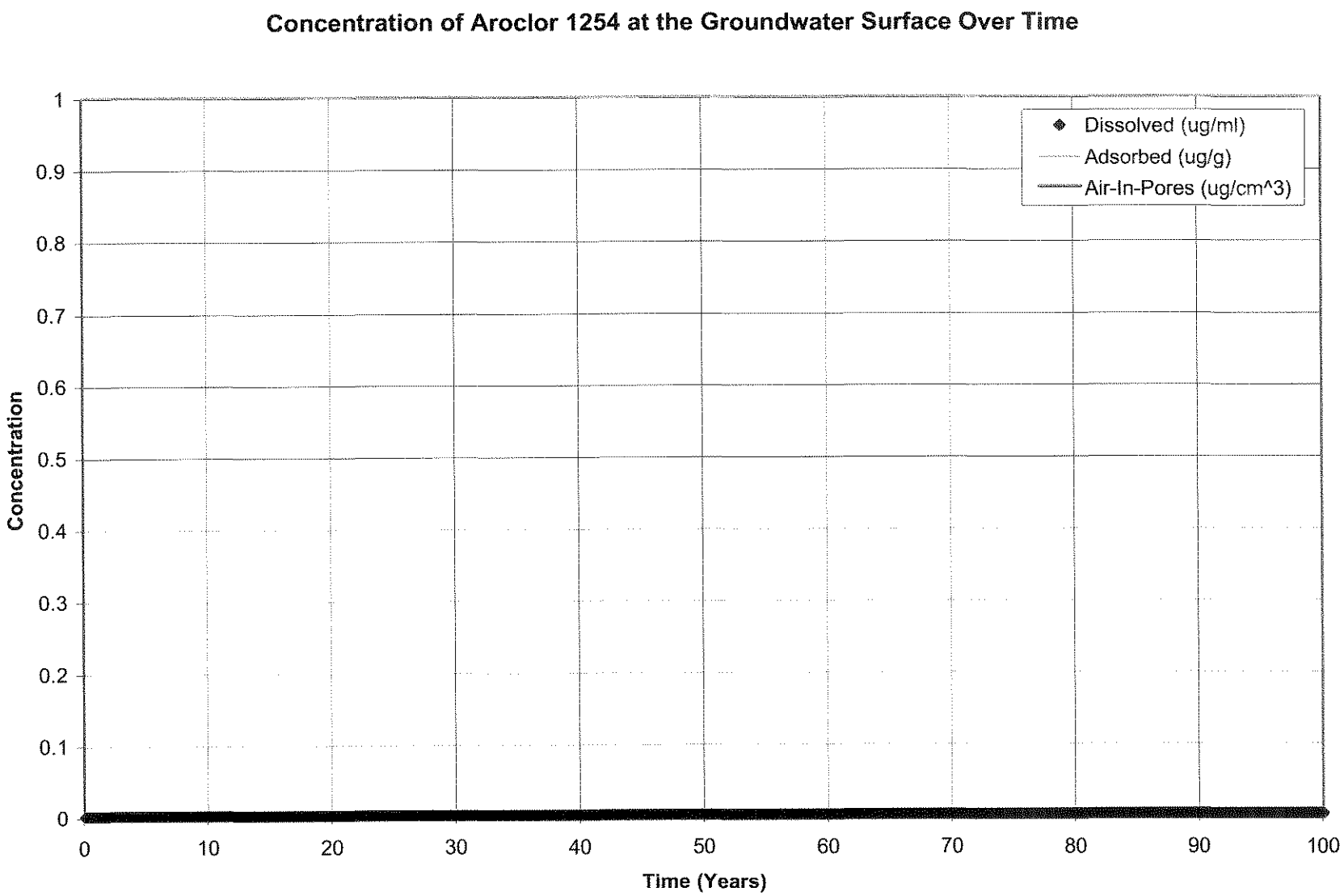


Figure 5.24: Concentration of Aroclor 1254 at the Groundwater Surface Over Time

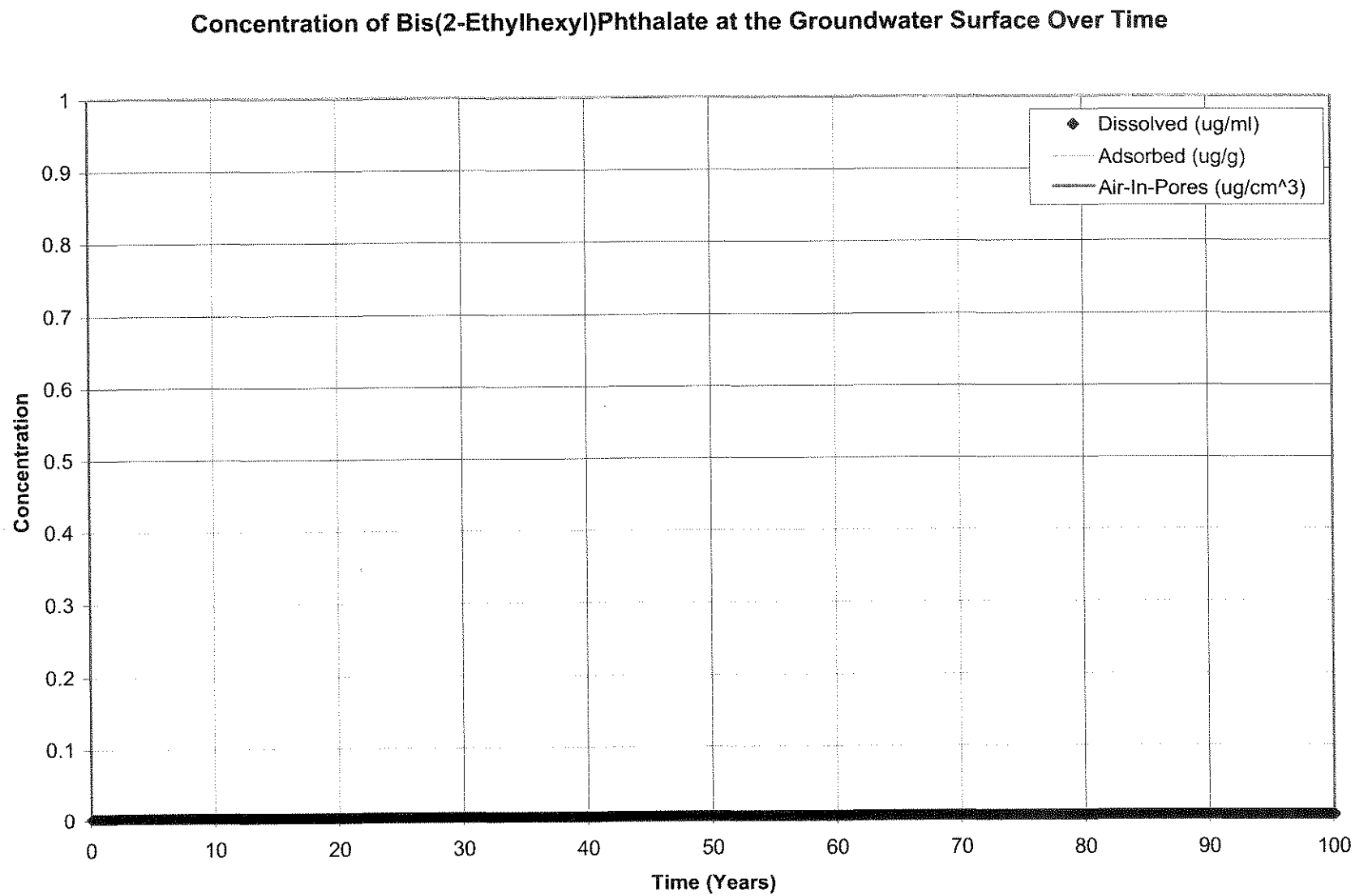


Figure 5.25: Concentration of Bis(2-Ethylhexyl)Phthalate at the Groundwater Surface Over Time

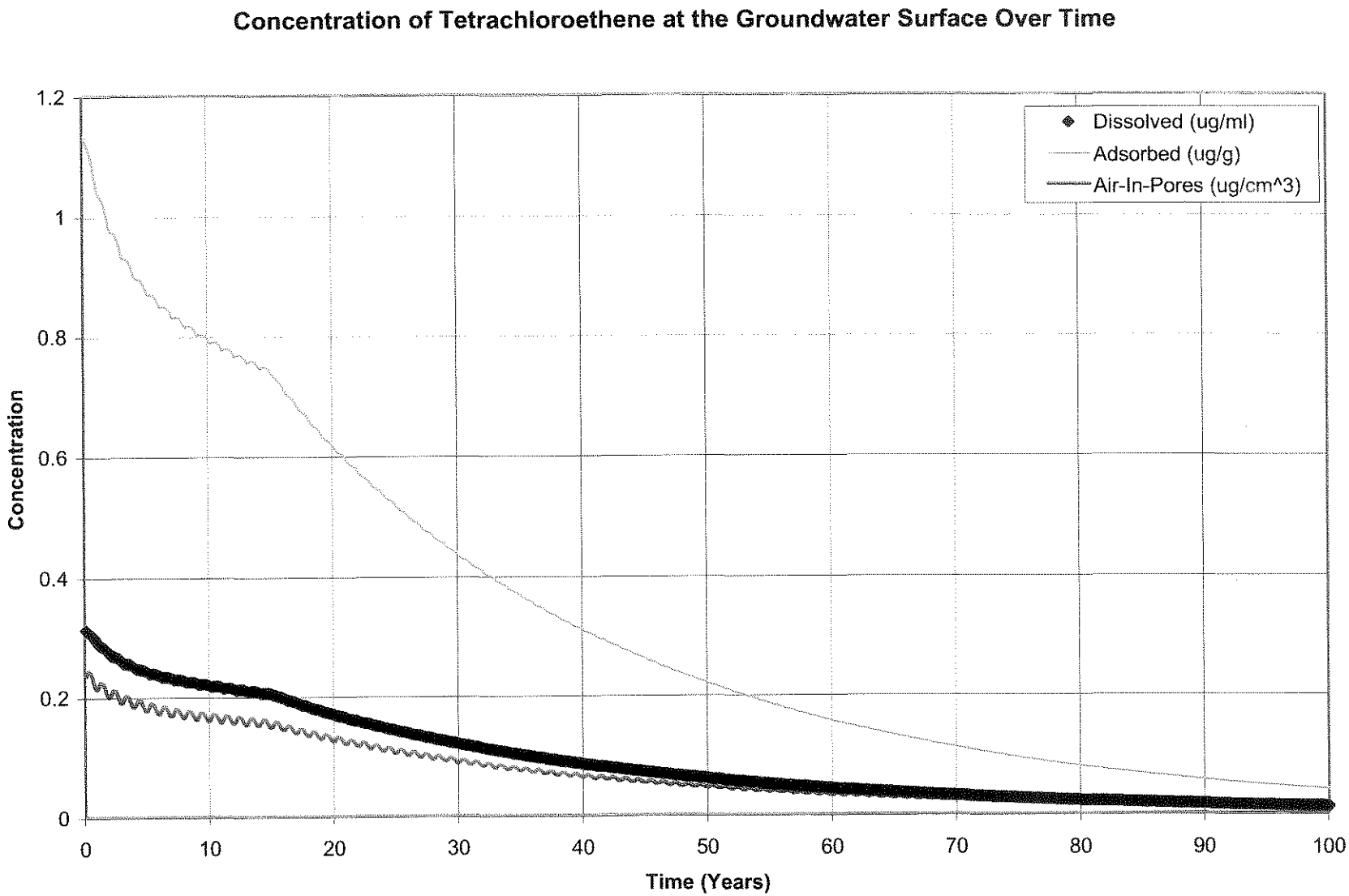


Figure 5.26: Concentration of Tetrachloroethene at the Groundwater Surface Over Time

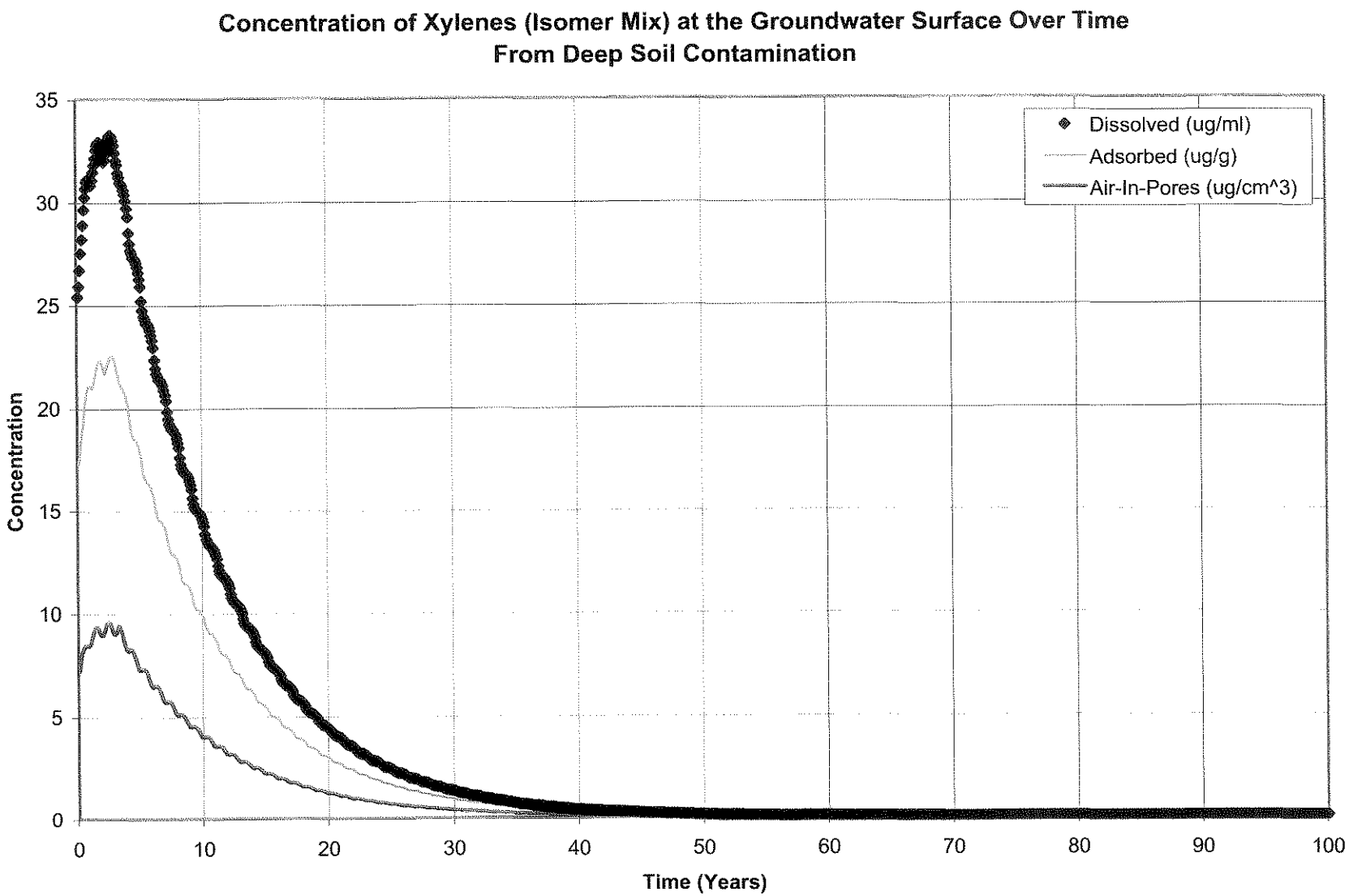


Figure 5.27: Concentration of Xylenes (Isomer Mix) at the Groundwater Surface Over Time From Deep Soil Contamination

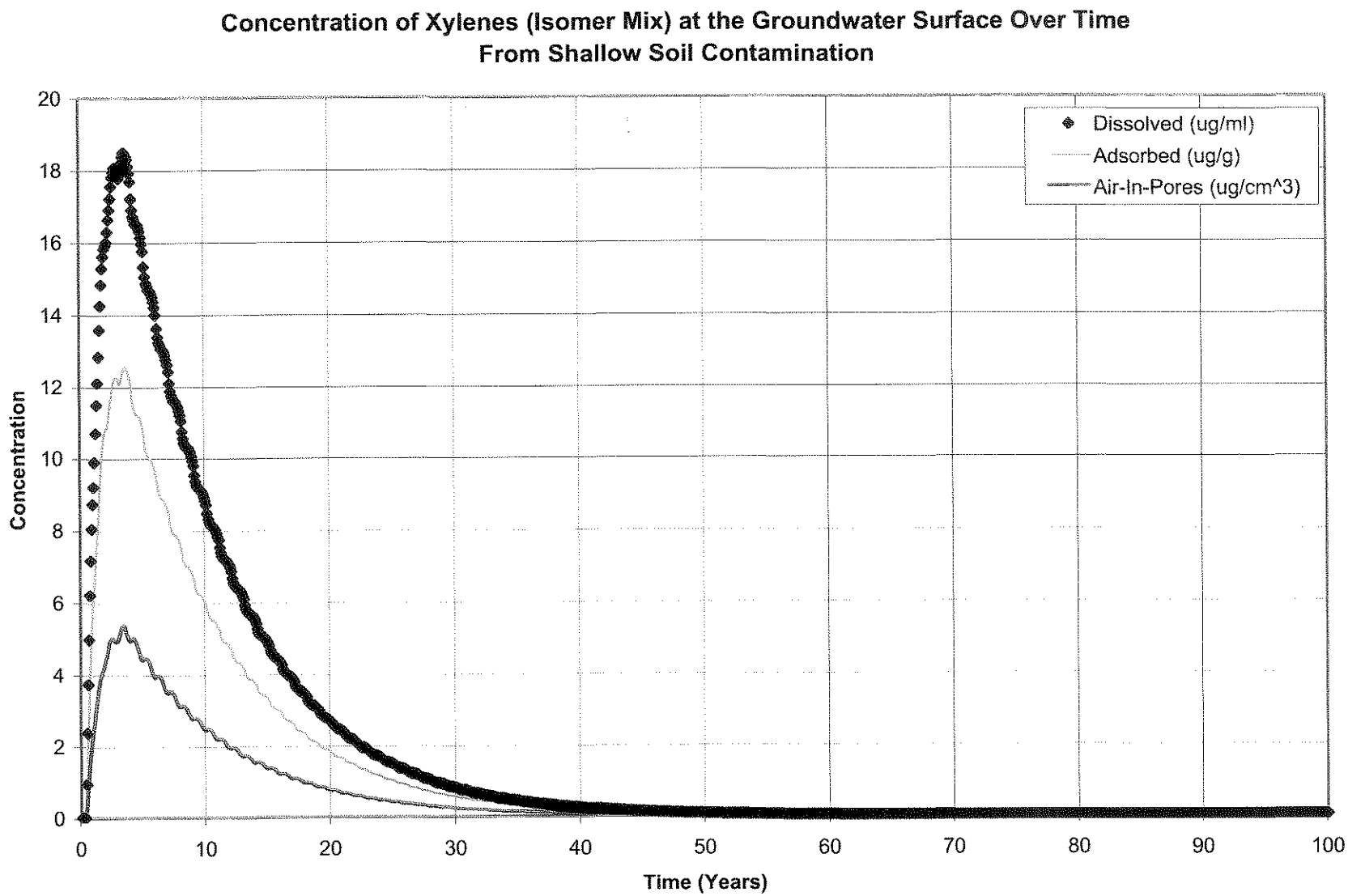


Figure 5.28: Concentration of Xylenes (Isomer Mix) at the Groundwater Surface Over Time From Shallow Soil Contamination

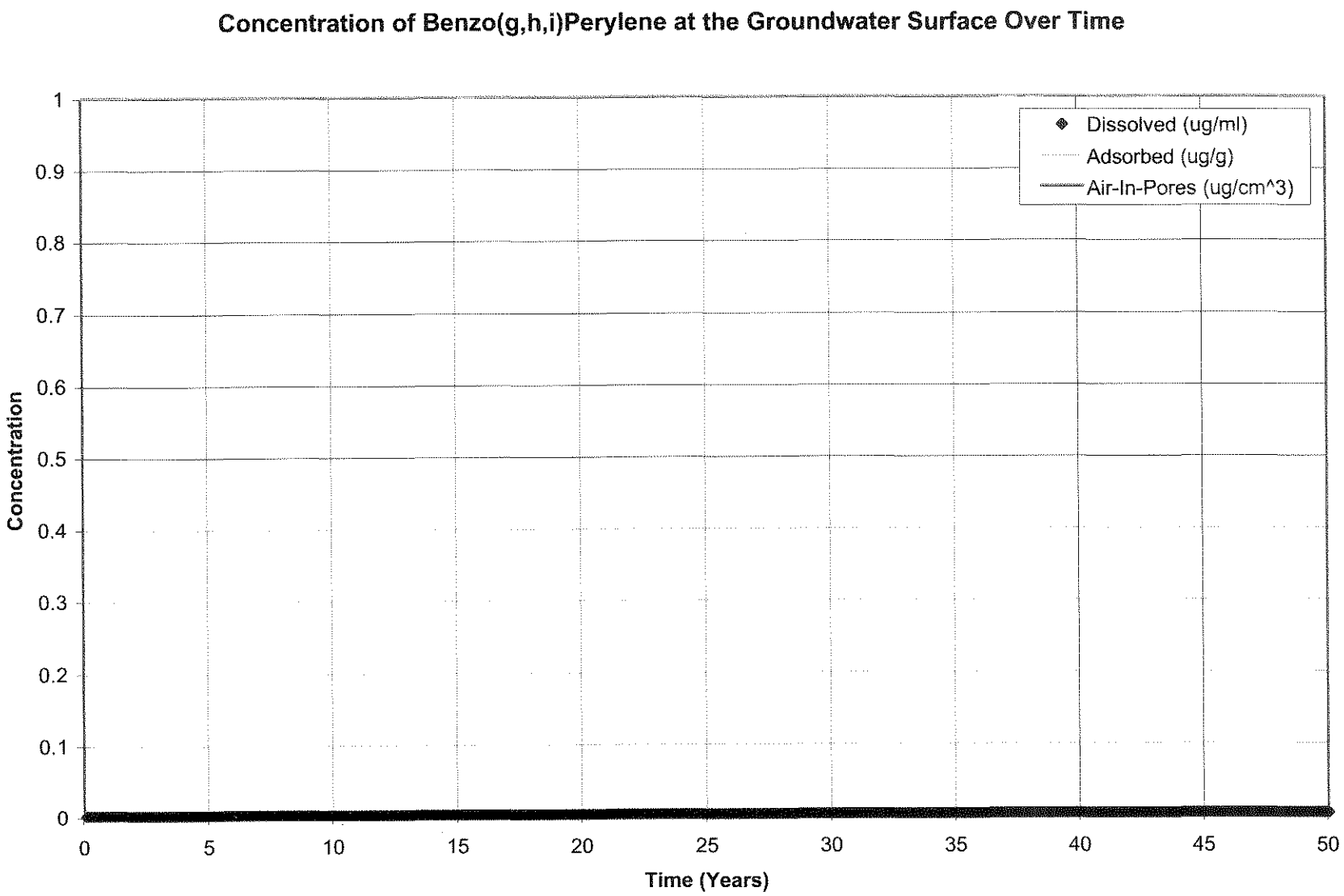


Figure 5.29: Concentration of Benzo(g,h,i)Perylene at the Groundwater Surface Over Time

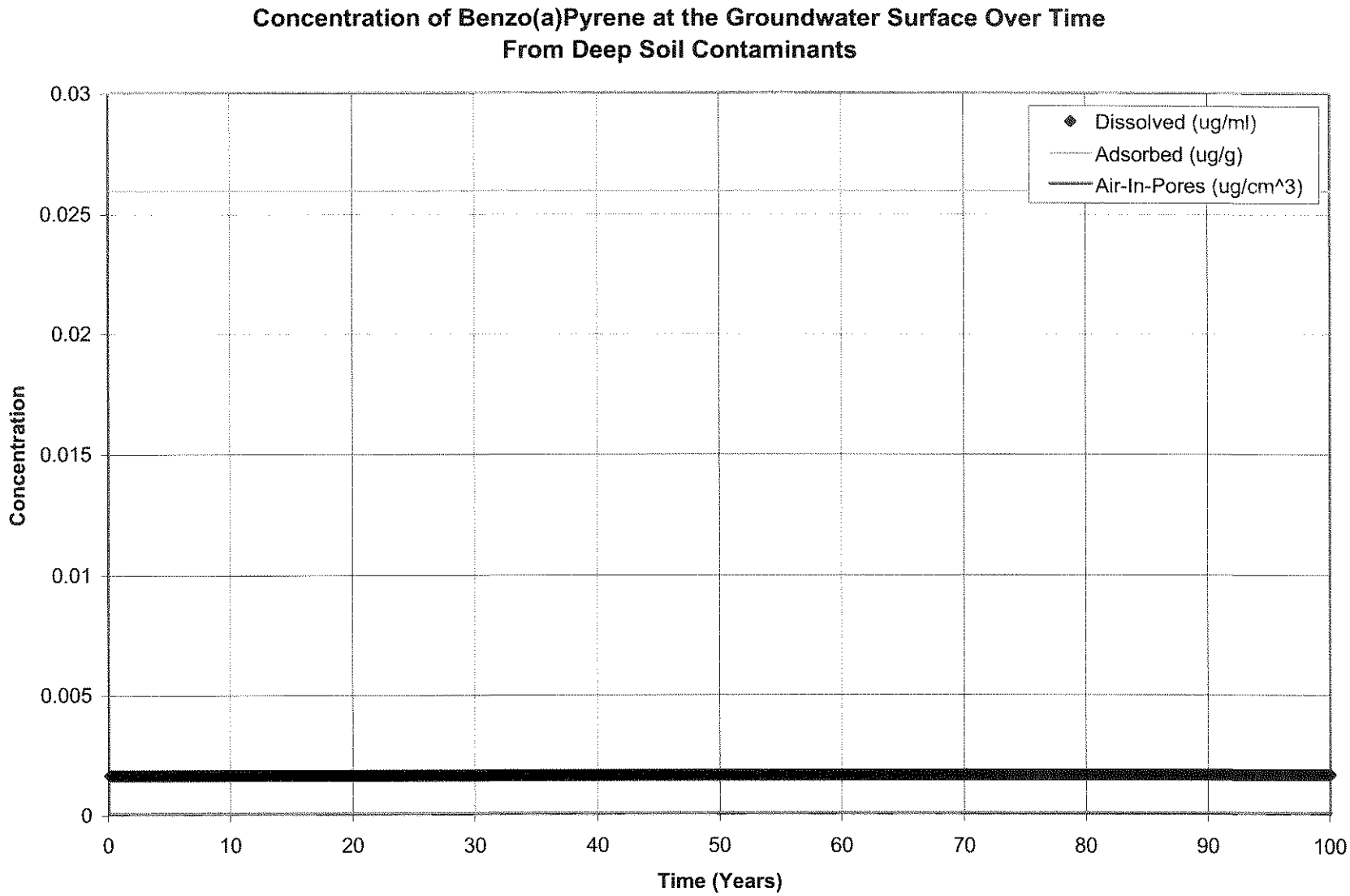


Figure 5.30: Concentration of Benzo(a)Pyrene at the Groundwater Surface Over Time From Deep Soil Contaminants

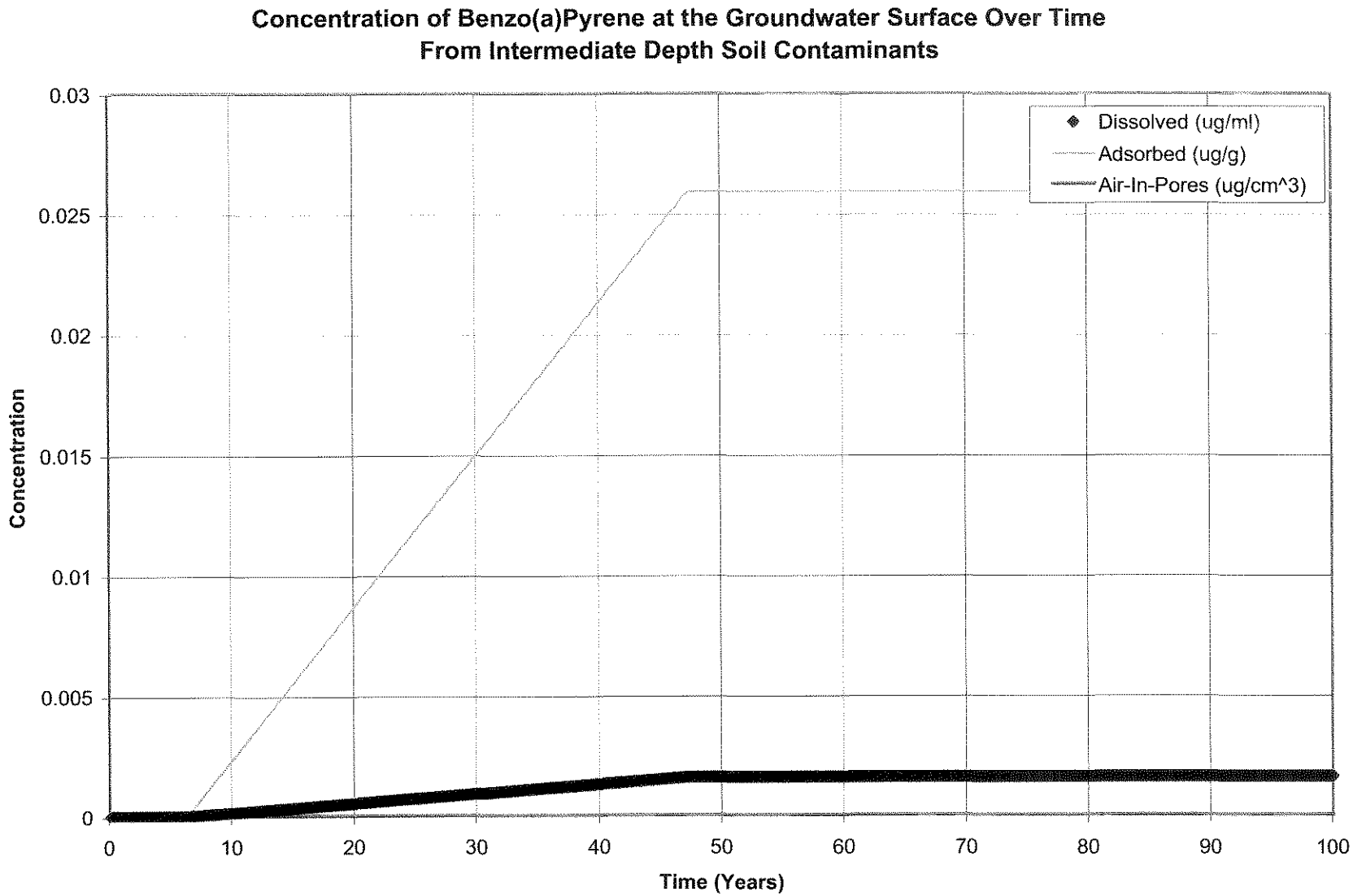


Figure 5.31: Concentration of Benzo(a)Pyrene at the Groundwater Surface Over Time From Intermediate Depth Soil Contaminants

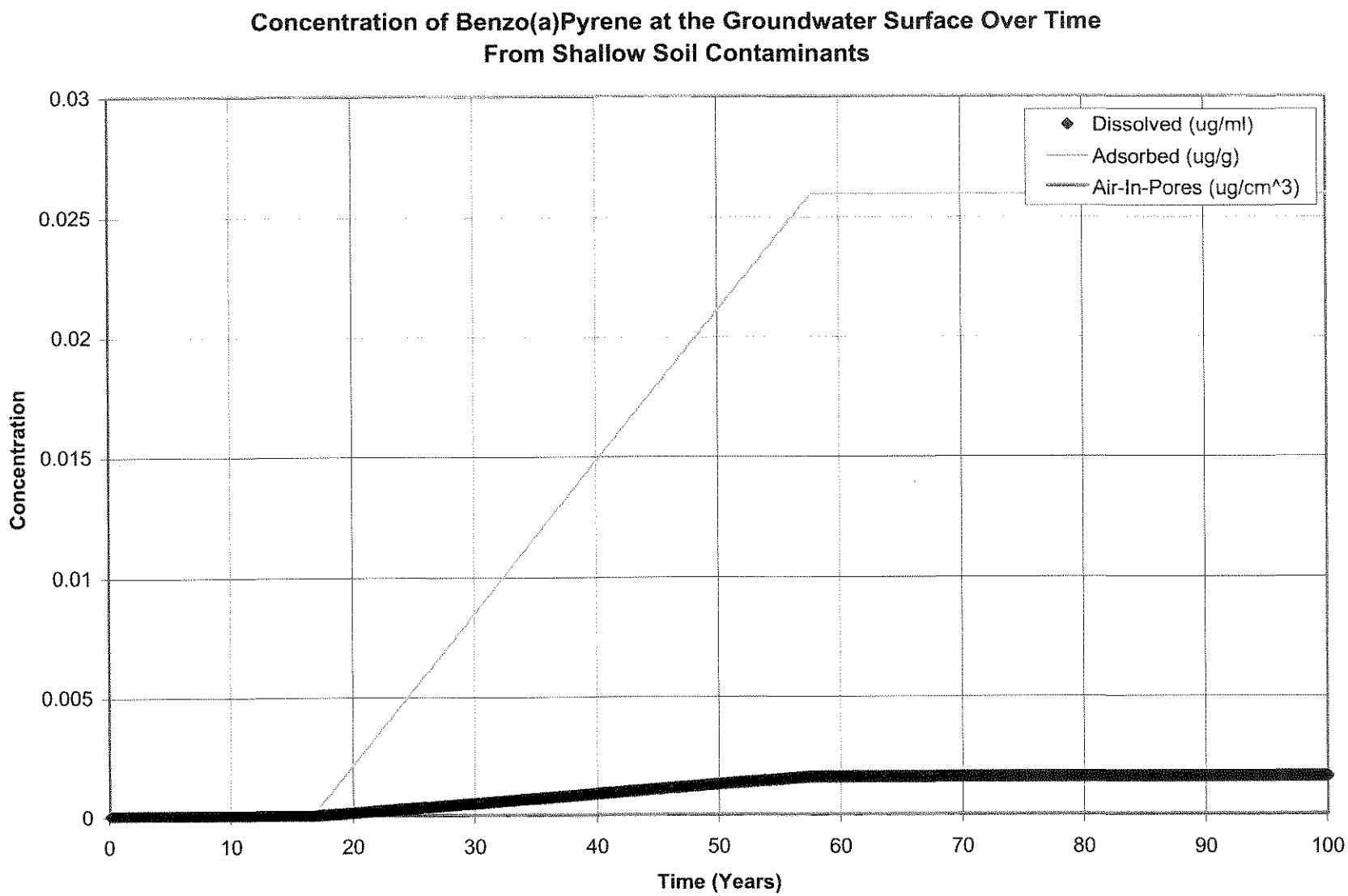


Figure 5.32: Concentration of Benzo(a)Pyrene at the Groundwater Surface Over Time From Shallow Soil Contaminants

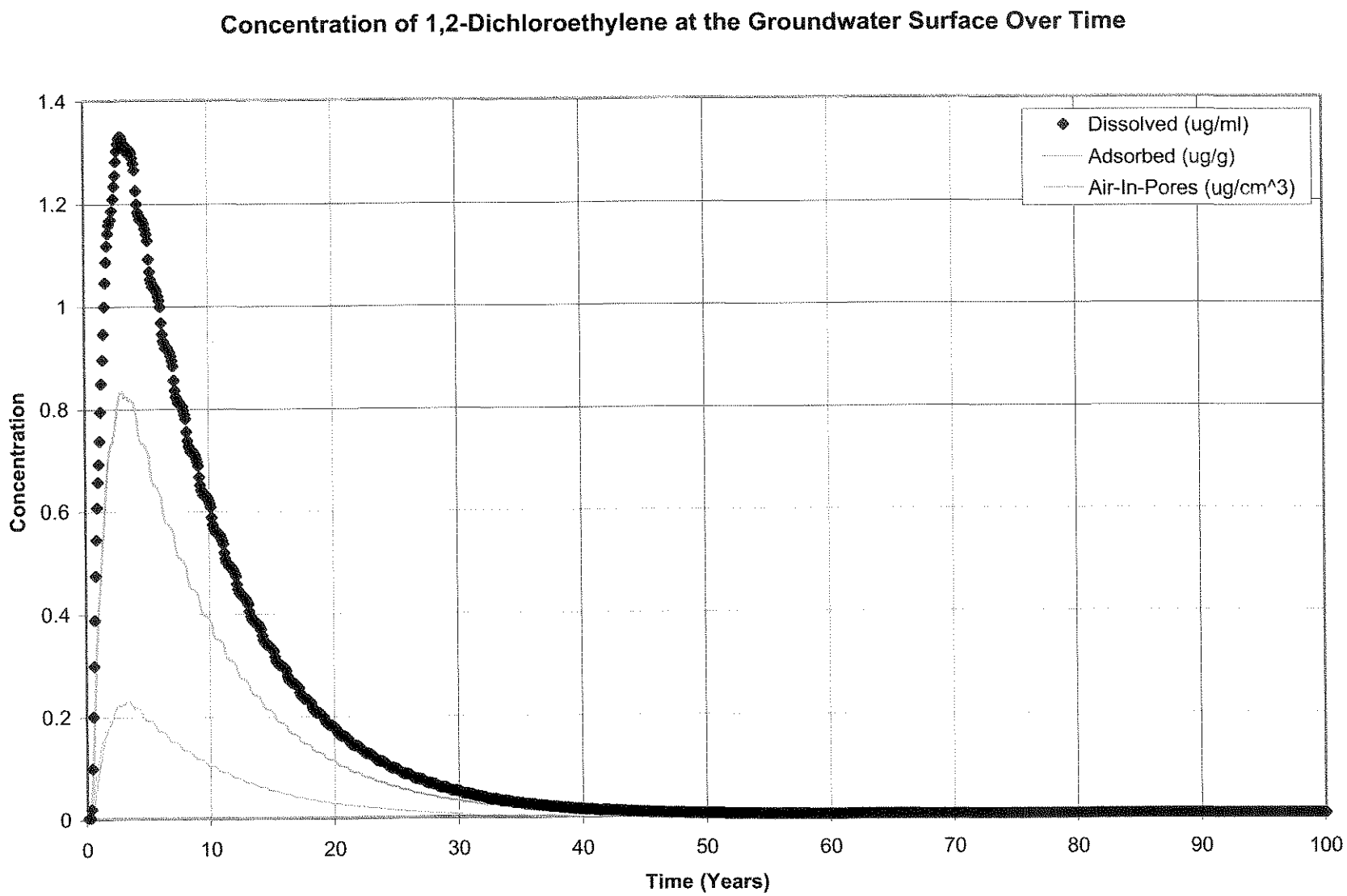


Figure 5.33: Concentration of 1,2-Dichloroethylene at the Groundwater Surface Over Time

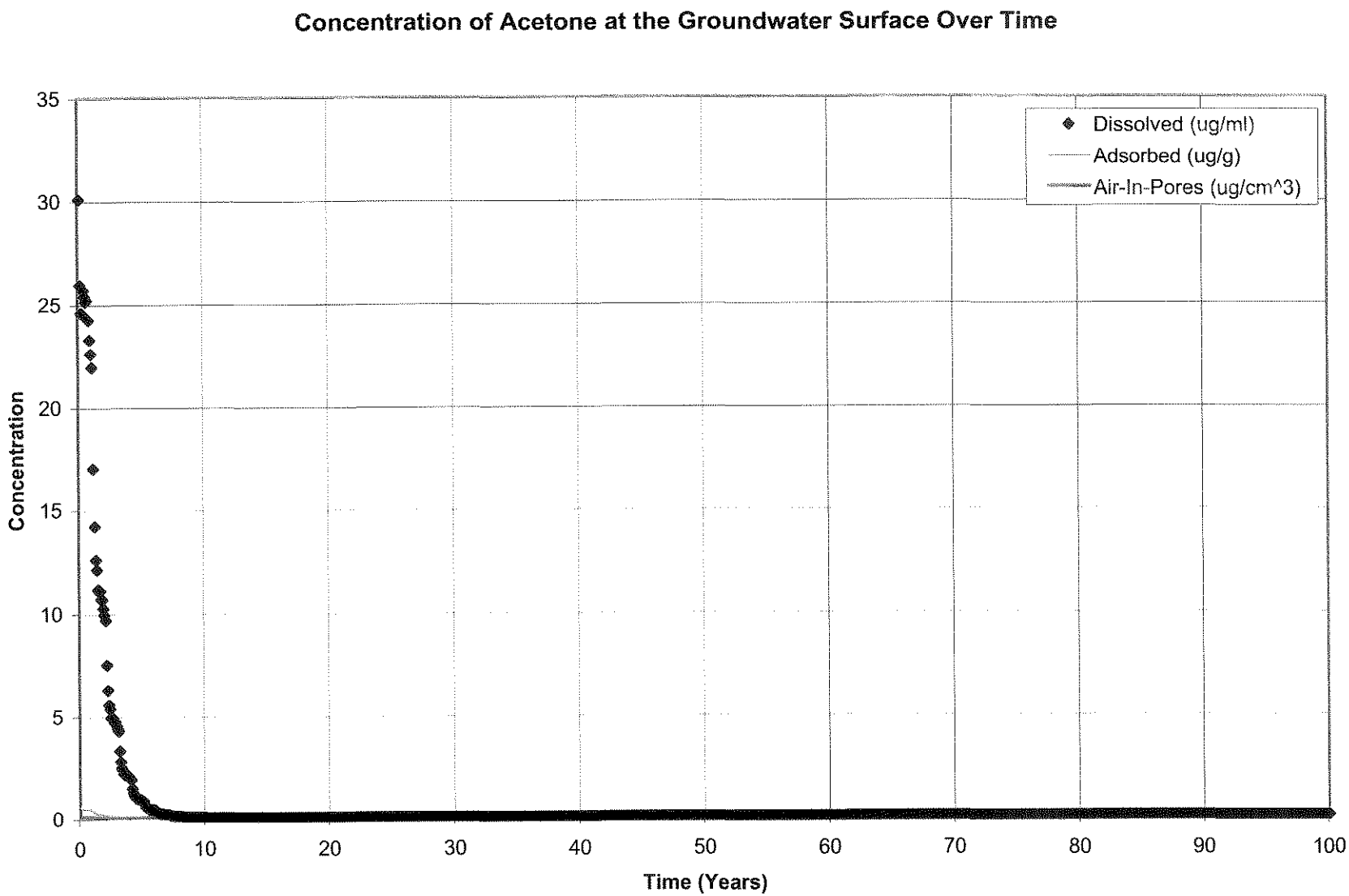


Figure 5.34: Concentration of Acetone at the Groundwater Surface Over Time

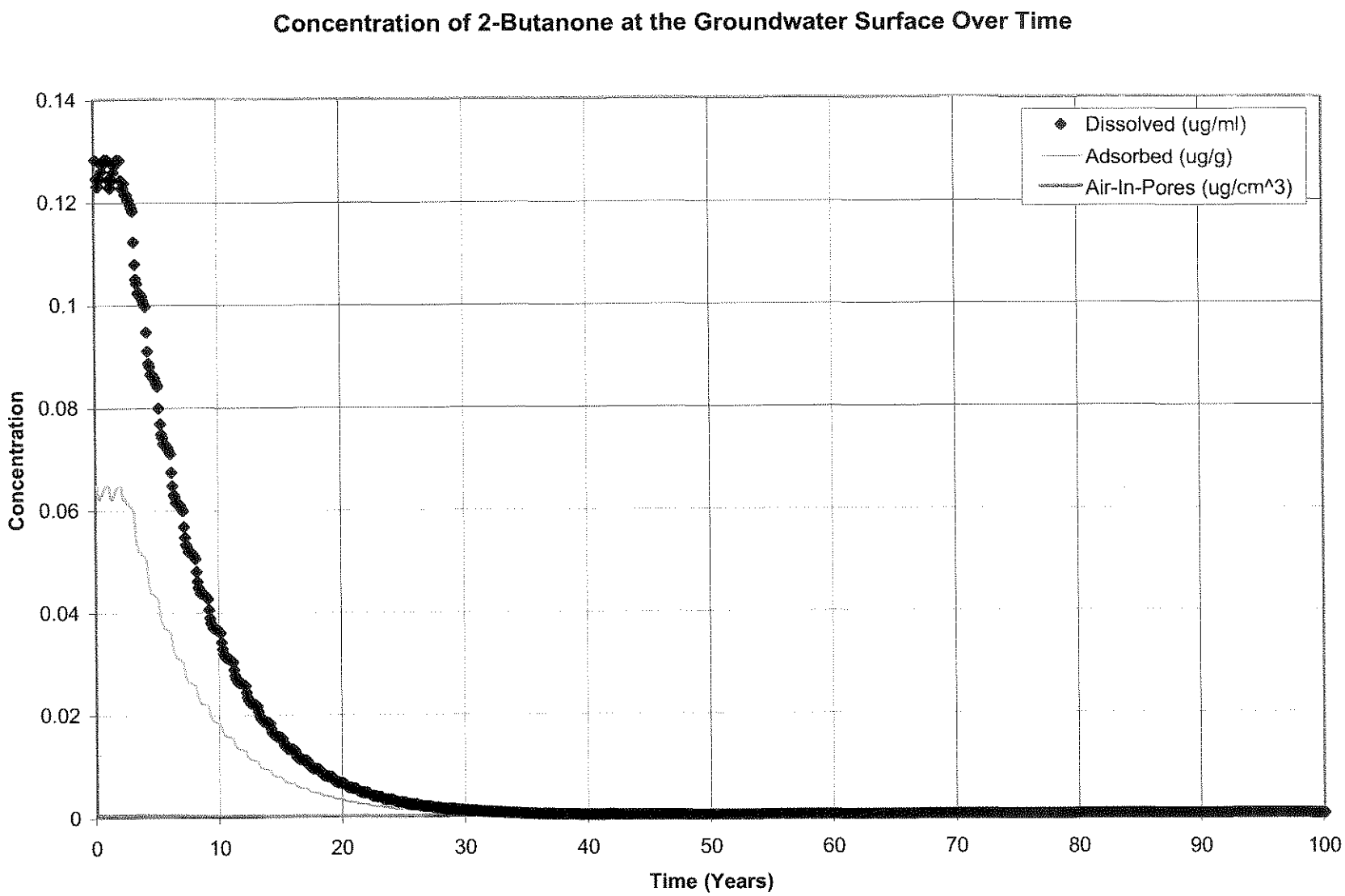


Figure 5.35: Concentration of 2-Butanone at the Groundwater Surface Over Time

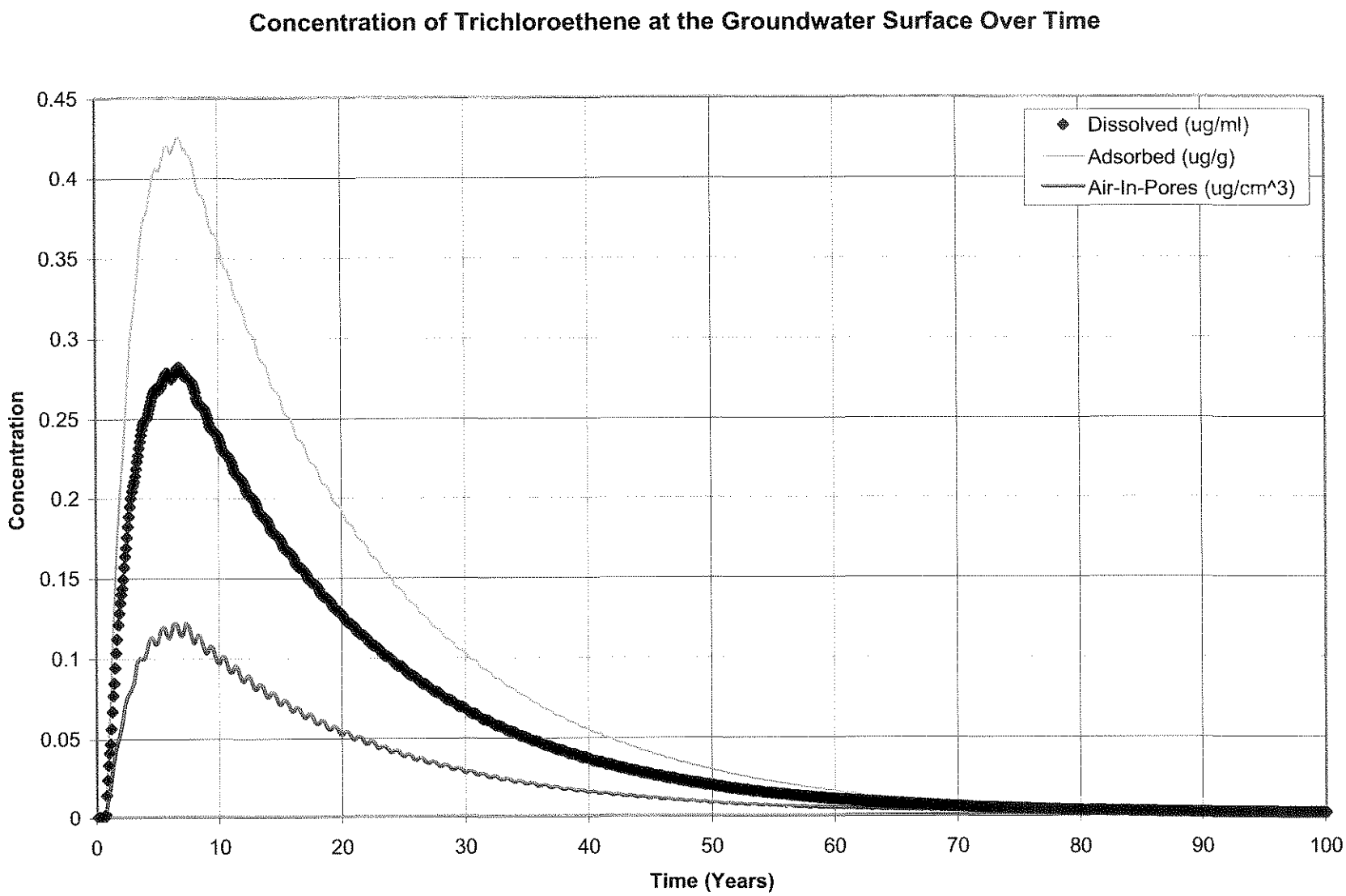


Figure 5.36: Concentration of Trichloroethene at the Groundwater Surface Over Time

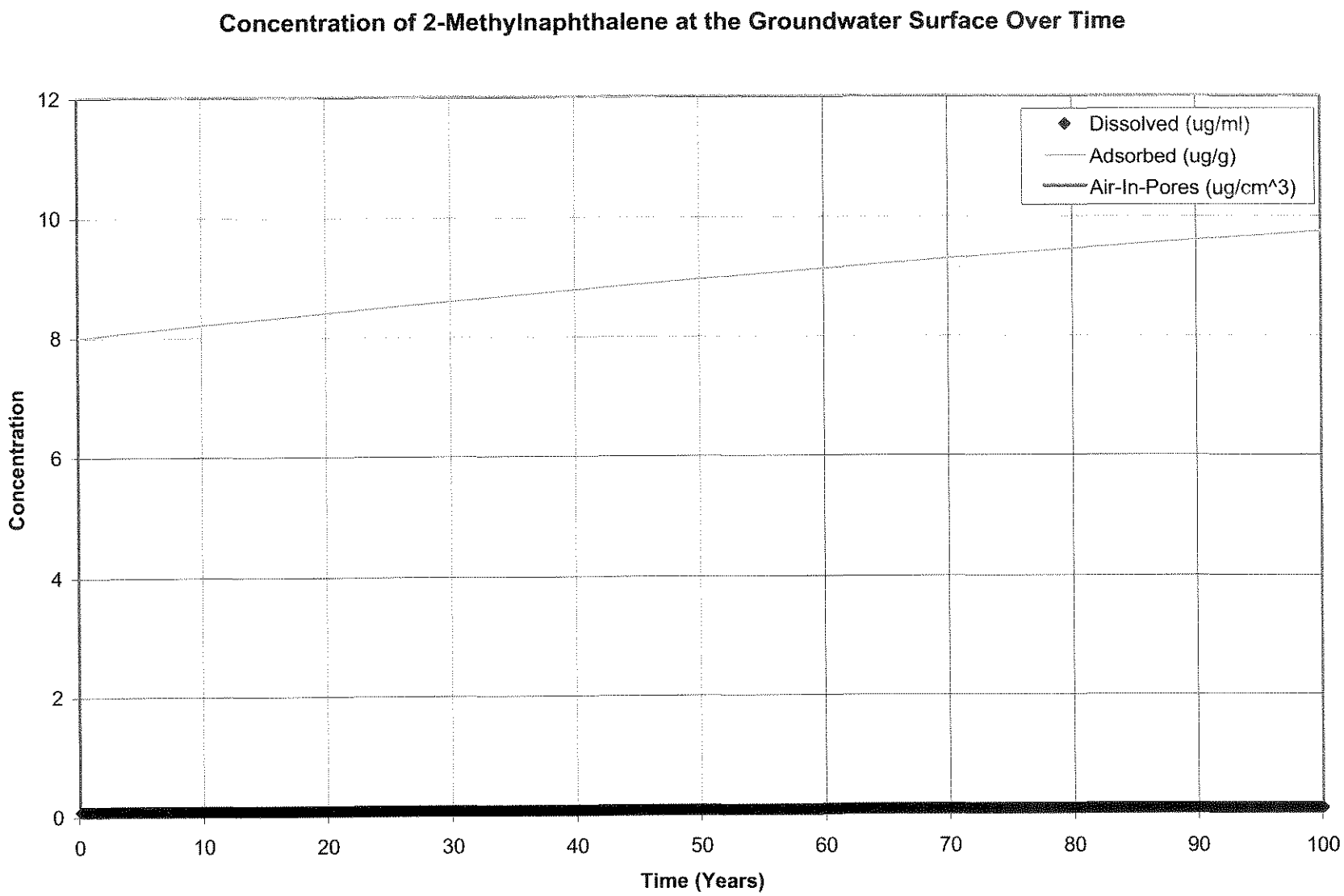


Figure 5.37: Concentration of 2-Methylnaphthalene at the Groundwater Surface Over Time

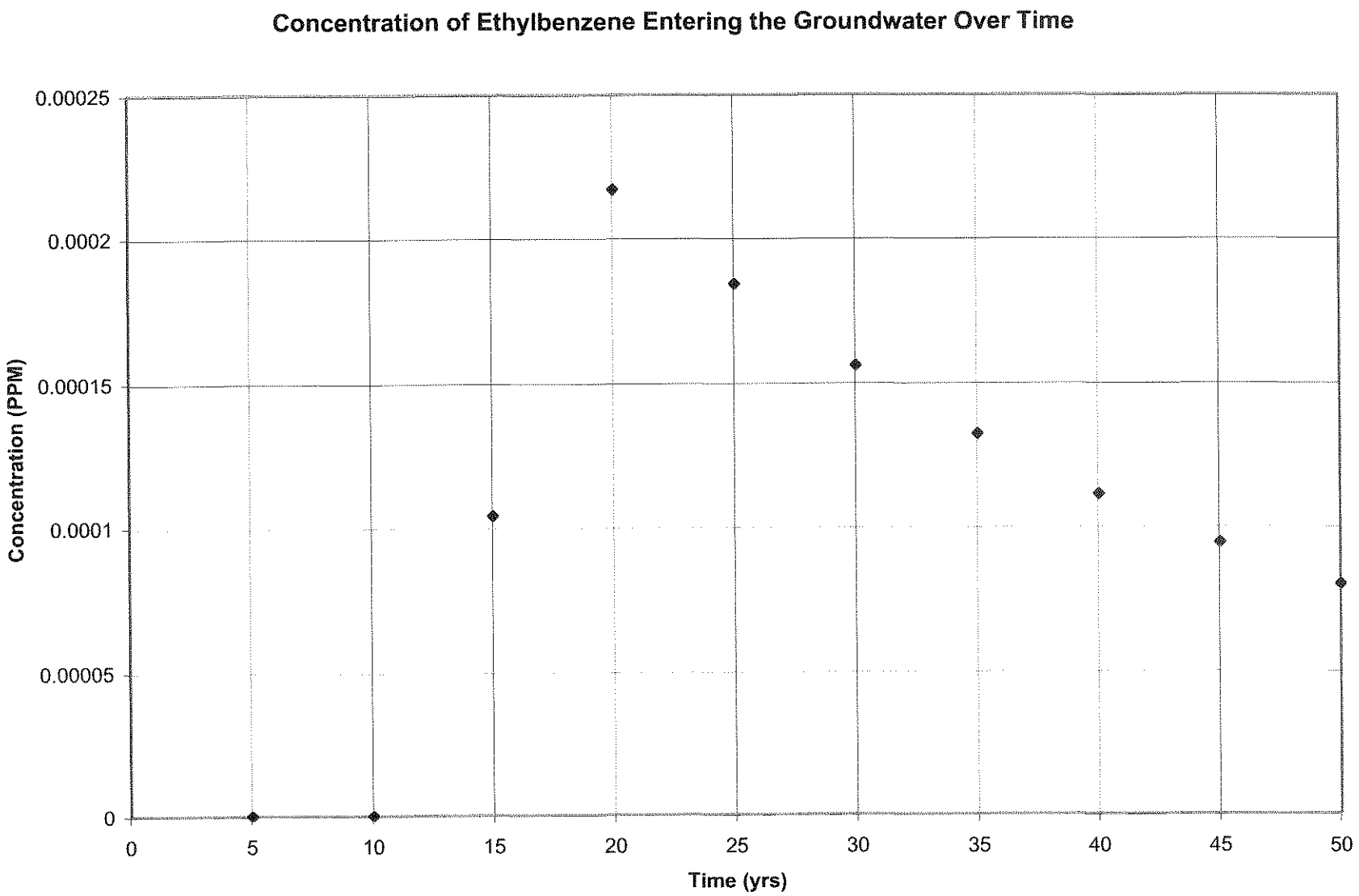


Figure 5.38: Concentration of Ethylbenzene Entering the Groundwater Over Time

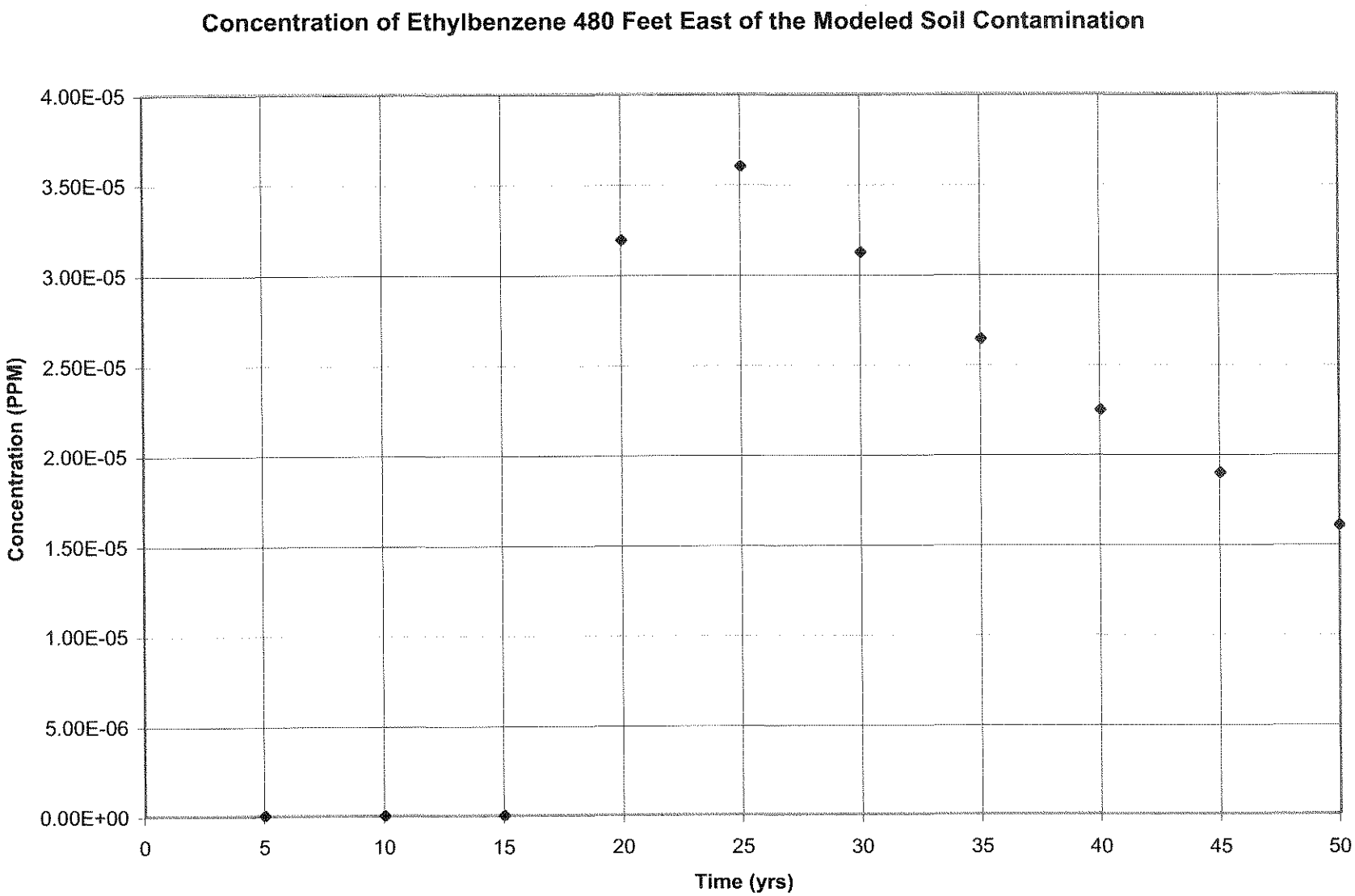


Figure 5.39: Concentration of Ethylbenzene 480 Feet East of the Modeled Soil Contamination

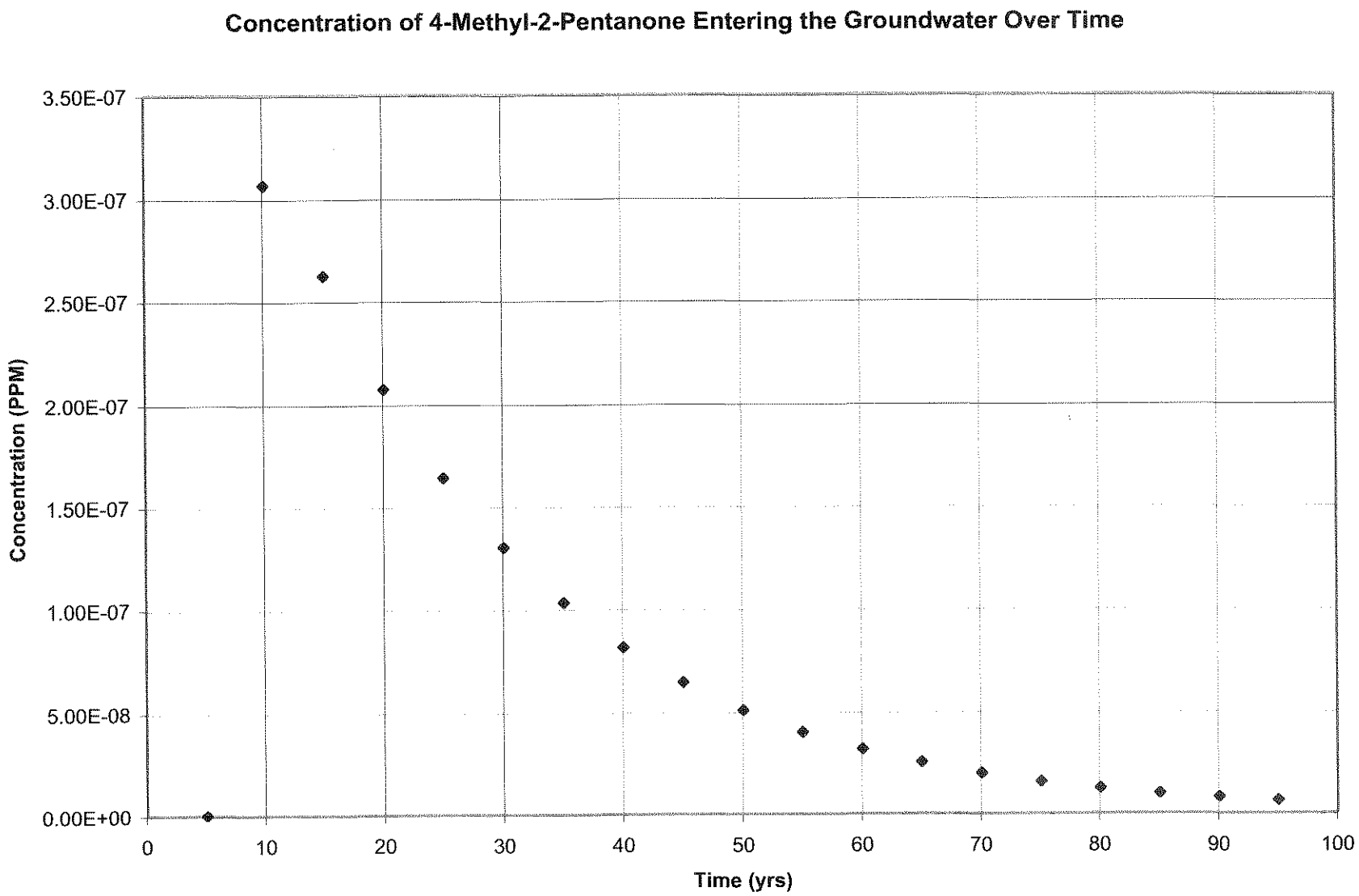


Figure 5.40: Concentration of 4-Methyl-2-Pentanone Entering the Groundwater Over Time

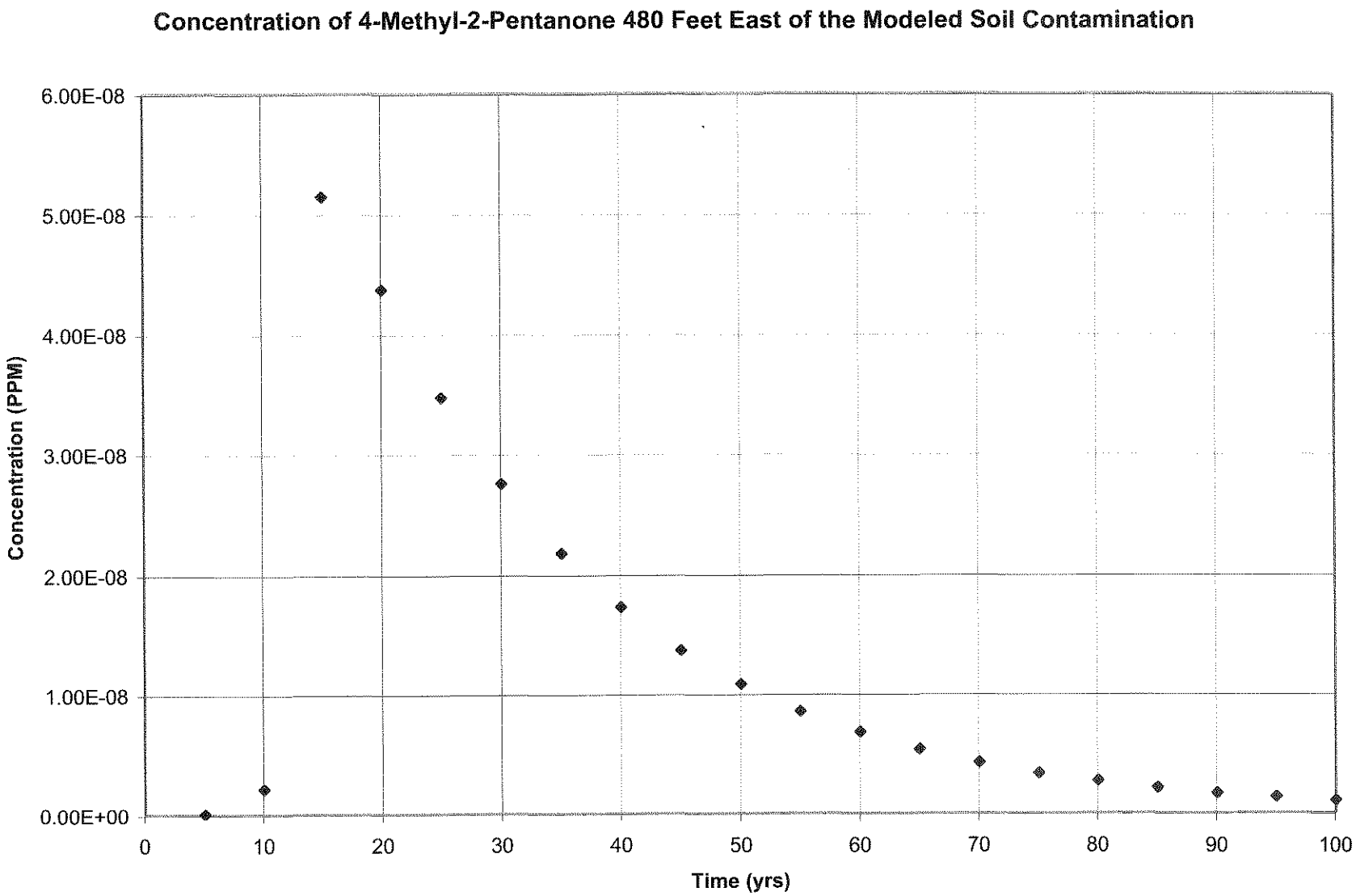


Figure 5.41: Concentration of 4-Methyl-2-Pentanone 480 Feet East of the Modeled Soil Contamination

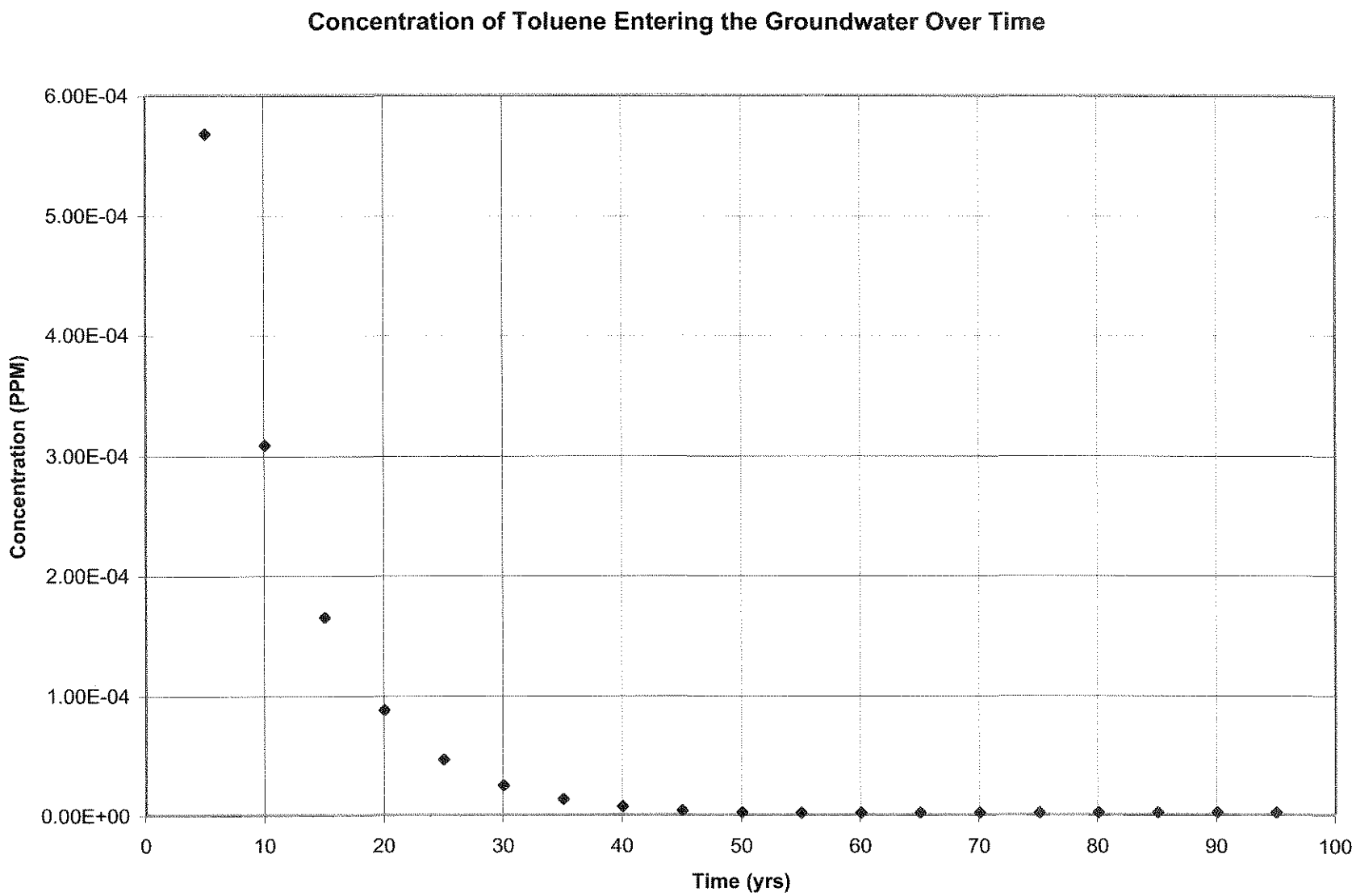


Figure 5.42: Concentration of Toluene Entering the Groundwater Over Time

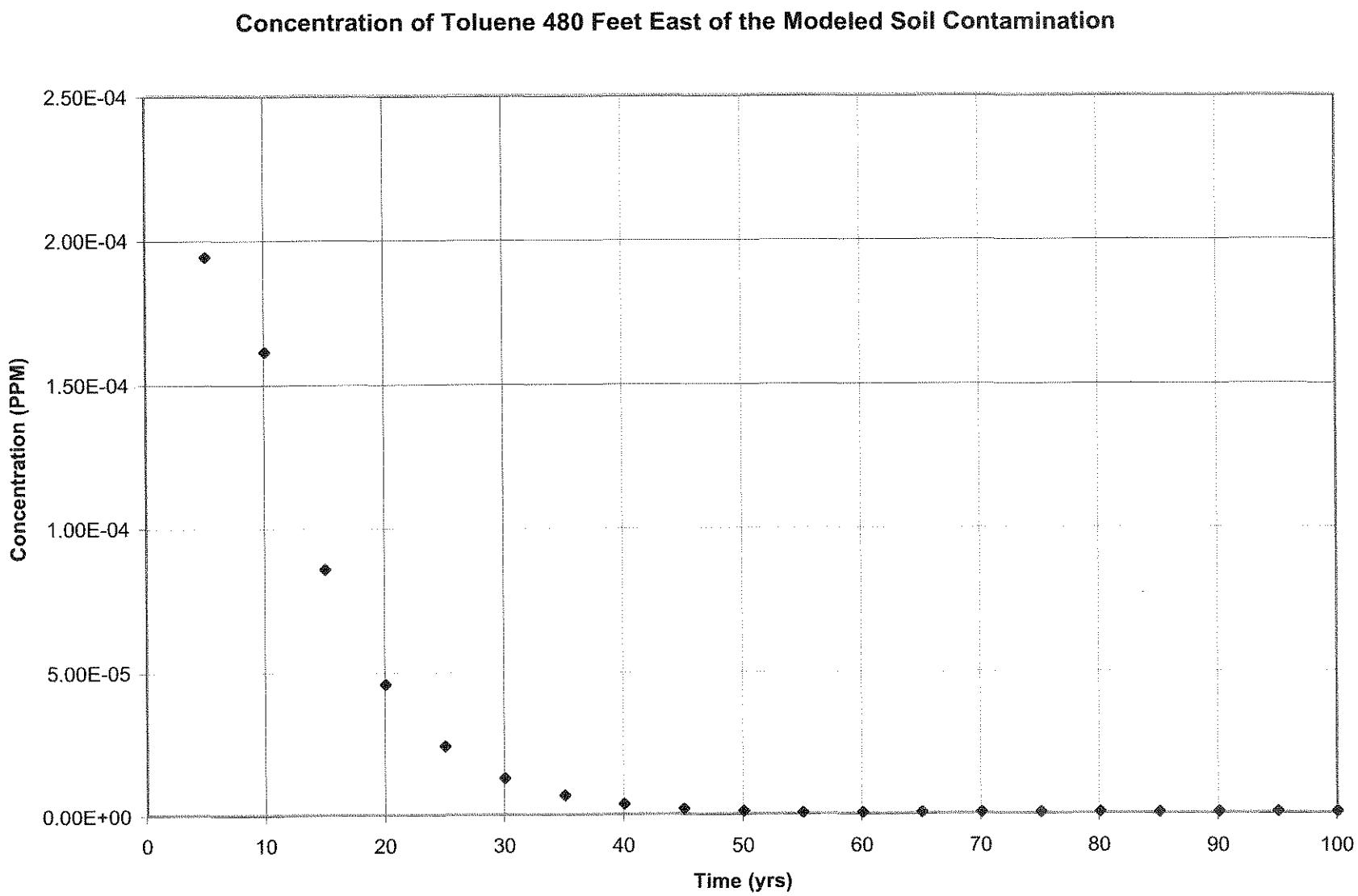


Figure 5.43: Concentration of Toluene 480 Feet East of the Modeled Soil Contamination

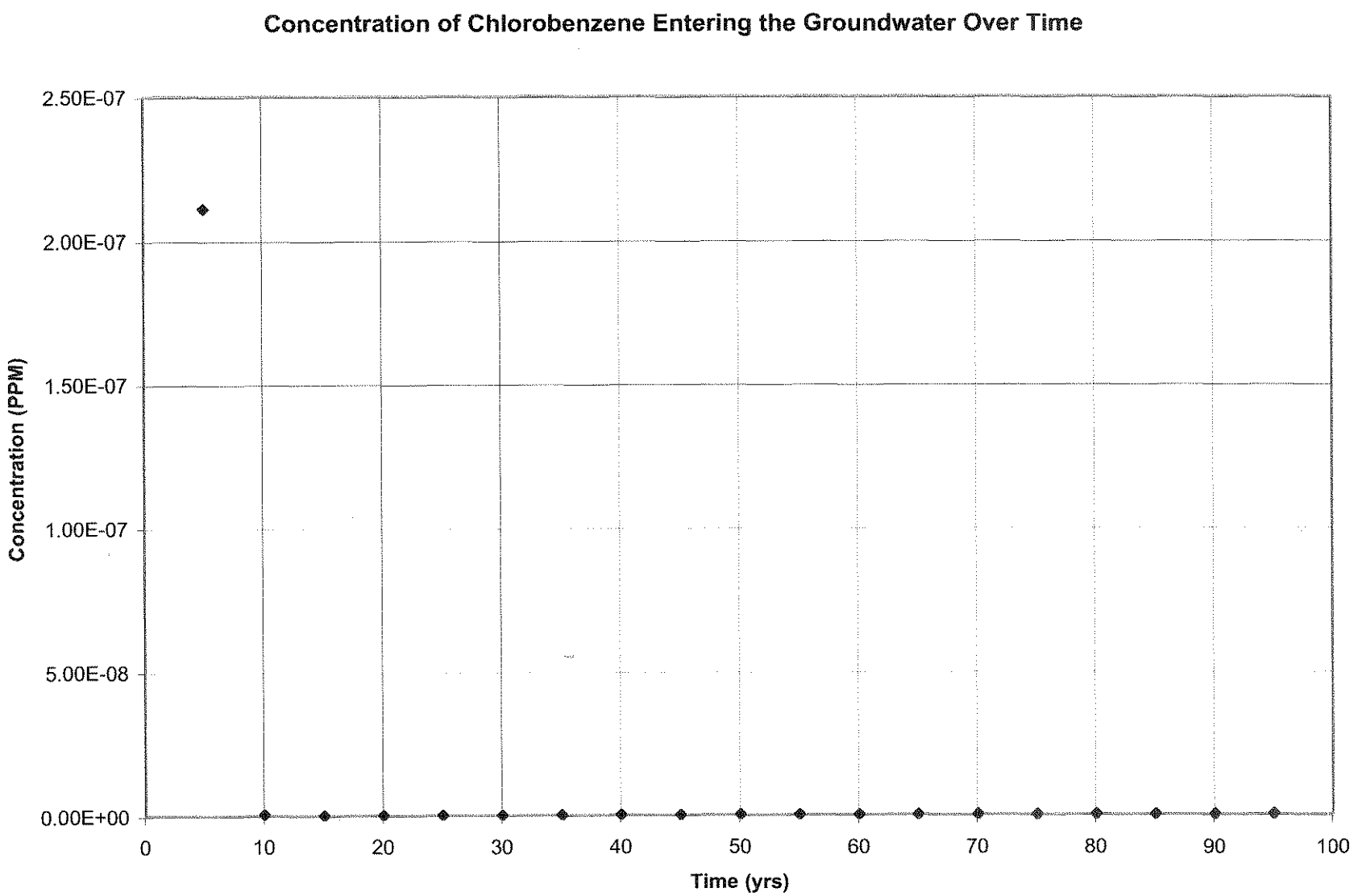


Figure 5.44: Concentration of Chlorobenzene Entering the Groundwater Over Time

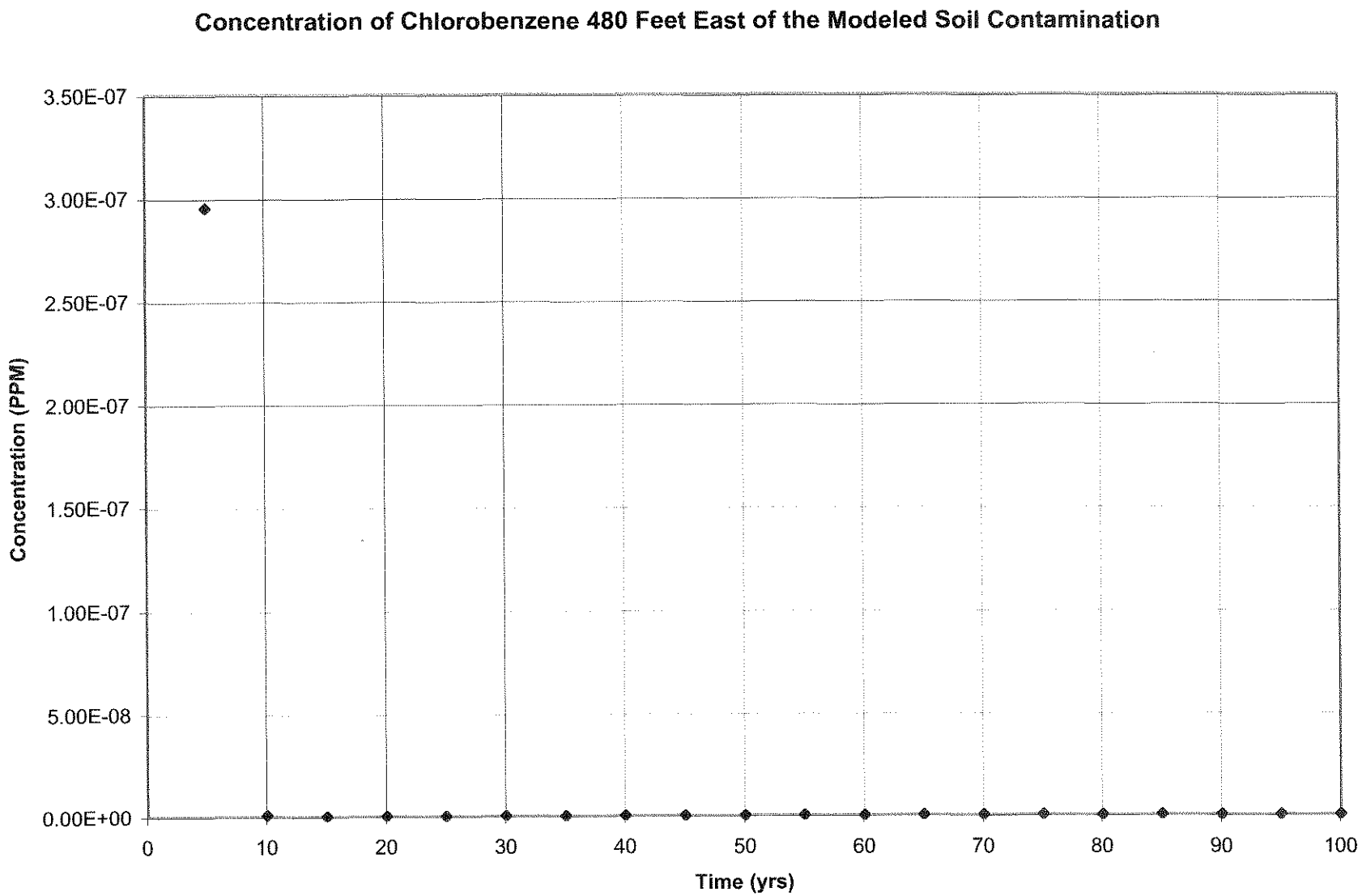


Figure 5.45: Concentration of Chlorobenzene 480 Feet East of the Modeled Soil Contamination

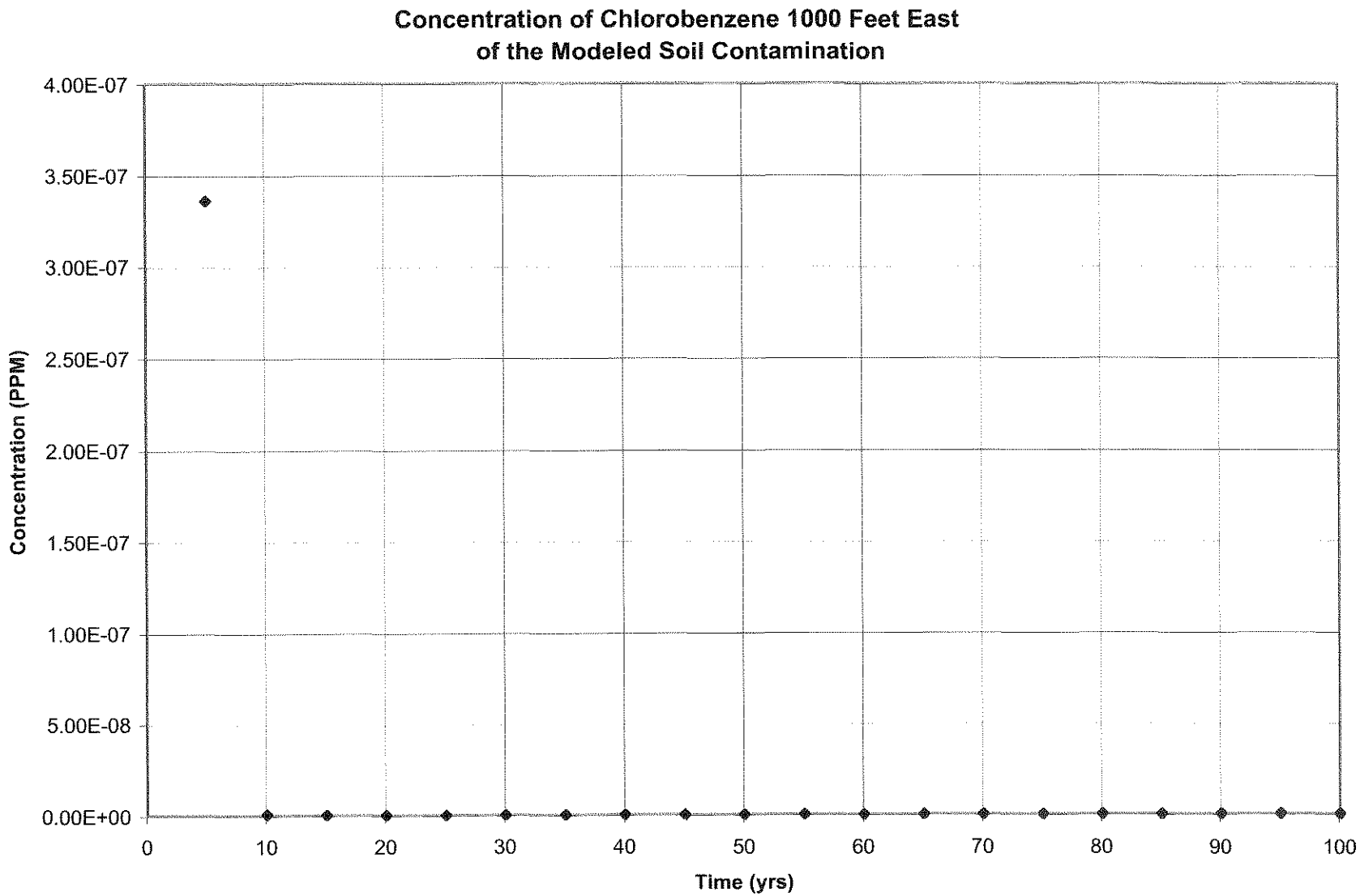


Figure 5.46: Concentration of Chlorobenzene 1000 Feet East of the Modeled Soil Contamination

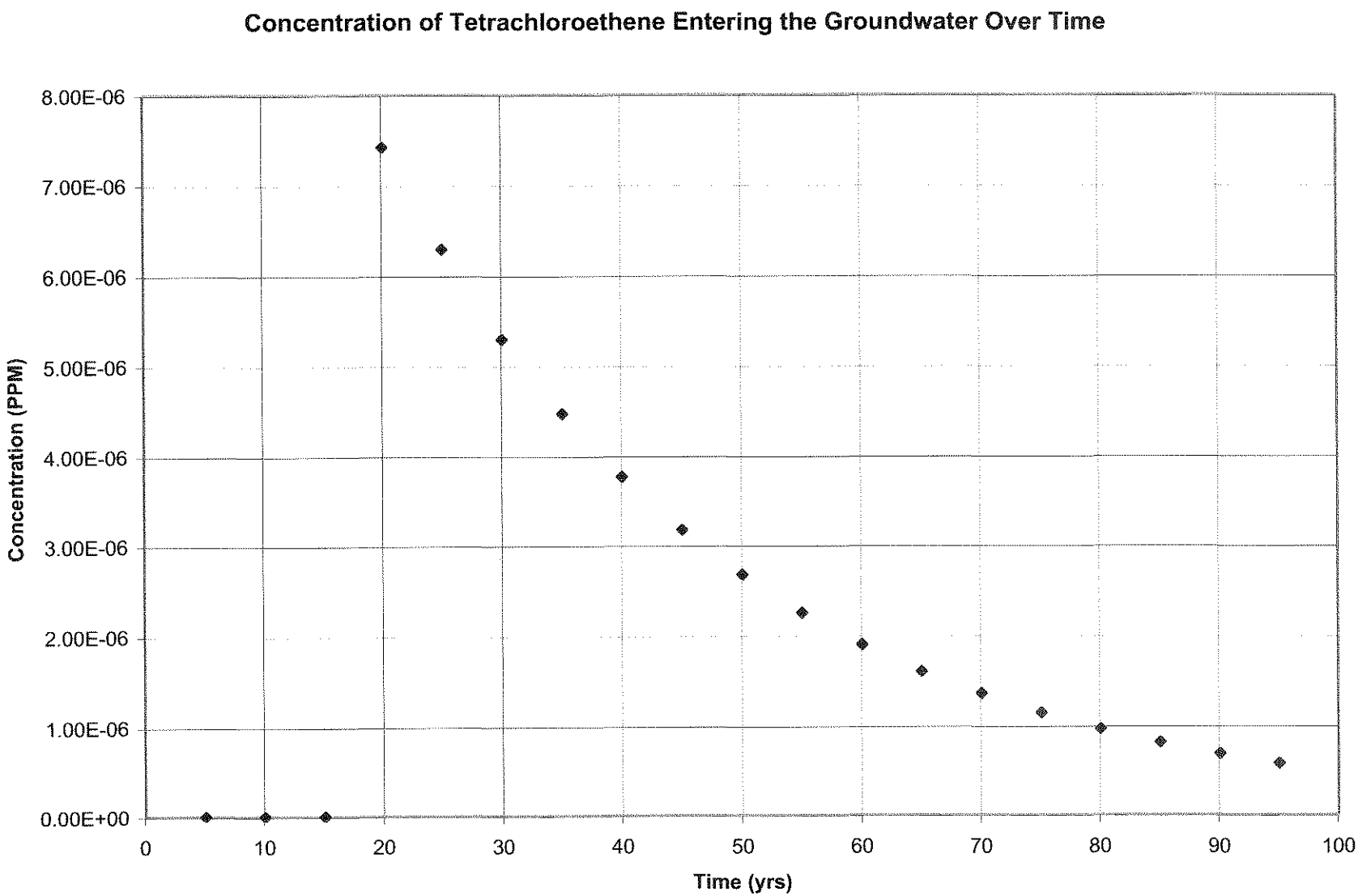


Figure 5.47: Concentration of Tetrachloroethene Entering the Groundwater Over Time

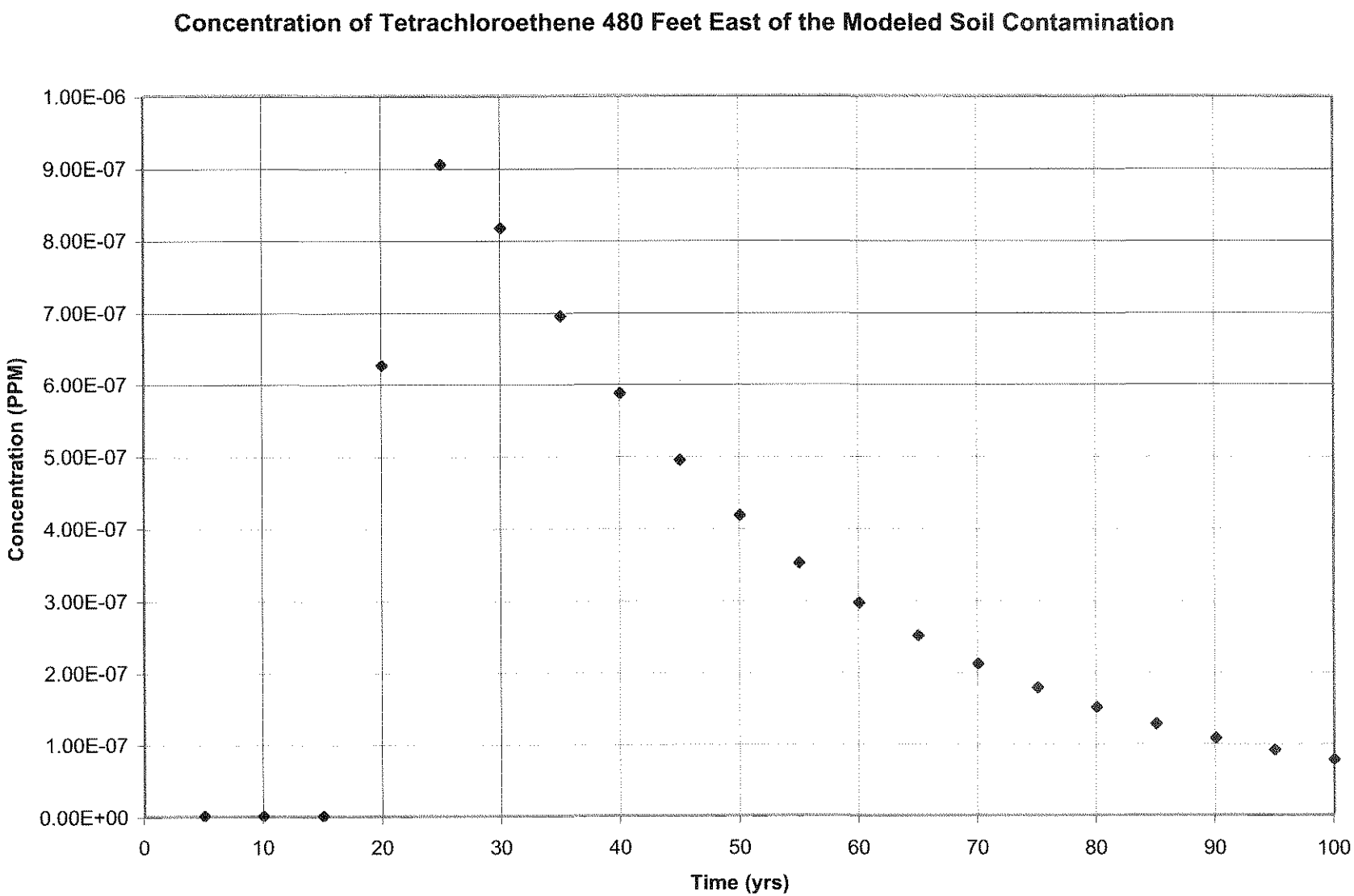


Figure 5.48: Concentration of Tetrachloroethene 480 Feet East of the Modeled Soil Contamination

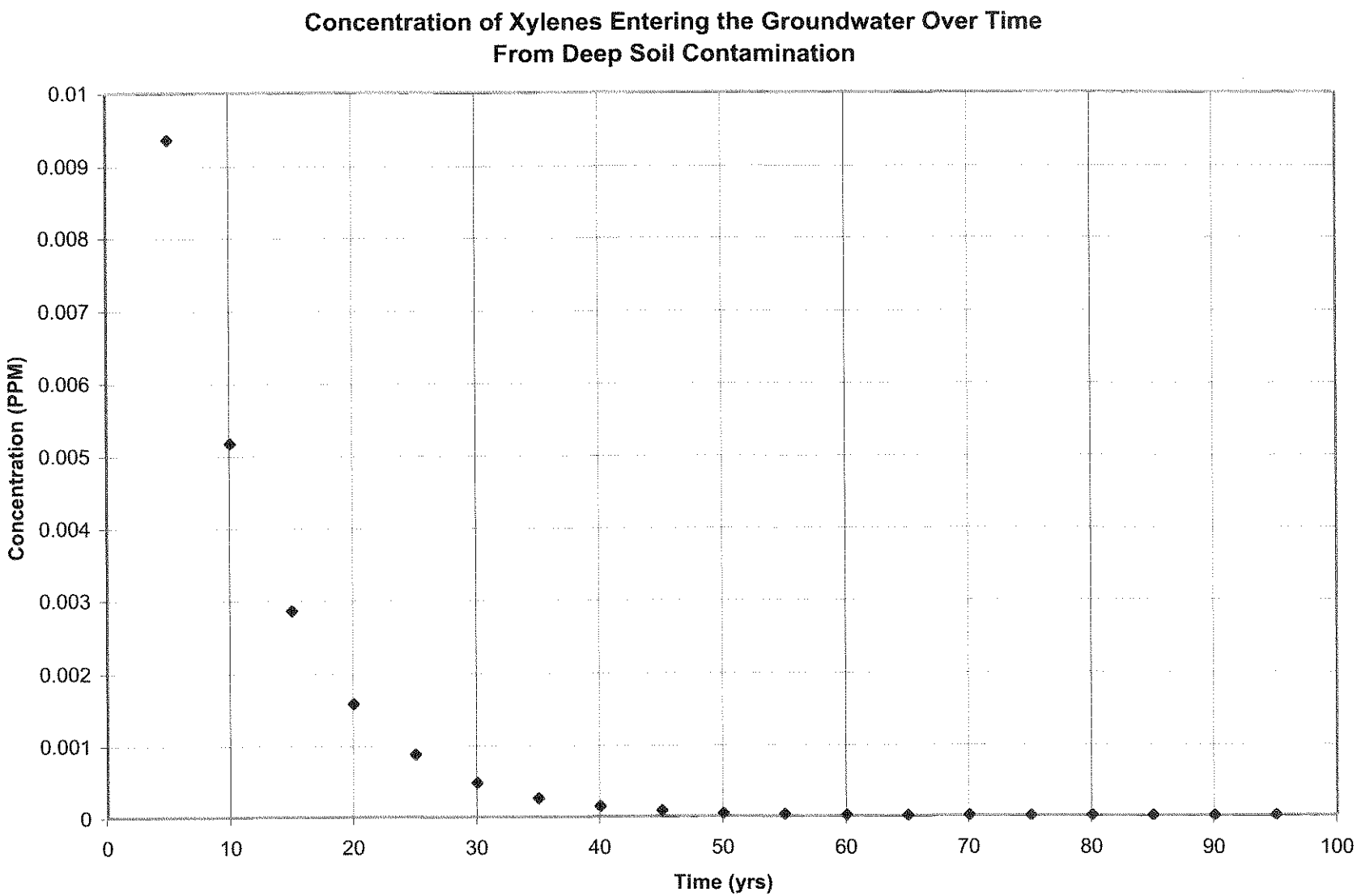


Figure 5.49: Concentration of Xylenes Entering the Groundwater Over Time From Deep Soil Contamination

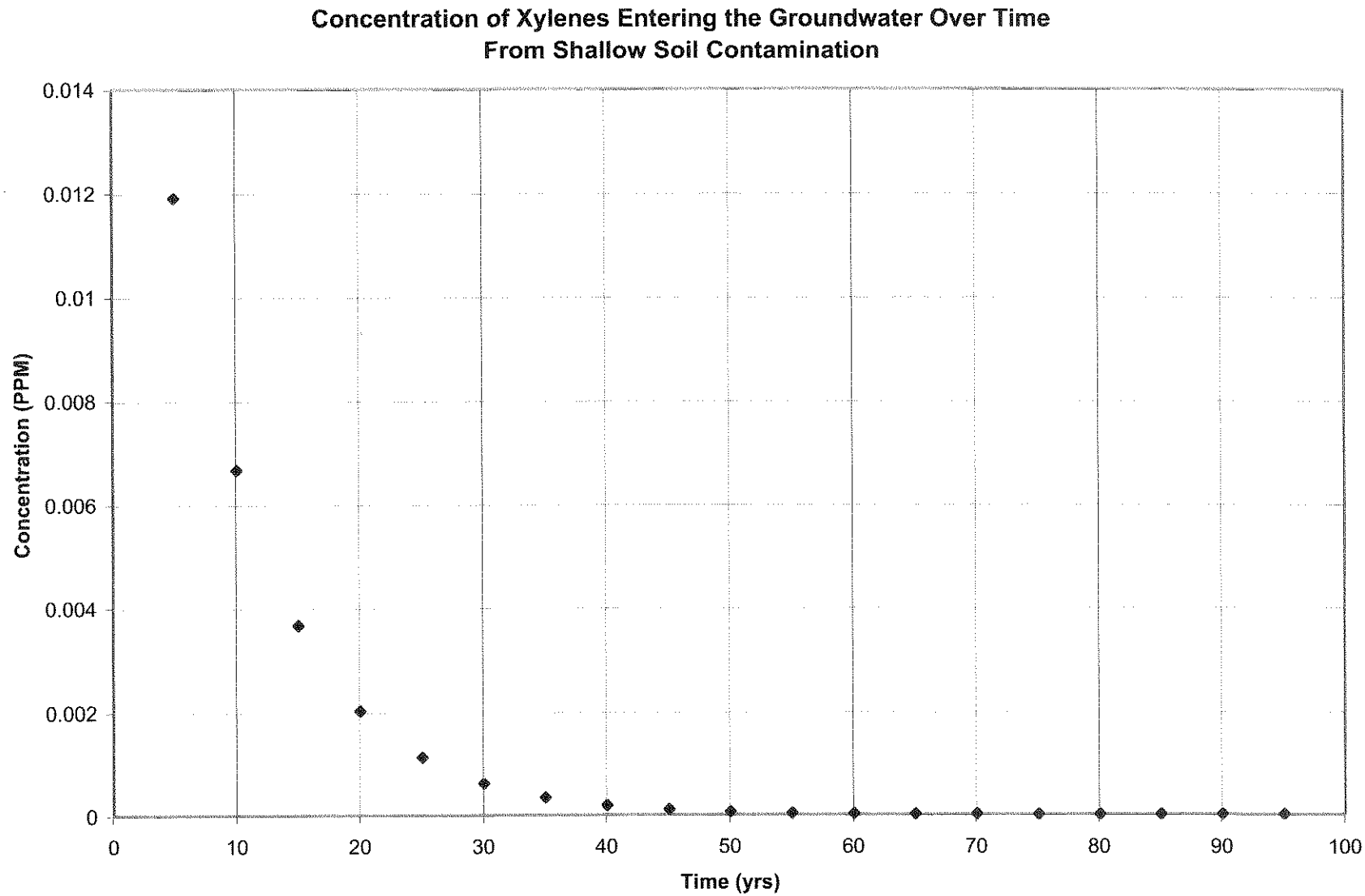


Figure 5.50: Concentration of Xylenes Entering the Groundwater Over Time From Shallow Soil Contamination

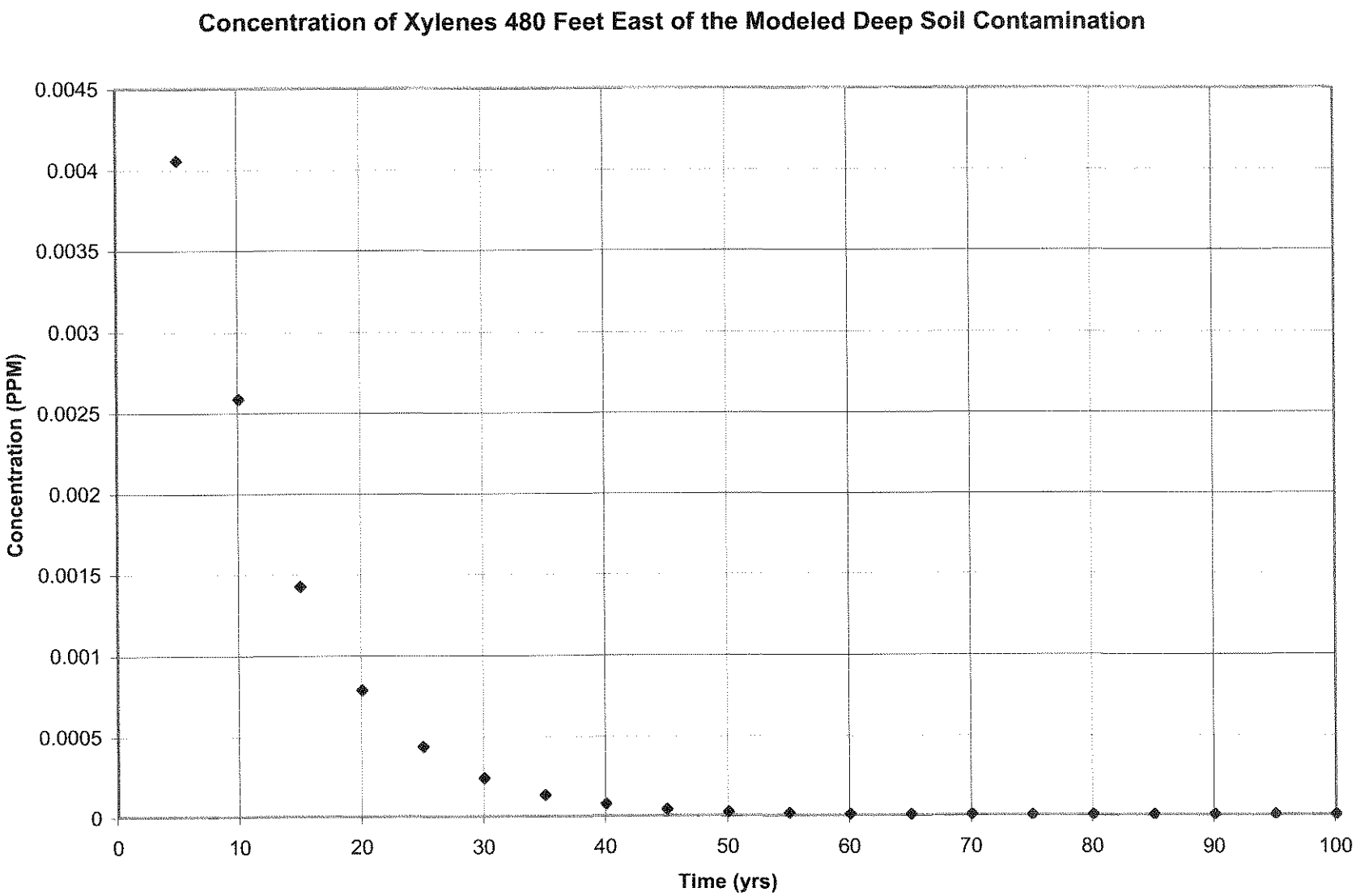


Figure 5.51: Concentration of Xylenes 480 Feet East of the Modeled Deep Soil Contamination

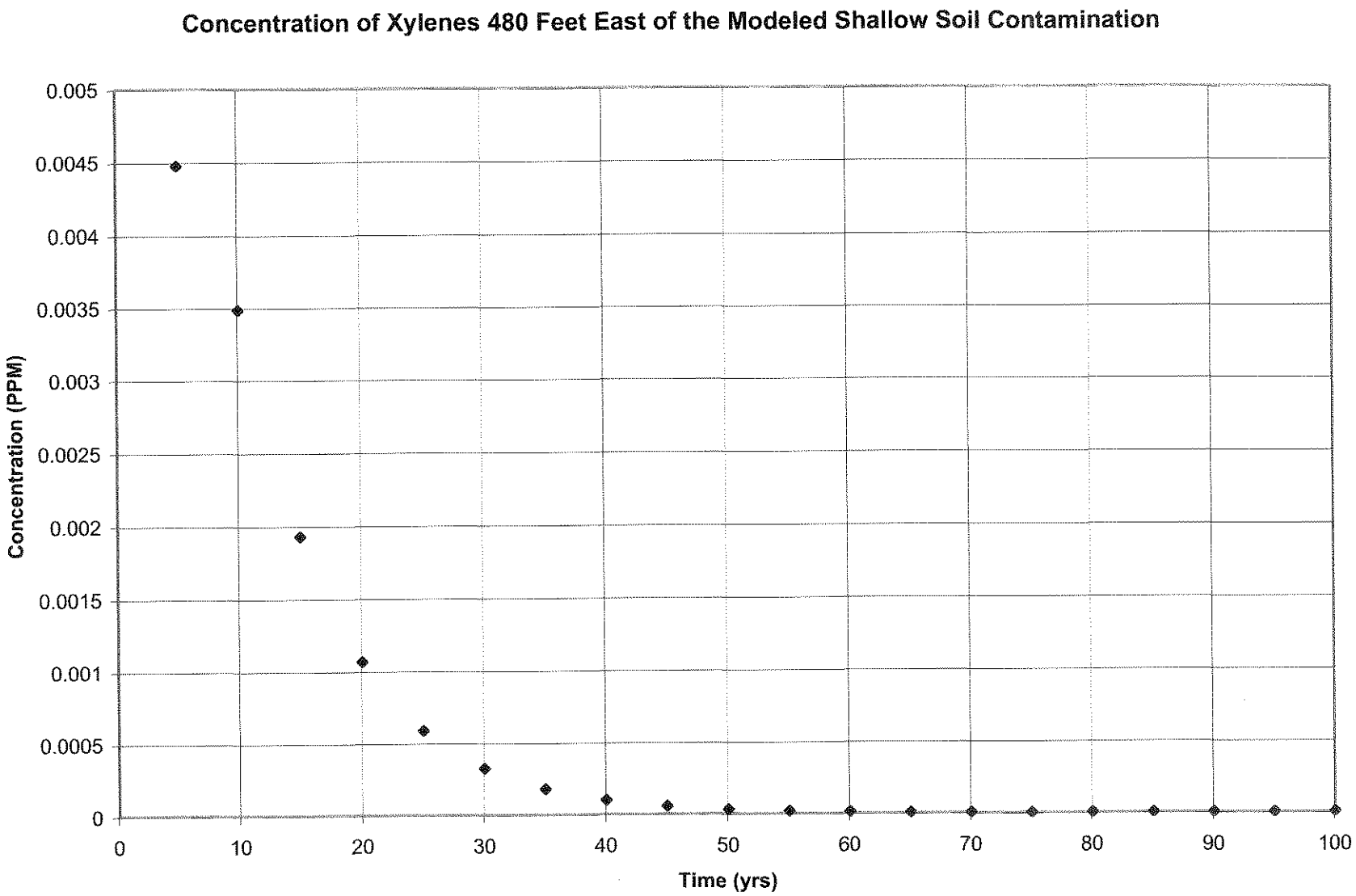


Figure 5.52: Concentration of Xylenes 480 Feet East of the Modeled Shallow Soil Contamination

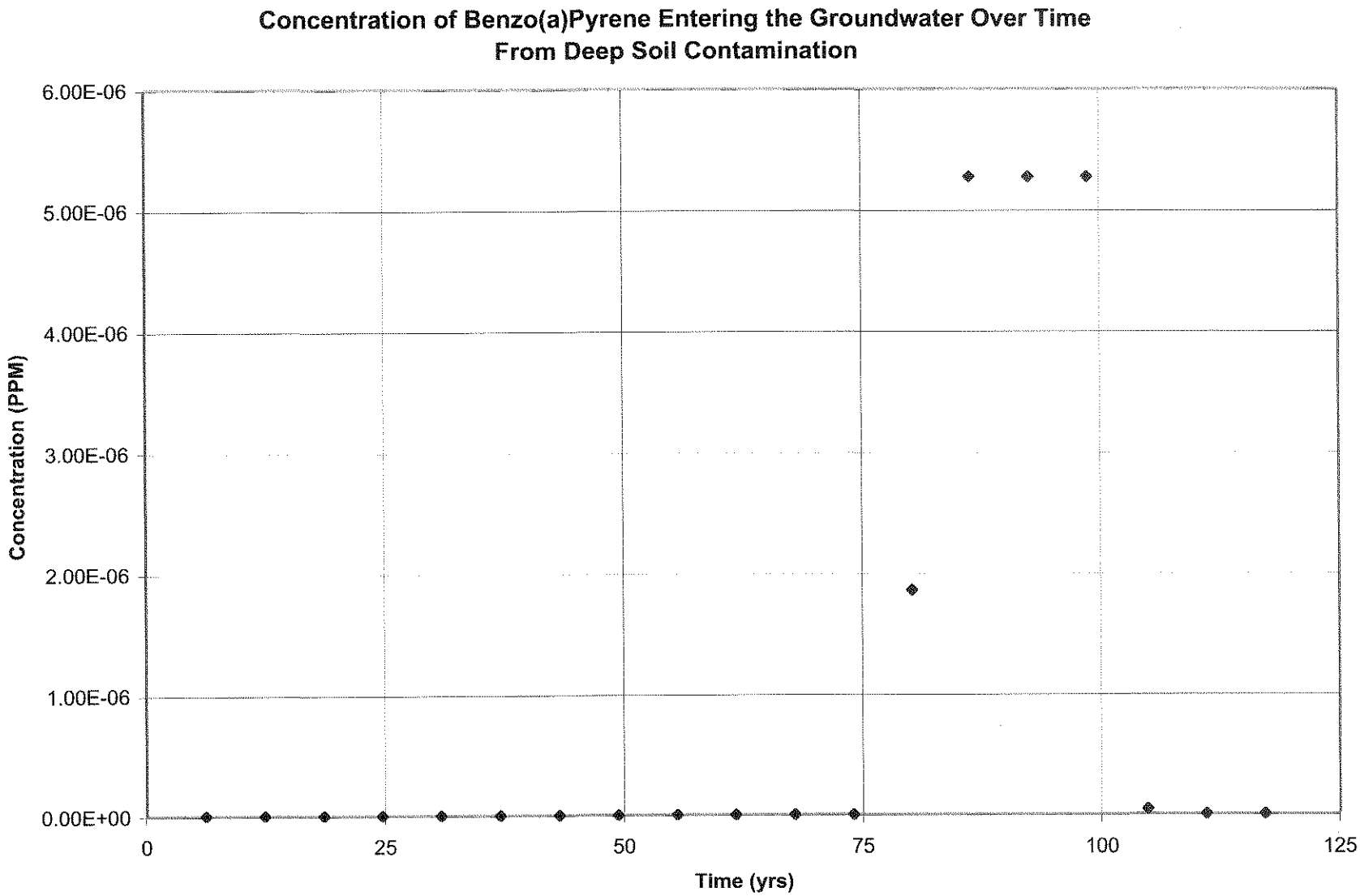


Figure 5.53: Concentration of Benzo(a)Pyrene Entering the Groundwater Over Time From Deep Soil Contamination

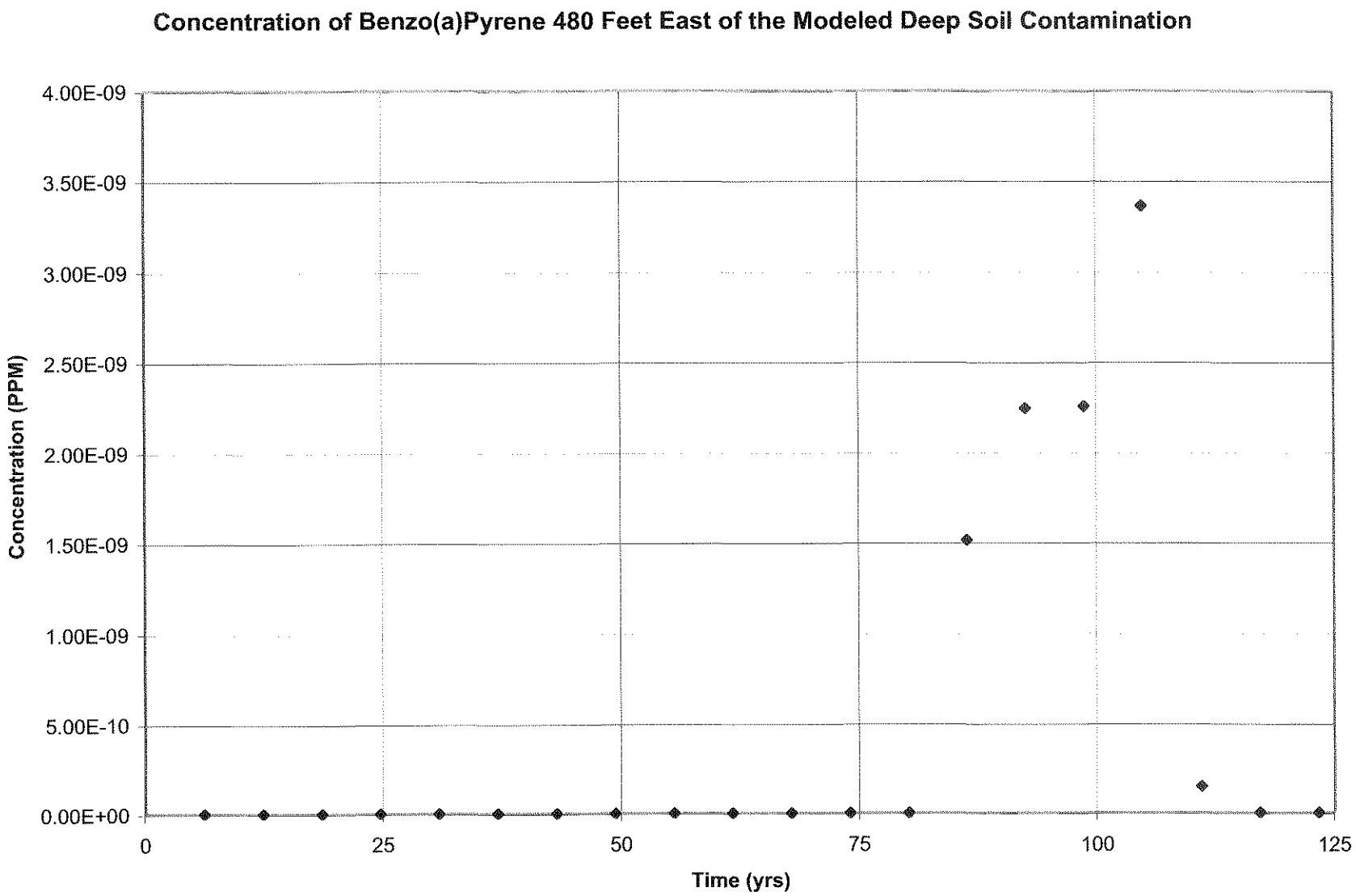


Figure 5.54: Concentration of Benzo(a)Pyrene 480 Feet East of the Modeled Deep Soil Contamination

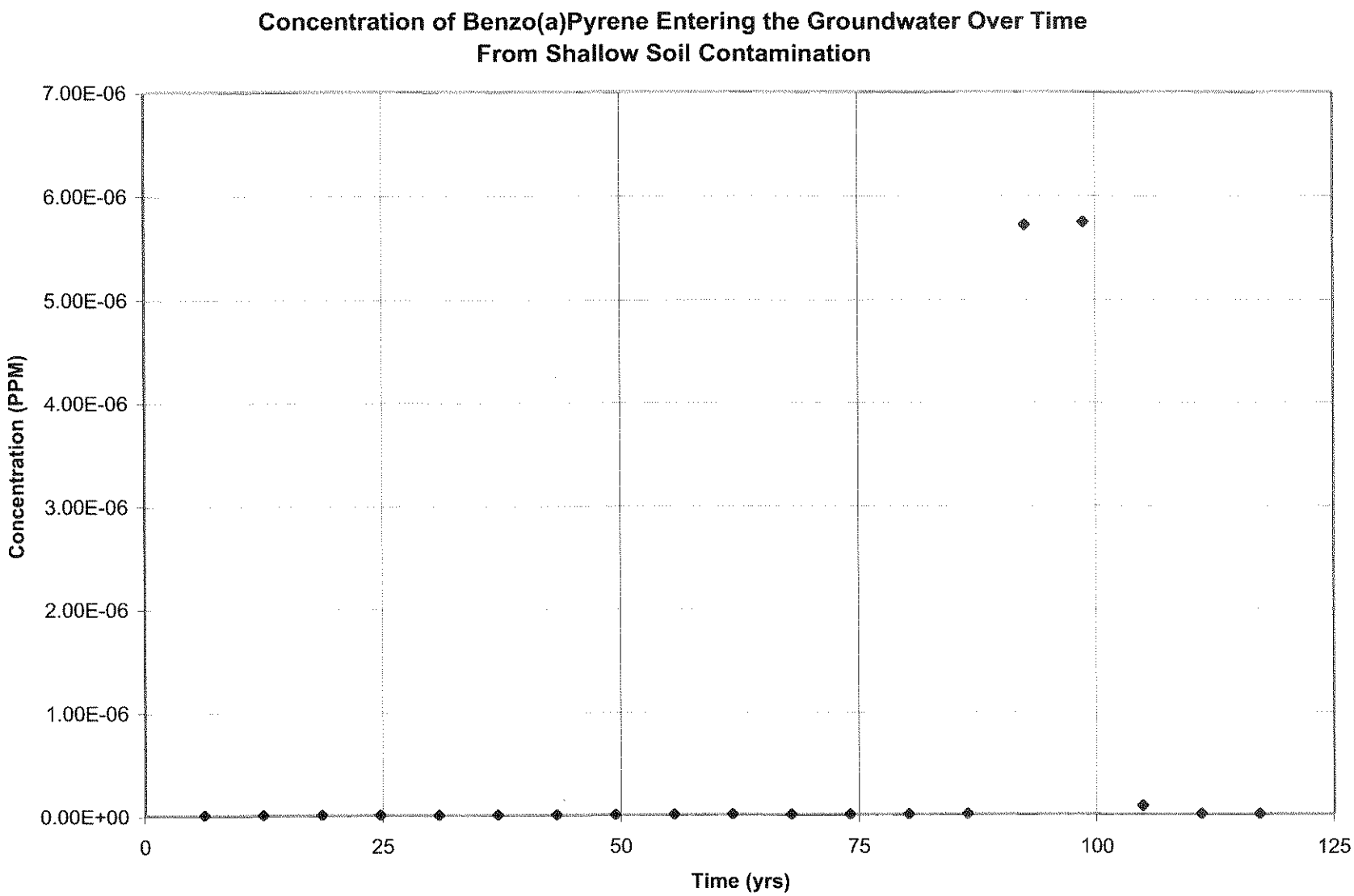


Figure 5.55: Concentration of Benzo(a)Pyrene Entering the Groundwater Over Time From Shallow Soil Contamination

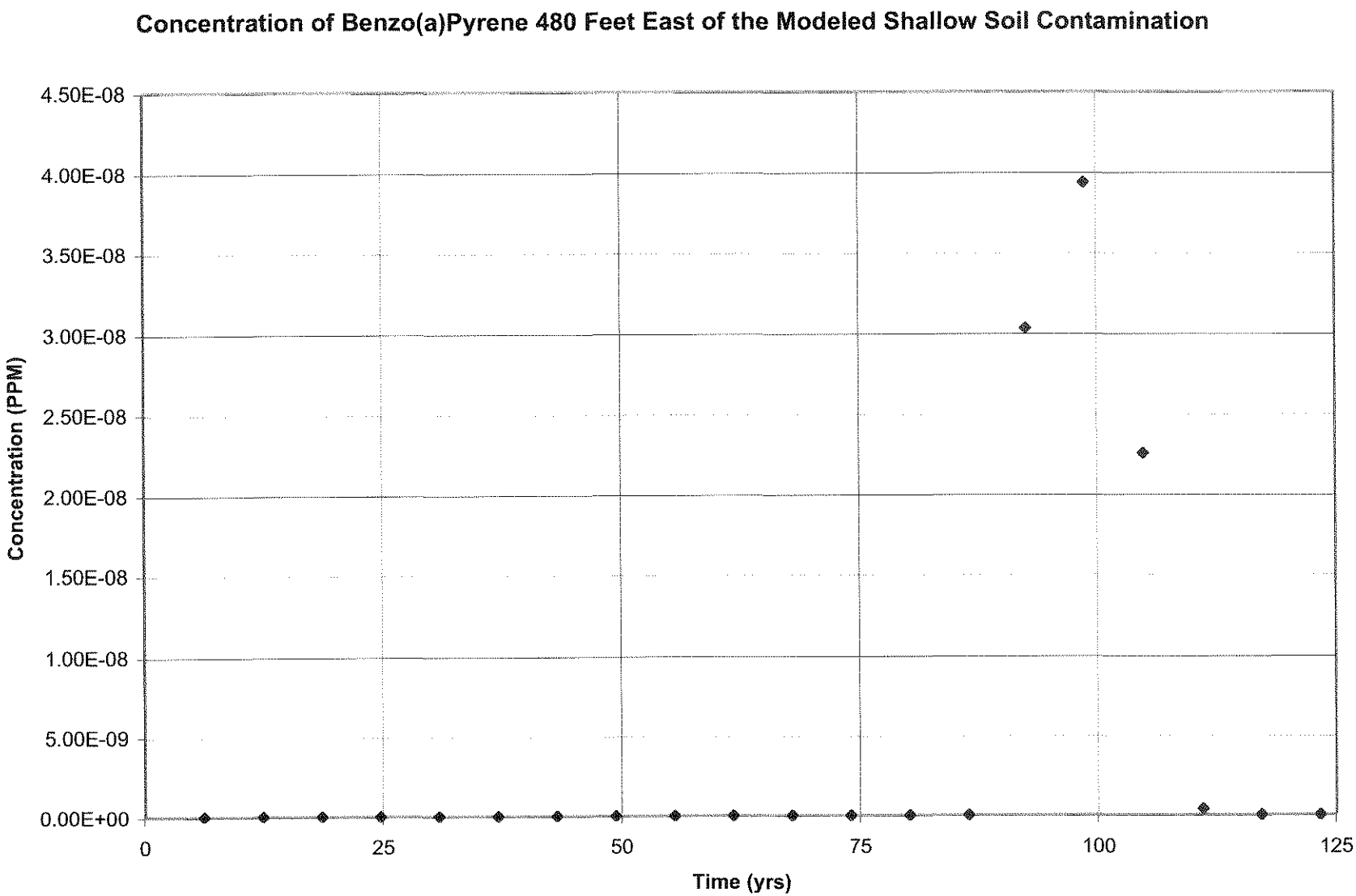


Figure 5.56: Concentration of Benzo(a)Pyrene 480 Feet East of the Modeled Shallow Soil Contamination

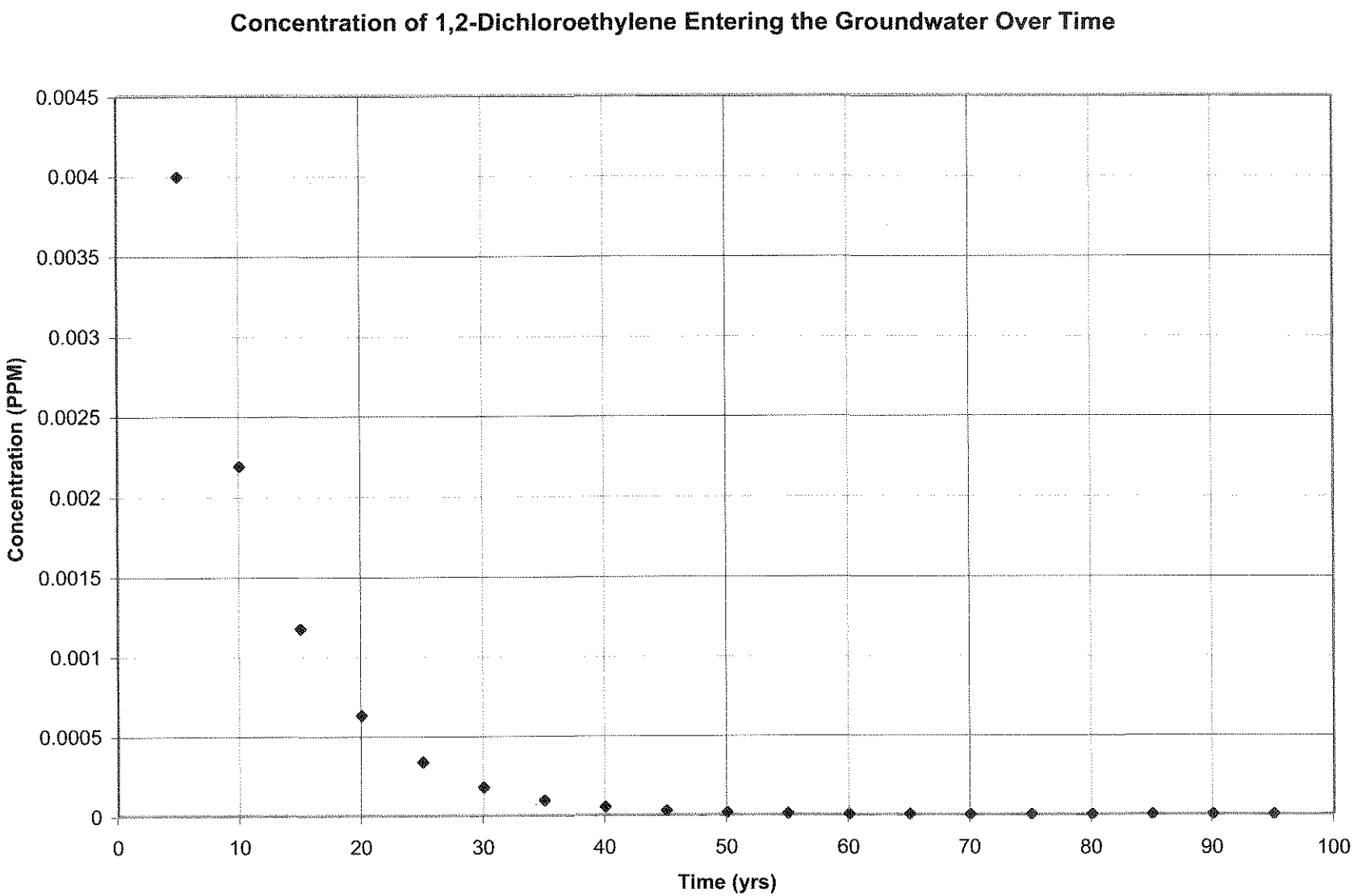


Figure 5.57: Concentration of 1,2-Dichloroethylene Entering the Groundwater Over Time

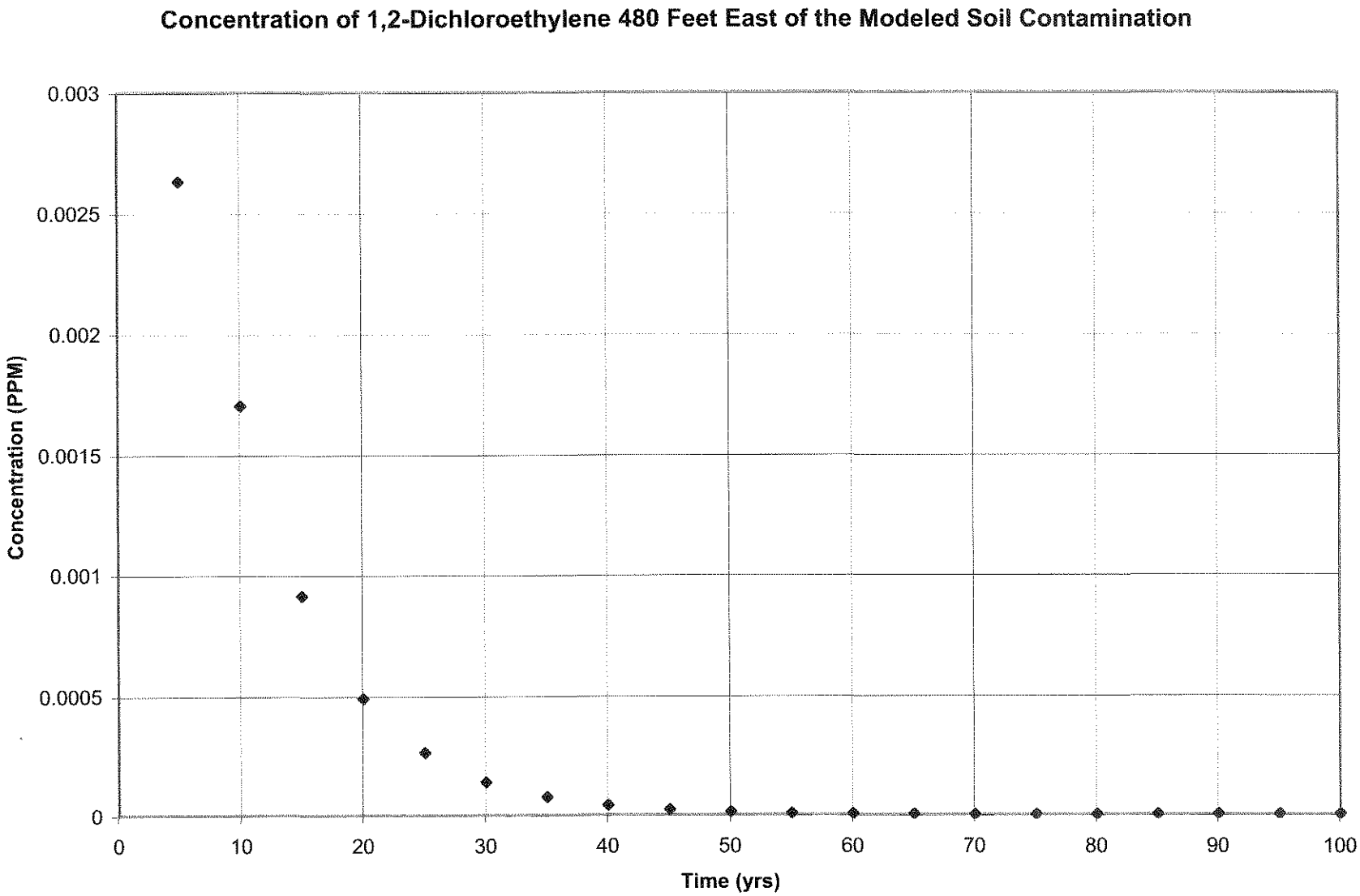


Figure 5.58: Concentration of 1,2-Dichloroethylene 480 Feet East of the Modeled Soil Contamination

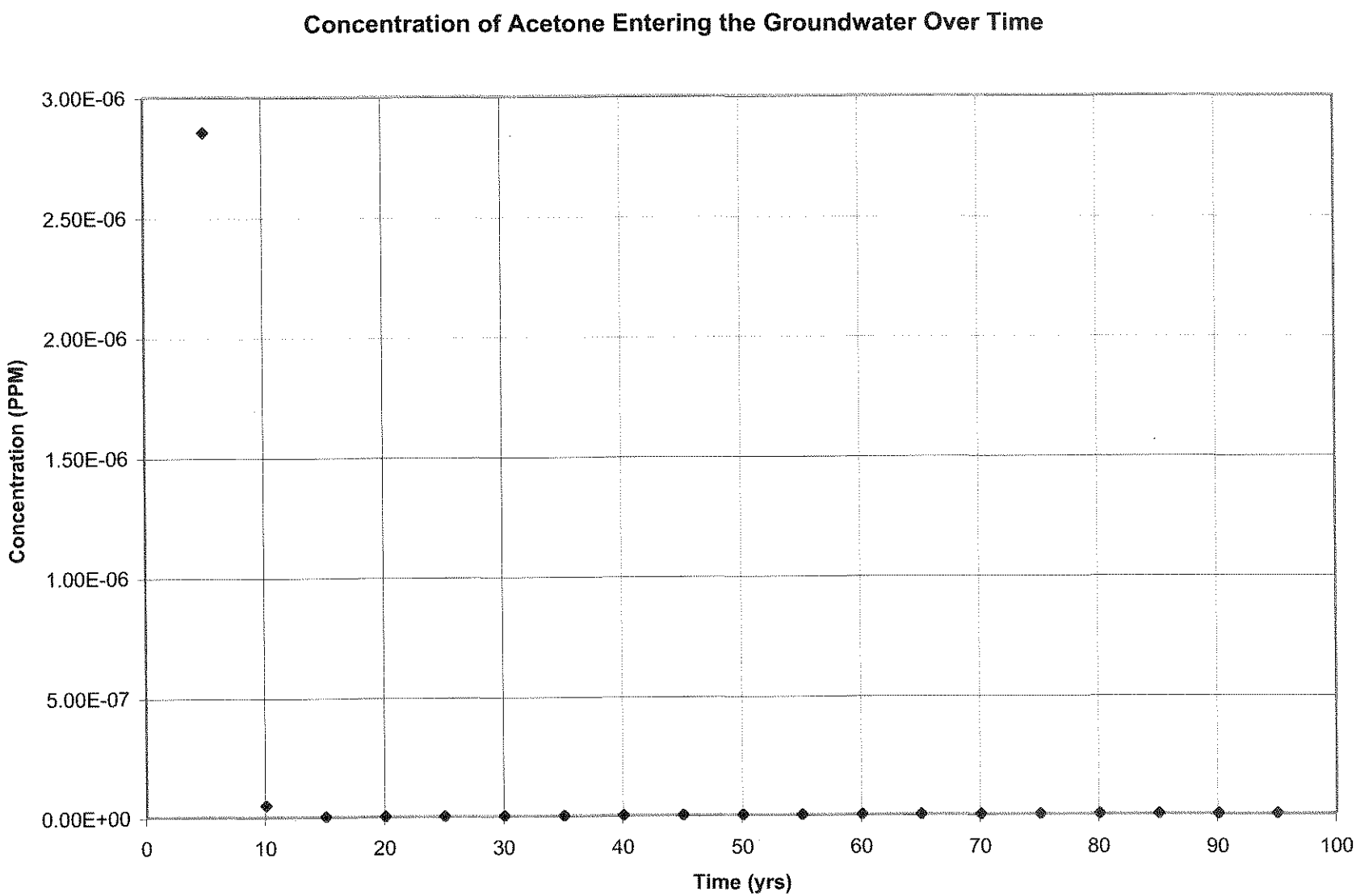


Figure 5.59: Concentration of Acetone Entering the Groundwater Over Time

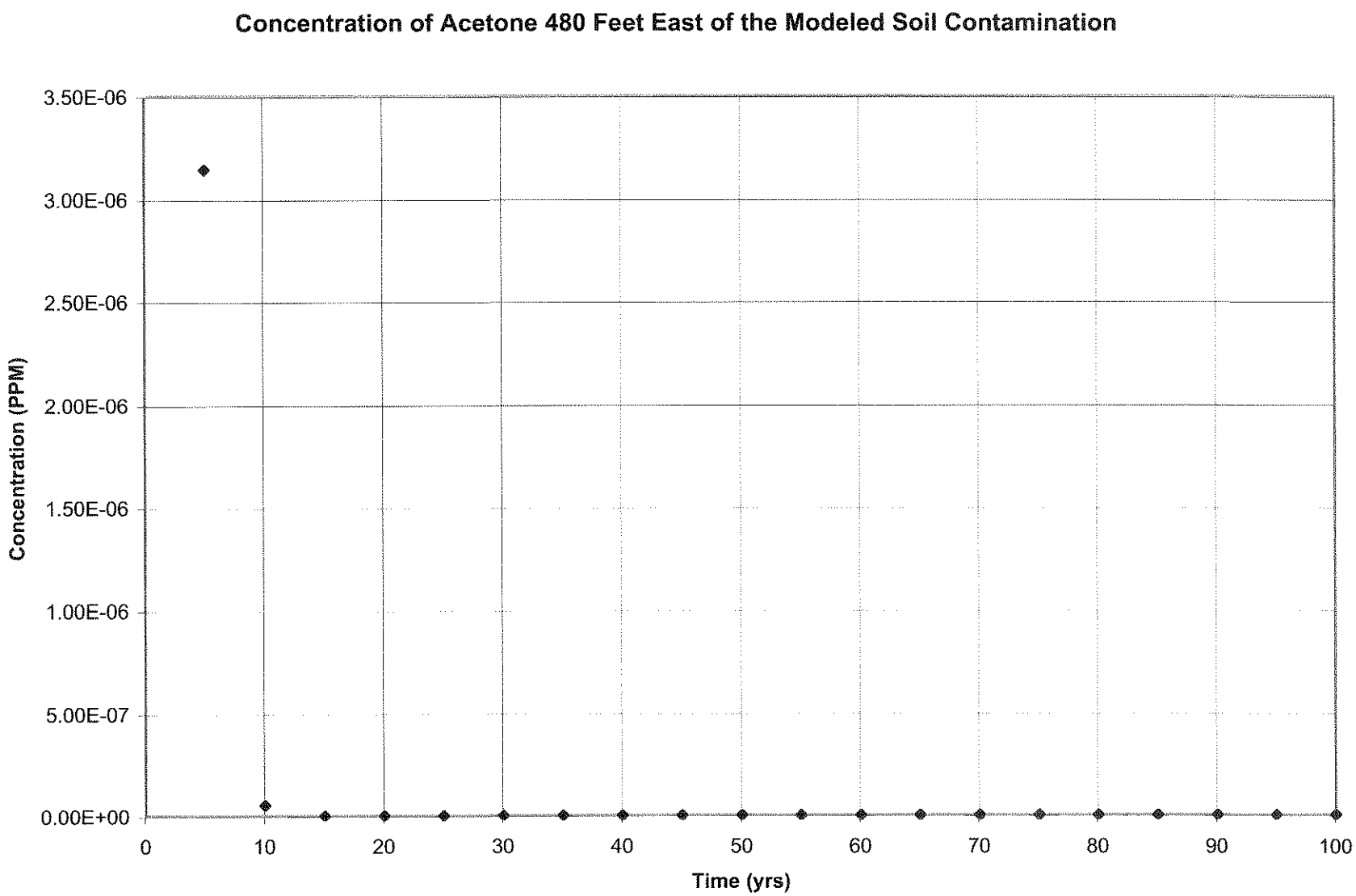


Figure 5.60: Concentration of Acetone 480 Feet East of the Modeled Soil Contamination

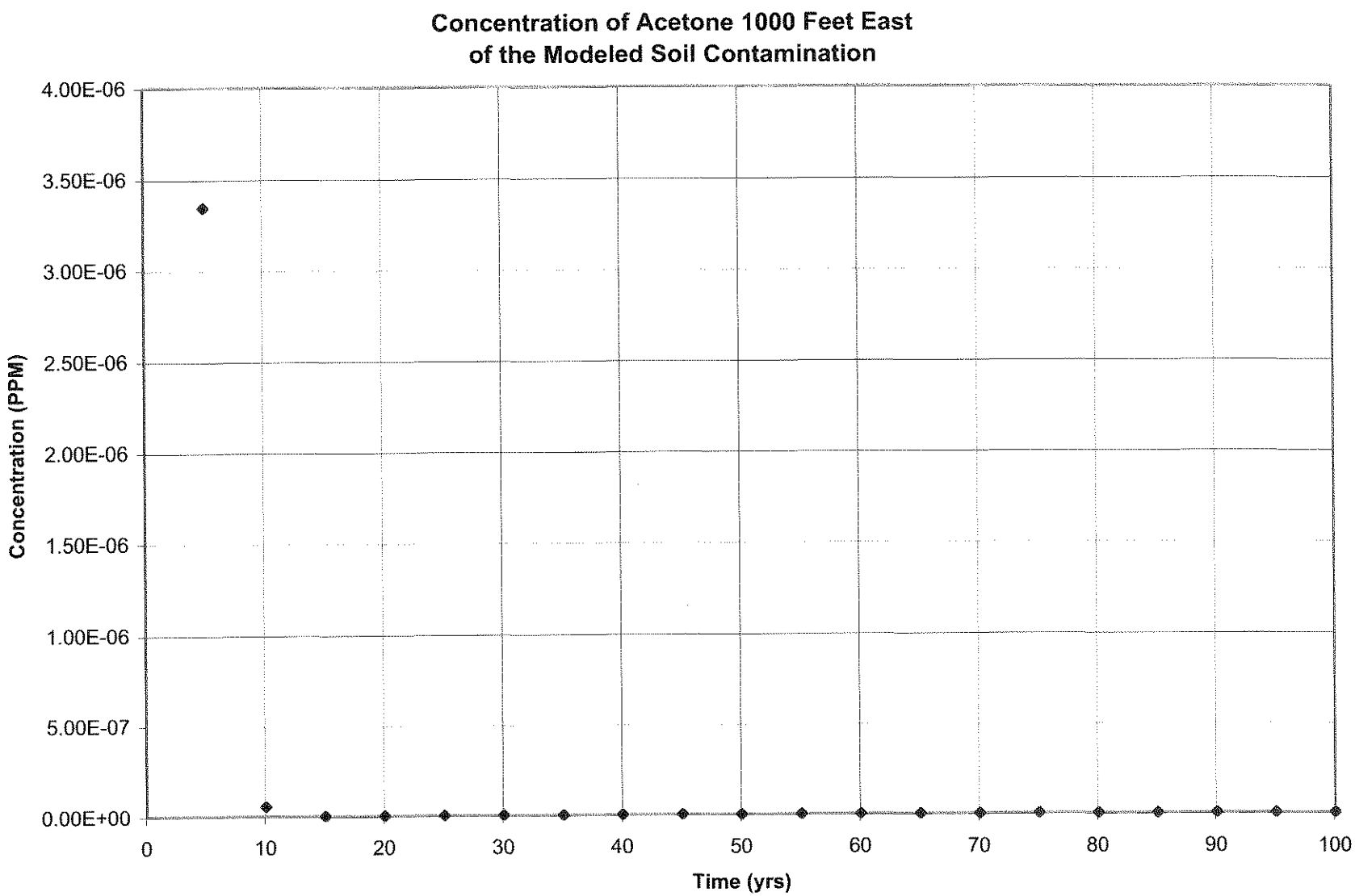


Figure 5.61: Concentration of Acetone 1000 Feet East of the Modeled Soil Contamination

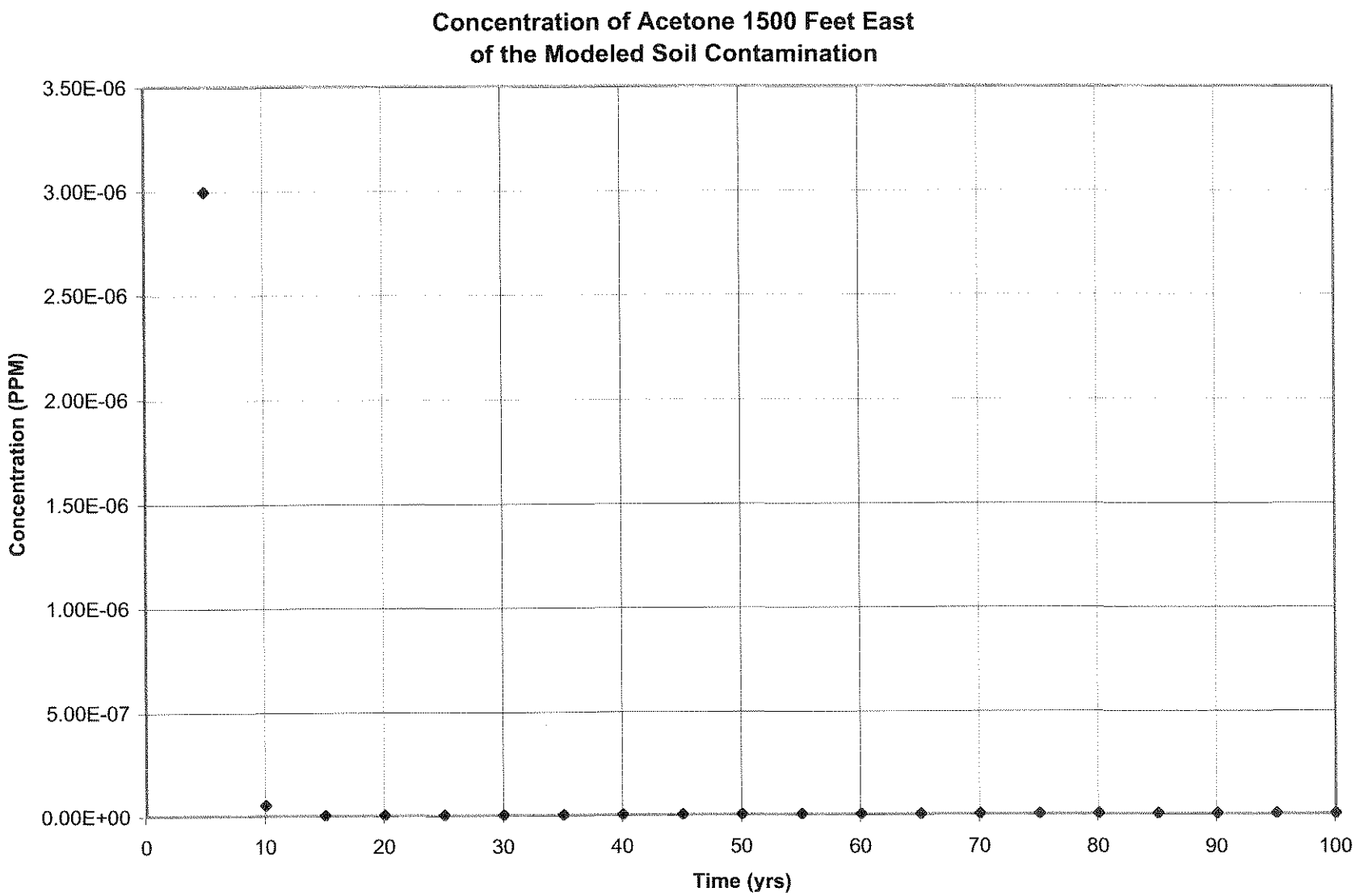


Figure 5.62: Concentration of Acetone 1500 Feet East of the Modeled Soil Contamination

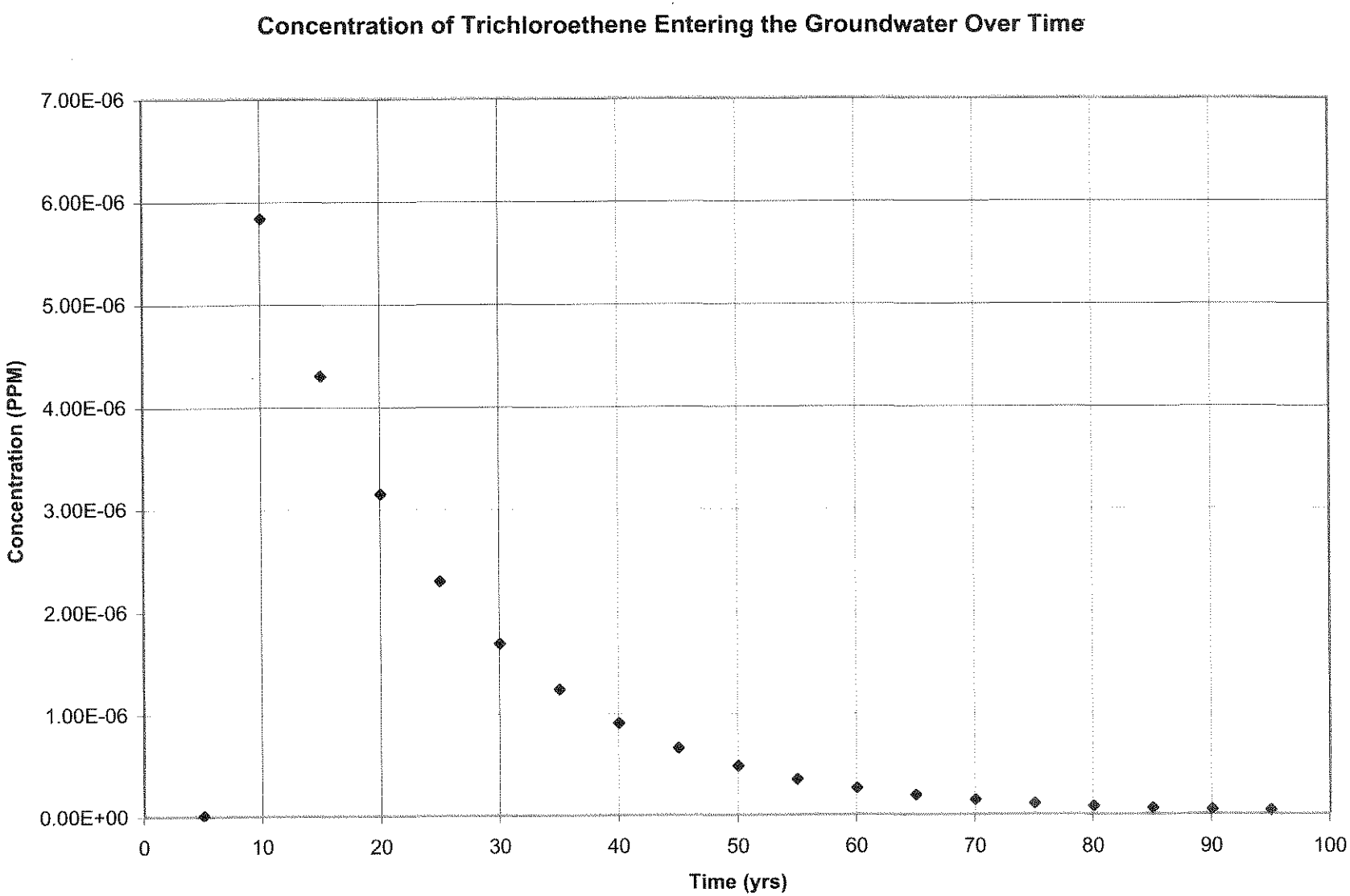


Figure 5.63: Concentration of Trichloroethene Entering the Groundwater Over Time

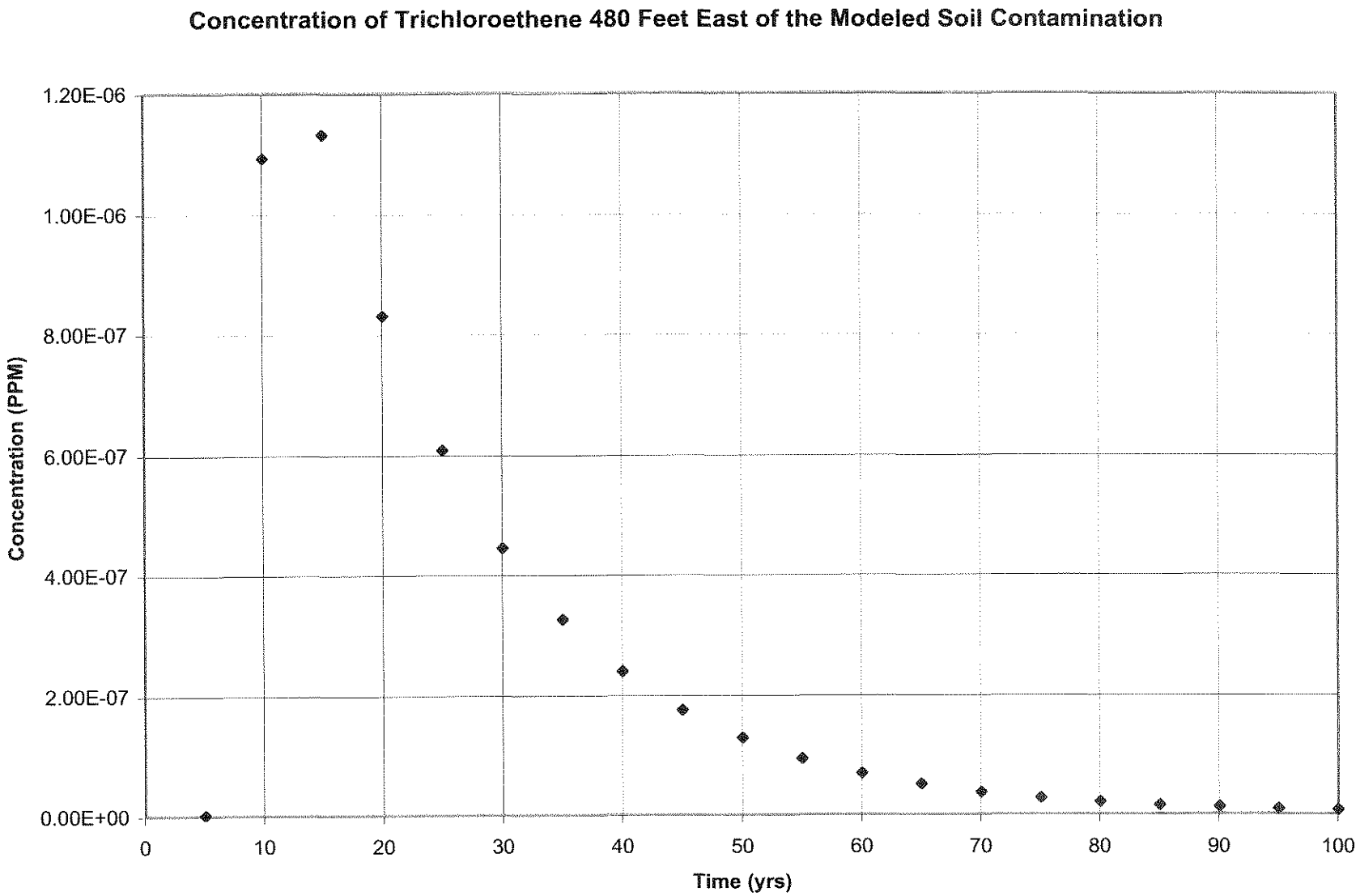
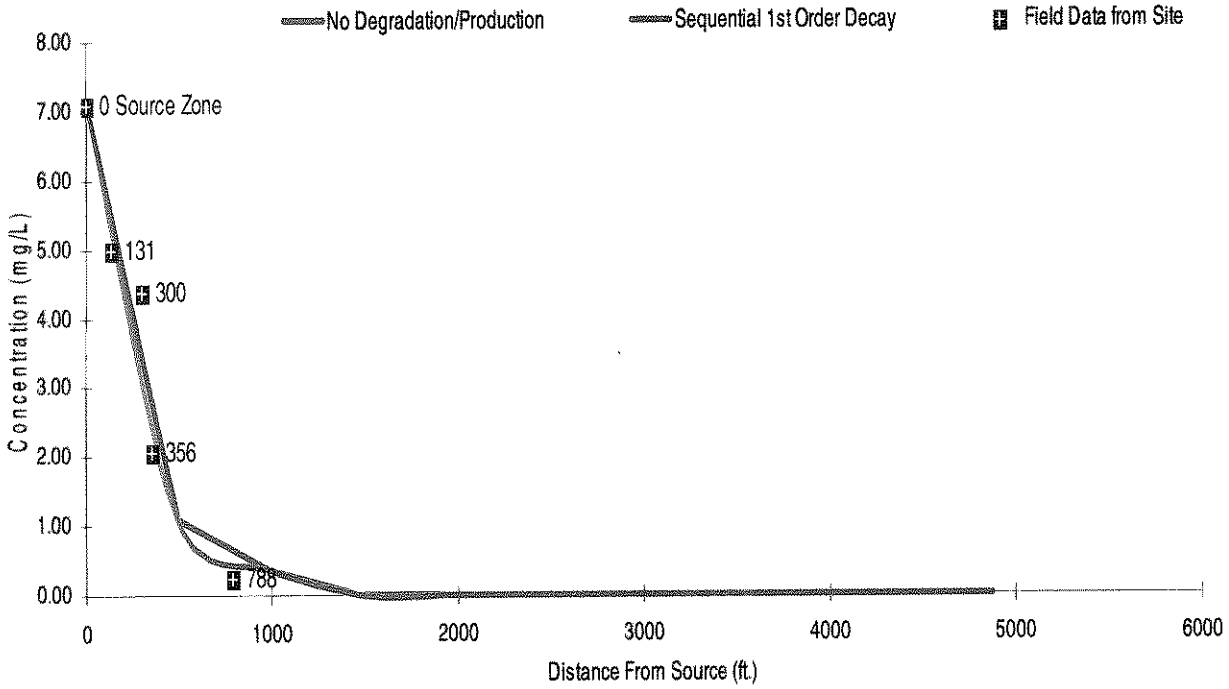
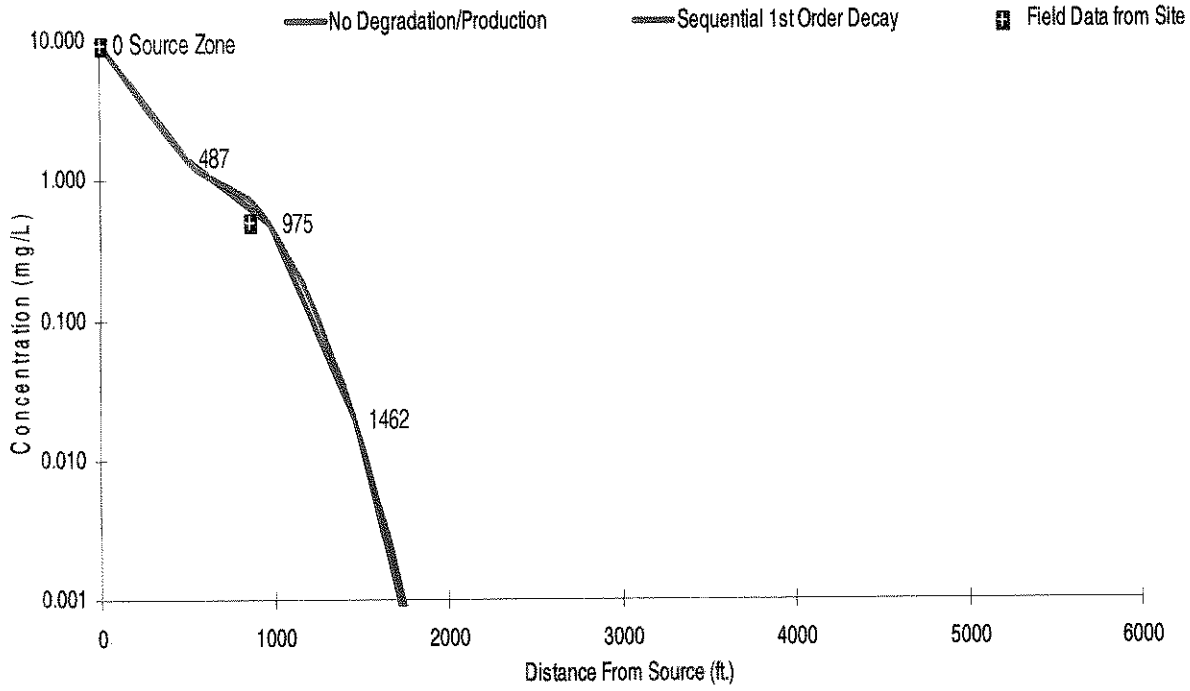


Figure 5.64: Concentration of Trichloroethene 480 Feet East of the Modeled Soil Contamination

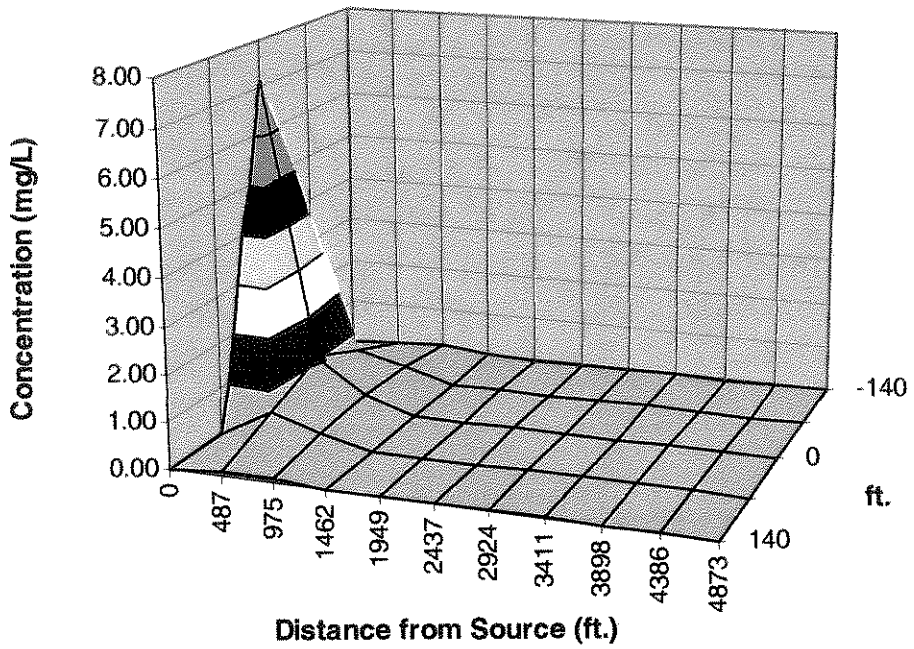


S105-MW01

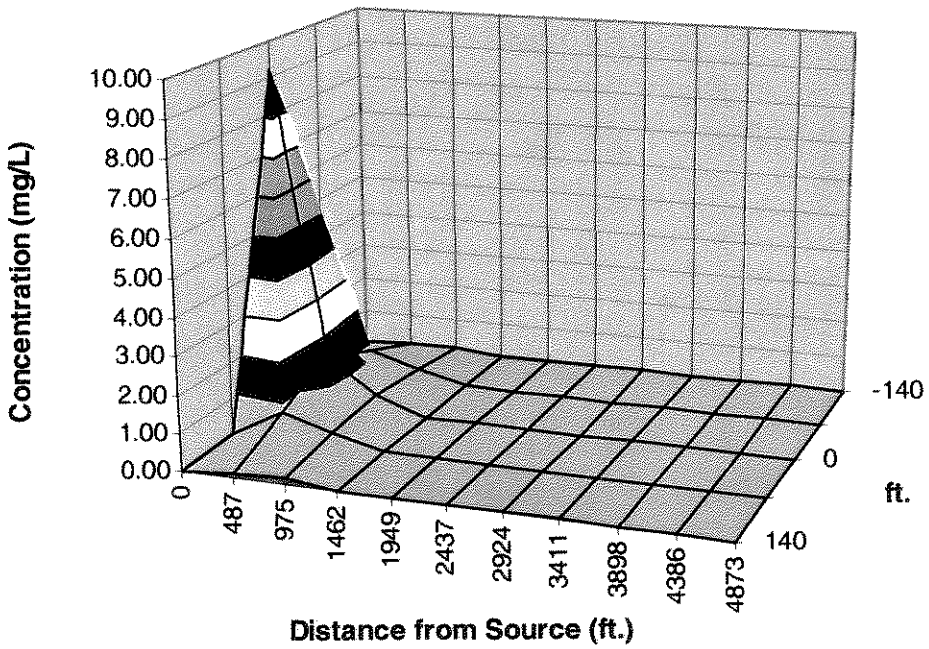


S109-MW06

Figure 5.65. Modeled Concentrations of Vinyl Chloride Along Plume Centerline

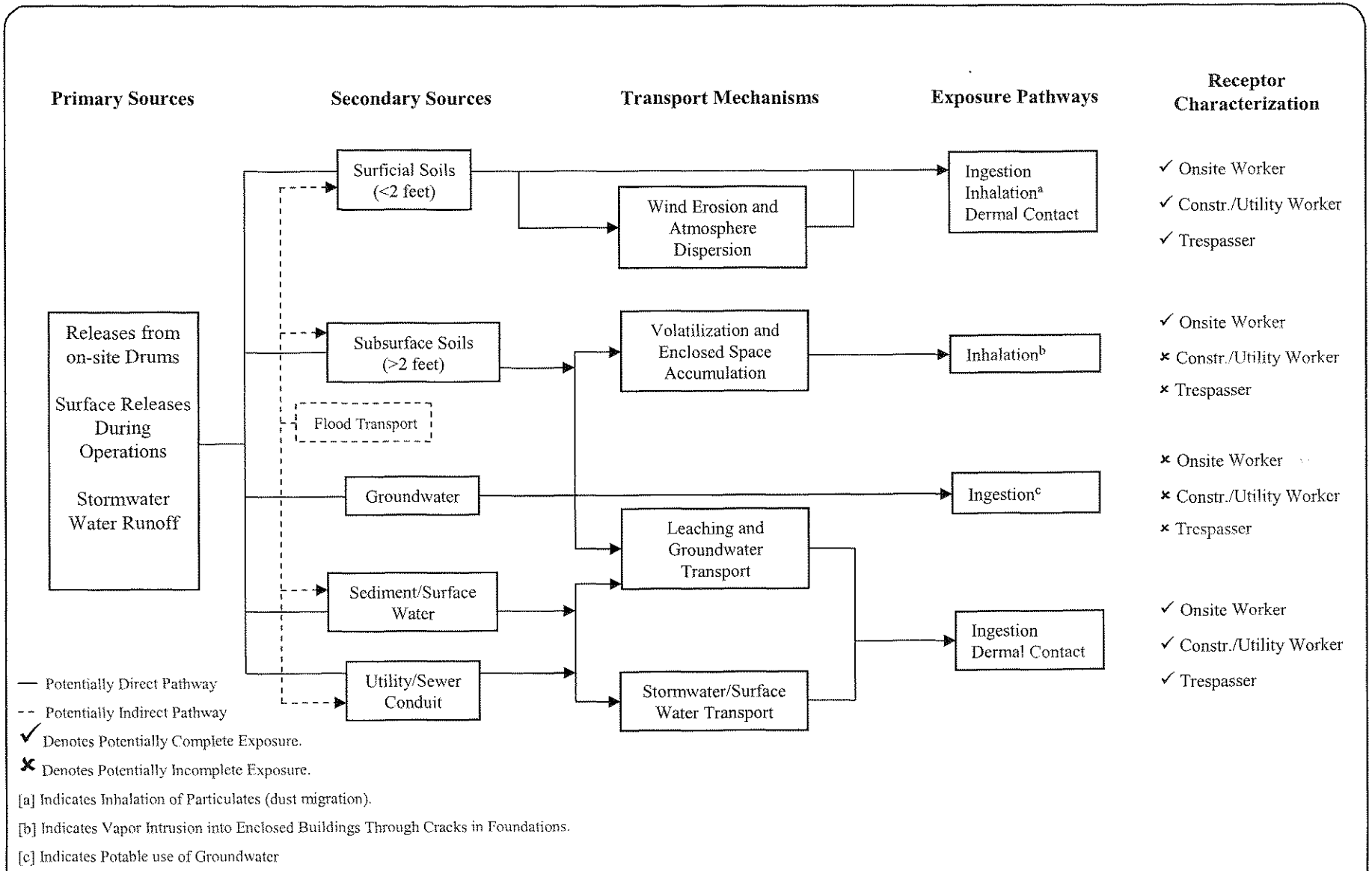


S105-MW01



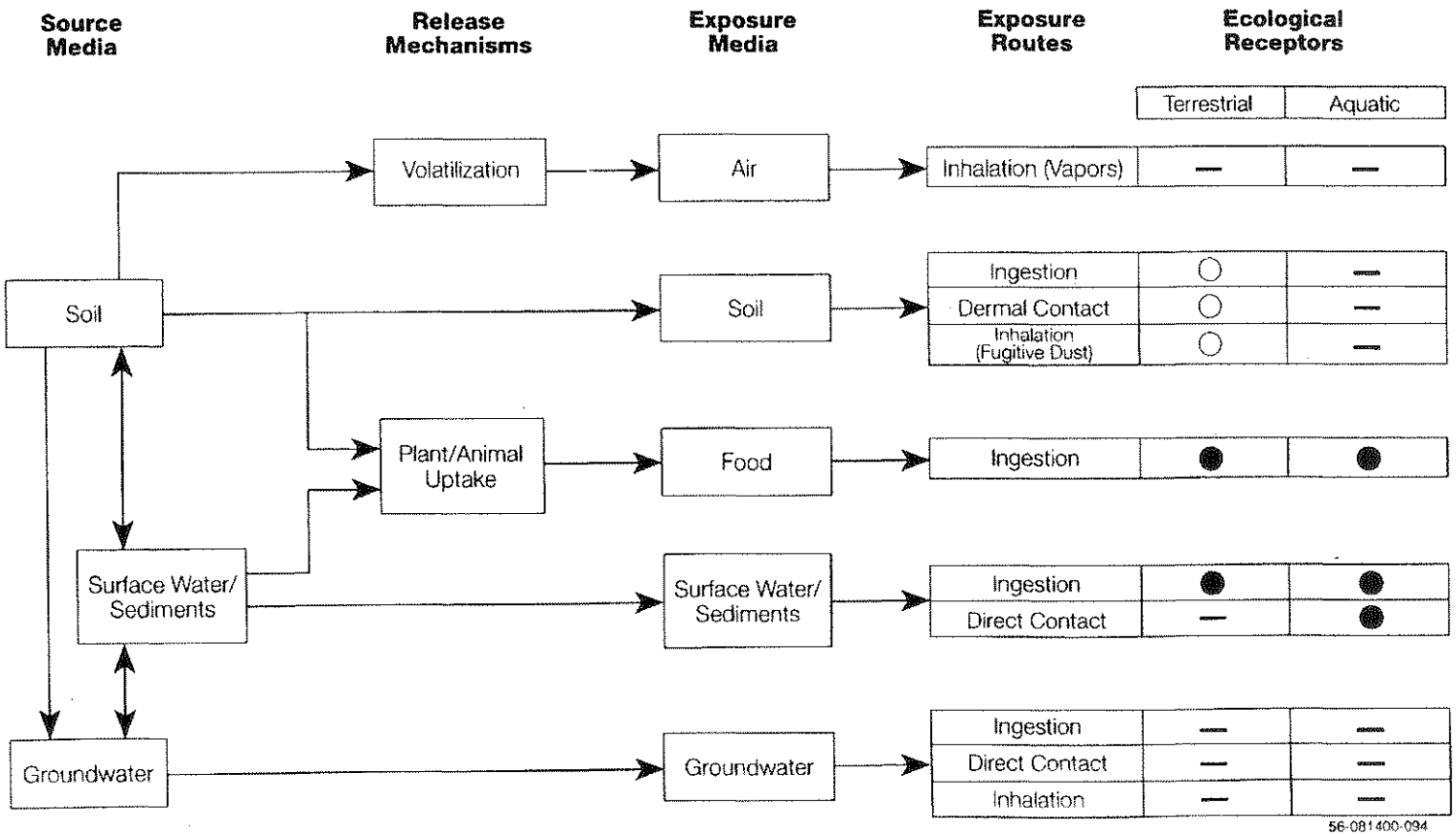
S109-MW06

Figure 5.66. Modeled Concentration of Vinyl Chloride in Plume



RMT

Figure 6.1 Conceptual Site Model For Franklin Steel Exposures

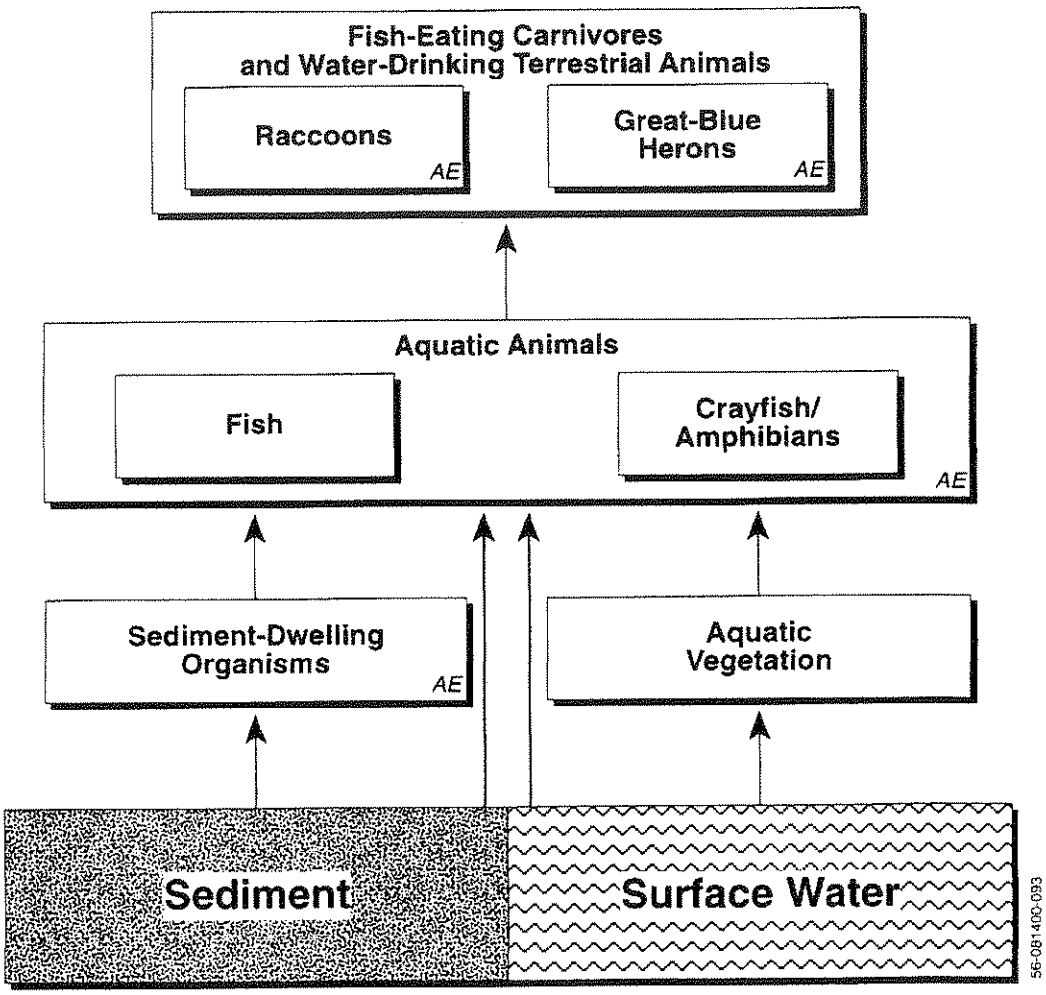


● Complete pathway evaluated with numbers such as hazard quotients

○ Complete pathway not evaluated because planned future industrial land use will remove terrestrial habitat

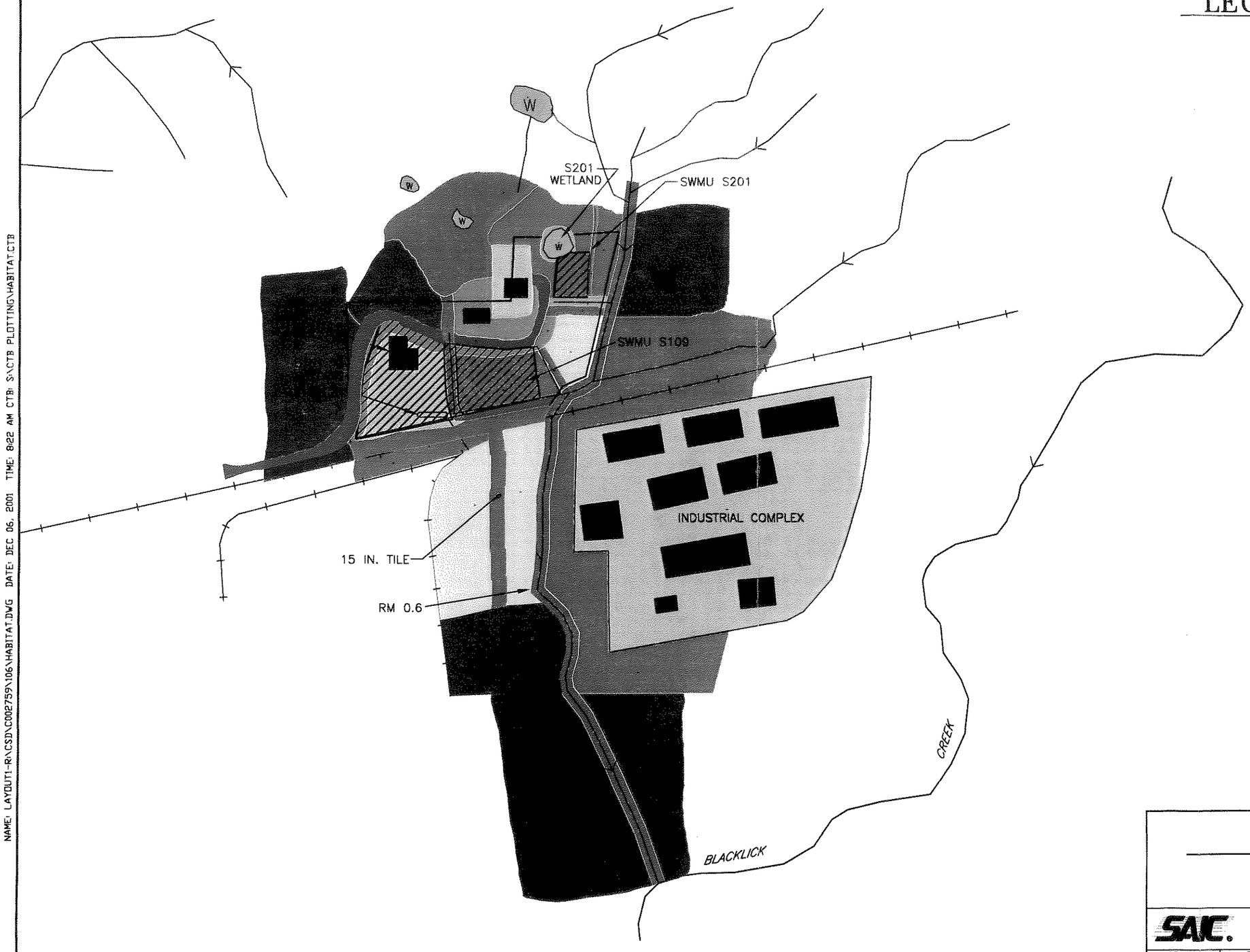
— Incomplete pathway, not evaluated

Figure 7.1. Exposure Pathways for Potential Aquatic Receptors



AE = assessment endpoint; organisms with no AE in box means they are intermediate in terms of transfers.

Figure 7.2. Aquatic Food Web for Ecological Risk Assessment near Franklin Steel Drum Facility



LEGEND

- Road
- Industrial
- Light Industrial
- Lawn
- Wetland
- Soybeans
- Oldfield
- Tree-lines/forest
- Riparian Corridor

FRANKLIN STEEL CO.
BLACKLICK, OHIO

HABITAT MAP

SAIC Science Applications International Corporation Columbus, Ohio

DRAWN	DATE	SCALE	PROJECT NO.	DRAWING NO.
MRK	10/1/98	1=1000	C00-2759-106	7.3

NAME: LAYOUT1-RA\CSD\C002759\106\HABITAT.DWG DATE: DEC 06, 2001 TIME: 8:22 AM CTB: SA\CTB PLOTTING\HABITAT.CTB