

APPENDIX G
SENSITIVITY ANALYSIS

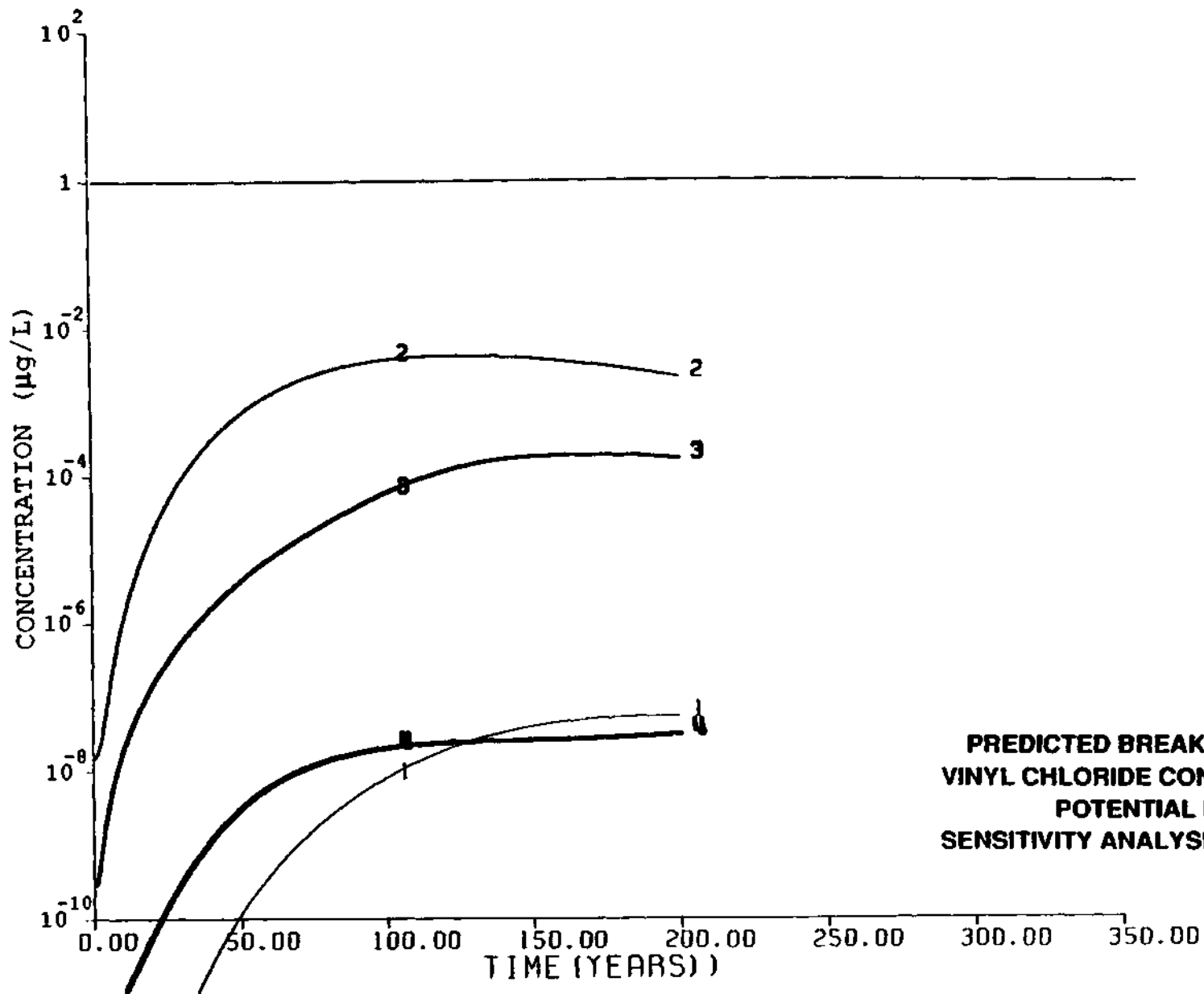


Figure G.1a
**PREDICTED BREAKTHROUGH CURVES OF
 VINYL CHLORIDE CONCENTRATION ($\mu\text{g/l}$) AT
 POTENTIAL RECEPTORS, LAYER 1,
 SENSITIVITY ANALYSIS CASE 1, AL = 100 FT.**

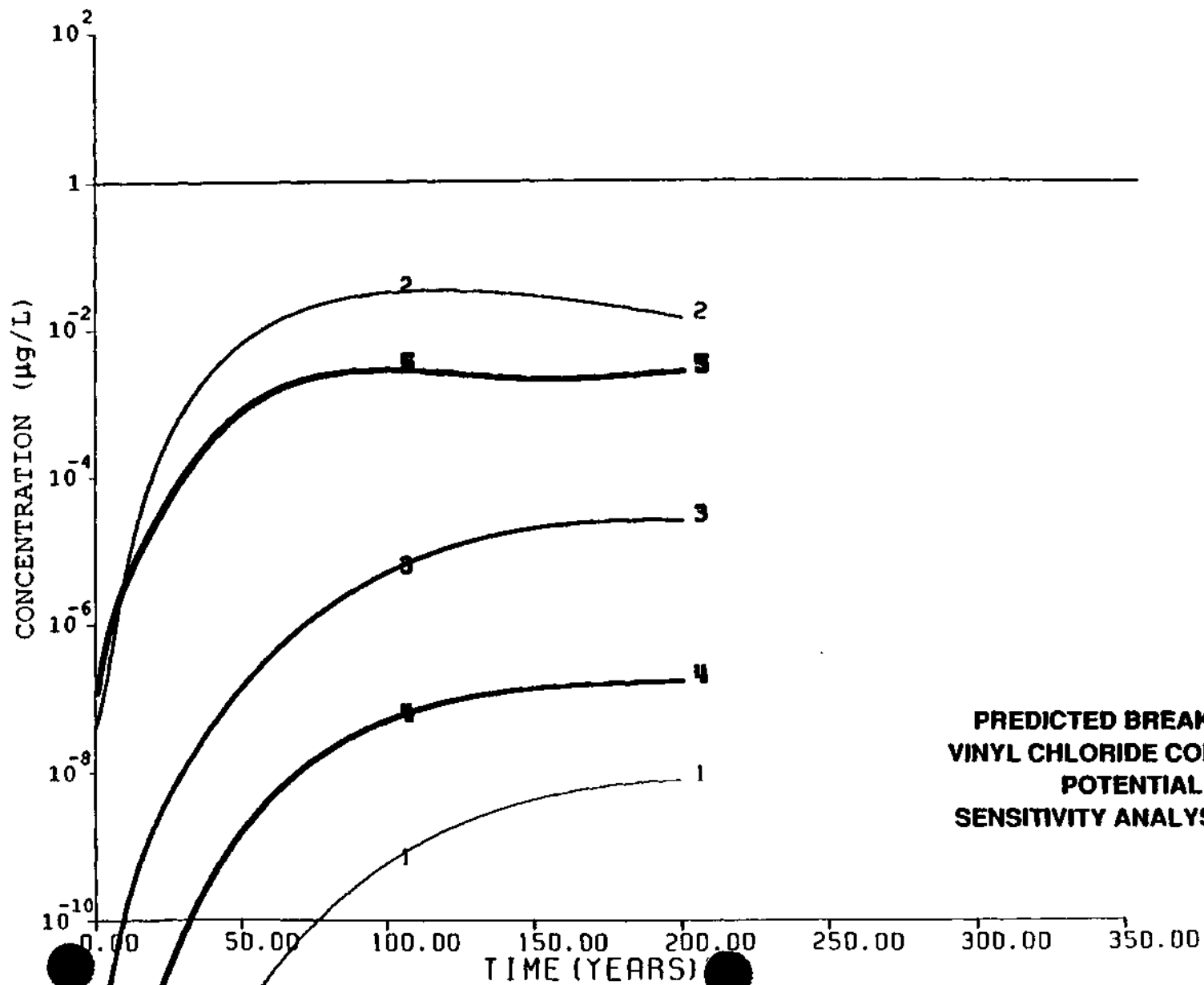


Figure G.1b
**PREDICTED BREAKTHROUGH CURVES OF
 VINYL CHLORIDE CONCENTRATION (µg/l) AT
 POTENTIAL RECEPTORS, LAYER 2,
 SENSITIVITY ANALYSIS CASE1, AL = 100 FT.**

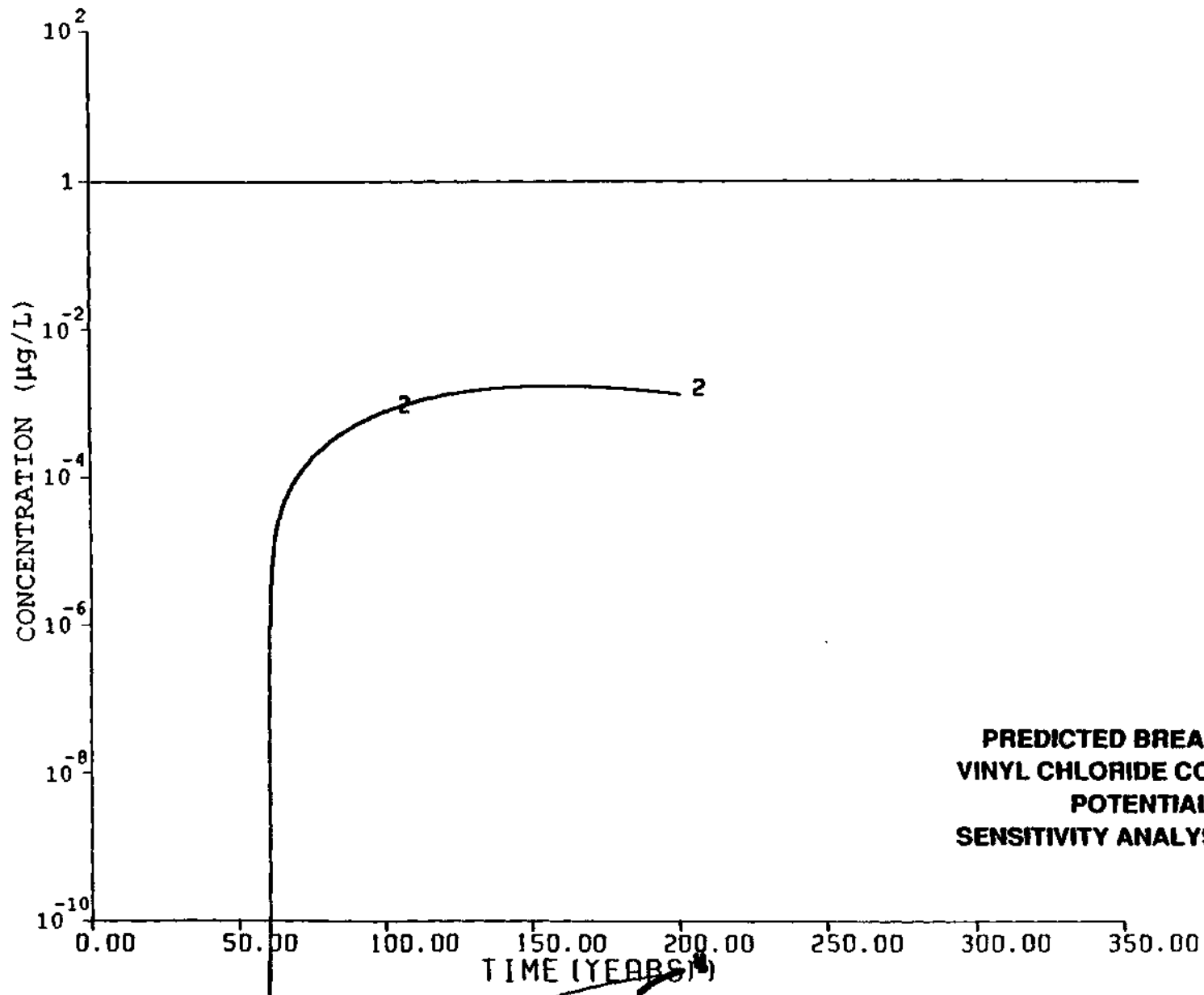


Figure G.1c
**PREDICTED BREAKTHROUGH CURVES OF
VINYL CHLORIDE CONCENTRATION (µg/l) AT
POTENTIAL RECEPTORS, LAYER 2,
SENSITIVITY ANALYSIS CASE 1, AL = 100 FT.**

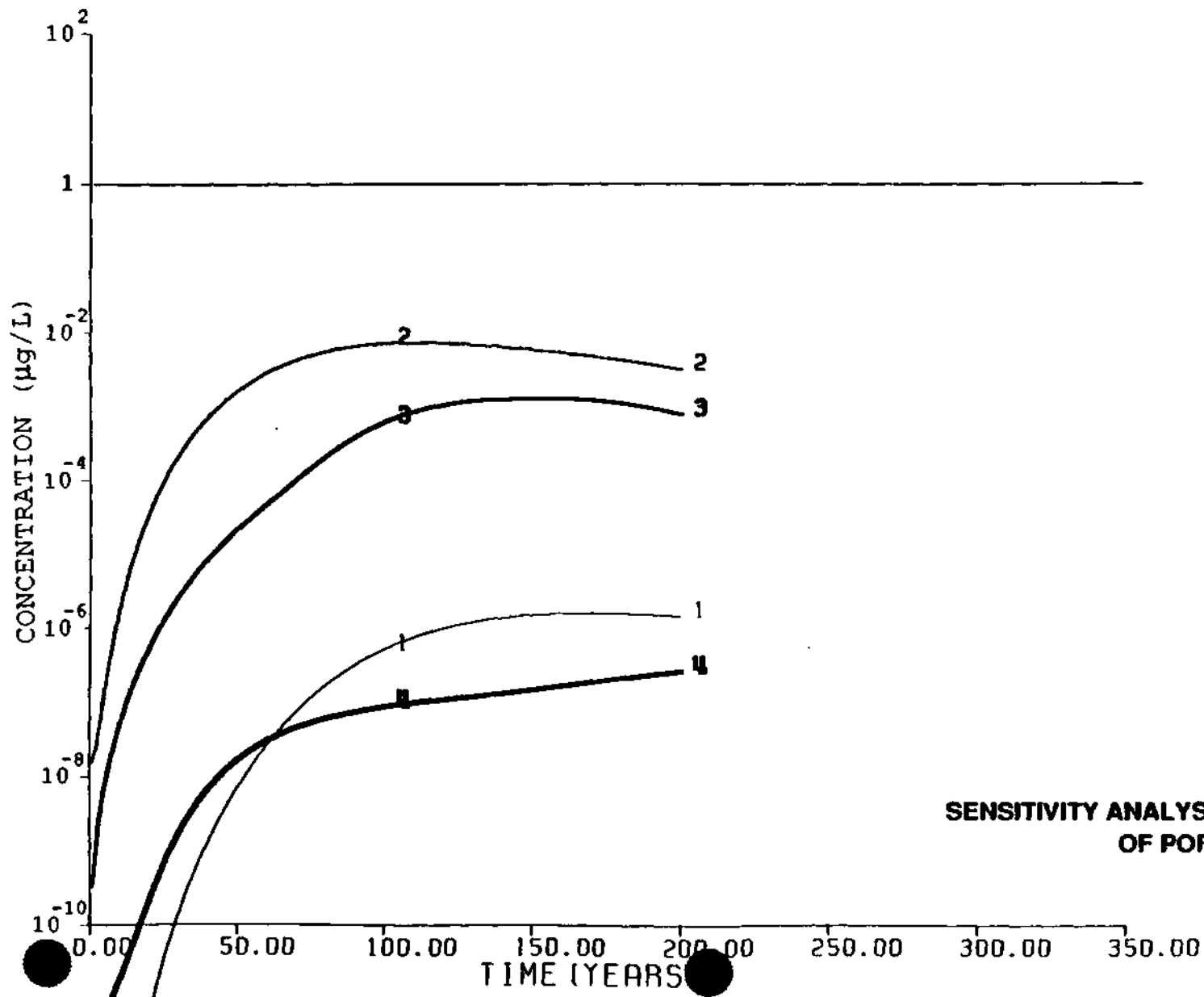


Figure G.2a
**SENSITIVITY ANALYSIS CASE 2, REDUCTION
 OF POROSITY BY 50 PERCENT**

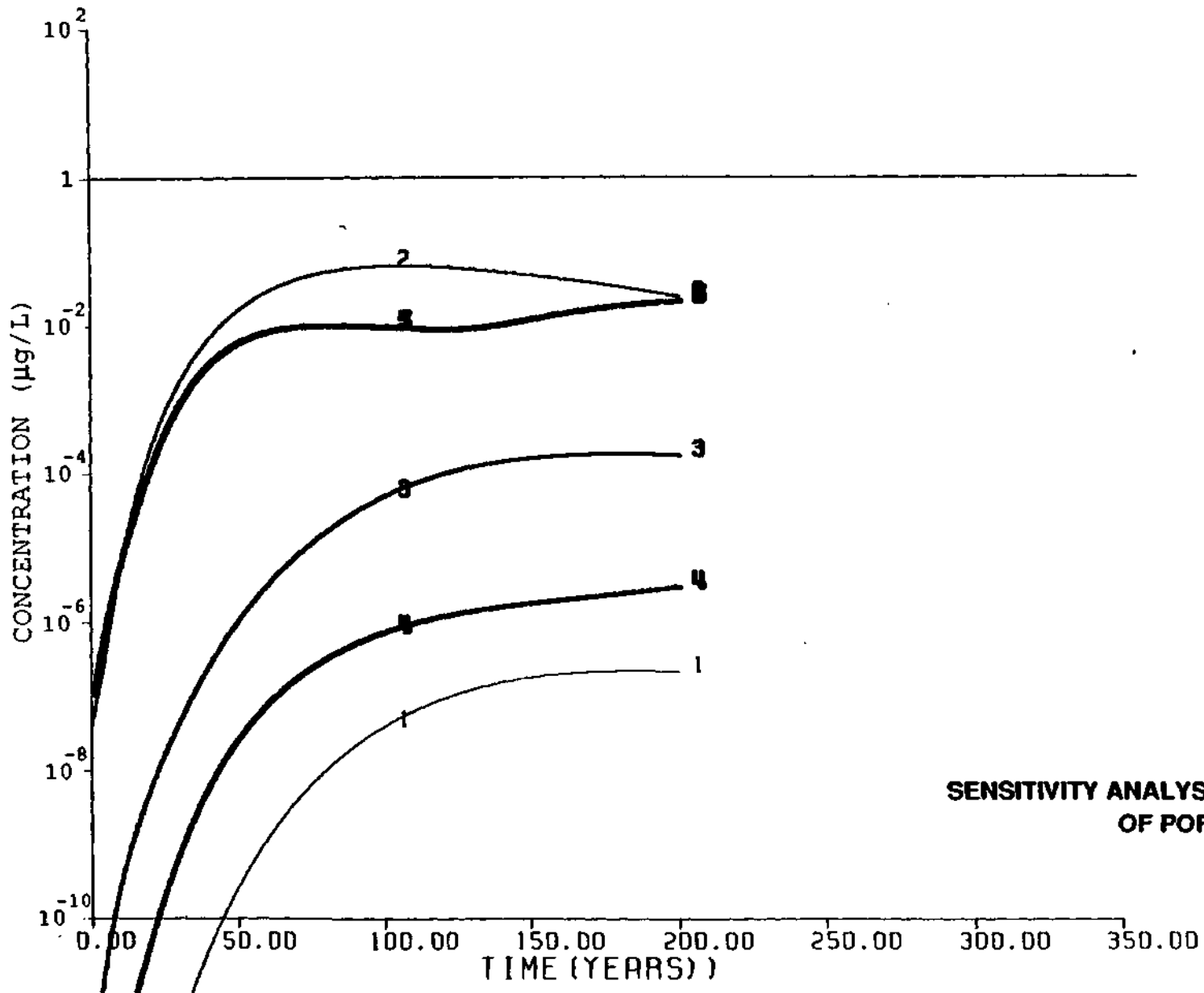


Figure G.2b
**SENSITIVITY ANALYSIS CASE 2, REDUCTION
OF POROSITY BY 50 PERCENT**

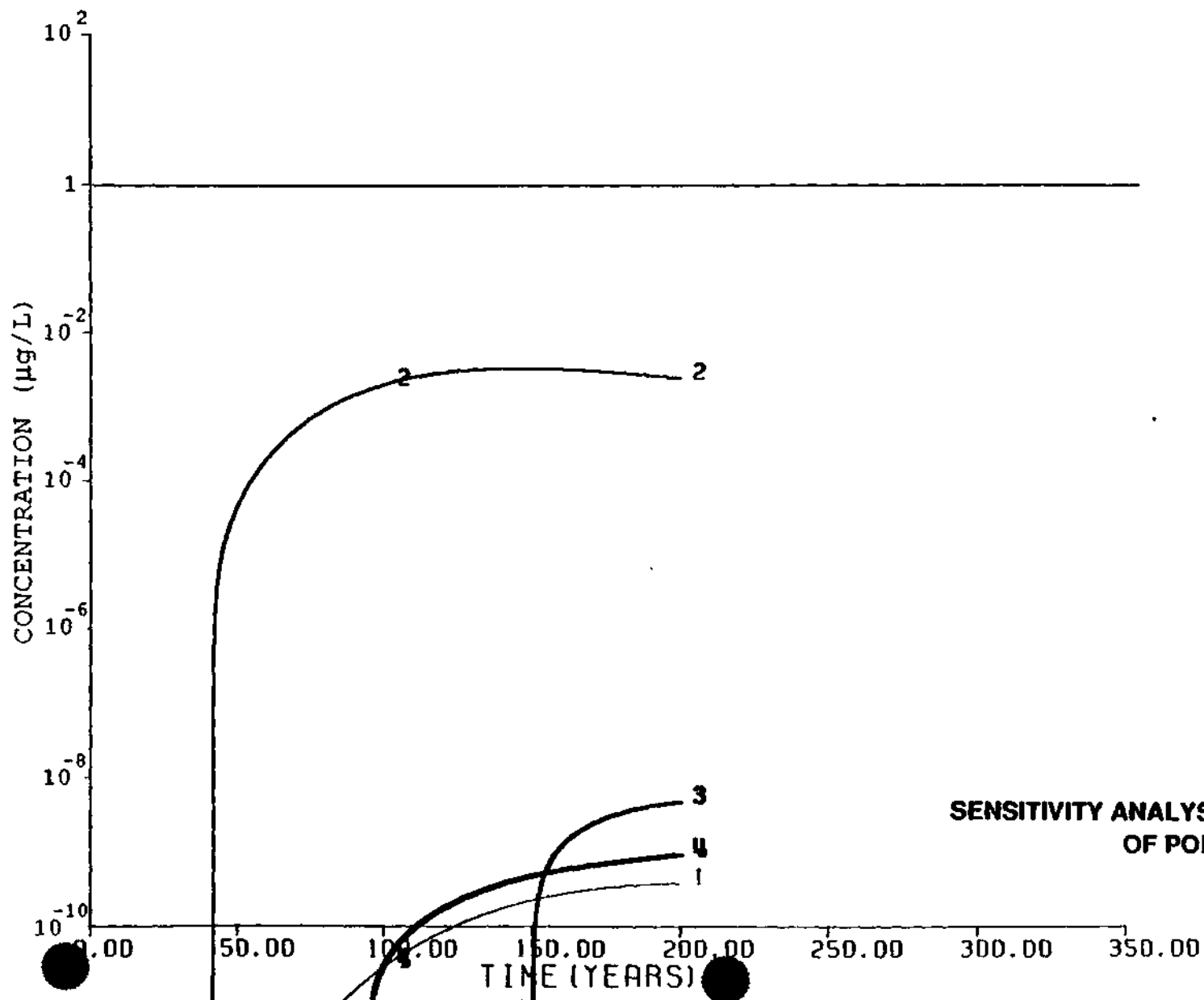


Figure G.2c
**SENSITIVITY ANALYSIS CASE 2, REDUCTION
 OF POROSITY BY 50 PERCENT**

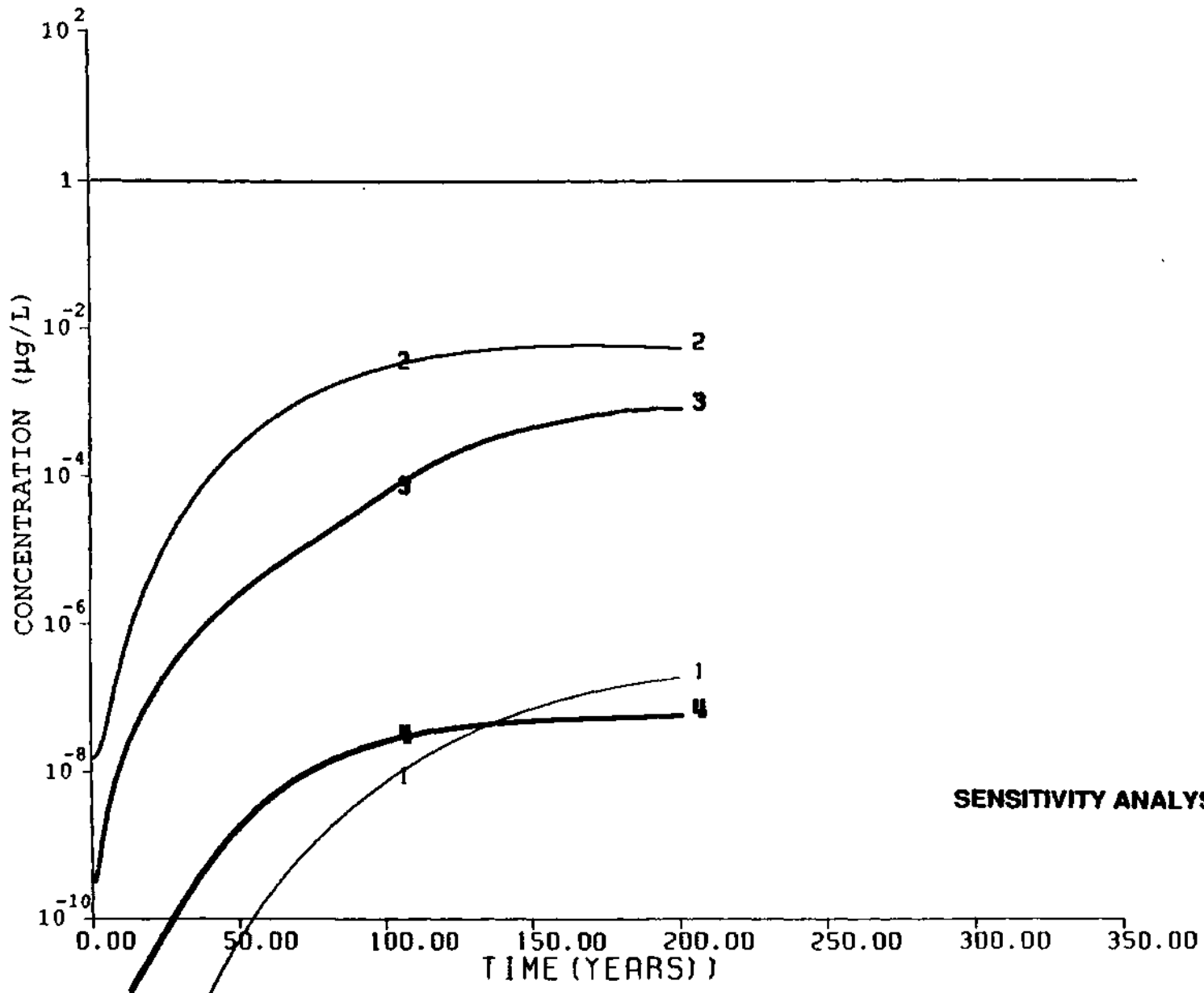


Figure G.3a
**SENSITIVITY ANALYSIS CASE 3, WITH HALF
 LIFE OF 22 YEARS**

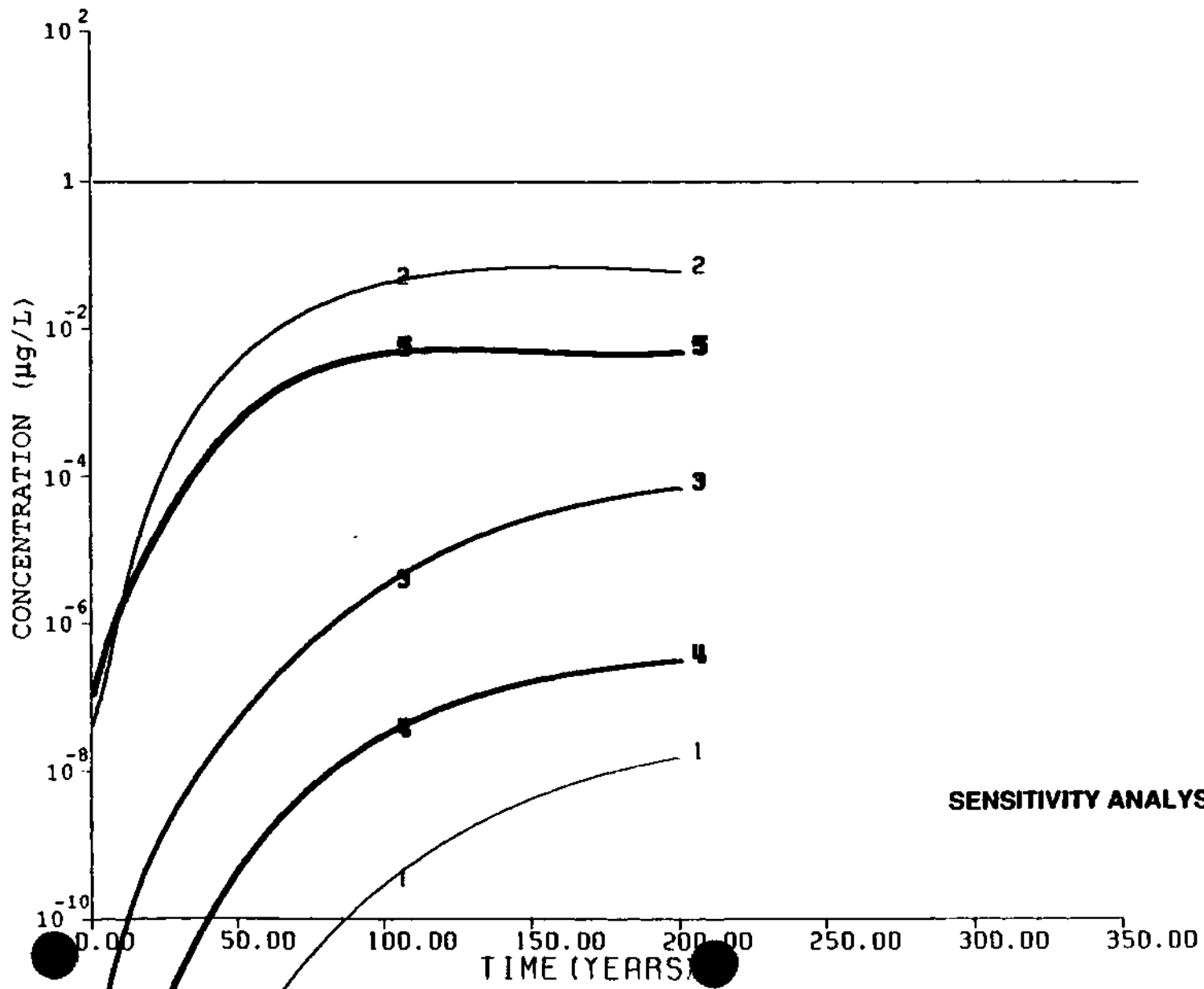


Figure G.3b
SENSITIVITY ANALYSIS CASE 3, WITH HALF
LIFE OF 22 YEARS

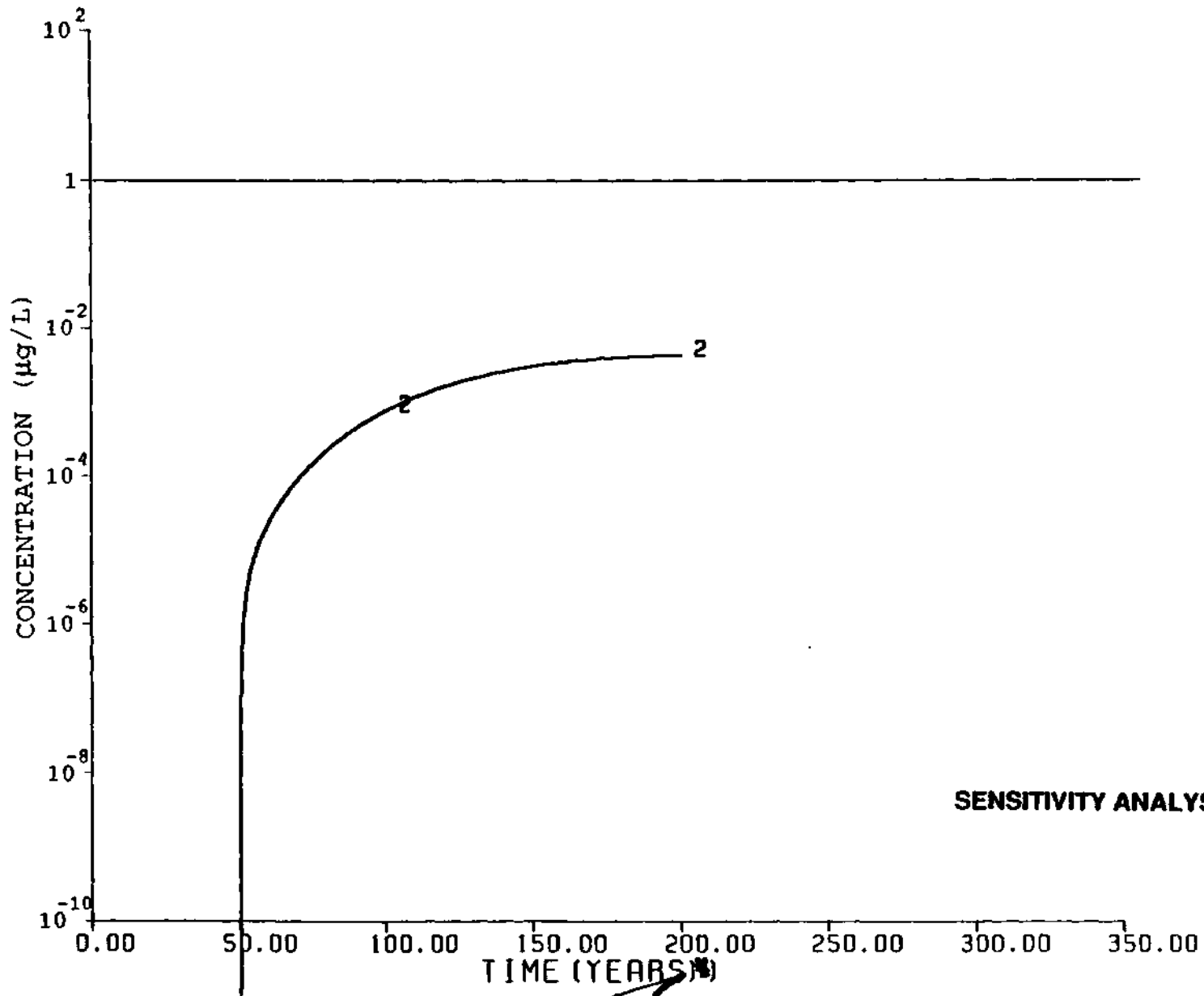


Figure G.3c
**SENSITIVITY ANALYSIS CASE 3, WITH HALF
LIFE OF 22 YEARS**

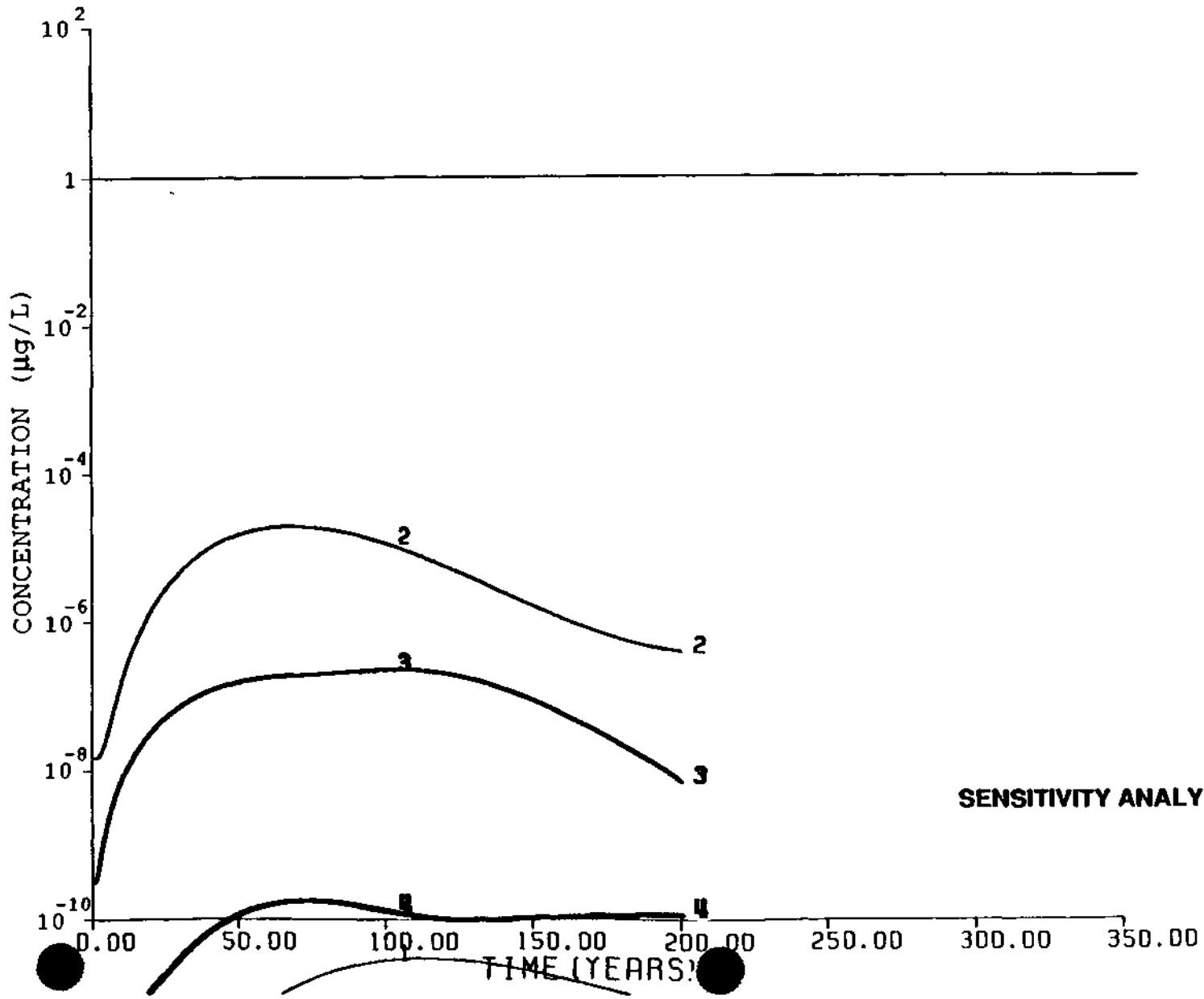


Figure G.4a
**SENSITIVITY ANALYSIS CASE 4, WITH HALF
 LIFE OF 22 YEARS**

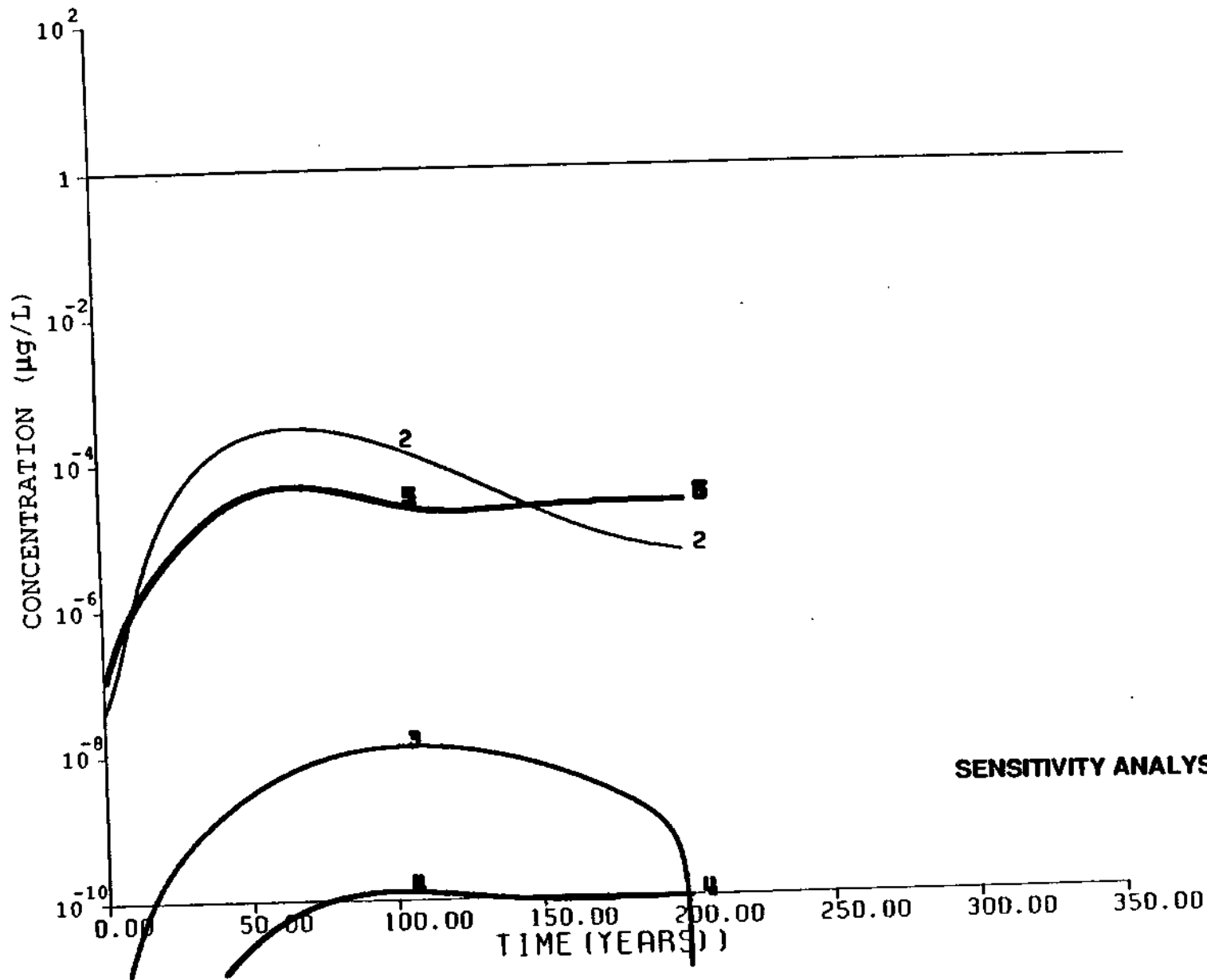


Figure G.4b
**SENSITIVITY ANALYSIS CASE 4, WITH HALF
 LIFE OF 22 YEARS**

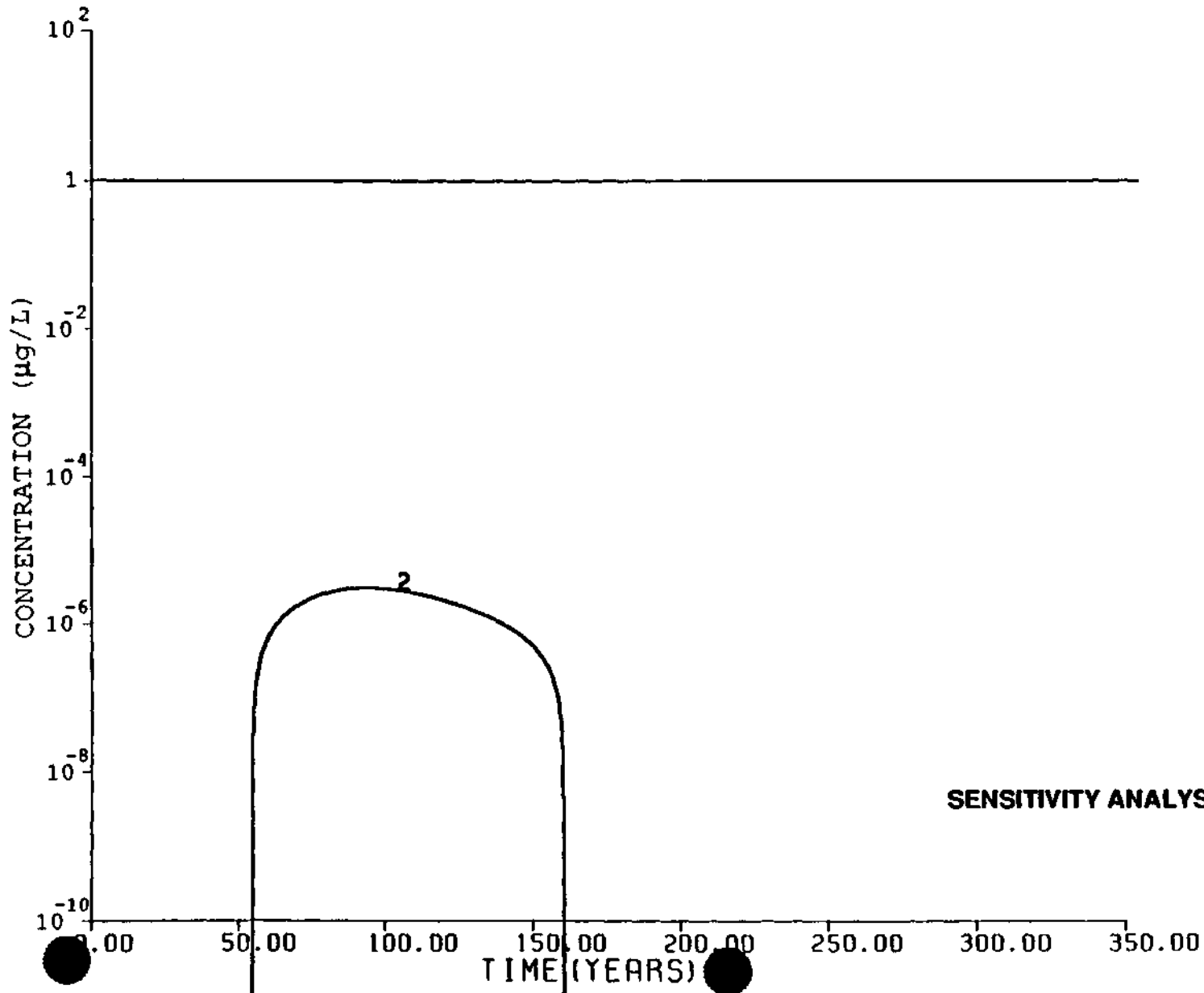


Figure G.4c
**SENSITIVITY ANALYSIS CASE 4, WITH HALF
LIFE OF 22 YEARS**

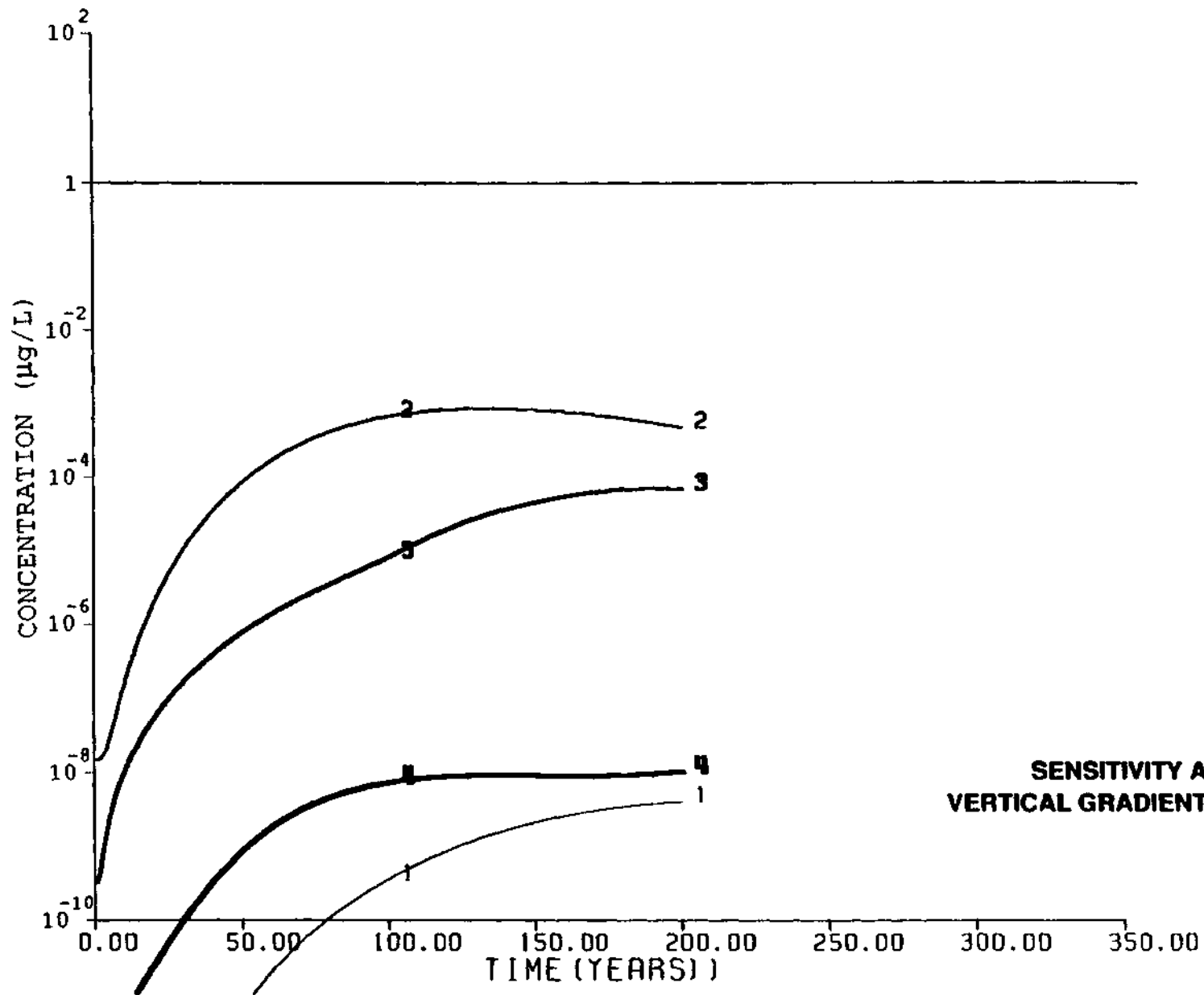


Figure G.5a
**SENSITIVITY ANALYSIS CASE 5, WITH
 VERTICAL GRADIENT INTRODUCED ON SIDE
 BOUNDARIES**

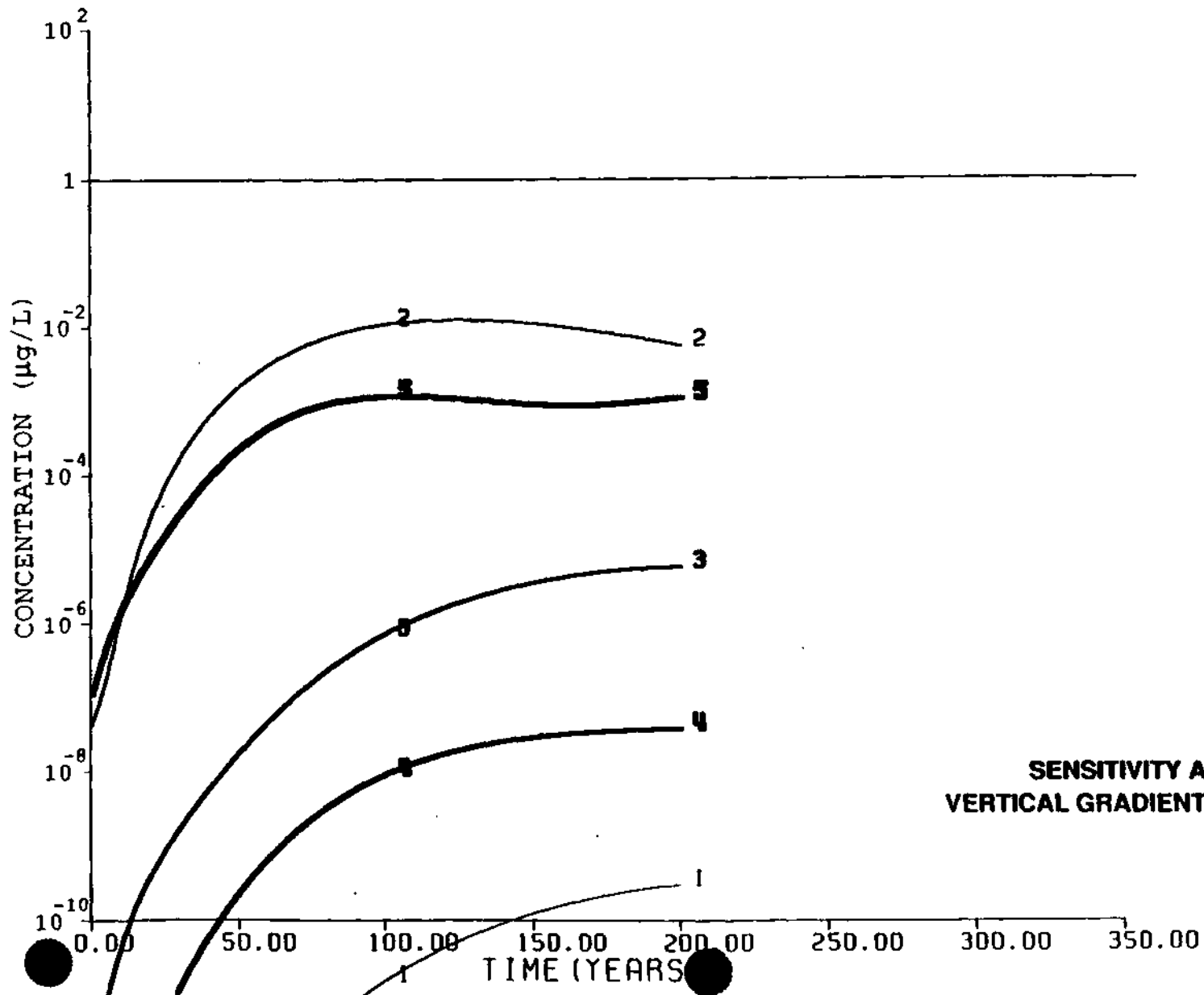


Figure G.5b
**SENSITIVITY ANALYSIS CASE 5, WITH
 VERTICAL GRADIENT INTRODUCED ON SIDE
 BOUNDARIES**

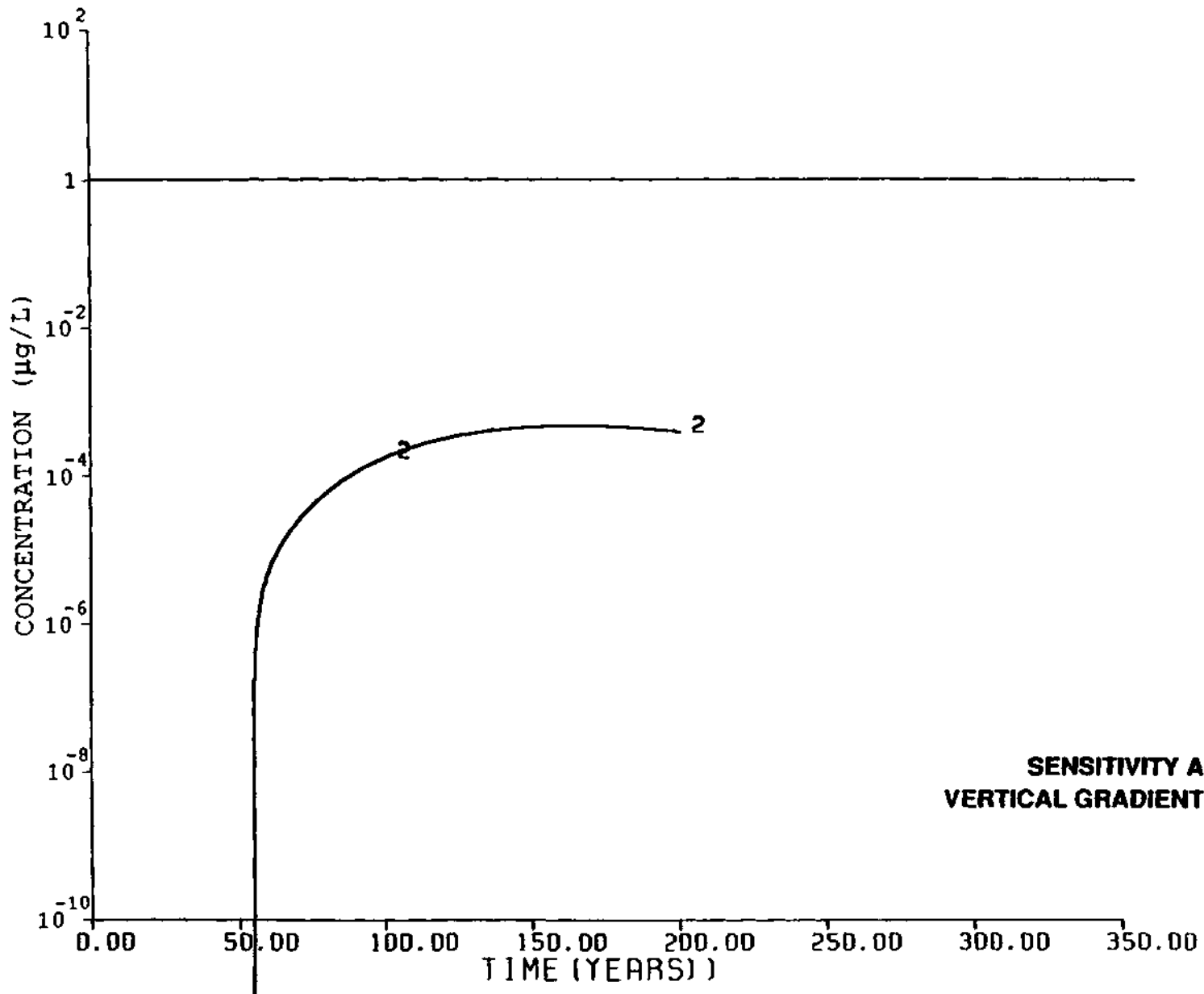


Figure G.5c
**SENSITIVITY ANALYSIS CASE 5, WITH
VERTICAL GRADIENT INTRODUCED ON SIDE
BOUNDARIES**

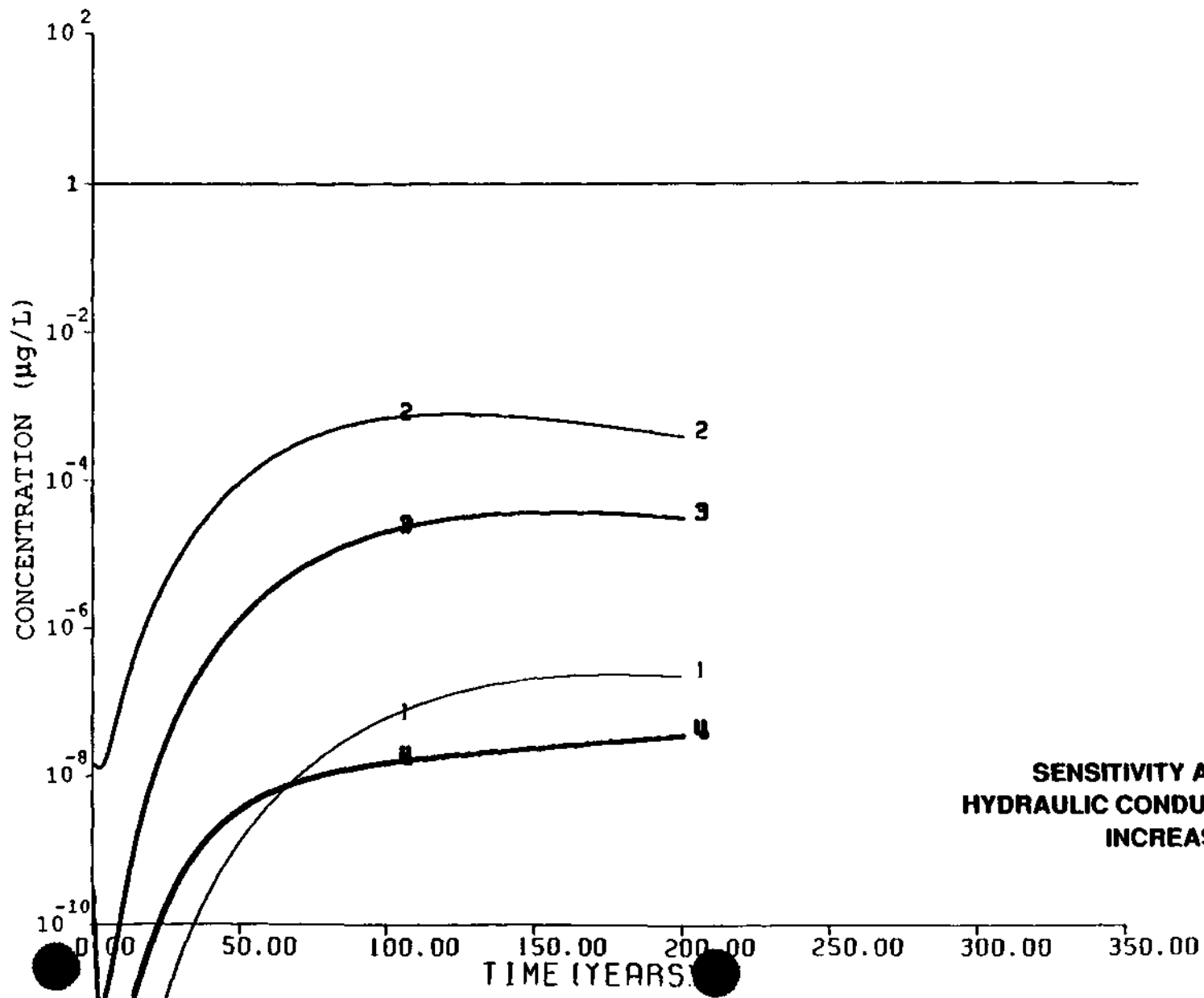


Figure G.6a
**SENSITIVITY ANALYSIS CASE 6, WITH
 HYDRAULIC CONDUCTIVITY IN Q_0 AND Q_{us}
 INCREASED BY A FACTOR OF 2**

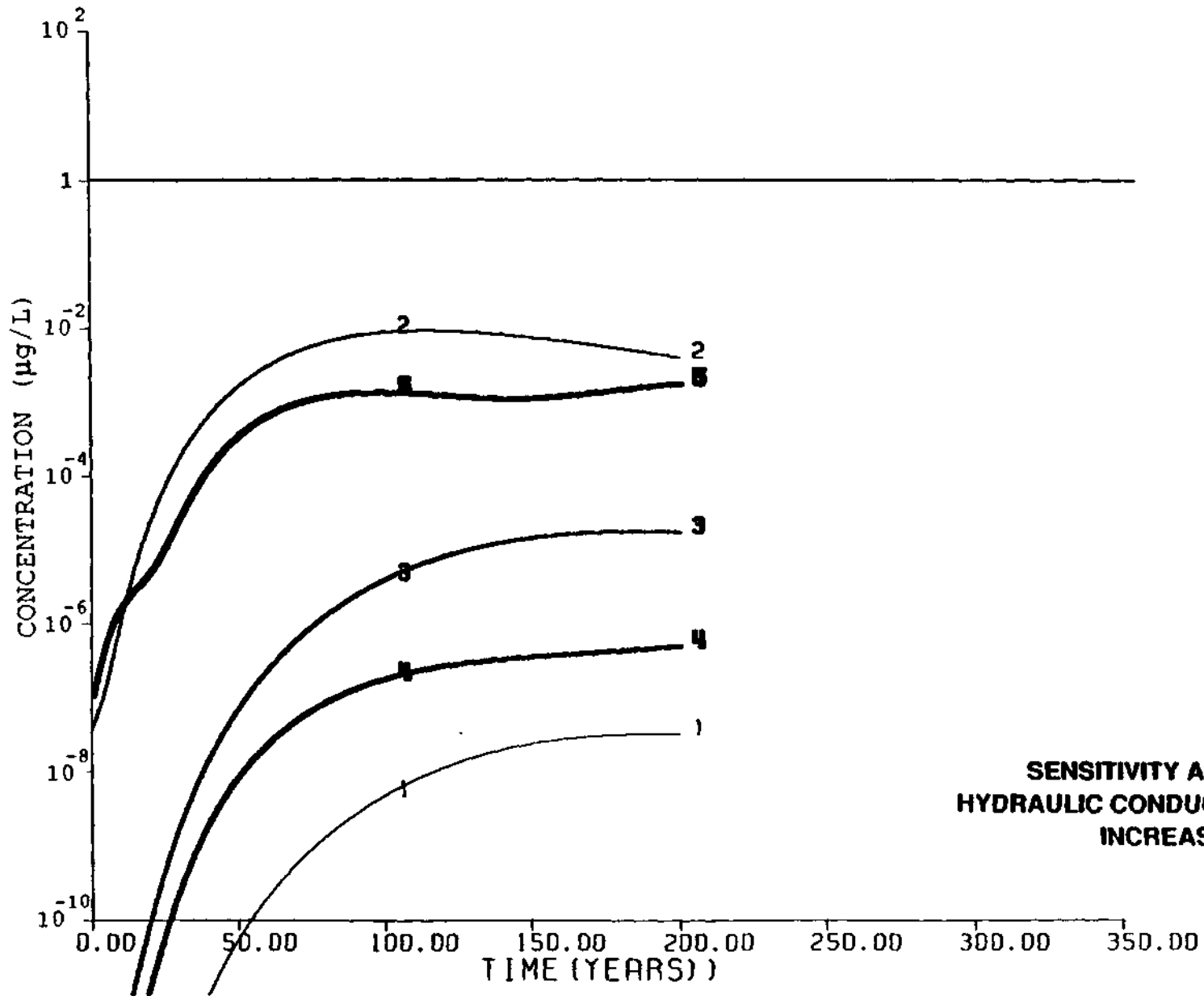


Figure G 6b
**SENSITIVITY ANALYSIS CASE 6, WITH
 HYDRAULIC CONDUCTIVITY IN Q_0 AND Q_{us}
 INCREASED BY A FACTOR OF 2**

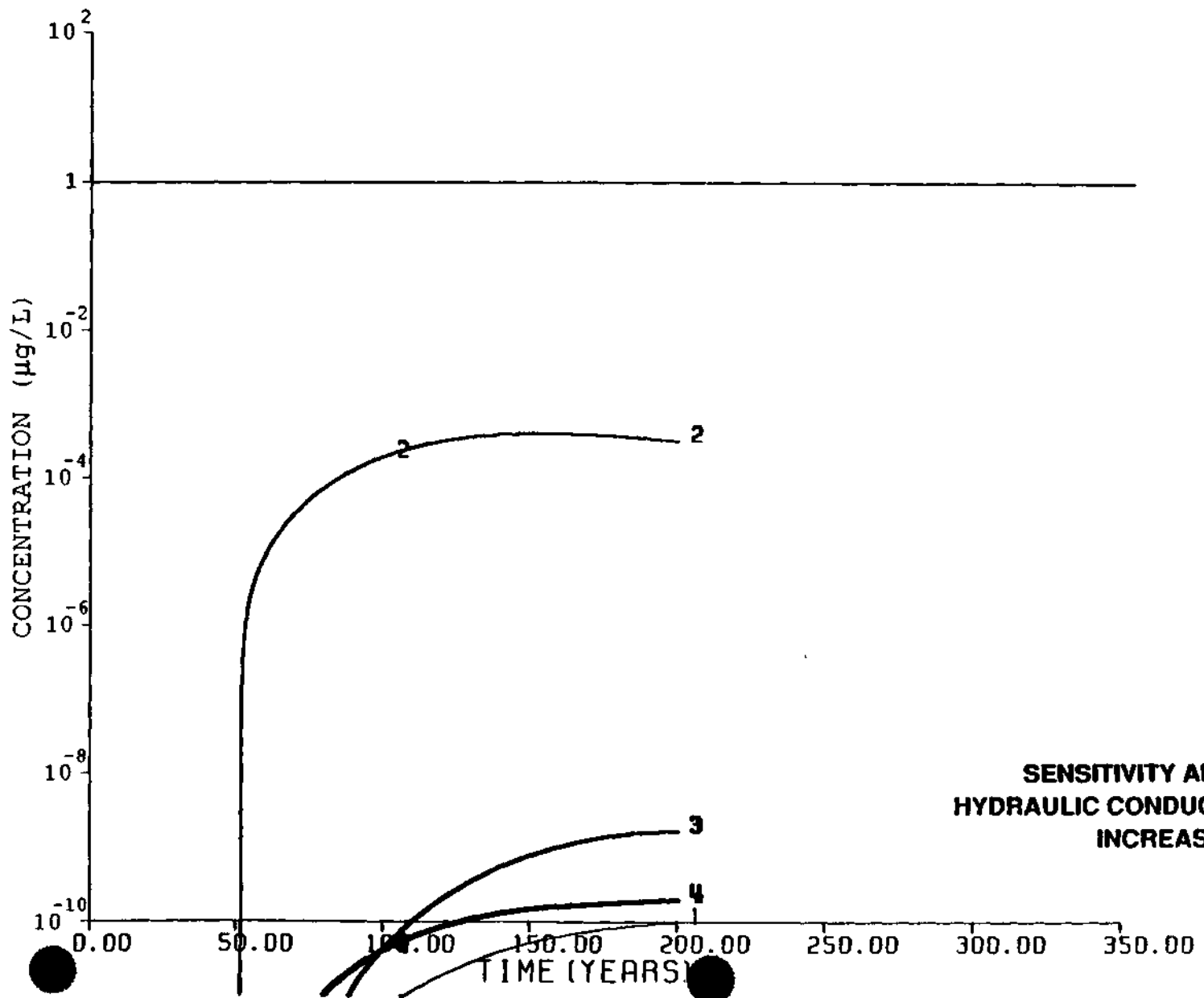


Figure G.6c
**SENSITIVITY ANALYSIS CASE 6, WITH
HYDRAULIC CONDUCTIVITY IN Q_0 AND Q_{us}
INCREASED BY A FACTOR OF 2**

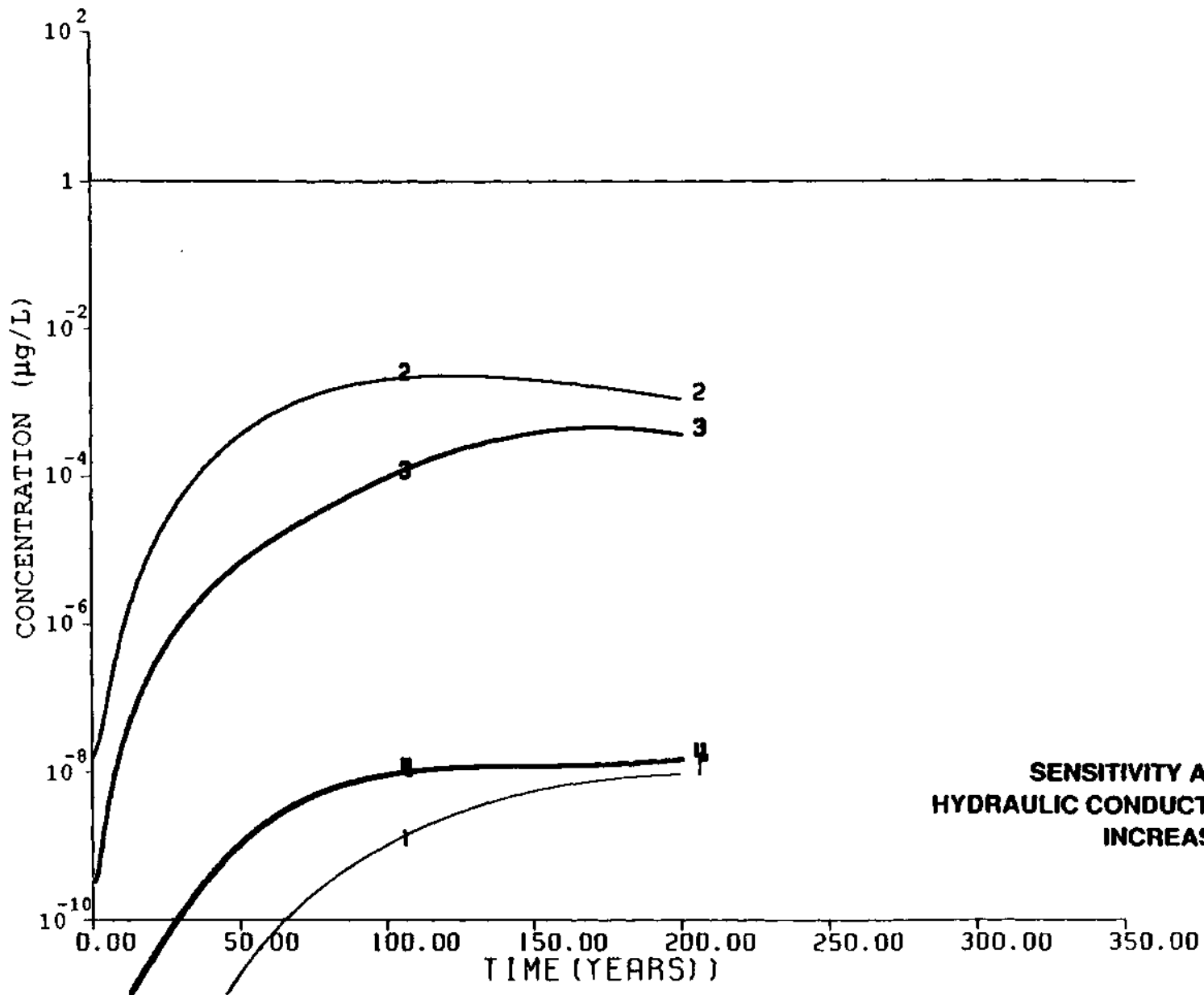


Figure G.7a
**SENSITIVITY ANALYSIS CASE 7, WITH
 HYDRAULIC CONDUCTIVITY IN T_{mm} AND T_{vm}
 INCREASED BY A FACTOR OF 2**

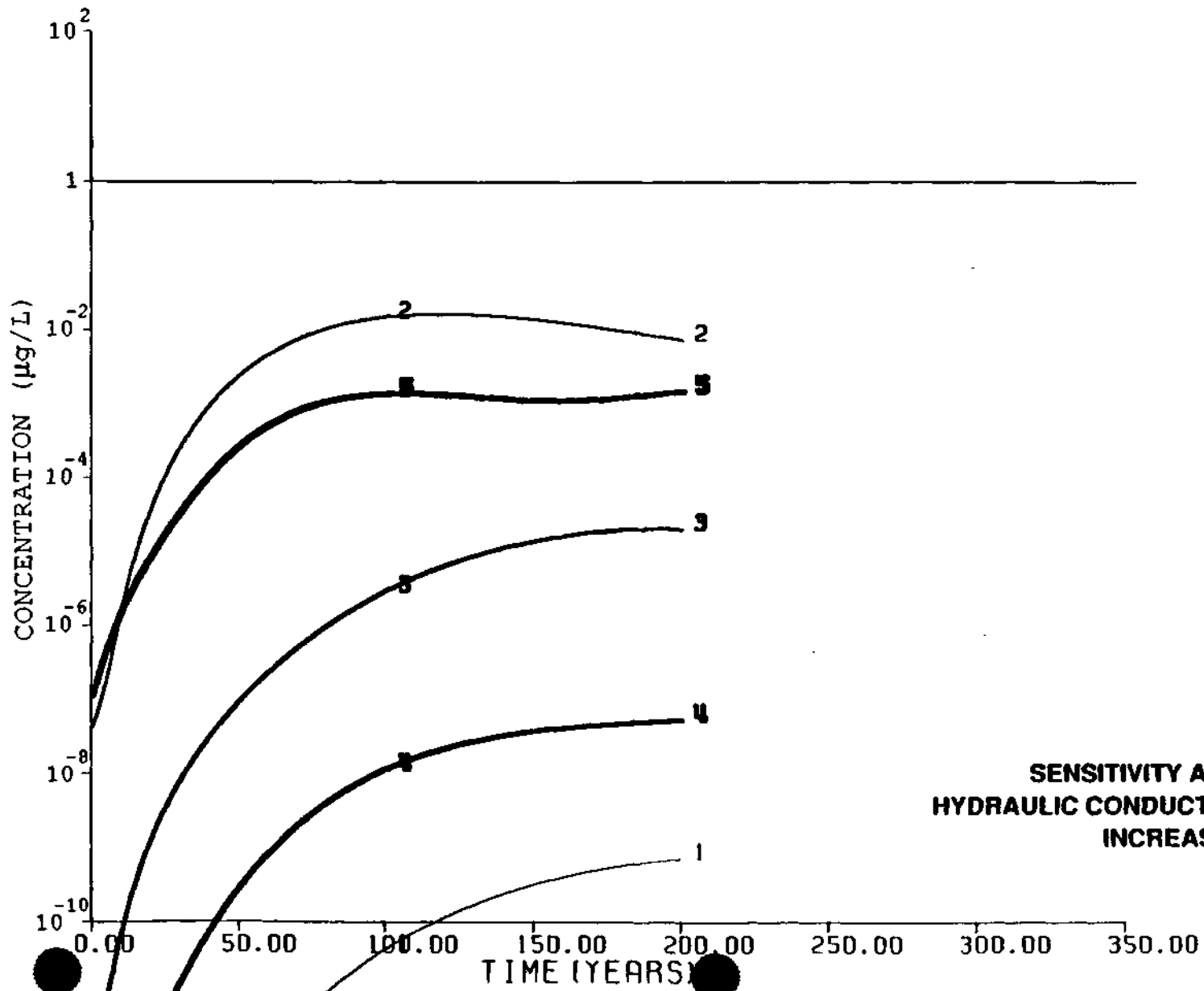


Figure G.7b
**SENSITIVITY ANALYSIS CASE 7, WITH
 HYDRAULIC CONDUCTIVITY IN T_{mm} AND T_{vm}
 INCREASED BY A FACTOR OF 2**

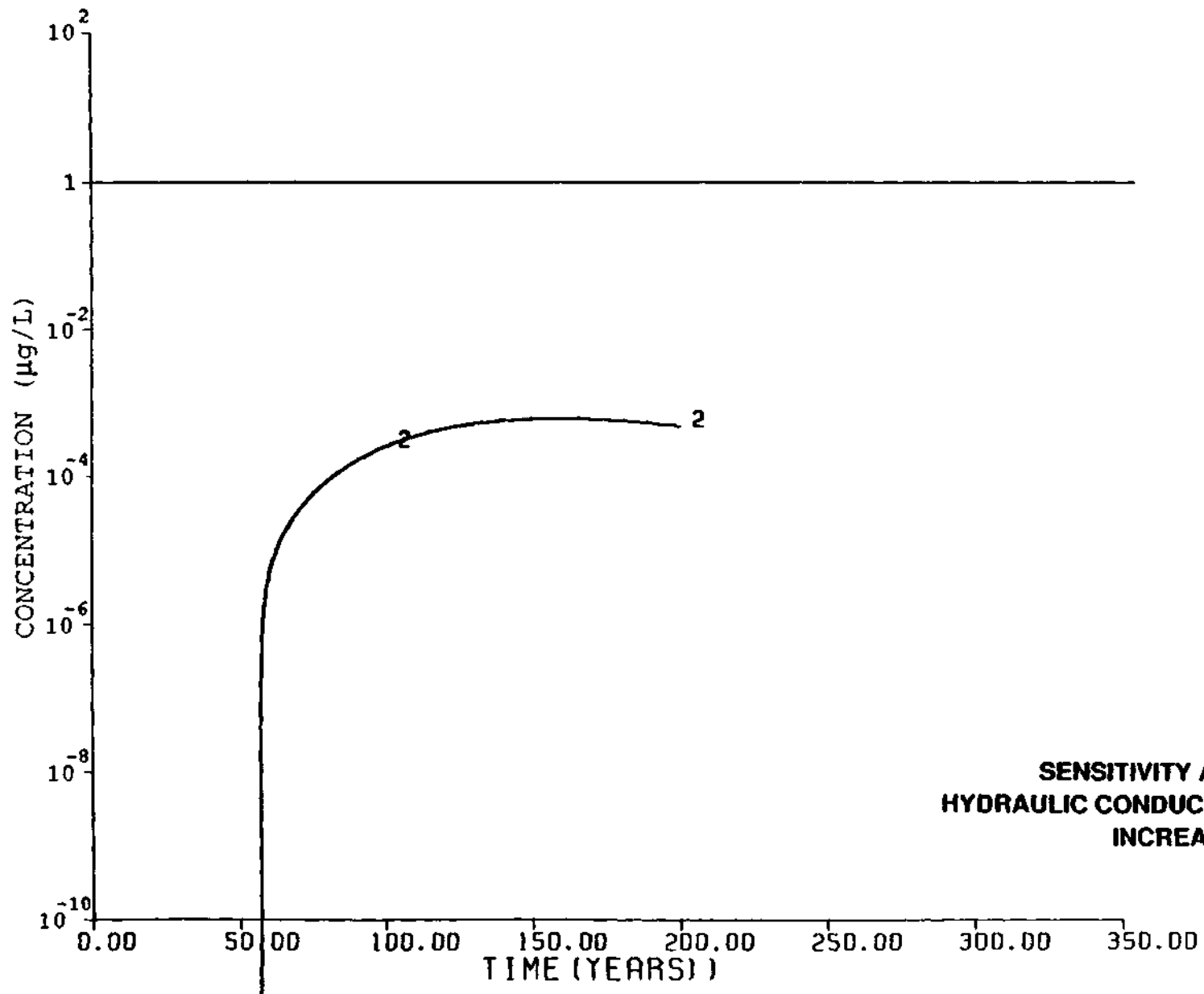


Figure G.7c
**SENSITIVITY ANALYSIS CASE 7, WITH
HYDRAULIC CONDUCTIVITY IN T_{mm} AND T_{vm}
INCREASED BY A FACTOR OF 2**

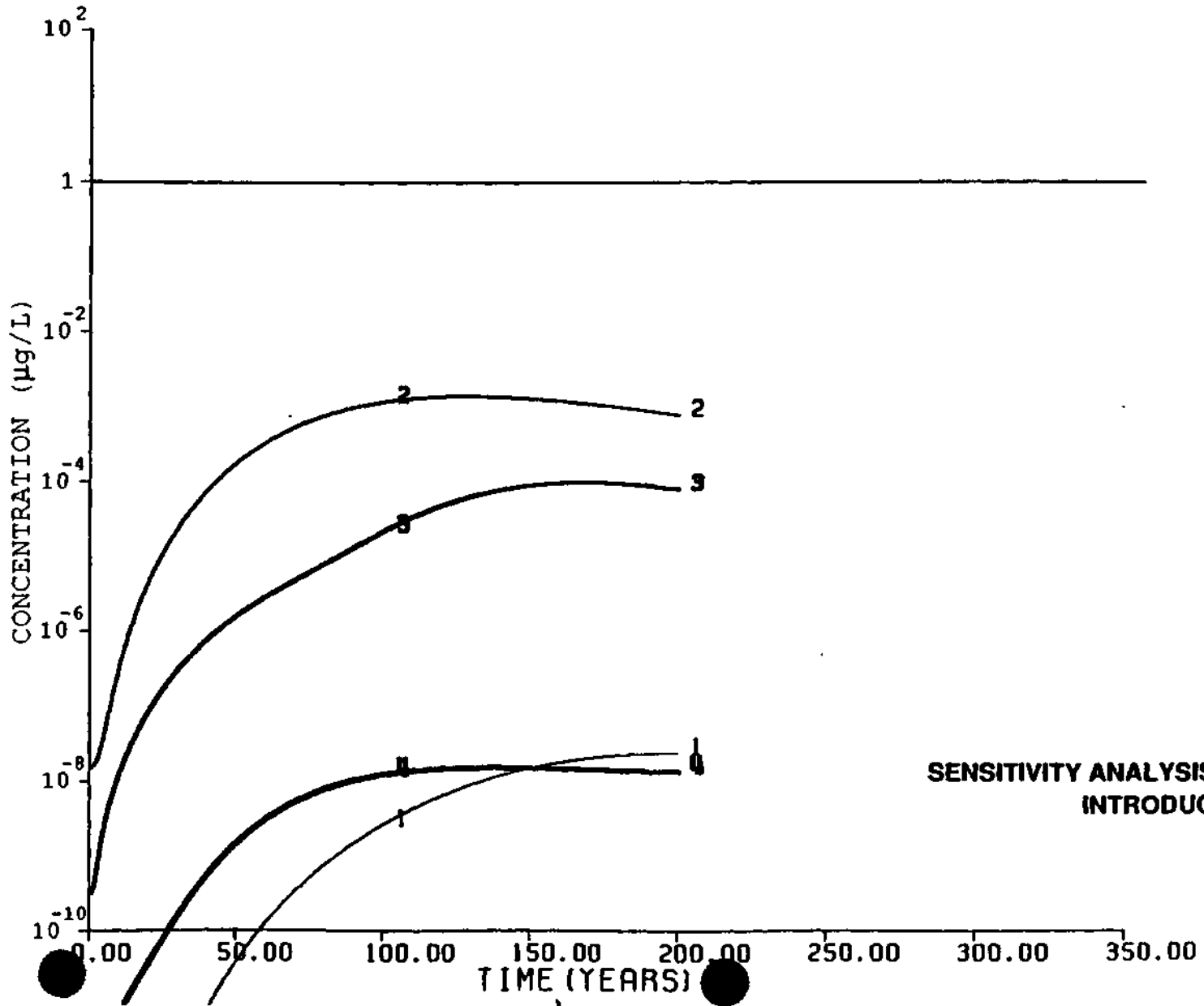


Figure G.8a
**SENSITIVITY ANALYSIS CASE 8, WITH ERRORS
INTRODUCED IN CONSTANT HEAD
BOUNDARIES**

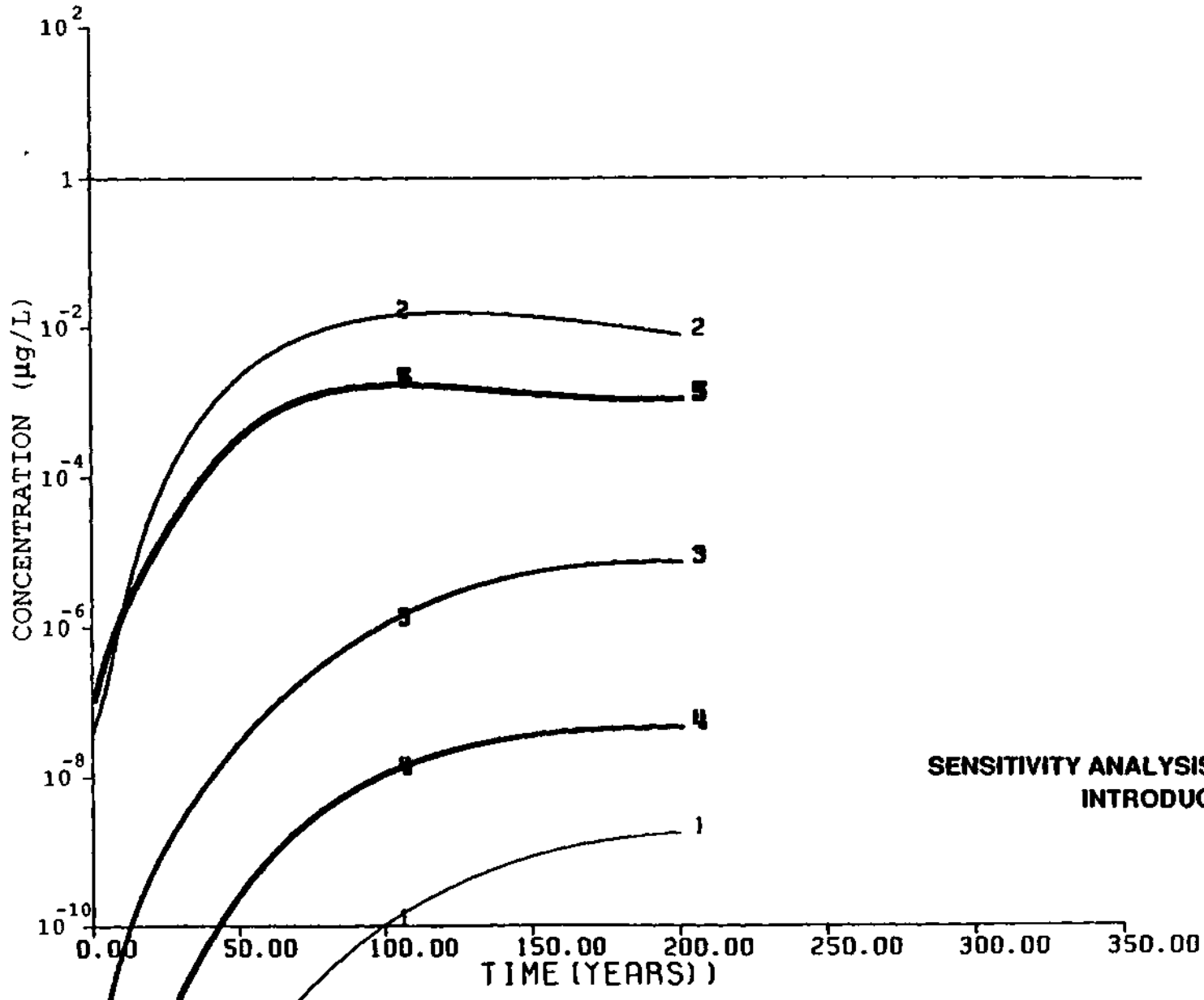


Figure G 8b
**SENSITIVITY ANALYSIS CASE 8, WITH ERRORS
INTRODUCED IN CONSTANT HEAD
BOUNDARIES**

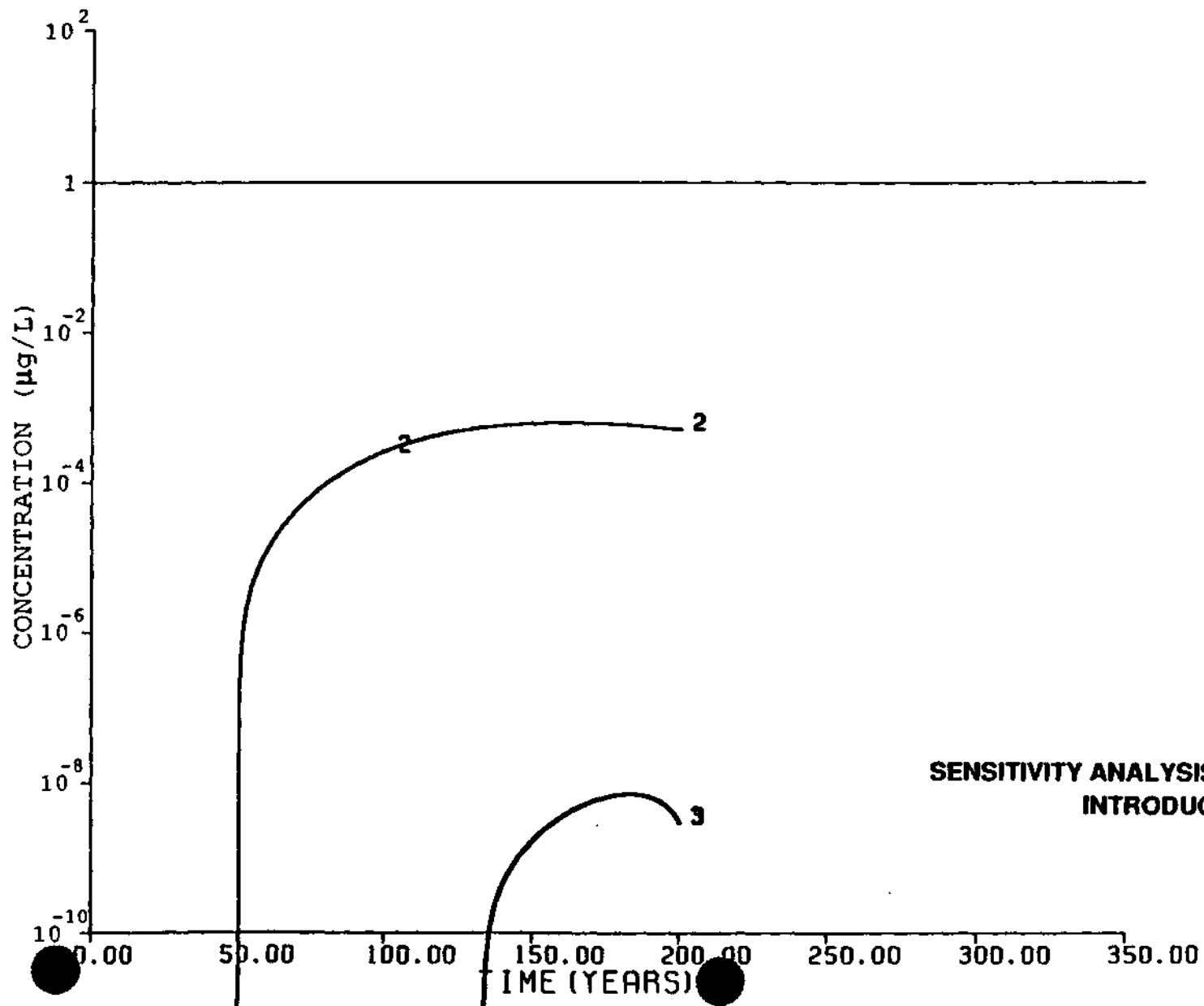


Figure G.8c
SENSITIVITY ANALYSIS CASE 8, WITH ERRORS
INTRODUCED IN CONSTANT HEAD
BOUNDARIES

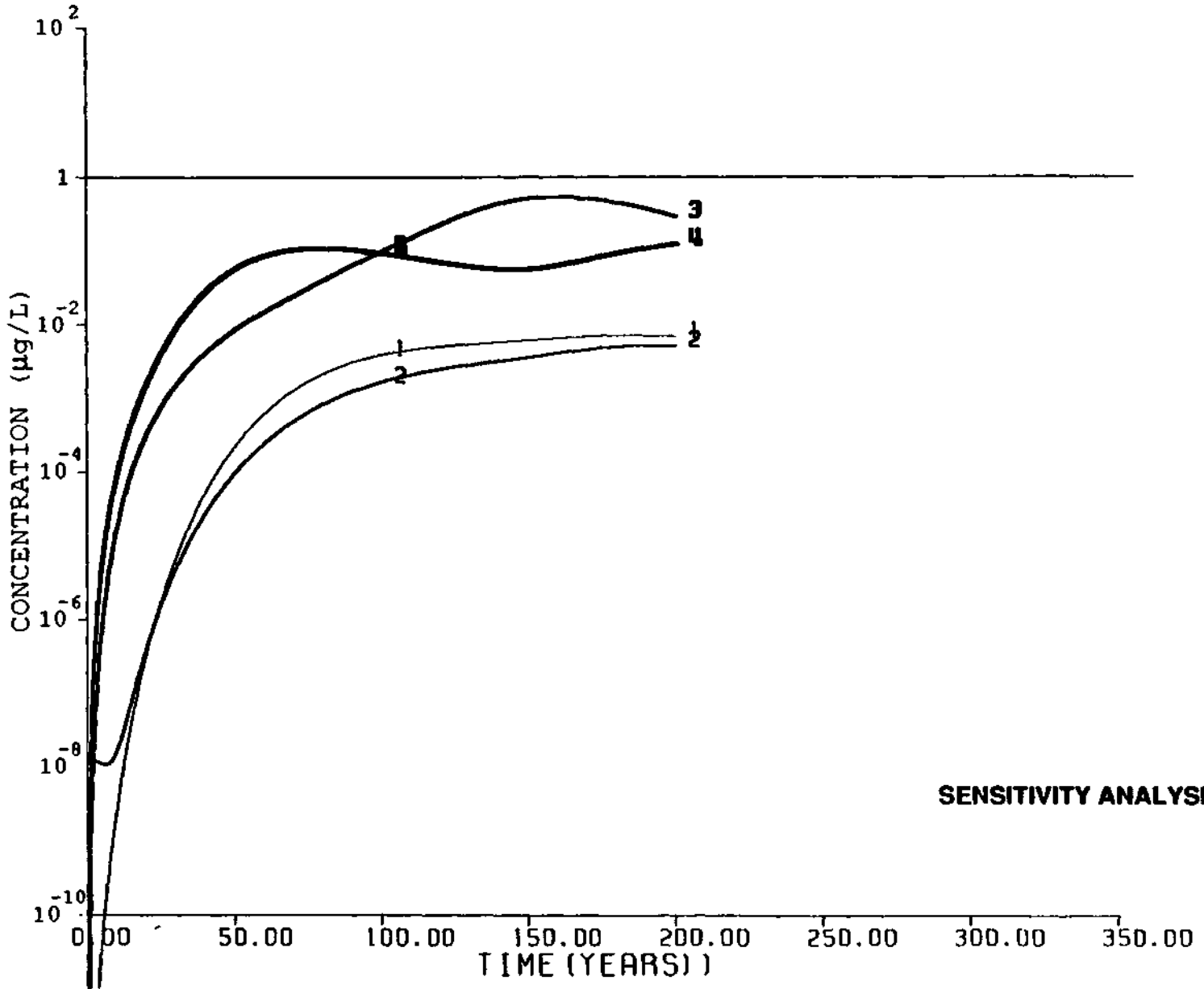


Figure G.9a
**SENSITIVITY ANALYSIS CASE 9, WITH FAULT
 PARTIALLY REMOVED**

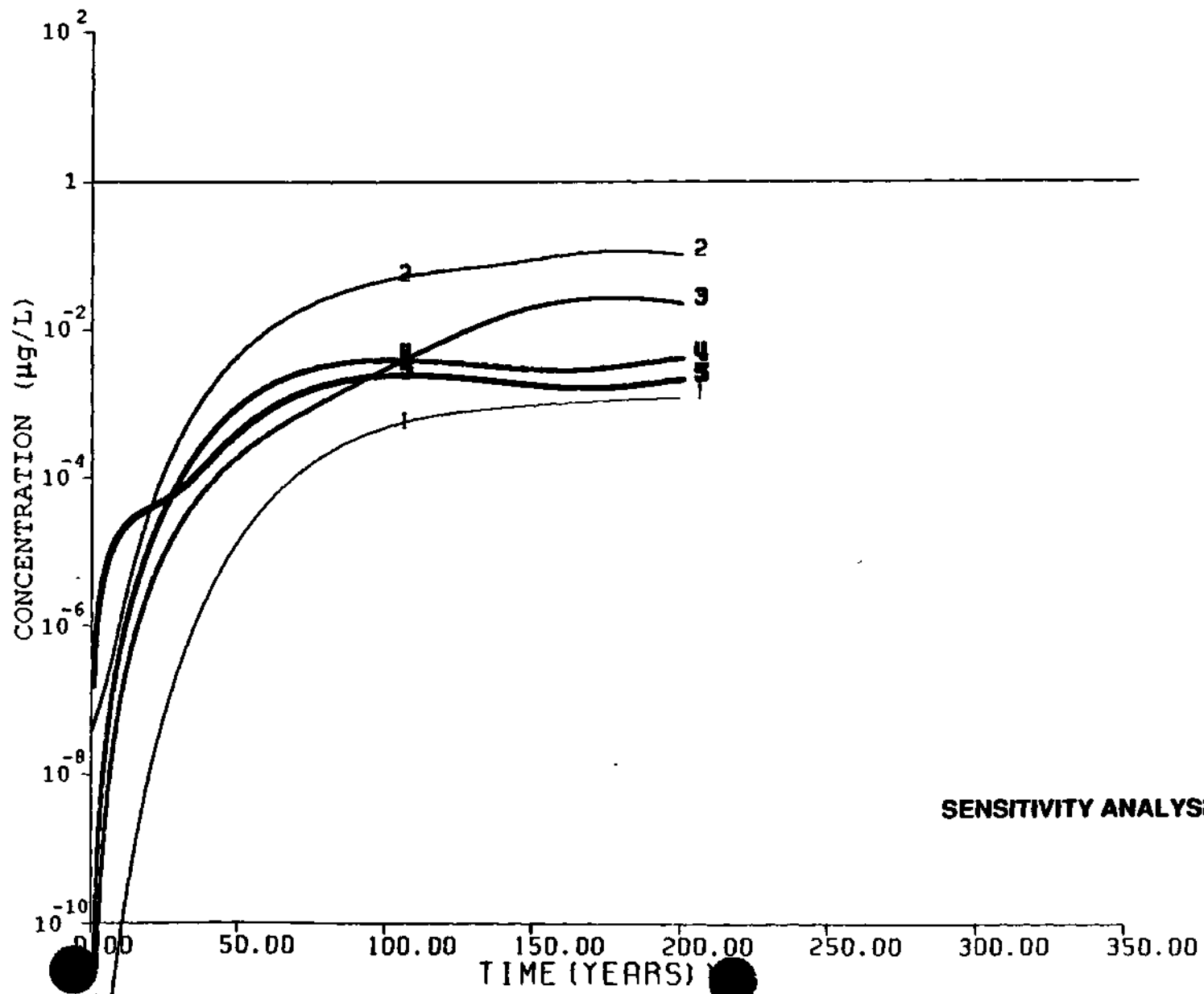


Figure G.9b
SENSITIVITY ANALYSIS CASE 9, WITH FAULT
PARTIALLY REMOVED

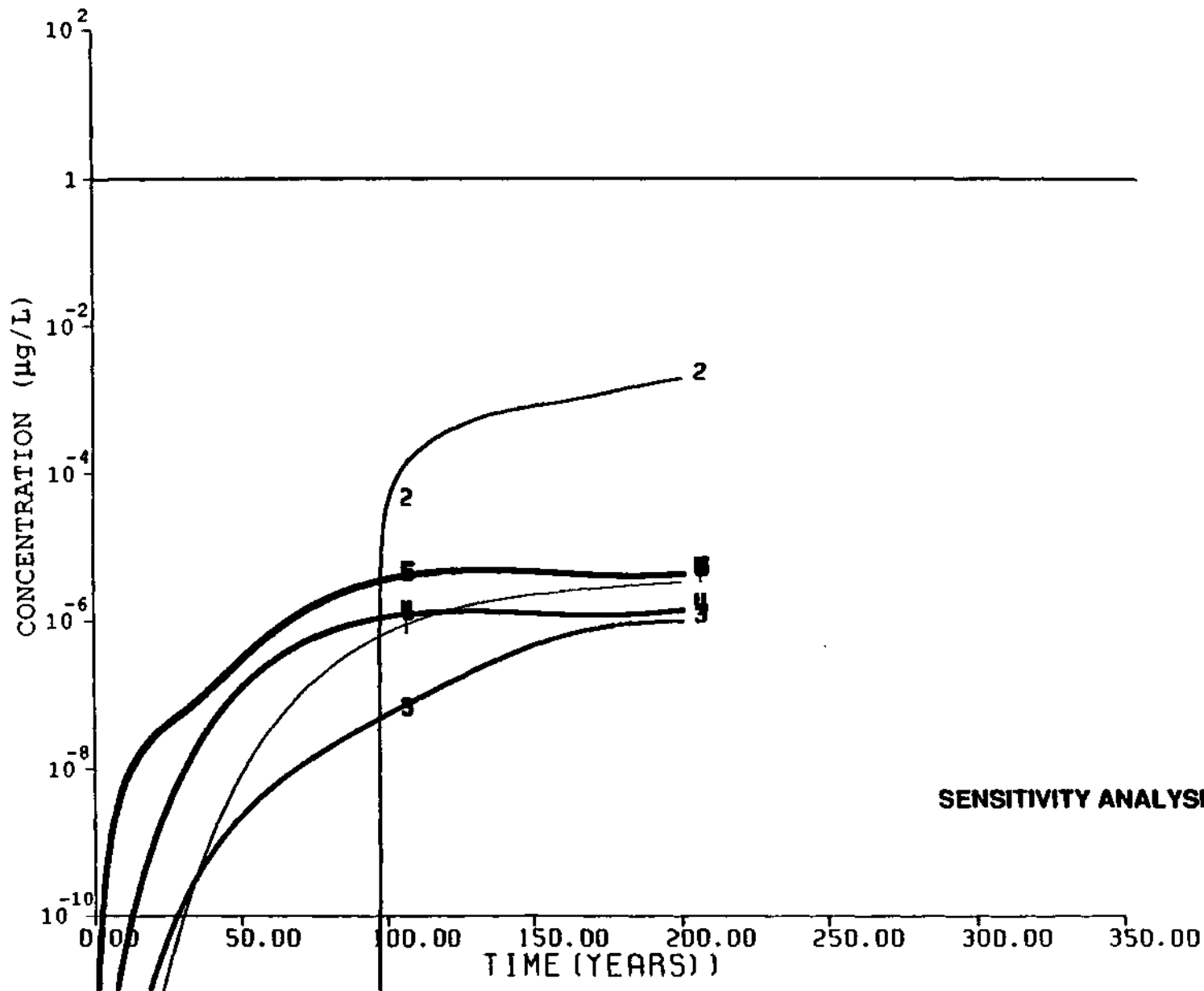


Figure G.9c
**SENSITIVITY ANALYSIS CASE 9, WITH FAULT
 PARTIALLY REMOVED**

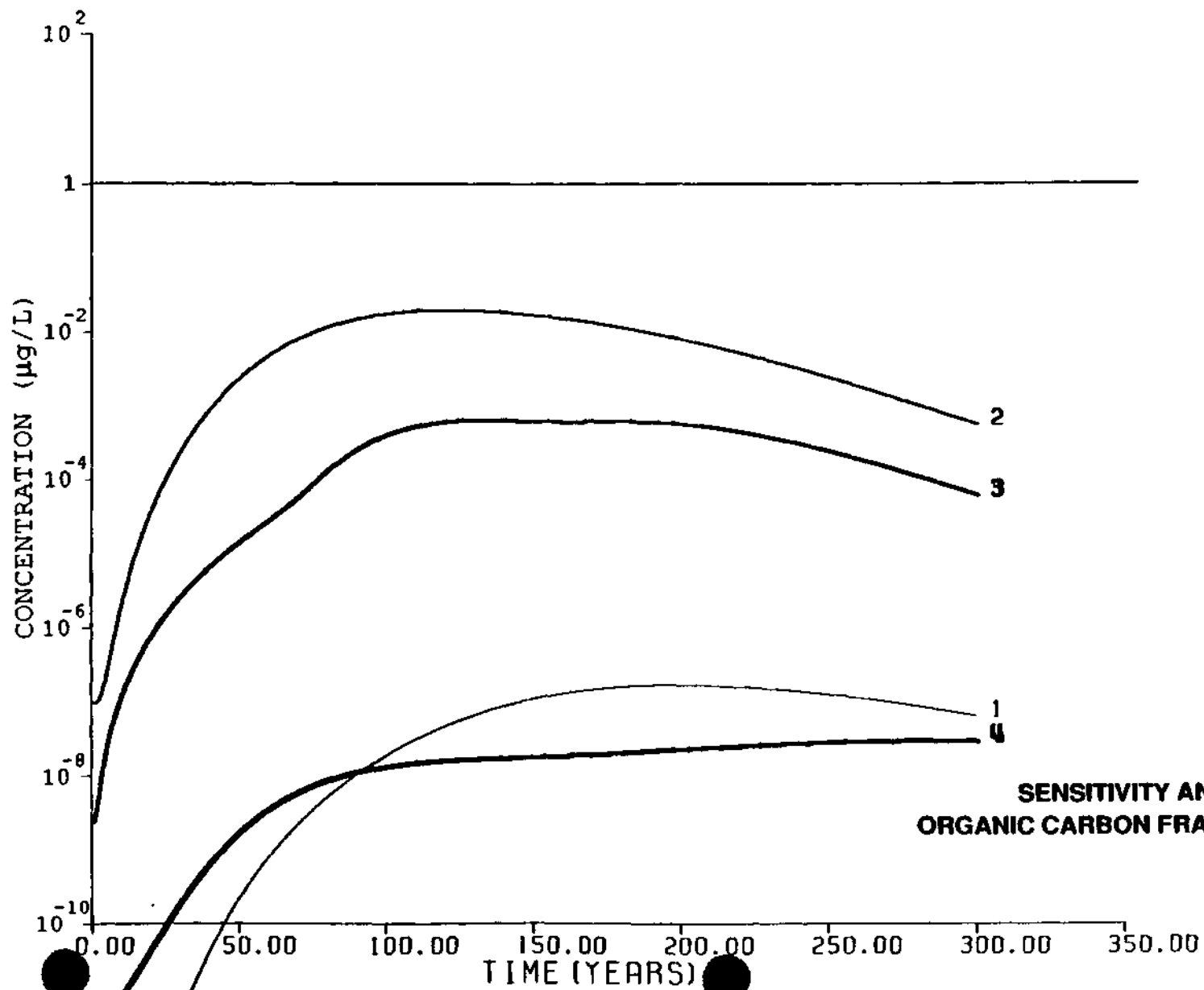


Figure G.10a
**SENSITIVITY ANALYSIS CASE 10, WITH
ORGANIC CARBON FRACTION DECREASED BY
A FACTOR OF 3**

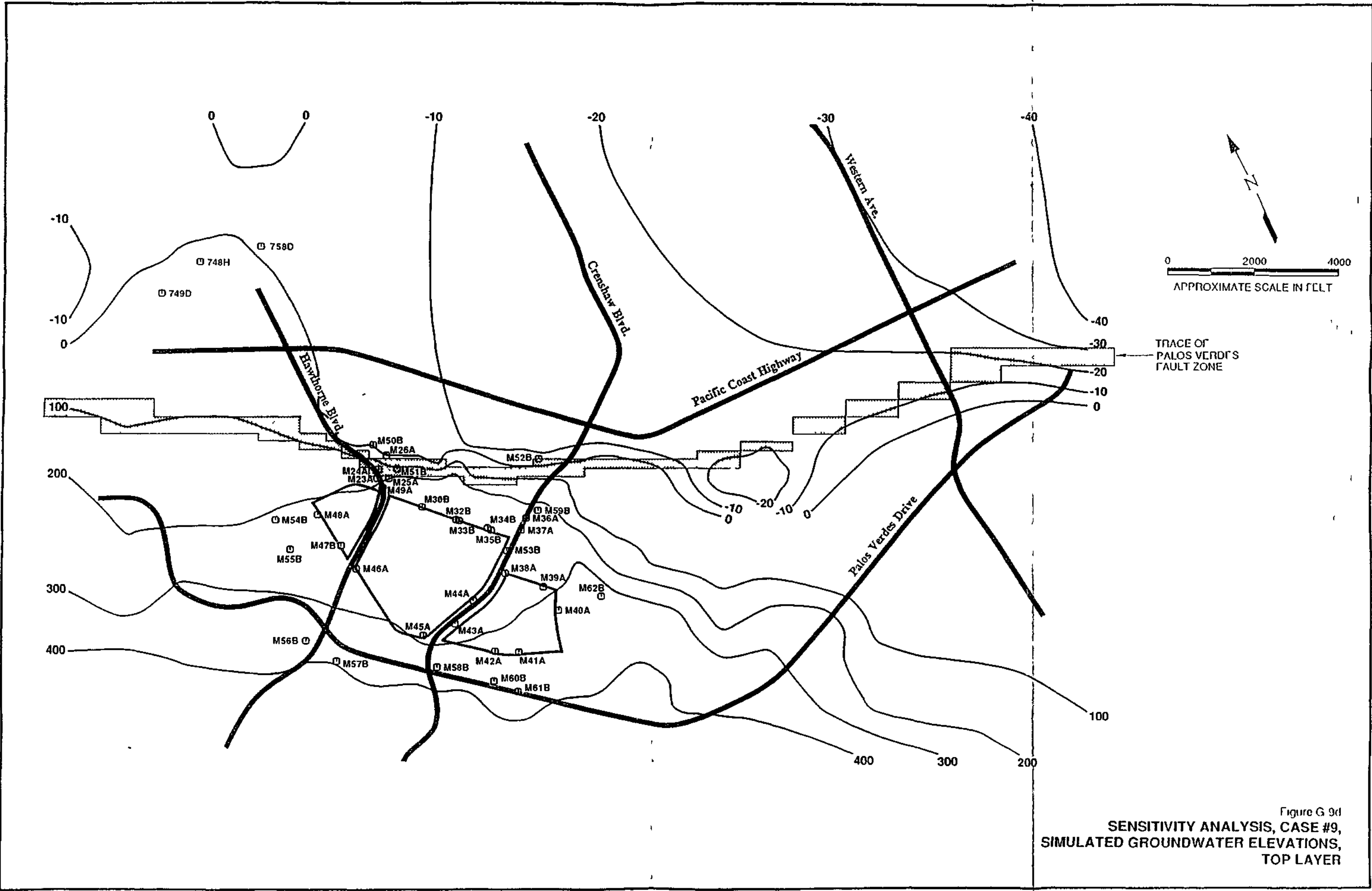


Figure G 9d
 SENSITIVITY ANALYSIS, CASE #9,
 SIMULATED GROUNDWATER ELEVATIONS,
 TOP LAYER



- M438 ○ GROUNDWATER MONITORING WELL LOCATION
- BORING LOCATION
- PROPERTY LINE
- 10 MODELED VINYL CHLORIDE CONCENTRATION CONTOUR ($\mu\text{g/l}$)
- ND NOT DETECTED

FIGURE G.9e
 SENSITIVITY ANALYSIS, CASE 9,
 SIMULATED VINYL CHLORIDE
 CONCENTRATION AT 200 YEARS

ALL VALUES ARE IN $\mu\text{g/l}$.
 PALOS VERDES LANDFILL

SOURCE: AERIAL PHOTOGRAMMETRY TAKEN 4-12-91
 BY AIRBORNE SYSTEMS, INC.
 CONTOURS BY DAMES & MOORE, INC.

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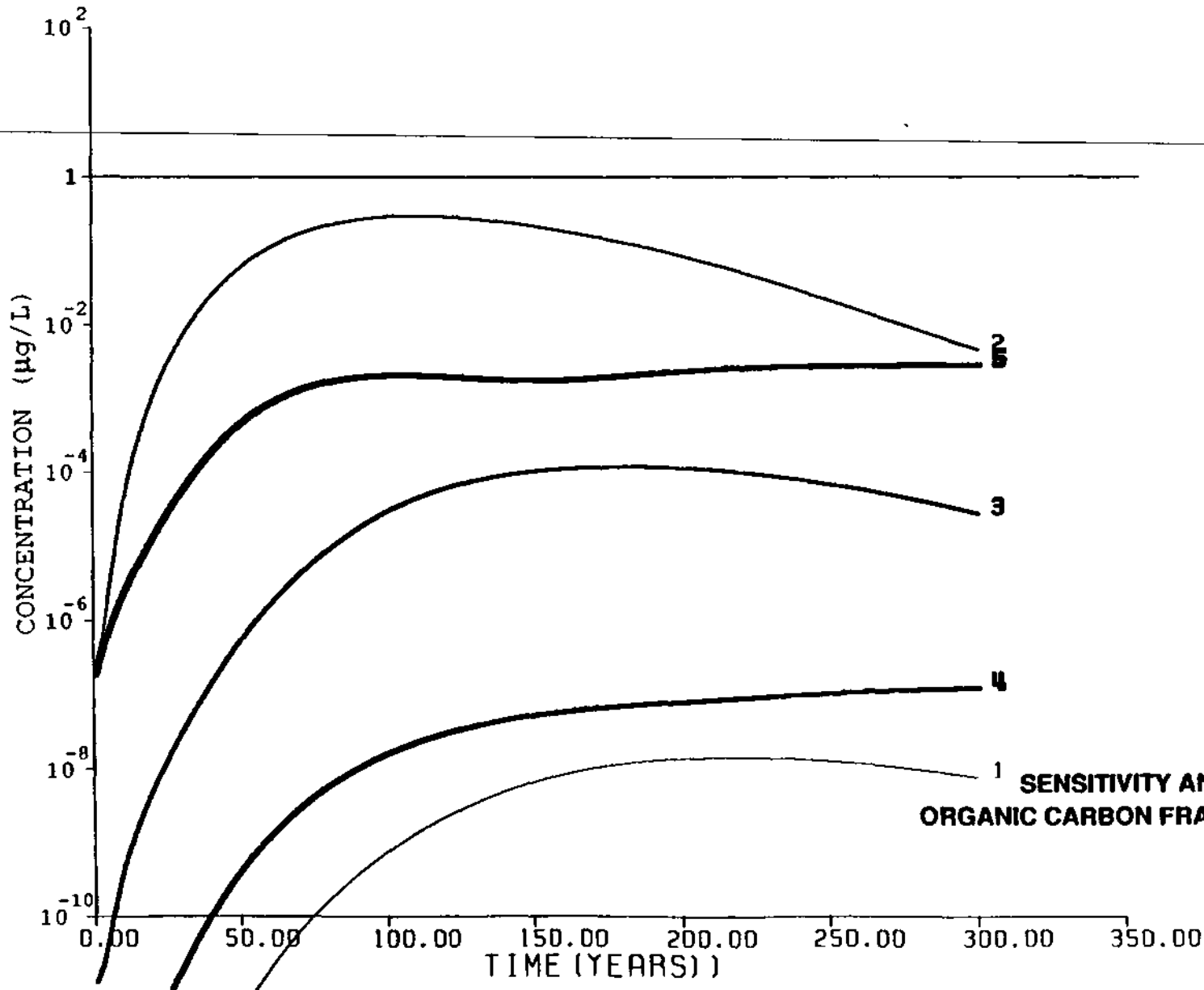


Figure G.10b
**SENSITIVITY ANALYSIS CASE 10, WITH
 ORGANIC CARBON FRACTION DECREASED BY
 A FACTOR OF 3**

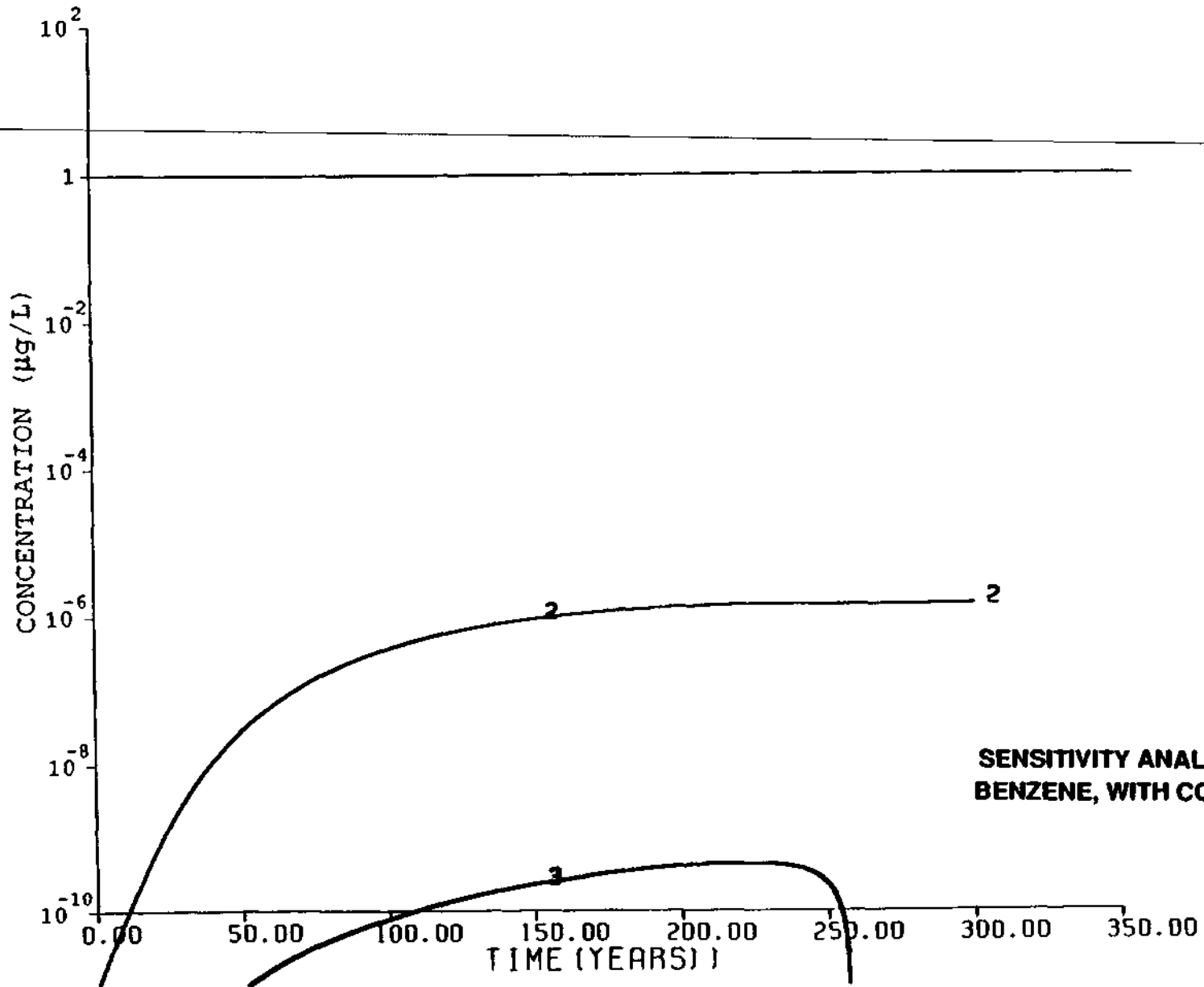


Figure G.11a
**SENSITIVITY ANALYSIS CASE 11, ETHYL
BENZENE, WITH CONSERVATIVE INITIAL
CONDITION**

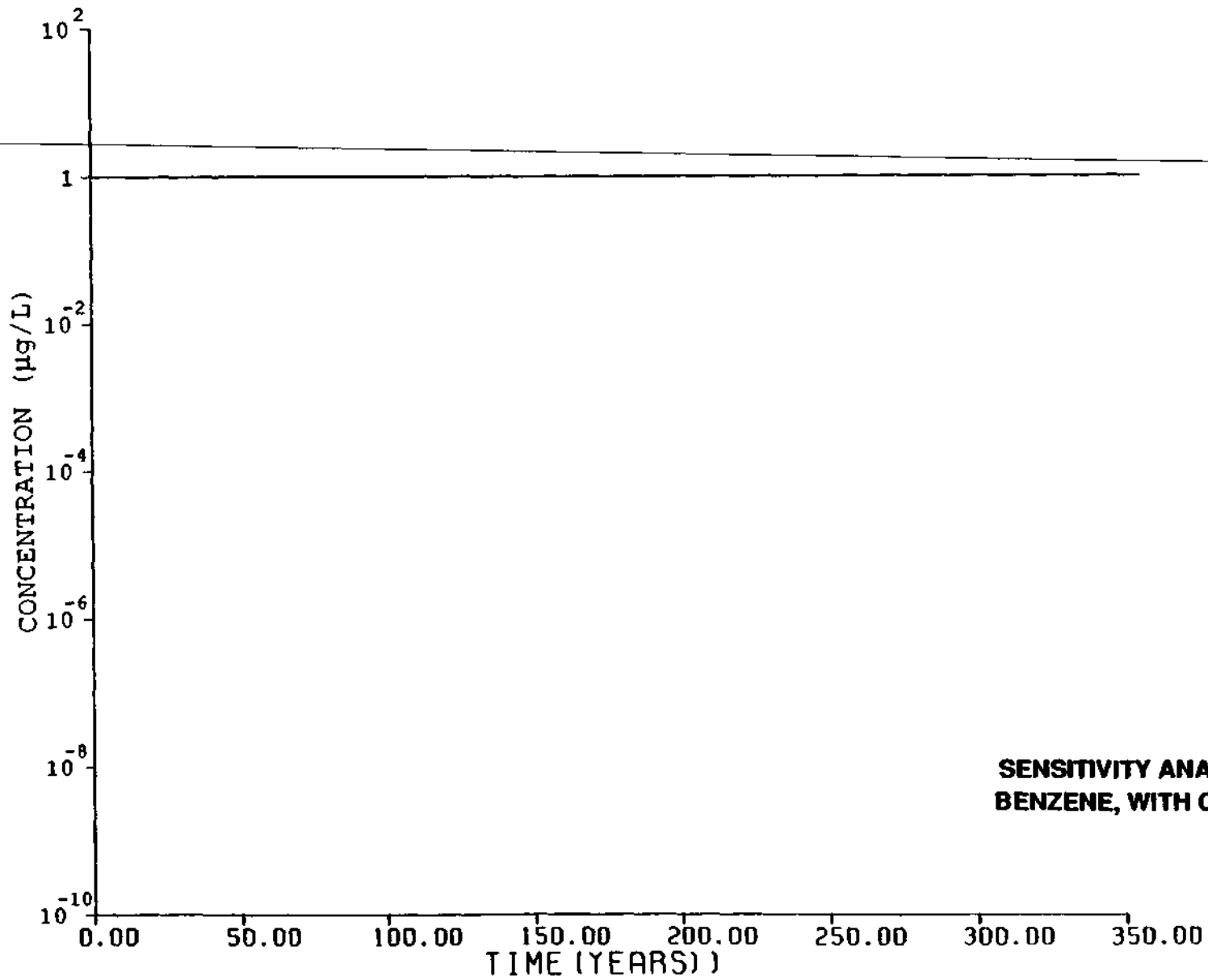
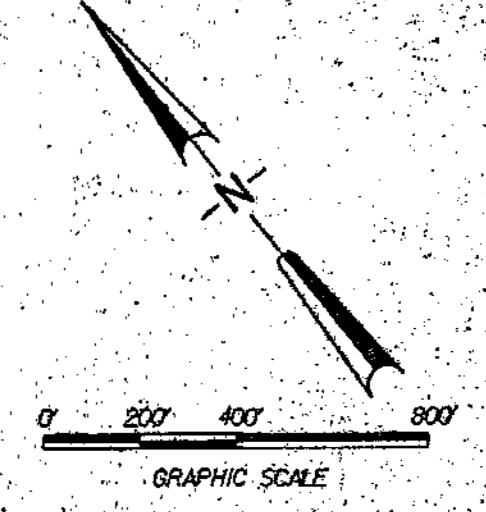


Figure G.11c
**SENSITIVITY ANALYSIS CASE 11, ETHYL
BENZENE, WITH CONSERVATIVE INITIAL
CONDITION**



- M548 ● GROUNDWATER MONITORING WELL LOCATION
- BORING LOCATION
- PROPERTY LINE
- 100 MODELED ETHYL BENZENE CONCENTRATION CONTOUR (µg/l)
- ND NOT DETECTED

FIGURE G.11d
 ASSUMED ETHYL BENZENE CONCENTRATION DISTRIBUTION IN 1986 FOR SENSITIVITY ANALYSIS, CASE 11

ALL VALUES ARE IN UG/L

PALOS VERDES LANDFILL

SOURCE: AERIAL PHOTOGRAMMETRY TAKEN 4-12-91
 BY AIRBORNE SYSTEMS, INC.
 CONTOURS BY DAMES & MOORE, INC.

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