REPORT

Quarterly Ground Water Monitoring
Fourth Quarter 2008
Bridgewater, New Jersey Site

Wyeth Holdings Corporation
Madison, New Jersey

February 2009

O'BRIEN & GERE

February 12, 2009

Mr. Haiyesh Shah
Case Manager
New Jersey Department of Environmental Protection
Bureau of Responsible Party Site Remediation
401 East State Street, 5th Floor West
CN 028
Trenton, New Jersey 08625-0028

Re: 4Q08 GWMR
Former American Cyanamid Site
Bridgewater Township, New Jersey

File: 5772/43892 Task 2 Corr

Dear Mr. Shah:

On behalf of Wyeth Holdings Corporation (Wyeth), enclosed is the 4Q08 Ground Water Monitoring Report (GWMR) associated with the Wyeth (Former American Cyanamid) site, located in Bridgewater Township, New Jersey. Ground water monitoring is performed in accordance with the 1988 Administrative Consent Order (ACO) between the American Cyanamid Company (Cyanamid) and the New Jersey Department of Environmental Protection (NJDEP), as amended in 1994.

Should you have any questions or comments on the documents provided herewith, please feel free to contact me at 732-225-7380 extension 220.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

Angelo J. Caracciolo, III
Sr. Project Manager
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5772/42037.110.210

REPORT

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Ground Water Monitoring
Fourth Quarter 2008
Bridgewater, New Jersey Site

Wyeth Holdings Corporation
Madison, New Jersey

Steven J. Roland, P.E.
Program Director

February 2009

O'BRIEN & GERE

WYETH HOLDINGS CORPORATION, BOUND BROOK, NJ

QUARTERLY GROUND WATER MONITORING REPORT

FOURTH QUARTER 2008

CERTIFICATION

I certify under penalty of the law that the information provided in this document is true, accurate, and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement, which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Thomas Donohue

T. Donohue
Director, Department of Environment, Health & Safety
Wyeth

Notary:

Dana M. Bailey 2/11/09

DANA M. BAILEY
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MY COMMISSION EXPIRES MAR. 5, 2012

WYETH HOLDINGS CORPORATION
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Wyeth

SIGNATURE AUTHORIZATION

SITE REMEDIATION ACTIVITIES

I, Geraldine A. Smith, Vice President Wyeth Holdings Corporation, authorize the position of Senior Director or Director EHS Wyeth, to sign as the authorized representative, all reports and certifications required by N.J.A.C. 7:14B, N.J.A.C. 7:26B, N.J.A.C. 7:26C, N.J.A.C. 7:26E, and N.J.A.C. 7:27 for Wyeth Holding Corporation's East Main Street Bridgewater, New Jersey facility.

Geraldine A. Smith

Geraldine A. Smith
Vice President

Date 8/8/08

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1. Introduction

This report presents the results of the fourth quarter 2008 quarterly ground water monitoring program at the Wyeth Holdings Corporation Site (formerly the American Cyanamid Company Site) in Bridgewater, New Jersey. The monitoring program includes site-wide ground water pumping and monitoring, as well as the ground water monitoring requirements for the Impound 8 Resource Conservation and Recovery Act (RCRA) Facility. This report was prepared in accordance with the Administrative Consent Order (ACO) between the American Cyanamid Company (Cyanamid) and the New Jersey Department of Environmental Protection (NJDEP), as amended in May 1994 (ACO Amendment). American Home Products Corporation (AHP), now known as Wyeth, having acquired Cyanamid in November 1994, is responsible for overseeing the monitoring program.

1.1. Background

In 1982, Cyanamid began monitoring the site-wide ground water control system at the facility. The monitoring program was conducted in accordance with the requirements of the 1982 ACO between Cyanamid and the NJDEP.

The NJDEP issued a final New Jersey Pollutant Discharge Elimination System-Discharge to Ground Water (NJPDES-DGW) Permit # 0002313 for the site on September 30, 1987. The monitoring requirements were increased for this permit by adding analyses and monitoring wells to the site-wide program. In 1988, the NJDEP modified the NJPDES-DGW # 0002313 to include the Impound 8 Facility monitoring requirements.

The Impound 8 Facility program consists of the construction of a permitted RCRA waste management facility for the closure of several on-site lagoons and impoundments. As part of the program, the contents of remaining on-site impoundments may be treated and consolidated in the Impound 8 Facility. This facility includes the areas of former Lagoons 8 and 9. Lagoon 9A has been closed and is incorporated into the ground water monitoring program at Impound 8. The monitoring program details were presented in the Impound 8 Facility Design Report (BB&L, March 1988), the Impound 8 Facility Ground Water Detection Monitoring Program (GWDMP) Work Plan (BB&L, December 1986, Revised December 1987 and March 1988), and the Implementation Plan (BB&L, March 1988) as part of the RCRA Permit.

In May 1994, an amendment to the ACO (ACO Amendment) between Cyanamid and the NJDEP was executed. The ACO Amendment incorporates and supersedes the site-wide and Impound 8 ground water pumping and monitoring requirements referred to previously.

In September 1997, AHP requested modifications to the site-wide ground water monitoring requirements. The modifications were approved by the NJDEP in correspondence dated September 30, 1997. The following table and bullets summarize the currently approved monitoring program:

In July of 1996, a Record of Decision (ROD) was issued by the NJDEP for the Group II Impoundments. Group II includes Impoundments 15, 16, 17, and 18. This ROD included requirements for development and implementation of an overburden ground water monitoring program. The program was developed and agreed upon as outlined in correspondence to the NJDEP dated March 18, 1997. The monitoring of overburden wells in the Group II area is presented in Table 1-1.

Table 1-1 *Site-wide quarterly monitoring requirements summary.*

Monitor Wells/Points	Requirements
Production wells (PW-2 and PW-3)	Target Compound List (TCL) Volatile Organic Compounds (VOCs)/ quarterly TCL Semivolatile Organic Compounds (SVOCs)/quarterly Arsenic/quarterly Extract at least 650,000 gallons of ground water per day
Perimeter bedrock wells (SS, TT, WW, XX, YY, ZZ)	TCL VOCs/quarterly Arsenic/quarterly (wells SS, TT and YY only)
Impoundment 3, 4 and 5 area overburden wells (28R and MW-2)	TCL VOCs/semi-annually (2nd and 4th quarters) TCL SVOCs/semi-annually (2nd and 4th quarters) Arsenic, cadmium/semi-annually (2nd and 4th quarters) Chlorides/semi-annually (2nd and 4th quarters, MW-2 only)
Impoundment 14 area overburden wells (19R, 21R and O-R)	TCL VOCs/semi-annually (2nd and 4th quarters) TCL SVOCs/semi-annually (2nd and 4th quarters – 19R only)
Impoundment 17 and 18 (AAA, CCC-R, EEE-R, III, KKK) Note: Wells AAA, CCC-R, EEE-R requirements met under Group II monitoring	TCL VOCs/semi-annually (2nd and 4th quarters) TCL SVOCs/semi-annually (2nd and 4th quarters) Metals/semi-annually (2nd and 4th quarters only) Chlorides/semi-annually (2nd and 4th quarters only) Radiologicals/semi-annually (2nd and 4th quarters – CCC-R, EEE- R, and KKK only)
Group II overburden wells (AAA, CCC-R, EEE-R, 16MW-2) Note: 16MW-2 analyzed for metals only	TCL VOCs/quarterly TCL SVOCs/quarterly Metals/quarterly Cyanide and phenols/quarterly
Lagoon 6 and 7 and Impoundment 19 and 24 area overburden wells (32-R, 34-R, 38-R, 42-R and TFP-94-1R) Note: 32-R analyzed for VOCs only.	VOCs/semi-annually (2nd and 4th quarters) TCL SVOCs/semi-annually (2nd and 4th quarters) Arsenic/semi-annually (2nd and 4th quarters) Cadmium, chromium, chlorides/ semi-annually (2nd and 4th quarters – 38R only)
Impoundment 8 wells (RCRA D-1 through RCRA D-15)	TCL VOCs, Total Dissolved Solids (TDS), Total Organic Carbon (TOC), Total Organic Halides (TOX), pH, specific conductance/ quarterly TCL SVOCs, Target Analyte List (TAL) Metals/semi-annually (2nd and 4th quarters) Monthly monitoring of leachate in the detection system with quarterly reporting Quarterly calculation of the shallow bedrock ground water flow rate beneath the Impound 8 facility Statistical analysis of specific shallow bedrock ground water quality parameters between upgradient and downgradient wells
Lagoon 9A area wells (RCRA D-12 through RCRA D-15)	Comparison of shallow bedrock ground water quality in upgradient wells to downgradient wells in the Lagoon 9A area to determine the effectiveness of the Lagoon 9A closure.
All wells	Quarterly water level measurements Quarterly ground water contour maps Comparison of the ground water quality to the NJDEP Ground Water Quality Standards

Source: O'Brien & Gere

In July of 1996, a ROD was issued by the NJDEP for the Hill Property portion of the site. The ROD includes provisions for a Classification Exception Area (CEA) covering the ground water beneath the Hill Property. This ground water was monitored by bedrock wells PW-16, PW-17, PW-18, and perimeter bedrock well UU. Low levels of some organic compounds were observed in these wells at the time of the ROD CEA.

The Hill Property monitoring requirements were modified as detailed in the AHP correspondence dated January 8, 1998 and approved by the NJDEP on February 18, 1998. The modifications include the elimination of Hill Property wells PW-17, PW-18, well UU, and well MJ from the site-wide ground water monitoring program. Ground water elevations will continue to be measured in well MJ to provide a data point in this vicinity.

Discontinuation of monitoring of well PW-16 was approved by NJDEP in correspondence dated September 8, 2004, based on VOC results being observed below NJDEP Ground Water Quality Standards (GWQS) for two consecutive events (Fourth Quarter 2003 and Second Quarter 2004). PW-16 continues to be monitored for ground water elevation.

1.2. Objectives

This report has been developed to document that the following objectives have been met:

- complete the requirements of the ACO Amendment

- monitor the ground water elevation and/or ground water quality of the following areas:

  - Perimeter wells
  - Production wells
  - Hill property well
  - Impoundment 3, 4, and 5 areas
  - Impoundment 14 area
  - Group II impoundment area
  - Lagoons 6 and 7, and impoundment 19 and 24 areas

- monitor the Impound 8 ground water well network to gauge the effectiveness of the Impound 8 interceptor trench and cut-off wall

- maintain the Impound 8 shallow bedrock ground water monitoring well network to detect potential releases from the Impound 8 Facility

1.3. Report Organization

This report presents the field and laboratory data compiled to fulfill the requirements of the ACO Amendment for the fourth quarter of 2008. A description of the remaining sections of this report is provided below:

Section 2: Site geology and hydrogeology - provides background information and a discussion of the ongoing site wide ground water extraction (pumping) program, and provides information specific to the Impound 8 facility.

Section 3: Site-wide quarterly monitoring - provides ground water flow and quality information for overburden ground water in the vicinity of on-site impoundments, and bedrock ground water in the perimeter monitoring wells and production wells.

Section 4: Impound 8 quarterly monitoring - provides a discussion of the overburden, leachate, and the shallow bedrock monitoring activities.

2. Site Hydrogeology

There have been a number of ground water reports developed based upon site research and investigations. A limited listing of relevant reports is provided as Table 2-1. Select information from these studies, and past ground water quarterly reports, is briefly discussed in the following sections. Further discussion regarding hydrogeology at the site can be found in the Remedial Investigation Report (RIR) for Ground Water (HydroQual, 2006) and the Supplemental (RIR) for Ground Water (HydroQual, 2007), approved by NJDEP and USEPA.

The horizontal component of ground water flow within the overburden deposits is essentially southward toward the Raritan River. Based on Camp Dresser, & McKee modeling of the site in 1985 and recent vertical gradient data from some of the multi-level bedrock wells, overburden ground water in the main plant area tends to flow downward into the underlying bedrock. Pumping of the production wells reduces the piezometric head in the bedrock and induces ground water flow from the overlying overburden materials toward the production wells. South of a line paralleling the Lehigh-Reading Railroad tracks, the bedrock pumping does not appear to influence overburden ground water and flow is generally south toward the Raritan River.

Ground water flow within the Passaic Formation is predominantly a function of secondary permeability (flow through joints and fractures within the bedrock). Packer test data obtained by CDM (1985 and 1992) indicate two extensive zones of joints and fractures that correlate with the bedding plane jointing and are further categorized as the highly and moderately transmissive zones, separated by zones of more competent bedrock (lower hydraulic conductivity). These zones supply the production wells with their high yield of ground water and are a principal pathway for ground water contaminant transport at the site. A third zone (SS conductive zone) was identified by CDM (1985) subcropping south of the Raritan River. The SS conductive zone is not hydraulically connected to the transmissive zones within the plant, and is not influenced by pumping of the production wells. A subvertical fracture trending northwest through the main plant was identified by CDM (1992) in production test wells TW-2 and TW-3 which are located in the main plant and correlates with the near vertical joint pattern discussed in Section 2.2. The results of a 72-hour pump test performed in test well TW-2 showed that the subvertical fracture zone is hydraulically connected to the highly and moderately transmissive zones identified by CDM in 1985. TW-2 and TW-3 have since been designated as PW-2 and PW-3, and have been pumping as replacement production wells since March 23, 1994.

As part of the production well startup, monitoring of the replacement wells PW-2 and PW-3 for a period of 30 days showed improved hydraulic containment in the main plant and portions of the impoundment areas. This is described in the "Final Summary Report, Start-up of Production Wells PW-2 and PW-3" dated August 1994 (CDM). Further, horizontal hydraulic gradients between the main plant and the former production wells on the Hill Property have been reversed, with ground water flow now being toward the main plant from the former production wells.

In the southern portion of the site (south of the Lehigh Valley Railroad tracks), the major controlling feature is the Raritan River which acts as a regional ground water discharge zone. Areas indicative of discharge to the Raritan River are generally characterized by a natural upward hydraulic gradient as observed in the multiport Well SS (HydroQual, 2007).

The zone of influence created by the production well pumping encompasses the main plant portion of the site. Ground water elevation contour mapping (Figure 3-4) has shown an east-west elongation in the zone of influence, caused by the orientation of the highly and moderately transmissive zones, the apparent termination of the subvertical fracture zone within the main plant, and the distribution of monitoring

wells. The portion of the site south of the Lehigh-Reading Railroad tracks, however, was identified as an area where production well influence is limited (CDM 1985 and HydroQual, 2007).

3. Site-Wide Quarterly Monitoring

Overburden ground water elevations and ground water quality are monitored in areas of the site as specified by the ACO Amendment and the ROD for the Group II Impoundments. The locations of the site-wide overburden monitoring wells are shown on Figure 3-1.

The bedrock system, as specified by the ACO, is currently monitored by 19 bedrock wells, as shown on Figure 3-2.

On March 23, 1994, ground water pumping for production was switched from former production wells PW-16, PW-17, and PW-18 to wells PW-2 and PW-3 under a program approved by the NJDEP.

The ACO requires ground water to be pumped at a minimum weekly average of 650,000 gallons per day for the quarter. The site production well pumping information for the fourth quarter 2008 is provided as Table 3-1. The quarterly pumping volumes from the second quarter 1988 through to the fourth quarter 2008 are provided on Table 3-2. The volume of water treated during the fourth quarter 2008 was 61,238,200 gallons, and the total volume of ground water treated since July 1988 is 4,910,000,000 gallons.

3.1. Overburden Water Level Measurements

Site-wide overburden ground water elevation measurements were obtained on October 20, 2008. The elevation data and changes in elevations from the last quarter are presented in Table 3-3.

An overall overburden ground water elevation contour map has been prepared for the Main Plant area and is provided as Figure 3-3. The following provides a description of the ground water elevation data for each of the four areas required to be monitored by the ACO.

3.1.1. Impoundment 3,4, and 5

Wells 28R, MW-2, MW-3, MW-5, MW-7, and MW-9 are monitored for the Impoundment 3, 4 and 5 area (Figure 3-3). The ground water flow direction in this area for the fourth quarter 2008 monitoring event is generally to the south with flow potentials converging in the vicinity of well MW-2. This ground water pattern is similar to historical flow patterns. The change in ground water elevations in this area is consistent with previous data.

3.1.2 Impoundment 14

The ground water flow direction in the area of Impoundment 14, as monitored by wells 19R, 21R and O-R, indicates a southeasterly hydraulic gradient away from Cuckolds Brook, towards the center of the plant, which is consistent with previous findings (Figure 3-3). The change in ground water elevations is consistent with previous data.

3.1.3 Group II Impoundment

The ground water flow direction in the area of the Group II Impoundments, monitored by wells AAA, CCC-R, EEE-R and 16MW-2, is generally to the south across the Group II Impoundments (Figure 3-3). The change in ground water elevations is consistent with previous data.

3.1.4 Lagoon 6 and 7 and impoundment 19 and 24

Elevation changes for the Lagoon 6 and 7 and Impoundments 19 and 24 area are consistent with historic data. The current ground water elevations in wells 32-R, 34-R, 38-R, 42-R and TFP-94-1R, indicate mounding beneath Lagoon 7 with a portion of ground water flow directed to the southwest toward the Raritan River, and a portion directed to the northeast toward Cuckold's Brook, which is similar to historic ground water flow patterns (Figure 3-3).

3.2. Bedrock Water Level Measurements

Bedrock water level measurements obtained on October 20, 2008 are presented in Table 3-4. Between the third quarter 2005, and fourth quarter 2005 bedrock wells SS, TT, WW, XX, YY, ZZ, EEEE, FFFF, and GGGG were retrofitted with FLUTe® liners with discrete monitoring ports. The FLUTe® system is composed of several ports that target discrete flow zones. FLUTe® procedures are provided in Appendix A. Table 3-4 also provides a summary of the monitoring port elevations and their associated ground water elevations. Prior to the FLUTe® liner installations, historical measurements were representative of average ground water elevations of the entire open interval in each well. Since the ground water elevations obtained from the bedrock wells in which FLUTe® liners were installed are representative of discrete flow zones, comparison of these elevations with historic elevations prior to FLUTe® liner installation is not appropriate. Ground water elevation measurements from each port have been compared to previous FLUTe® measurements. For consistency, the remaining bedrock wells (MJ, AAAA, BBBB, CCCC, DDDD, IIII, and JJJJ) without FLUTe® liners have been compared to historical measurements. Ground water elevations and the changes in elevations from the previous quarter are presented in Table 3-4.

Flowing artesian conditions were observed at monitoring points IIII-D and JJJJ-D from the fourth quarter 2006 through the third quarter 2007, and then from the first quarter 2008 through the third quarter 2008. During the fourth quarter 2008 only monitoring point IIII-D showed artesian conditions. During the second quarter 2008, wells IIII-D and JJJJ-D were temporarily modified to allow for accurate water level measurements.

A bedrock ground water contour map, prepared using ground water elevations from wells PW-2, PW-3, PW-16, SS (Port 1), TT (Port1), WW (Port 1), XX (Port 1), YY (Port 3), ZZ (Port 1), AAAA-S, BBBB-S, CCCC-S, DDDD-O, EEEE (Port 4), FFFF (Port 3), GGGG (Port 2), IIII-S, and JJJJ-O, is provided as Figure 3-4.

Wells and FLUTe® ports used to produce the contour map were selected to represent the upper moderately conductive zone. Wells that did not have screens that intersected the upper moderately conductive zone including SS (Port 1), WW (Port 1), XX (Port 1), ZZ (Port 1), AAAA-S, CCCC-S, GGGG (Port 3), IIII-S, and JJJJ-O were selected based on screen depth that most closely correlated in depth to adjacent wells that had a screen that did intersect the zone.

3.2.1. Production Wells

Ground water elevations and the elevation changes in the Production Wells (PW-2 and PW-3) from the previous quarter are presented in Table 3-4. The production well zone of influence, based on the October 21, 2008 ground water elevations appears to be similar to the zone of influence observed at these locations during previous events (Figure 3-4).

3.2.2. Perimeter Wells

Ground water elevations and the elevation changes in the perimeter bedrock wells (SS, TT, WW, XX, YY and ZZ) from the previous quarter are presented in Table 3-4.

3.2.3. Main Plant

Ground water elevations and the elevation changes for the Main Plant bedrock wells (AAAA, BBBB, CCCC, DDDD, EEEE, FFFF, GGGG, IIII and JJJJ) from the previous quarter are presented in Table 3-4. The vertical gradients noted in the Main Plant wells are the result of varying degrees of hydraulic communication between the transmissive zones at various well locations due to pumping of the production wells. Vertical gradients noted at wells IIII and JJJJ, located within the Raritan River floodplain, suggest ground water discharge to the Raritan River from the deep bedrock.

3.3. Overburden Ground Water Quality

In a letter dated October 11, 2005, NJDEP accepted the use of passive diffusion bags (PDBs) for volatile organic compound (VOC) sample collection from the overburden monitoring wells sampled as part of the quarterly monitoring program. Based on this acceptance, PDBs were installed on October 7, 2008 in the overburden monitoring wells to be sampled during the fourth quarter 2008. Installation and sampling procedures for PDBs are provided in Appendix A. A PDB specification summary table and checklists for the submission of sampling data for PDBs are provided in Appendix B.

Accutest Laboratories, Inc. of Dayton, New Jersey (Accutest) collected ground water samples from the following areas between October 21 and October 24, 2008: Impoundment 3, 4, and 5, Impoundment 14, Group II impoundment, and Lagoon 6 and 7 and Impoundment 19 and 24. It is noted that monitoring wells EEE-R and CCC-R were re-sampled on November 5, 2008 for chlorides. Chloride was inadvertently not included in the sampling event occurred on October 21, 2008. Accutest (NJ Certification No. 12129) also performed laboratory analysis of the ground water samples.

Measurements of specific conductance, pH, temperature, dissolved oxygen, and turbidity were recorded in the field. These data are presented in Appendix B. Trend graphs for constituents detected above GWQS during the fourth quarter 2008 monitoring event or, otherwise referenced in this report, are included in Appendix C. The ground water analytical data is provided in Tables 3-5, 3-6, 3-7, and 3-8. The data were reviewed in accordance with NJDEP procedures. These data were evaluated using the NJDEP Electronic Data Systems Application Checker program and no errors were evident. A data validation review is provided in Appendix D.

1,2,4-Trichlorobenzene in wells 34-R and TFP-94-1R were detected at their lowest concentration to date continuing an overall decreasing trend. Naphthalene in well TFP-94-1R was detected at the lowest concentration to date.

The concentration of 3&4-Methylphenol in well 38-R was detected above GWQS during the fourth quarter 2008 sampling event for the first time since the second quarter 2004. Dimethyl Phthalate and (bis(2-Ethylhexyl)Phthalate) in well 19-R and n-Nitrosodiphenylamine in well MW-2 were detected at their highest concentrations observed to date. Detections observed in well MW-19-R during the fourth quarter 2008 sampling event were the first above GWQS since two consecutive detections below GWQS during the fourth quarter 2007 and second quarter 2008 sampling event.

The remaining VOC and SVOC concentrations in overburden ground water collected during the fourth quarter 2008 monitoring event are within their respective ranges of historic fluctuations.

The concentration of arsenic in well III increased to the highest concentration observed to date during the fourth quarter 2008 sampling event continuing an increasing trend observed since the fourth quarter 2006. Iron in well CCC-R continues a decreasing trend observed since the second quarter 2006. The concentration of calcium in wells 16-MW-2 and CCC-R decreased to the lowest concentration observed to date during the fourth quarter 2008 sampling event continuing a slight decreasing trend.

The remaining metals concentrations in overburden ground water, during the fourth quarter 2008, are within the range of historic fluctuation.

3.4. Bedrock Ground Water Quality

Bedrock ground water quality was obtained from October 21 to October 23, 2008 and is presented below. It is noted that production well PW-2 was sampled on December 12, 2008 due to pump failure that occurred during the October 21, 2008 sampling event. As noted in section 3.2, bedrock wells SS, TT, WW, XX, YY, ZZ, EEEE, FFFF, were retrofitted with FLUTe® liners with discrete monitoring ports for ground water sampling. FLUTe® procedures are provided in Appendix A.

Accutest collected ground water samples from the six perimeter bedrock monitoring wells and the active production wells. Accutest also performed laboratory analysis of the ground water samples. Specific conductance, pH, turbidity, dissolved oxygen, and temperature measurements were recorded in the field and are presented on the field sampling logs in Appendix B. Trend graphs for constituents detected above GWQS during the fourth quarter 2008 monitoring event are included in Appendix C. The ground water analytical data is provided in Tables 3-5, 3-6, 3-7, and 3-8. The data were reviewed in accordance with NJDEP procedures. These data were evaluated using the NJDEP Electronic Data Systems Application Checker program and no errors were evident. The data validation review is provided in Appendix D.

VOC and SVOC concentrations in bedrock ground water for the fourth quarter 2008 are within the range of historic fluctuations.

Arsenic in well TT (Port 3) was not detected during the fourth quarter 2008 sampling event for the first time since the start of the sampling. This is consistent with an overall decreasing arsenic trend observed at well TT (Port 3). The concentrations of the remaining metals are within the range of historic fluctuation and will continue to be closely monitored during future sampling events.

For the production wells, benzene and naphthalene in well PW-2 was detected at the lowest concentration observed to date. Nitrobenzene in well PW-3 was detected at the lowest concentration since the first quarter 1998, continuing a decreasing trend observed since the third quarter 2005. The remaining VOC and SVOC results are consistent with previously detected results.

4. Impound 8 Quarterly Monitoring

A total of fifteen shallow bedrock monitoring wells are sampled on a quarterly basis around the Impound 8 Facility to detect potential releases to ground water. The monitoring program for the Impound 8 Facility is described in the NJDEP-approved GWDMP.

4.1. Overburden Ground Water and Impound 8 Leachate

4.1.1. Ground Water Elevation Measurement

Ground water elevation measurements were obtained on October 20, 2008 from fifteen overburden monitoring wells to evaluate the effectiveness of the ground water interceptor trench and ground water cut-off wall in minimizing overburden ground water flow within Impound 8. The ground water elevation data and elevation changes from the previous quarter have been summarized and are provided on Table 4-1. Ground water elevation changes were consistent with historic variations. An Impound 8 monitoring well location plan is provided as Figure 4-1.

Based on the October 20, 2008 ground water elevation data, the monitoring wells that are hydraulically upgradient of the groundwater interceptor trench and ground water cut-off wall include RCRA-S1, RCRA-S3, RCRA-S4, RCRA-S9, and RCRA-S11.

Monitoring wells that are hydraulically downgradient of the ground water interceptor trench and ground water cut-off wall include RCRA-S2, RCRA-S5, RCRA-S6, RCRA-S7, RCRA-S8, RCRA-S10, RCRA-S12, RCRA-S13R, RCRA-S14, and RCRA-S15. Consistent with previous monitoring data, wells RCRA-S2, RCRA-S5, RCRA-S6, RCRA-S12, and RCRA-S13R were dry. Wells RCRA-S7, RCRA-S8, RCRA-S10, RCRA-S14, and RCRA-S15 contained ground water. The overburden wells downgradient of the interceptor trench and cut-off wall that typically contain measurable ground water levels (RCRA-S7, RCRA-S9, RCRA-S14, and RCRA-S15) are located within an area that has a greater thickness of overburden due to a bedrock trough that runs from the northwest to the southeast along the southwest portion of Impound 8.

Due to the limited occurrence of ground water in the overburden ground water zone, a contour map has not been generated. However, Figure 4-2 depicts the water elevations observed this quarter. As evidenced by the consistently lower ground water elevations in the wells hydraulically downgradient of the interceptor trench and cut-off wall, the system is effective in controlling overburden ground water at Impound 8.

The Cell 1, Cell 2, Cell 3, and Cell 4 leachate detection and collection systems have been constructed, and are being monitored in accordance with the ACO. The actual rates are determined by weekly monitoring of a flow-totalizing meter installed on the leachate detection system piping. The data that have been collected during the fourth quarter of 2008 are included in Appendix E. The Action Leakage Rate (ALR), as approved by the United States Environmental Protection Administration, is 21,302 gal per acre-day (gpad). Monitoring results from the fourth quarter of 2008 do not exceed the current ALR.

4.2. Shallow Bedrock Monitoring

As detailed in the Impound 8 Work Plan, ground water in the bedrock flows in a southwesterly direction under natural conditions. However, during the operation of a bedrock pumping well located approximately 300 ft to the northeast of the site, at Phillips Concrete Incorporated (formerly Mensing Cement Company), a divergent flow pattern develops. While the usual ground water flow direction is to the southwest, the influence of the pumping well has previously reversed the ground water flow direction under the northern portion of Impound 8, resulting in a northeasterly flow direction during pumping conditions. To account for this divergent flow pattern, the GWDMP has defined two sets of downgradient wells to monitor flow: RCRA D-1 through RCRA D-4 (to monitor the northeast flow); and RCRA D-7 through RCRA D-11 (to monitor the southwest flow). Shallow bedrock wells RCRA-D5, RCRA-D6, RCRA-D14, and RCRA-D15 have been designated as upgradient. A more detailed discussion of the bedrock hydrogeology and the divergent bedrock ground water flow pattern can be found in the GWDMP. Divergent flow was not evident based on the ground water elevations recorded on October 20, 2008 as part of the fourth quarter 2008 quarterly monitoring event.

In addition, the GWDMP provides a means to monitor potential impacts to ground water from Impound 9A. The GWDMP has identified wells RCRA-D14 and RCRA-D15 as upgradient and wells RCRA-D12 and RCRA-D13 as downgradient with respect to Impound 9A. These wells provide a means of comparison between water quality before and after passing beneath Lagoon 9A.

4.2.1. Ground Water Elevations

Shallow bedrock ground water elevation measurements obtained on October 20, 2008 are summarized on Table 4-1. A shallow bedrock ground water elevation map has been provided as Figure 4-3. The fourth quarter 2008 ground water elevations indicate a southerly flow direction.

Calculations of the estimated shallow bedrock ground water flow velocity on October 20, 2008 are included in Appendix F.

4.2.2. Impound 8 Ground Water Sampling and Analysis

Ground water sampling was performed between October 21 and October 23, 2008 at wells RCRA-D1 through RCRA-D15. It is noted that RCRA-D15 was re-sampled on November 14, 2008. An incorrect total well depth was used during the sampling event on October 23, 2008. Accutest performed the ground water sampling and analysis. The Impound 8 Facility shallow bedrock wells include a dedicated ground water sampling system. The system is the "QED-Well Wizard" comprised of dedicated pump tubing and bladders in each well, with dedicated on-site pneumatic controllers. Field sampling logs are presented in Appendix B.

The analytical parameters for the samples included the following:

- TCL VOCs
- TCL SVOCs
- TAL Metals
- TDS
- TOC
- TOX.

Analytical results for the fourth quarter 2008 ground water sampling event are provided in Tables 4-2 through 4-5. The data were reviewed in accordance with NJDEP procedures. Trend graphs for constituents detected above GWQS during the fourth quarter 2008 monitoring event are included in

Appendix C. These data were evaluated using the NJDEP Electronic Data Systems Application Checker program and no errors were evident. A data validation review is provided in Appendix D.

VOC concentrations in the impound 8 ground water samples collected during the fourth quarter 2008 sampling event are consistent with previously detected results.

Metals concentrations in the impound 8 wells are within the range of historic fluctuations. TOC, TDS, and TOX concentrations were within the range of historic fluctuations during the fourth quarter 2008.

4.2.3. Impound 8 Statistical Analysis

In accordance with the ACO Amendment, statistical analyses are required to be performed comparing downgradient ground water quality as monitored by wells RCRA-D1 through RCRA-D4 and RCRA-D7 through RCRA-D11, to upgradient ground water quality as monitored by wells RCRA-D5, RCRA-D6, RCRA-D14, and RCRA-D15. It is noted that the ground water elevations recorded on October 20, 2008 do not indicate a divergent ground water flow pattern and the "upgradient/downgradient" well designations stated in the GWDMP may not be reflected based on the October 20, 2008 elevations. However, the designations specified in the GWDMP are maintained in this report since there remains potential for divergent flow due to the off-site pumping.

A set of stipulated parameters has been identified to determine if there is statistical significance between ground water quality from the upgradient and downgradient shallow bedrock monitoring wells. The stipulated parameters are listed below:

- Benzene
- Chlorobenzene
- Chloroform
- Ethylbenzene
- Tetrachloroethene
- Toluene
- 1,1,1-Trichloroethane
- Trichloroethene
- pH
- TDS
- TOC
- TOX
- Specific Conductivity

The required statistical analysis is the Dunnett's Multiple Comparison T-test method. A description of this method is provided in Appendix G. The statistical evaluation of results can only be conducted if the downgradient monitoring wells have detectable concentrations of the parameters identified, and there is variance in the upgradient well concentrations.

Statistical analyses were performed for the following stipulated parameters: pH, specific conductivity, TOC, TDS, chloroform, tetrachloroethene, and trichloroethene. Statistical analyses were not performed for TOX, benzene, chlorobenzene, ethylbenzene, 1,1,1-trichloroethane, or toluene as these parameters were not detected in the upgradient or downgradient monitoring wells.

Appendix H contains the statistical data. The calculated T-values were below the critical T-values of 5.61 for pH and 4.31 for the remaining parameters for which the statistical analyses were conducted with the exception of TOC. Calculated T-value for TOC at RCRA-D9 exceeded the critical T-value of 4.31.

While the TOC concentration was elevated above detection limit, no criteria exist. TOC concentrations will be closely monitored during future sampling events.

4.2.4. Lagoon 9A Sampling and Analysis

In accordance with the GWDMP for the Impound 8 Facility, and the ACO amendment, a qualitative comparison between upgradient and downgradient wells in the Lagoon 9A area is required and was completed. This analysis is designed to monitor the effectiveness of the closure and potential impacts to ground water quality. Tables 4-2 through 4-5 provide a summary of the analytical results from the fourth quarter 2008. Trend graphs for constituents detected above GWQS during the fourth quarter 2008 monitoring event are included in Appendix C.

The GWDMP has identified wells RCRA-D14 and RCRA-D15 as upgradient shallow bedrock monitoring wells in relation to Lagoon 9A. Shallow bedrock monitoring wells RCRA-D12 and RCRA-D13 were identified as downgradient of Lagoon 9A. Wells RCRA-D12 and RCRA-D13 were installed to evaluate potential impacts of Lagoon 9A, and were not intended for use in the Impound 8 upgradient evaluation. This arrangement allows comparisons between upgradient ground water quality, relative to Impound 8, before and after ground water passes beneath Lagoon 9A. Review of the October 20, 2008 shallow bedrock ground water elevation data and map presented as Figure 4-3 indicates that well RCRA-D14 has a higher ground water elevation compared to well RCRA-D13 and well RCRA-D15 has a higher ground water elevation compared to well RCRA-D12. Therefore, wells RCRA-D14 and RCRA-D15 can be considered upgradient of Lagoon 9A at the time of the October 20, 2008 ground water elevation measurements.

VOCs were not detected above GWQS in the upgradient or downgradient wells during the fourth quarter 2008 monitoring event, with the exception of upgradient well RCRA-D15. Historically, a number of VOCs have consistently been detected above GWQS in this well. TDS, TOC and TOX results for the fourth quarter 2008 monitoring event were within the range of historic fluctuations.

TABLES

Wyeth Holdings Corporation
Bound Brook, New Jersey Site
Fourth Quarter 2008 Site Wide Ground Water Program

Table 2-1. ***Reference Summary***

Date	Author	Title/Item
1978	Geraghty & Miller	Study of Ground Water Conditions
1985	Camp, Dresser & McKee	Development of Ground Water Model
1988	Blasland, Bouck & Lee	Quarterly Monitoring Program
1988	Blasland, Bouck & Lee	Impound 8 Ground Water Detection Monitoring Work Plan
1988	Blasland, Bouck & Lee	Impound 8 Facility Final Design Report
1988	Blasland, Bouck & Lee	Impound 8 Facility Implementation Plan
1991	Camp, Dresser & McKee	Hydro-geologic Test Plan for Production Wells
1992	Camp, Dresser & McKee	Relocation of Production Wells, Pump Test Report
1994	Camp, Dresser & McKee	Final Summary Report, Startup of Production wells PW-2 and PW-3
1995	Camp, Dresser & McKee	First Quarter 1995, ACO Amendment Ground Water Monitoring Program
1998	O'Brien &Gere Engineers, Inc.	Impound 8 Facility Ground Water Monitoring Fourth Quarter 1997
1998	O'Brien &Gere Engineers, Inc.	Impound 8 Facility Ground Water Monitoring First Quarter 1998
1998	O'Brien &Gere Engineers, Inc.	Impound 8 Facility Ground Water Monitoring Second Quarter 1998
1998	O'Brien &Gere Engineers, Inc.	Impound 8 Facility Ground Water Monitoring Third Quarter 1998
1998	O'Brien &Gere Engineers, Inc.	Site-Wide Ground Water Monitoring Fourth Quarter 1997
1998	O'Brien &Gere Engineers, Inc.	Site-Wide Ground Water Monitoring First Quarter 1998
1998	O'Brien &Gere Engineers, Inc.	Site-Wide Ground Water Monitoring Second Quarter 1998
1998	O'Brien &Gere Engineers, Inc.	Site-Wide Ground Water Monitoring Third Quarter 1998
1998-2008	O'Brien &Gere Engineers, Inc.	Site-Wide Ground Water Monitoring Fourth Quarter 1998 - Third Quarter 2008

(Table by O'Brien & Gere Engineers Inc.)

Wyeth Holdings Corporation
Bound Brook, New Jersey Site
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Table 3-1. *Site Production Well Pumping Information*

Period Ending	Hours		Gallons	Notes
	PW2	PW3	(Weekly Average)	
10/3/2008	0	168	667,000	
10/10/2008	48	120	665,000	
10/17/2008	0	168	664,000	
10/24/2008	96	72	661,000	
10/31/2008	0	168	663,000	
11/7/2008	0	168	667,000	
11/14/2008	0	168	663,000	
11/21/2008	72	96	665,000	
11/28/2008	168	0	673,000	
12/5/2008	168	0	677,000	
12/12/2008	114	54	665,000	
12/19/2008	168	0	667,000	
12/26/2008	168	0	662,000	

Notes:

Wyeth Holdings Corporation
Bound Brook, New Jersey Site
Fourth Quarter 2008 Site Wide Ground Water Program

Table 3-2. *Site Production Well Historical Pumping Information*

Report Date	Quarter	Total Production Well Volume		Running Total Volume
July-1988	2Q88	24,050,000	*	24,050,000
October-1988	3Q88	59,800,000	*	83,850,000
January-1989	4Q88	59,800,000	*	143,650,000
April-1989	1Q89	58,500,000	*	202,150,000
July-1989	2Q89	59,150,000	*	261,300,000
October-1989	3Q89	59,800,000	*	321,100,000
January-1990	4Q89	59,800,000	*	380,900,000
April-1990	1Q90	58,500,000	*	439,400,000
July-1990	2Q90	59,150,000	*	498,550,000
October-1990	3Q90	59,800,000	*	558,350,000
January-1991	4Q90	59,800,000	*	618,150,000
April-1991	1Q91	58,500,000	*	676,650,000
July-1991	2Q91	59,150,000	*	735,800,000
October-1991	3Q91	59,800,000	*	795,600,000
January-1992	4Q91	59,800,000	*	855,400,000
April-1992	1Q92	59,150,000	*	914,550,000
July-1992	2Q92	59,150,000	*	973,700,000
October-1992	3Q92	59,800,000	*	1,033,500,000
January-1993	4Q92	59,800,000	*	1,093,300,000
April-1993	1Q93	58,500,000	*	1,151,800,000
July-1993	2Q93	59,150,000	*	1,210,950,000
October-1993	3Q93	59,800,000	*	1,270,750,000
January-1994	4Q93	59,800,000	*	1,330,550,000
March-1994	1Q94	58,500,000	*	1,389,050,000
July-1994	2Q94	59,150,000	*	1,448,200,000
September-1994	3Q94	59,800,000	*	1,508,000,000
January-1995	4Q94	59,800,000	*	1,567,800,000
April-1995	1Q95	58,500,000	*	1,626,300,000
July-1995	2Q95	60,200,000		1,686,500,000
October-1995	3Q95	59,800,000	*	1,746,300,000
March-1996	4Q95	63,100,000		1,809,400,000
April-1996	1Q96	63,100,000		1,872,500,000
July-1996	2Q96	61,400,000		1,933,900,000
October-1996	3Q96	61,800,000		1,995,700,000
January-1997	4Q96	61,900,000		2,057,600,000
April-1997	1Q97	62,600,000		2,120,200,000
July-1997	2Q97	62,700,000		2,182,900,000
October-1997	3Q97	62,600,000		2,245,500,000
January-1998	4Q97	62,900,000		2,308,400,000
April-1998	1Q98	61,300,000		2,369,700,000
July-1998	2Q98	61,900,000		2,431,600,000
October-1998	3Q98	62,700,000		2,494,300,000

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Table 3-2. *Site Production Well Historical Pumping Information*

Report Date	Quarter	Total Production Well Volume		Running Total Volume
January-1999	4Q98	62,600,000		2,556,900,000
April-1999	1Q99	58,500,000	*	2,615,400,000
July-1999	2Q99	61,100,000		2,676,500,000
October-1999	3Q99	55,685,000		2,732,185,000
January-2000	4Q99	64,440,000		2,796,625,000
April-2000	1Q00	62,980,000		2,859,605,000
July-2000	2Q00	59,920,000		2,919,525,000
October-2000	3Q00	59,800,000	*	2,979,325,000
January-2001	4Q00	59,800,000	*	3,039,125,000
April-2001	1Q01	59,410,000		3,098,535,000
July-2001	2Q01	59,759,000		3,158,294,000
October-2001	3Q01	59,612,000		3,217,906,000
January-2002	4Q01	59,800,000	*	3,277,706,000
April-2002	1Q02	58,854,000		3,336,560,000
July-2002	2Q02	61,826,000		3,398,386,000
October-2002	3Q02	60,881,500		3,459,267,500
January-2003	4Q02	61,941,000		3,521,208,500
April-2003	1Q03	59,980,000		3,581,188,500
July-2003	2Q03	60,358,000		3,641,546,500
October-2003	3Q03	60,058,000		3,701,604,500
January-2004	4Q03	61,064,000		3,762,668,500
April-2004	1Q04	52,125,000		3,814,793,500
July-2004	2Q04	60,355,000		3,875,148,500
October-2004	3Q04	60,887,000		3,936,035,500
January-2005	4Q04	61,770,000		3,997,805,500
April-2005	1Q05	60,378,000		4,058,183,500
July-2005	2Q05	61,454,000		4,119,637,500
October-2005	3Q05	60,842,000		4,180,479,500
January-2006	4Q05	60,961,000		4,241,440,500
April-2006	1Q06	59,871,000		4,301,311,500
July-2006	2Q06	60,320,000		4,361,631,500
October-2006	3Q06	60,306,000		4,421,937,500
January-2007	4Q06	61,389,000		4,483,326,500
April-2007	1Q07	59,537,000		4,542,863,500
July-2007	2Q07	60,420,000		4,603,283,500
October-2007	3Q07	61,084,000		4,664,367,500
January-2008	4Q07	61,133,000		4,725,500,500
April-2008	1Q08	60,312,000		4,785,812,500
July-2008	2Q08	60,314,000		4,846,126,500
October-2008	3Q08	60,974,000		4,907,100,500
January-2009	4Q08	61,238,200		4,968,338,700

Total to Date	4,970,000,000

* - defaulted to 650,000 gallons per week in absence of data

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Table 3-3. Overburden Ground Water Elevations - October 20, 2008

Well I.D.	Permit Number	Well Casing Elevation (ft msl)	Well Depth (ft BTOC)	Bottom of Well Elevation (ft msl)	Screened Interval Elevation (ft msl) Top	Screened Interval Elevation (ft msl) Bottom	Depth to Water (ft BTOC)	Third Quarter 2008 Ground Water Elevation (ft msl)	Fourth Quarter 2008 Ground Water Elevation (ft msl)	Ground water Elevation Change (ft msl)
MW-2	25-33944-3	34.26	21.1	13.2	28.2	13.2	9.28	23.53	24.98	1.45
MW-3	25-33945-1	35.94	22.2	13.7	28.7	13.7	9.13	25.20	26.81	1.61
MW-5	25-33946-0	35.00	22.5	12.5	27.5	12.5	7.68	23.92	27.32	3.40
MW-7	25-33949-4	34.47	21.7	12.8	27.8	12.8	6.56	24.61	27.91	3.30
MW-9	25-33950-8	40.88	25.1	15.8	35.8	15.8	11.16	32.34	29.72	-2.62
MW-10	NA	40.13	22	18.1	36.1	18.1	6.48	33.11	33.65	0.54
MW-12	NA	34.26	22	12.3	30.3	12.3	9.54	22.51	24.72	2.21
MW-15	NA	30.36	23	7.4	27.4	7.4	3.77	25.86	26.59	0.73
MW-17	NA	34.42	19	15.4	30.4	15.4	8.22	25.23	26.20	0.97
MW-18A	NA	34.43	19	15.4	32.4	15.4	7.94	26.38	26.49	0.11
MW-19	NA	34.21	20	14.2	32.2	14.2	8.46	24.87	25.75	0.88
MW-22R	25-00065340	35.92	20	15.9	25.9	15.9	9.78	25.34	26.14	0.80
MW-25	NA	34.37	16.5	17.9	30.4	17.9	8.35	24.99	26.02	1.03
MW-28	NA	35.19	22	13.2	32.2	13.2	9.33	24.42	25.86	1.44
MP11-W1S	25-00065339	33.72	18	15.7	25.7	15.7	8.23	22.14	25.49	3.35
MW05-W1S	25-00065337	34.37	18	16.4	26.4	16.4	10.72	NM	23.65	NM
28-R	NA	30.88	17.8	13.1	18.1	13.1	4.56	25.68	26.32	0.64
19-R	25-31283-9	36.94	11.6	25.3	30.3	25.3	4.68	32.59	32.26	-0.33
21-R	25-31284-7	51.71	22.6	29.1	34.1	29.1	19.08	32.69	32.63	-0.06
O-R	25-22855	37.61	17.9	19.7	24.7	19.7	6.65	30.52	30.96	0.44
AAA	25-24942-8	29.31	16.8	12.5	17.5	12.5	5.93	22.65	23.38	0.73
CCC-R	25-50084	39.63	26.5	13.1	18.1	13.1	17.19	21.25	22.44	1.19
EEE-R	25-31282-1	37.98	25.1	12.9	17.9	12.9	16.49	20.66	21.49	0.83
III	25-25027-2	30.69	19.8	10.9	15.9	10.9	4.29	24.84	26.40	1.56
KKK	25-25029-9	39.63	28.3	11.3	16.3	11.3	14.52	22.30	25.11	2.81
16MW-2	NA	28.8	16.1	12.7	17.7	12.7	5.02	23.40	23.78	0.38
32-R	25-33063-2	38.65	20.4	18.3	23.3	18.3	9.88	28.15	28.77	0.62
34-R	25-33062-4	42.91	26.3	16.6	21.6	16.6	17.24	24.81	25.67	0.86
36-R	25-33061-6	39.47	24.7	14.8	19.8	14.8	12.25	26.05	27.22	1.17
P24-91-1	25-39209	41.40	26.8	14.6	24.6	14.6	16.55	24.00	24.85	0.85
38-R	25-33064-1	43.24	25.6	17.6	22.6	17.6	16.13	26.22	27.11	0.89
41-R	25-33065-9	40.46	26.2	14.3	19.3	14.3	13.18	25.69	27.28	1.59
42-R	25-33066-7	41.05	24.2	16.9	21.9	16.9	13.56	26.20	27.49	1.29
TFP-94-1 R	25-49039	31.28	19.1	12.2	20.2	12.2	7.29	23.65	23.99	0.34
Staff Gauge-1	NA	23.61	NA	NA	NA	NA	2.17	22.31	21.44	-0.87
Staff Gauge-4	NA	39.29	NA	NA	NA	NA	10.87	28.54	28.42	-0.12
Staff Gauge-7	NA	19.19	NA	NA	NA	NA	2.08	NM	17.11	NA
Staff Gauge-8	NA	33.82	NA	NA	NA	NA	6.08	27.84	27.74	-0.10
Staff Gauge-9	NA	31.29	NA	NA	NA	NA	3.75	26.63	27.54	0.91
Staff Gauge-10	NA	34.78	NA	NA	NA	NA	7.46	26.53	27.32	0.79
Staff Gauge-11	NA	28.58	NA	NA	NA	NA	1.25	26.54	27.33	0.79
Staff Gauge-12	NA	28.54	NA	NA	NA	NA	3.96	24.99	24.58	-0.41
Staff Gauge-14*	NA	25.42	NA	NA	NA	NA	NM	NM	NM	NA
Staff Gauge-15*	NA	21.63	NA	NA	NA	NA	NM	17.40	NM	NA
Staff Gauge-16	NA	28.31	NA	NA	NA	NA	3.79	25.01	24.52	-0.49

Notes:
ft BTOC - feet below top of casing
ft msl - feet mean sea level
NA - Not Available
NM - Not Measured
* - access to gauges was difficult due to overgrown brush

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Table 3-4 *Bedrock Water Elevations - October 20 and 21, 2008*

Well Number	Permit Number	Casing Elevation (ft msl)	Well Depth (ft BTOC)	Bottom of Well Elevation (ft msl)	Screened Interval Elevation (ft msl) Top	Screened Interval Elevation (ft msl) Bottom	Depth to Water (ft BTOC)	Third Quarter 2008 Ground Water Elevation (ft msl)	Fourth Quarter 2008 Ground Water Elevation (ft msl)	Ground water Elevation Change (ft msl)
Production Well										
PW-2*	25-42456	36.33	300	-263.7	-13.7	-263.7	76.12	-44.95	-39.79	5.16
PW-3*	25-42216	36.49	299	-262.5	-13.5	-262.5	67.55	-42.67	-31.06	11.61
Hill Property										
PW-16*	25-8217	56.73	404	-347.3	11.7	-347.3	37.09	19.93	19.64	-0.29
Perimeter Bedrock Wells										
SS (Port 1)	25-20094-3	32.31	60	-27.7	-20.0	-40.0	1.98	28.79	30.33	1.54
SS (Port 2)	25-20094-3	32.31	255	-222.7	-215.0	-235.0	3.36	28.76	28.95	0.19
SS (Port 3)	25-20094-3	32.31	382	-349.7	-342.0	-362.0	2.65	29.11	29.66	0.55
TT (Port 1)	25-20095	47.81	75	-27.2	-17.0	-37.0	23.15	23.22	24.66	1.44
TT (Port 2)	25-20095	47.81	192	-144.2	-134.0	-154.0	29.37	22.82	18.44	-4.38
TT (Port 3)	25-20095	47.81	310	-262.2	-252.0	-272.0	48.61	-17.99	-0.80	17.19
WW (Port 1)	25-20632-0	25.18	35	-9.8	-1.0	-21.0	9.67	9.46	15.51	6.05
WW (Port 2)	25-20632-0	25.18	152	-126.8	-118.0	-138.0	6.64	12.70	18.54	5.84
WW (Port 3)	25-20632-0	25.18	375	-349.8	-341.0	-361.0	7.97	16.05	17.21	1.16
XX (Port 1)	25-20630	26.77	35	-8.2	0.0	-20.0	9.42	17.05	17.35	0.30
XX (Port 2)	25-20630	26.77	190	-163.2	-155.0	-175.0	6.90	17.35	19.87	2.52
XX (Port 3)	25-20630	26.77	380	-353.2	-345.0	-365.0	9.91	16.09	16.86	0.77
YY (Port 1)	25-20631	72.19	55.5	16.7	34.0	14.0	40.28	31.79	31.91	0.12
YY (Port 2)	25-20631	72.19	170.5	-98.3	-81.0	-101.0	46.64	25.25	25.55	0.30
YY (Port 3)	25-20631	72.19	345.5	-273.3	-256.0	-276.0	52.94	13.82	19.25	5.43
ZZ (Port 1)	25-20633-8	42.11	70.5	-28.4	-10.0	-30.0	11.70	29.15	30.41	1.26
ZZ (Port 2)	25-20633-8	42.11	200.5	-158.4	-140.0	-160.0	11.91	30.93	30.20	-0.73
ZZ (Port 3)	25-20633-8	42.11	280.5	-238.4	-160.0	-220.0	5.43	35.65	36.68	1.03
ZZ (Port 4)	25-20633-8	42.11	320.5	-278.4	-135.0	-167.0	5.81	35.43	36.30	0.87
MJ*	NA	53.47	160	-106.5	NA	-106.5	-	-	-	-
Main Plant Bedrock Wells										
AAAA-O*	25-25419	32.61	82.3	-49.7	7.6	-49.7	6.53	24.31	26.08	1.77
AAAA-shall	25-25419	32.41	123.4	-91.0	-77.6	-91.0	6.94	23.78	25.47	1.69
AAAA-inter	25-25419	32.37	201.3	-168.9	-162.6	-168.9	8.75	22.09	23.62	1.53
AAAA-deep	25-25419	32.4	300	-267.6	-257.6	-267.6	6.44	24.25	25.96	1.71
BBBB-O*	25-25420-1	36.04	68.5	-32.5	-4.0	-32.5	10.88	24.84	25.16	0.32
BBBB-shall	25-25420-1	36.22	164.4	-128.2	-108.8	-128.2	22.90	13.76	13.32	-0.44
BBBB-deep	25-25420-1	36.10	360	-323.9	-313.9	-323.9	112.97	-76.34	-76.87	-0.53
CCCC-shall	25-25421	39.14	59.4	-20.3	-19.0	-29.0	18.14	19.51	21.00	1.49
CCCC-inter	25-25421	39.01	185.9	-146.9	-109.0	-119.0	12.51	24.57	26.50	1.93
CCCC-deep	25-25421	38.55	375	-336.5	-259.0	-269.0	17.94	18.75	20.61	1.86
DDDD-O*	25-25422	49.67	50.9	-1.2	9.7	-1.2	23.93	24.51	25.74	1.23
DDDD-shall	25-25422	49.67	69.1	-19.4	-170.3	-180.3	44.04	4.37	5.63	1.26
DDDD-deep	25-25422	49.67	365	-315.3	-305.3	-315.3	23.78	24.69	25.89	1.20
EEEE (Port 1)	25-27783-9	62.04	55.5	6.5	26.0	6.0	37.20	23.68	24.84	1.16
EEEE (Port 2)	25-27783-9	62.04	90.5	-28.5	-9.0	-29.0	37.08	23.86	24.96	1.10
EEEE (Port 3)	25-27783-9	62.04	170.5	-108.5	-89.0	-109.0	38.65	22.31	23.39	1.08
EEEE (Port 4)	25-27783-9	62.04	280.5	-218.5	-199.0	-219.0	37.87	20.06	24.17	4.11
FFFF (Port 1)	25-27784-7	62.67	55.5	7.2	25.0	5.0	40.11	21.93	22.56	0.63
FFFF (Port 2)	25-27784-7	62.67	95.5	-32.8	-15.0	-35.0	41.78	20.43	20.89	0.46
FFFF (Port 3)	25-27784-7	62.67	200.5	-137.8	-120.0	-140.0	42.50	19.24	20.17	0.93
FFFF (Port 4)	25-27784-7	62.67	275.5	-212.8	-195.0	-215.0	49.02	12.90	13.65	0.75
GGGG (Port 1)	25-27785-5	51.04	60	-9.0	0.0	-20.0	30.53	19.44	20.51	1.07
GGGG (Port 2)	25-27785-5	51.04	110	-59.0	-50.0	-70.0	30.55	19.39	20.49	1.10
GGGG (Port 3)	25-27785-5	51.04	205	-154.0	-145.0	-165.0	38.71	11.18	12.33	1.15
IIII-O*	25-32189	28.24	80.7	-52.5	-9.8	-52.5	6.37	21.26	21.87	0.61
IIII-shall	25-32189	28.24	172.4	-144.2	-116.8	-144.2	9.16	19.47	19.08	-0.39
IIII - deep	25-32189	28.24	320	-291.8	-251.8	-291.8	-0.26	30.07	28.50	-1.57
JJJJ-O*	25-32190-1	28.80	36.3	-7.5	-9.2	-66.2	5.97	22.87	22.83	-0.04
JJJJ-shall	25-32190-1	28.80	225.8	-197.0	-161.2	-197.0	8.44	20.19	20.36	0.17
JJJJ-deep	25-32190-1	28.80	395	-366.2	-336.2	-366.2	0.08	30.43	28.72	-1.71

Notes:
NA - Not Available
ft BTOC - feet below top of casing
ft msl - feet mean sea level
* denotes open bedrock well
- Water level at well MJ was not gauged because the well vault was flooded.
- Beginning with the second quarter 2008 sampling event artesian flow at wells IIII-deep and JJJJ-deep will be measured.

Table 3-5
Ground Water Analytical Results
8260 Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit Sample Method	19R 10/23/2008 ug/l PDB	21R 10/23/2008 ug/l PDB	28R 10/24/2008 ug/l PDB
1,1,1-Trichloroethane	30		1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1		1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	3		1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	50		1.0 U	1.0 U	0.93 J
1,1-Dichloroethene	1		1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	2		1.0 U	1.0 U	**9.3 Y**
1,2-Dichloropropane	1		1.0 U	1.0 U	1.0 U
2-Butanone (Mek)	300		10 U	10 U	10 U
2-Hexanone	100		5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (Mibk)	100		5.0 U	5.0 U	5.0 U
Acetone	6000		22.6	10 U	10 U
Benzene	1		**10.7 Y**	1.0 U	0.87 J
Bromodichloromethane	1		1.0 U	1.0 U	1.0 U
Bromoform	4		4.0 U	4.0 U	4.0 U
Bromomethane	10		2.0 U	2.0 U	2.0 U
Carbon Disulfide	700		0.51 J	2.0 U	2.0 U
Carbon Tetrachloride	1		1.0 U	1.0 U	1.0 U
Chlorobenzene	50		8.4	1.0 U	**58.6 Y**
Chloroethane	100		1.0 U	1.0 U	1.0 U
Chloroform	70		0.22 J	1.0 U	1.0 U
Chloromethane	100		1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	70		1.0 U	1.0 U	0.43 J
cis-1,3-Dichloropropylene	1		1.0 U	1.0 U	1.0 U
Dibromochloromethane	1		1.0 U	1.0 U	1.0 U
Ethylbenzene	700		1.1	1.0 U	0.55 J
Methylene Chloride	3		2.0 U	2.0 U	2.0 U
Styrene (Monomer)	100		5.0 U	5.0 U	5.0 U
Tetrachloroethene	1		1.0 U	1.0 U	1.0 U
Toluene	600		48.3	1.0 U	0.25 J
trans-1,2-Dichloroethene	100		1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropylene	1		1.0 U	1.0 U	1.0 U
Trichloroethene	1		1.0 U	1.0 U	**1.2 Y**
Vinyl Chloride	1		1.0 U	1.0 U	1.0 U
Xylenes (Total)	1000		3.7	1.0 U	0.62 J

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed
[1] - Sampled from tap inline with pump.
[2] - Valved tubing sampling system.

Table 3-5
Ground Water Analytical Results
8260 Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit Sample Method	32R 10/23/2008 ug/l PDB	34R 10/23/2008 ug/l PDB	38R 10/24/2008 ug/l PDB
1,1,1-Trichloroethane	30		1.0 U	1.0 U	5.0 U
1,1,2,2-Tetrachloroethane	1		1.0 U	1.0 U	5.0 U
1,1,2-Trichloroethane	3		1.0 U	1.0 U	5.0 U
1,1-Dichloroethane	50		1.0 U	1.0 U	5.0 U
1,1-Dichloroethene	1		1.0 U	1.0 U	5.0 U
1,2-Dichloroethane	2		1.0 U	1.0 U	5.0 U
1,2-Dichloropropane	1		1.0 U	1.0 U	5.0 U
2-Butanone (Mek)	300		10 U	10 U	50 U
2-Hexanone	100		5.0 U	5.0 U	25 U
4-Methyl-2-Pentanone (Mibk)	100		5.0 U	5.0 U	25 U
Acetone	6000		10 U	10 U	50 U
Benzene	1		1.0 U	**18.3 Y**	**499 Y**
Bromodichloromethane	1		1.0 U	1.0 U	5.0 U
Bromoform	4		4.0 U	4.0 U	20 U
Bromomethane	10		2.0 U	2.0 U	10 U
Carbon Disulfide	700		2.0 U	2.0 U	10 U
Carbon Tetrachloride	1		1.0 U	1.0 U	5.0 U
Chlorobenzene	50		**54.7 Y**	**118 Y**	**817 Y**
Chloroethane	100		1.0 U	1.0 U	5.0 U
Chloroform	70		1.0 U	1.0 U	1.4 N
Chloromethane	100		1.0 U	1.0 U	5.0 U
cis-1,2-Dichloroethene	70		1.0 U	1.0 U	5.0 U
cis-1,3-Dichloropropylene	1		1.0 U	1.0 U	5.0 U
Dibromochloromethane	1		1.0 U	1.0 U	5.0 U
Ethylbenzene	700		1.0 U	6.8	71.2
Methylene Chloride	3		2.0 U	2.0 U	10 U
Styrene (Monomer)	100		5.0 U	5.0 U	25 U
Tetrachloroethene	1		1.0 U	1.0 U	5.0 U
Toluene	600		0.43 J	2.5	96.9
trans-1,2-Dichloroethene	100		1.0 U	1.0 U	5.0 U
trans-1,3-Dichloropropylene	1		1.0 U	1.0 U	5.0 U
Trichloroethene	1		1.0 U	1.0 U	5.0 U
Vinyl Chloride	1		1.0 U	1.0 U	5.0 U
Xylenes (Total)	1000		1.0 U	8.9	223

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed
[1] - Sampled from tap inline with pump.
[2] - Valved tubing sampling system.

Table 3-5
Ground Water Analytical Results
8260 Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit Sample Method	42R 10/24/2008 ug/l PDB	AAA 10/24/2008 ug/l PDB	CCC-R 10/21/2008 ug/l PDB
1,1,1-Trichloroethane	30		2.5 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1		2.5 U	1.0 U	1.0 U
1,1,2-Trichloroethane	3		2.5 U	1.0 U	1.0 U
1,1-Dichloroethane	50		2.5 U	1.0 U	1.0 U
1,1-Dichloroethene	1		2.5 U	1.0 U	1.0 U
1,2-Dichloroethane	2		2.5 U	1.0 U	1.0 U
1,2-Dichloropropane	1		2.5 U	1.0 U	1.0 U
2-Butanone (Mek)	300		25 U	10 U	10 U
2-Hexanone	100		13 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (Mibk)	100		13 U	5.0 U	5.0 U
Acetone	6000		25 U	10 U	10 U
Benzene	1		**27.0 Y**	1.0 U	1.0 U
Bromodichloromethane	1		2.5 U	1.0 U	1.0 U
Bromoform	4		10 U	4.0 U	4.0 U
Bromomethane	10		5.0 U	2.0 U	2.0 U
Carbon Disulfide	700		5.0 U	2.0 U	2.0 U
Carbon Tetrachloride	1		2.5 U	1.0 U	1.0 U
Chlorobenzene	50		**897 Y**	6.3	0.25 J
Chloroethane	100		2.5 U	1.0 U	1.0 U
Chloroform	70		2.5 U	1.0 U	1.0 U
Chloromethane	100		2.5 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	70		2.5 U	1.0 U	1.0 U
cis-1,3-Dichloropropylene	1		2.5 U	1.0 U	1.0 U
Dibromochloromethane	1		2.5 U	1.0 U	1.0 U
Ethylbenzene	700		54.1	1.0 U	1.0 U
Methylene Chloride	3		5.0 U	2.0 U	2.0 U
Styrene (Monomer)	100		13 U	5.0 U	5.0 U
Tetrachloroethene	1		2.5 U	1.0 U	1.0 U
Toluene	600		5.7	0.26 J	1.0 U
trans-1,2-Dichloroethene	100		2.5 U	1.0 U	1.0 U
trans-1,3-Dichloropropylene	1		2.5 U	1.0 U	1.0 U
Trichloroethene	1		2.5 U	1.0 U	1.0 U
Vinyl Chloride	1		2.5 U	1.0 U	1.0 U
Xylenes (Total)	1000		47.1	1.0 U	1.0 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
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* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed
[1] - Sampled from tap inline with pump.
[2] - Valved tubing sampling system.

Table 3-5
Ground Water Analytical Results
8260 Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit Sample Method	EEE-R 10/21/2008 ug/l PDB	III 10/24/2008 ug/l PDB	KKK 10/24/2008 ug/l PDB
1,1,1-Trichloroethane	30		1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1		1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	3		1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	50		1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1		1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	2		1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1		1.0 U	1.0 U	1.0 U
2-Butanone (Mek)	300		10 U	10 U	10 U
2-Hexanone	100		5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (Mibk)	100		5.0 U	5.0 U	5.0 U
Acetone	6000		10 U	10 U	10 U
Benzene	1		1.0 U	1.0 U	1.0 U
Bromodichloromethane	1		1.0 U	1.0 U	1.0 U
Bromoform	4		4.0 U	4.0 U	4.0 U
Bromomethane	10		2.0 U	2.0 U	2.0 U
Carbon Disulfide	700		2.0 U	2.0 U	2.0 U
Carbon Tetrachloride	1		1.0 U	1.0 U	1.0 U
Chlorobenzene	50		1.0 U	1.0 U	1.0 U
Chloroethane	100		1.0 U	1.0 U	1.0 U
Chloroform	70		1.0 U	1.0 U	1.0 U
Chloromethane	100		1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	70		1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropylene	1		1.0 U	1.0 U	1.0 U
Dibromochloromethane	1		1.0 U	1.0 U	1.0 U
Ethylbenzene	700		1.0 U	1.0 U	1.0 U
Methylene Chloride	3		2.0 U	2.0 U	2.0 U
Styrene (Monomer)	100		5.0 U	5.0 U	5.0 U
Tetrachloroethene	1		1.0 U	1.0 U	1.0 U
Toluene	600		1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	100		1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropylene	1		1.0 U	1.0 U	1.0 U
Trichloroethene	1		1.0 U	1.0 U	1.0 U
Vinyl Chloride	1		1.0 U	1.0 U	1.0 U
Xylenes (Total)	1000		1.0 U	1.0 U	1.0 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed
[1] - Sampled from tap inline with pump.
[2] - Valved tubing sampling system.

Table 3-5
Ground Water Analytical Results
8260 Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit Sample Method	KKK DUP 10/24/2008 ug/l PDB	MW2 UPPER 10/24/2008 ug/l PDB	MW2 LOWER 10/24/2008 ug/l PDB
1,1,1-Trichloroethane	30		1.0 U	10 U	10 U
1,1,2,2-Tetrachloroethane	1		1.0 U	10 U	10 U
1,1,2-Trichloroethane	3		1.0 U	10 U	10 U
1,1-Dichloroethane	50		1.0 U	10 U	10 U
1,1-Dichloroethene	1		1.0 U	10 U	10 U
1,2-Dichloroethane	2		1.0 U	10 U	10 U
1,2-Dichloropropane	1		1.0 U	10 U	10 U
2-Butanone (Mek)	300		10 U	100 U	100 U
2-Hexanone	100		5.0 U	50 U	50 U
4-Methyl-2-Pentanone (Mibk)	100		5.0 U	50 U	50 U
Acetone	6000		10 U	100 U	100 U
Benzene	1		1.0 U	**1330 Y**	**1220 Y**
Bromodichloromethane	1		1.0 U	10 U	10 U
Bromoform	4		4.0 U	40 U	40 U
Bromomethane	10		2.0 U	20 U	20 U
Carbon Disulfide	700		2.0 U	20 U	20 U
Carbon Tetrachloride	1		1.0 U	10 U	10 U
Chlorobenzene	50		1.0 U	**81.6 Y**	**65.8 Y**
Chloroethane	100		1.0 U	10 U	10 U
Chloroform	70		1.0 U	10 U	10 U
Chloromethane	100		1.0 U	10 U	10 U
cis-1,2-Dichloroethene	70		1.0 U	10 U	10 U
cis-1,3-Dichloropropylene	1		1.0 U	10 U	10 U
Dibromochloromethane	1		1.0 U	10 U	10 U
Ethylbenzene	700		1.0 U	33.4	28.6
Methylene Chloride	3		2.0 U	20 U	20 U
Styrene (Monomer)	100		5.0 U	50 U	50 U
Tetrachloroethene	1		1.0 U	10 U	10 U
Toluene	600		1.0 U	277	213
trans-1,2-Dichloroethene	100		1.0 U	10 U	10 U
trans-1,3-Dichloropropylene	1		1.0 U	10 U	10 U
Trichloroethene	1		1.0 U	10 U	10 U
Vinyl Chloride	1		1.0 U	10 U	10 U
Xylenes (Total)	1000		1.0 U	290	246

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed
[1] - Sampled from tap inline with pump.
[2] - Valved tubing sampling system.

Table 3-5
Ground Water Analytical Results
8260 Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit Sample Method	O-R 10/23/2008 ug/l PDB	PW-2 12/12/2008 ug/l Tap [1]	PW-3 10/21/2008 ug/l Tap [1]
1,1,1-Trichloroethane	30		1.0 U	10 U	5.0 U
1,1,2,2-Tetrachloroethane	1		1.0 U	10 U	5.0 U
1,1,2-Trichloroethane	3		1.0 U	10 U	5.0 U
1,1-Dichloroethane	50		1.0 U	10 U	5.0 U
1,1-Dichloroethene	1		1.0 U	10 U	5.0 U
1,2-Dichloroethane	2		1.0 U	10 U	5.0 U
1,2-Dichloropropane	1		1.0 U	10 U	5.0 U
2-Butanone (Mek)	300		10 U	100 U	50 U
2-Hexanone	100		5.0 U	50 U	25 U
4-Methyl-2-Pentanone (Mibk)	100		5.0 U	50 U	25 U
Acetone	6000		10 U	100 U	50 U
Benzene	1		**1.2 Y**	**349 Y**	**845 Y**
Bromodichloromethane	1		1.0 U	10 U	5.0 U
Bromoform	4		4.0 U	40 U	20 U
Bromomethane	10		2.0 U	20 U	10 U
Carbon Disulfide	700		2.0 U	**1420 Y**	**1080 Y**
Carbon Tetrachloride	1		1.0 U	10 U	5.0 U
Chlorobenzene	50		4.4	**1300 Y**	**945 Y**
Chloroethane	100		1.0 U	10 U	5.0 U
Chloroform	70		1.0 U	10 U	5.0 U
Chloromethane	100		1.0 U	10 U	5.0 U
cis-1,2-Dichloroethene	70		1.0 U	10 U	2.5 J
cis-1,3-Dichloropropylene	1		1.0 U	10 U	5.0 U
Dibromochloromethane	1		1.0 U	10 U	5.0 U
Ethylbenzene	700		1.0 U	10 U	4.1 J
Methylene Chloride	3		2.0 U	20 U	10 U
Styrene (Monomer)	100		5.0 U	50 U	25 U
Tetrachloroethene	1		1.0 U	**4.4 J Y**	5.0 U
Toluene	600		1.0 U	10 U	3.6 J
trans-1,2-Dichloroethene	100		1.0 U	10 U	5.0 U
trans-1,3-Dichloropropylene	1		1.0 U	10 U	5.0 U
Trichloroethene	1		1.0 U	10 U	5.0 U
Vinyl Chloride	1		1.0 U	10 U	5.0 U
Xylenes (Total)	1000		1.0 U	10 U	6.7

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed
[1] - Sampled from tap inline with pump.
[2] - Valved tubing sampling system.

Table 3-5
Ground Water Analytical Results
8260 Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit Sample Method	SS P1 10/22/2008 ug/l Valve [2]	SS P2 10/22/2008 ug/l Valve [2]	SS P3 10/22/2008 ug/l Valve [2]
1,1,1-Trichloroethane	30		1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1		1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	3		1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	50		1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1		1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	2		1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1		1.0 U	1.0 U	1.0 U
2-Butanone (Mek)	300		10 U	10 U	10 U
2-Hexanone	100		5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (Mibk)	100		5.0 U	5.0 U	5.0 U
Acetone	6000		10 U	10 U	10 U
Benzene	1		1.0 U	1.0 U	1.0 U
Bromodichloromethane	1		1.0 U	1.0 U	1.0 U
Bromoform	4		4.0 U	4.0 U	4.0 U
Bromomethane	10		2.0 U	2.0 U	2.0 U
Carbon Disulfide	700		2.0 U	2.0 U	2.0 U
Carbon Tetrachloride	1		1.0 U	1.0 U	1.0 U
Chlorobenzene	50		1.0 U	1.0 U	1.0 U
Chloroethane	100		1.0 U	1.0 U	1.0 U
Chloroform	70		1.0 U	1.0 U	1.0 U
Chloromethane	100		1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	70		1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropylene	1		1.0 U	1.0 U	1.0 U
Dibromochloromethane	1		1.0 U	1.0 U	1.0 U
Ethylbenzene	700		1.0 U	1.0 U	1.0 U
Methylene Chloride	3		2.0 U	2.0 U	2.0 U
Styrene (Monomer)	100		5.0 U	5.0 U	5.0 U
Tetrachloroethene	1		1.0 U	1.0 U	1.0 U
Toluene	600		1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	100		1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropylene	1		1.0 U	1.0 U	1.0 U
Trichloroethene	1		1.0 U	1.0 U	1.0 U
Vinyl Chloride	1		1.0 U	1.0 U	1.0 U
Xylenes (Total)	1000		1.0 U	1.0 U	1.0 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed
[1] - Sampled from tap inline with pump.
[2] - Valved tubing sampling system.

Table 3-5
Ground Water Analytical Results
8260 Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit Sample Method	TFP-94-1R 10/23/2008 ug/l Valve [2]	TT P1 10/23/2008 ug/l Valve [2]	TT P2 10/23/2008 ug/l Valve [2]
1,1,1-Trichloroethane	30		10 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1		10 U	1.0 U	1.0 U
1,1,2-Trichloroethane	3		10 U	1.0 U	1.0 U
1,1-Dichloroethane	50		10 U	1.0 U	1.0 U
1,1-Dichloroethene	1		10 U	0.46 J	1.0 U
1,2-Dichloroethane	2		10 U	1.0 U	1.0 U
1,2-Dichloropropane	1		10 U	1.0 U	1.0 U
2-Butanone (Mek)	300		100 U	10 U	10 U
2-Hexanone	100		50 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (Mibk)	100		50 U	5.0 U	5.0 U
Acetone	6000		100 U	10 U	10 U
Benzene	1		**69.2 Y**	1.0 U	1.0 U
Bromodichloromethane	1		10 U	1.0 U	1.0 U
Bromoform	4		40 U	4.0 U	4.0 U
Bromomethane	10		20 U	2.0 U	2.0 U
Carbon Disulfide	700		20 U	2.0 U	2.0 U
Carbon Tetrachloride	1		10 U	1.0 U	1.0 U
Chlorobenzene	50		**4370 Y**	1.0 U	1.0 U
Chloroethane	100		10 U	1.0 U	1.0 U
Chloroform	70		10 U	1.0 U	1.0 U
Chloromethane	100		10 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	70		10 U	**186 Y**	15.3
cis-1,3-Dichloropropylene	1		10 U	1.0 U	1.0 U
Dibromochloromethane	1		10 U	1.0 U	1.0 U
Ethylbenzene	700		6.8 J	1.0 U	1.0 U
Methylene Chloride	3		20 U	2.0 U	2.0 U
Styrene (Monomer)	100		50 U	5.0 U	5.0 U
Tetrachloroethene	1		10 U	**42.1 Y**	**3.9 Y**
Toluene	600		6.6 J	1.0 U	1.0 U
trans-1,2-Dichloroethene	100		10 U	8.6	0.38 J
trans-1,3-Dichloropropylene	1		10 U	1.0 U	1.0 U
Trichloroethene	1		10 U	**24.4 Y**	**3.2 Y**
Vinyl Chloride	1		10 U	**3.0 Y**	1.0 U
Xylenes (Total)	1000		16.5	1.0 U	1.0 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed
[1] - Sampled from tap inline with pump.
[2] - Valved tubing sampling system.

Table 3-5
Ground Water Analytical Results
8260 Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit Sample Method	TT P3 10/23/2008 ug/l Valve [2]	WW P1 10/22/2008 ug/l Valve [2]	WW P2 10/22/2008 ug/l Valve [2]
1,1,1-Trichloroethane	30		1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1		1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	3		1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	50		1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1		1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	2		1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1		1.0 U	1.0 U	1.0 U
2-Butanone (Mek)	300		10 U	10 U	10 U
2-Hexanone	100		5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (Mibk)	100		5.0 U	5.0 U	5.0 U
Acetone	6000		10 U	10 U	10 U
Benzene	1		0.33 J	1.0 U	1.0 U
Bromodichloromethane	1		1.0 U	1.0 U	1.0 U
Bromoform	4		4.0 U	4.0 U	4.0 U
Bromomethane	10		2.0 U	2.0 U	2.0 U
Carbon Disulfide	700		2.0 U	2.0 U	2.0 U
Carbon Tetrachloride	1		1.0 U	1.0 U	1.0 U
Chlorobenzene	50		1.0 U	1.0 U	1.0 U
Chloroethane	100		1.0 U	1.0 U	1.0 U
Chloroform	70		1.0 U	1.0 U	1.0 U
Chloromethane	100		1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	70		1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropylene	1		1.0 U	1.0 U	1.0 U
Dibromochloromethane	1		1.0 U	1.0 U	1.0 U
Ethylbenzene	700		1.0 U	1.0 U	1.0 U
Methylene Chloride	3		2.0 U	2.0 U	2.0 U
Styrene (Monomer)	100		5.0 U	5.0 U	5.0 U
Tetrachloroethene	1		1.0 U	0.45 J	1.0 U
Toluene	600		1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	100		1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropylene	1		1.0 U	1.0 U	1.0 U
Trichloroethene	1		1.0 U	1.0 U	1.0 U
Vinyl Chloride	1		1.0 U	1.0 U	1.0 U
Xylenes (Total)	1000		1.0 U	1.0 U	1.0 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed
[1] - Sampled from tap inline with pump.
[2] - Valved tubing sampling system.

Table 3-5
Ground Water Analytical Results
8260 Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit Sample Method	WW P3 10/22/2008 ug/l Valve [2]	XX P1 10/22/2008 ug/l Valve [2]	XX P2 10/22/2008 ug/l Valve [2]
1,1,1-Trichloroethane	30		1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1		1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	3		1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	50		1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1		1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	2		1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1		1.0 U	1.0 U	1.0 U
2-Butanone (Mek)	300		10 U	10 U	10 U
2-Hexanone	100		5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (Mibk)	100		5.0 U	5.0 U	5.0 U
Acetone	6000		10 U	10 U	10 U
Benzene	1		1.0 U	1.0 U	1.0 U
Bromodichloromethane	1		1.0 U	1.0 U	1.0 U
Bromoform	4		4.0 U	4.0 U	4.0 U
Bromomethane	10		2.0 U	2.0 U	2.0 U
Carbon Disulfide	700		2.0 U	2.0 U	2.0 U
Carbon Tetrachloride	1		1.0 U	1.0 U	1.0 U
Chlorobenzene	50		1.0 U	1.0 U	1.0 U
Chloroethane	100		1.0 U	1.0 U	1.0 U
Chloroform	70		1.0 U	1.0 U	1.0 U
Chloromethane	100		1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	70		1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropylene	1		1.0 U	1.0 U	1.0 U
Dibromochloromethane	1		1.0 U	1.0 U	1.0 U
Ethylbenzene	700		1.0 U	1.0 U	1.0 U
Methylene Chloride	3		2.0 U	2.0 U	2.0 U
Styrene (Monomer)	100		5.0 U	5.0 U	5.0 U
Tetrachloroethene	1		1.0 U	1.0 U	1.0 U
Toluene	600		1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	100		1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropylene	1		1.0 U	1.0 U	1.0 U
Trichloroethene	1		1.0 U	1.0 U	1.0 U
Vinyl Chloride	1		1.0 U	1.0 U	1.0 U
Xylenes (Total)	1000		1.0 U	1.0 U	1.0 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed
[1] - Sampled from tap inline with pump.
[2] - Valved tubing sampling system.

Table 3-5
Ground Water Analytical Results
8260 Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit Sample Method	XX P3 10/23/2008 ug/l Valve [2]	YY P1 10/22/2008 ug/l Valve [2]	YY P2 10/22/2008 ug/l Valve [2]
1,1,1-Trichloroethane	30		1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1		1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	3		1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	50		1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1		1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	2		1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1		1.0 U	1.0 U	1.0 U
2-Butanone (Mek)	300		10 U	10 U	10 U
2-Hexanone	100		5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (Mibk)	100		5.0 U	5.0 U	5.0 U
Acetone	6000		10 U	10 U	10 U
Benzene	1		1.0 U	1.0 U	1.0 U
Bromodichloromethane	1		1.0 U	1.0 U	1.0 U
Bromoform	4		4.0 U	4.0 U	4.0 U
Bromomethane	10		2.0 U	2.0 U	2.0 U
Carbon Disulfide	700		2.0 U	2.0 U	2.0 U
Carbon Tetrachloride	1		1.0 U	1.0 U	1.0 U
Chlorobenzene	50		1.0 U	1.0 U	1.0 U
Chloroethane	100		1.0 U	1.0 U	1.0 U
Chloroform	70		1.0 U	1.0 U	1.0 U
Chloromethane	100		1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	70		1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropylene	1		1.0 U	1.0 U	1.0 U
Dibromochloromethane	1		1.0 U	1.0 U	1.0 U
Ethylbenzene	700		1.0 U	1.0 U	1.0 U
Methylene Chloride	3		2.0 U	2.0 U	2.0 U
Styrene (Monomer)	100		5.0 U	5.0 U	5.0 U
Tetrachloroethene	1		1.0 U	1.0 U	0.50 J
Toluene	600		1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	100		1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropylene	1		1.0 U	1.0 U	1.0 U
Trichloroethene	1		1.0 U	1.0 U	0.56 J
Vinyl Chloride	1		1.0 U	1.0 U	1.0 U
Xylenes (Total)	1000		1.0 U	1.0 U	1.0 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed
[1] - Sampled from tap inline with pump.
[2] - Valved tubing sampling system.

Table 3-5
Ground Water Analytical Results
8260 Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit Sample Method	YY P3 10/22/2008 ug/l Valve [2]	YY P3 DUP 10/22/2008 ug/l Valve [2]	ZZ P1 10/23/2008 ug/l Valve [2]
1,1,1-Trichloroethane	30		1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1		1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	3		1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	50		1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1		1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	2		1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1		1.0 U	1.0 U	1.0 U
2-Butanone (Mek)	300		10 U	10 U	10 U
2-Hexanone	100		5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (Mibk)	100		5.0 U	5.0 U	5.0 U
Acetone	6000		10 U	10 U	10 U
Benzene	1		1.0 U	1.0 U	1.0 U
Bromodichloromethane	1		1.0 U	1.0 U	1.0 U
Bromoform	4		4.0 U	4.0 U	4.0 U
Bromomethane	10		2.0 U	2.0 U	2.0 U
Carbon Disulfide	700		2.0 U	2.0 U	2.0 U
Carbon Tetrachloride	1		1.0 U	1.0 U	1.0 U
Chlorobenzene	50		1.0 U	1.0 U	1.0 U
Chloroethane	100		1.0 U	1.0 U	1.0 U
Chloroform	70		1.0 U	1.0 U	1.0 U
Chloromethane	100		1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	70		1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropylene	1		1.0 U	1.0 U	1.0 U
Dibromochloromethane	1		1.0 U	1.0 U	1.0 U
Ethylbenzene	700		1.0 U	1.0 U	1.0 U
Methylene Chloride	3		2.0 U	2.0 U	2.0 U
Styrene (Monomer)	100		5.0 U	5.0 U	5.0 U
Tetrachloroethene	1		**5.4 Y**	**6.9 Y**	1.0 U
Toluene	600		1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	100		1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropylene	1		1.0 U	1.0 U	1.0 U
Trichloroethene	1		1.0 U	1.0 U	1.0 U
Vinyl Chloride	1		1.0 U	1.0 U	1.0 U
Xylenes (Total)	1000		1.0 U	1.0 U	1.0 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed
[1] - Sampled from tap inline with pump.
[2] - Valved tubing sampling system.

Table 3-5
Ground Water Analytical Results
8260 Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit Sample Method	ZZ P2 10/23/2008 ug/l Valve [2]	ZZ P3 10/23/2008 ug/l Valve [2]	ZZ P4 10/23/2008 ug/l Valve [2]
1,1,1-Trichloroethane	30		1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1		1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	3		1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	50		1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1		1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	2		1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1		1.0 U	1.0 U	1.0 U
2-Butanone (Mek)	300		10 U	10 U	10 U
2-Hexanone	100		5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (Mibk)	100		5.0 U	5.0 U	5.0 U
Acetone	6000		10 U	10 U	10 U
Benzene	1		1.0 U	1.0 U	1.0 U
Bromodichloromethane	1		1.0 U	1.0 U	1.0 U
Bromoform	4		4.0 U	4.0 U	4.0 U
Bromomethane	10		2.0 U	2.0 U	2.0 U
Carbon Disulfide	700		2.0 U	2.0 U	2.0 U
Carbon Tetrachloride	1		1.0 U	1.0 U	1.0 U
Chlorobenzene	50		1.0 U	1.0 U	1.0 U
Chloroethane	100		1.0 U	1.0 U	1.0 U
Chloroform	70		1.0 U	1.0 U	1.0 U
Chloromethane	100		1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	70		1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropylene	1		1.0 U	1.0 U	1.0 U
Dibromochloromethane	1		1.0 U	1.0 U	1.0 U
Ethylbenzene	700		1.0 U	1.0 U	1.0 U
Methylene Chloride	3		2.0 U	2.0 U	2.0 U
Styrene (Monomer)	100		5.0 U	5.0 U	5.0 U
Tetrachloroethene	1		1.0 U	1.0 U	1.0 U
Toluene	600		1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	100		1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropylene	1		1.0 U	1.0 U	1.0 U
Trichloroethene	1		1.0 U	1.0 U	1.0 U
Vinyl Chloride	1		1.0 U	1.0 U	1.0 U
Xylenes (Total)	1000		1.0 U	1.0 U	1.0 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed
[1] - Sampled from tap inline with pump.
[2] - Valved tubing sampling system.

Table 3-6
Ground Water Analytical Results
8270 Semi Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	19R 10/23/2008 ug/l	28R 10/24/2008 ug/l	34R 10/23/2008 ug/l
1,2,4-Trichlorobenzene	9		2.0 U	1.0 J	0.72 J
1,2-Dichlorobenzene	600		1.0 J	14.0	17.5
1,3-Dichlorobenzene	600		2.0 U	2.0 U	19.2
1,4-Dichlorobenzene	75		2.0 U	1.3 J	6.7
2,4,5-Trichlorophenol	700		5.0 U	5.1 U	5.0 U
2,4,6-Trichlorophenol	20		5.0 U	5.1 U	5.0 U
2,4-Dichlorophenol	20		5.0 U	5.1 U	5.0 U
2,4-Dimethylphenol	100		**274 Y**	5.1 U	5.0 U
2,4-Dinitrophenol	40		20 U	20 U	20 U
2,4-Dinitrotoluene	10		2.0 U	2.0 U	2.0 U
2,6-Dinitrotoluene	10		2.0 U	2.0 U	2.0 U
2-Chloronaphthalene	600		7.2	5.1 U	0.58 J
2-Chlorophenol	40		5.0 U	5.1 U	5.0 U
2-Methylnaphthalene	100		93.9	2.0 U	2.0 U
2-Methylphenol	5		**65.9 Y**	2.0 U	2.0 U
2-Nitroaniline	100		5.0 U	5.1 U	5.0 U
2-Nitrophenol	100		5.0 U	5.1 U	5.0 U
3 & 4-Methylphenol	5		**316 Y**	2.0 U	2.0 U
3,3'-Dichlorobenzidine	30		5.0 U	5.1 U	5.0 U
3-Nitroaniline	100		5.0 U	5.1 U	5.0 U
4,6-Dinitro-2-Methylphenol	100		20 U	20 U	20 U
4-Bromophenyl Phenyl Ether	100		2.0 U	2.0 U	2.0 U
4-chloro-3-Methyl Phenol	100		5.0 U	5.1 U	5.0 U
4-Chloroaniline	30		5.0 U	5.1 U	4.0 J
4-Chlorophenyl Phenyl Ether	100		2.0 U	2.0 U	2.0 U
4-Nitroaniline	100		5.0 U	5.1 U	5.0 U
4-Nitrophenol	100		10 U	10 U	10 U
Acenaphthene	400		26.1	0.300	12.2
Acenaphthylene	100		0.367	0.20 U	0.20 U
Anthracene	2000		0.731	0.20 U	3.89
Benzo(a)Anthracene	0.1		0.10 U	0.10 U	0.10 U
Benzo(a)Pyrene	0.1		0.10 U	0.10 U	0.10 U
Benzo(b)Fluoranthene.	0.2		0.20 U	0.20 U	0.20 U
Benzo(g,h,i)Perylene	100		0.20 U	0.20 U	0.20 U
Benzo(k)Fluoranthene	0.5		0.20 U	0.20 U	0.20 U
bis(2-Chloroethoxy)Methane	100		2.0 U	2.0 U	2.0 U
bis(2-Chloroethyl)Ether	7		2.0 U	2.0 U	2.0 U
bis(2-Chloroisopropyl)Ether	300		2.0 U	2.0 U	2.0 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 3-6
Ground Water Analytical Results
8270 Semi Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	19R 10/23/2008 ug/l	28R 10/24/2008 ug/l	34R 10/23/2008 ug/l
bis(2-Ethylhexyl)Phthalate	3		**156 Y**	2.0 U	2.1
Butyl Benzyl Phthalate	100		2.0 U	2.0 U	2.0 U
Carbazole	100		53.2	2.0 U	2.0 U
Chrysene	5		0.20 U	0.20 U	0.20 U
Dibenzo(a,h)Anthracene	0.3		0.20 U	0.20 U	0.20 U
Dibenzofuran	100		19.2	5.1 U	8.0
Diethyl Phthalate	6000		2.0 U	2.0 U	0.57 J
Dimethyl Phthalate	100		**666 Y**	2.0 U	2.0 U
di-n-Butyl Phthalate	700		2.0 U	2.0 U	2.0 U
di-n-Octyl Phthalate	100		2.0 U	2.0 U	2.0 U
Fluoranthene	300		0.384	0.20 U	0.20 U
Fluorene	300		8.8	0.20 U	1.77
Hexachlorobenzene	0.02		0.020 U	0.020 U	0.020 U
Hexachlorobutadiene	1		2.0 U	2.0 U	2.0 U
Hexachlorocyclopentadiene	40		20 U	20 U	20 U
Hexachloroethane	7		5.0 U	5.1 U	5.0 U
Indeno(1,2,3-Cd)Pyrene	0.2		0.20 U	0.20 U	0.20 U
Isophorone	40		2.0 U	2.0 U	2.0 U
Naphthalene	300		**7420 Y**	0.20 U	1.91
Nitrobenzene	6		2.0 U	2.0 U	2.0 U
n-Nitroso-di-n-Propylamine	10		2.0 U	2.0 U	2.0 U
n-Nitrosodiphenylamine	10		**855 Y**	1.2 J	**61.3 Y**
Pentachlorophenol	0.3		0.30 U	0.31 U	0.30 U
Phenanthrene	100		2.93	0.20 U	0.20 U
Phenol	2000		59.5	2.0 U	2.0 U
Pyrene	200		0.20 U	0.20 U	0.20 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 3-6
Ground Water Analytical Results
8270 Semi Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	38R 10/24/2008 ug/l	42R 10/24/2008 ug/l	AAA 10/24/2008 ug/l
1,2,4-Trichlorobenzene	9		**24.6 Y**	4.6	2.0 U
1,2-Dichlorobenzene	600		16.7	56.4	2.0 U
1,3-Dichlorobenzene	600		1.3 J	18.9	2.0 U
1,4-Dichlorobenzene	75		12.9	12.9	2.0 U
2,4,5-Trichlorophenol	700		5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	20		5.0 U	5.0 U	5.0 U
2,4-Dichlorophenol	20		5.0 U	5.0 U	5.0 U
2,4-Dimethylphenol	100		2.0 J	5.0 U	5.0 U
2,4-Dinitrophenol	40		20 U	20 U	20 U
2,4-Dinitrotoluene	10		2.0 U	2.0 U	2.0 U
2,6-Dinitrotoluene	10		2.0 U	2.0 U	2.0 U
2-Chloronaphthalene	600		12.2	2.2 J	5.0 U
2-Chlorophenol	40		5.0 U	5.0 U	5.0 U
2-Methylnaphthalene	100		4.9	2.0 U	2.0 U
2-Methylphenol	5		2.0 U	2.0 U	2.0 U
2-Nitroaniline	100		5.0 U	5.0 U	5.0 U
2-Nitrophenol	100		5.0 U	5.0 U	5.0 U
3 & 4-Methylphenol	5		**10.4 Y**	2.0 U	2.0 U
3,3'-Dichlorobenzidine	30		5.0 U	5.0 U	5.0 U
3-Nitroaniline	100		5.0 U	5.0 U	5.0 U
4,6-Dinitro-2-Methylphenol	100		20 U	20 U	20 U
4-Bromophenyl Phenyl Ether	100		2.0 U	2.0 U	2.0 U
4-chloro-3-Methyl Phenol	100		5.0 U	5.0 U	5.0 U
4-Chloroaniline	30		5.6	3.6 J	5.0 U
4-Chlorophenyl Phenyl Ether	100		2.0 U	2.0 U	2.0 U
4-Nitroaniline	100		5.0 U	5.0 U	5.0 U
4-Nitrophenol	100		10 U	10 U	10 U
Acenaphthene	400		11.1	22.0	0.20 U
Acenaphthylene	100		0.20 U	0.20 U	0.20 U
Anthracene	2000		0.20 U	0.418	0.20 U
Benzo(a)Anthracene	0.1		0.10 U	0.10 U	0.10 U
Benzo(a)Pyrene	0.1		0.10 U	0.10 U	0.10 U
Benzo(b)Fluoranthene.	0.2		0.20 U	0.20 U	0.20 U
Benzo(g,h,i)Perylene	100		0.20 U	0.20 U	0.20 U
Benzo(k)Fluoranthene	0.5		0.20 U	0.20 U	0.20 U
bis(2-Chloroethoxy)Methane	100		2.0 U	2.0 U	2.0 U
bis(2-Chloroethyl)Ether	7		2.0 U	2.0 U	2.0 U
bis(2-Chloroisopropyl)Ether	300		2.0 U	2.0 U	2.0 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 3-6
Ground Water Analytical Results
8270 Semi Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	38R 10/24/2008 ug/l	42R 10/24/2008 ug/l	AAA 10/24/2008 ug/l
bis(2-Ethylhexyl)Phthalate	3		2.0 U	2.0 U	2.0 U
Butyl Benzyl Phthalate	100		2.0 U	2.0 U	2.0 U
Carbazole	100		1.0 J	2.0 U	2.0 U
Chrysene	5		0.20 U	0.20 U	0.20 U
Dibenzo(a,h)Anthracene	0.3		0.20 U	0.20 U	0.20 U
Dibenzofuran	100		8.0	10.7	5.0 U
Diethyl Phthalate	6000		2.0 U	2.0 U	2.0 U
Dimethyl Phthalate	100		2.0 U	2.0 U	2.0 U
di-n-Butyl Phthalate	700		2.0 U	2.0 U	2.0 U
di-n-Octyl Phthalate	100		2.0 U	2.0 U	2.0 U
Fluoranthene	300		0.20 U	0.20 U	0.20 U
Fluorene	300		2.93	2.07	0.20 U
Hexachlorobenzene	0.02		0.020 U	0.020 U	0.020 U
Hexachlorobutadiene	1		2.0 U	2.0 U	2.0 U
Hexachlorocyclopentadiene	40		20 U	20 U	20 U
Hexachloroethane	7		5.0 U	5.0 U	5.0 U
Indeno(1,2,3-Cd)Pyrene	0.2		0.20 U	0.20 U	0.20 U
Isophorone	40		2.0 U	2.0 U	2.0 U
Naphthalene	300		**325 Y**	5.4	0.20 U
Nitrobenzene	6		2.0 U	2.0 U	2.0 U
n-Nitroso-di-n-Propylamine	10		2.0 U	2.0 U	2.0 U
n-Nitrosodiphenylamine	10		**77.9 Y**	**40.6 Y**	3.8 J
Pentachlorophenol	0.3		**1.50 Y**	0.30 U	0.30 U
Phenanthrene	100		0.767	1.33	0.20 U
Phenol	2000		3.1	2.0 U	2.0 U
Pyrene	200		0.20 U	0.20 U	0.20 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 3-6
Ground Water Analytical Results
8270 Semi Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	CCC-R 10/21/2008 ug/l	EEE-R 10/21/2008 ug/l	III 10/24/2008 ug/l
1,2,4-Trichlorobenzene	9		2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	600		2.0 U	2.0 U	2.0 U
1,3-Dichlorobenzene	600		2.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	75		2.0 U	2.0 U	2.0 U
2,4,5-Trichlorophenol	700		5.0 U	R	5.1 U
2,4,6-Trichlorophenol	20		5.0 U	R	5.1 U
2,4-Dichlorophenol	20		5.0 U	R	5.1 U
2,4-Dimethylphenol	100		5.0 U	R	5.1 U
2,4-Dinitrophenol	40		20 U	R	20 U
2,4-Dinitrotoluene	10		2.0 U	2.0 U	2.0 U
2,6-Dinitrotoluene	10		2.0 U	2.0 U	2.0 U
2-Chloronaphthalene	600		5.0 U	5.0 U	5.1 U
2-Chlorophenol	40		5.0 U	R	5.1 U
2-Methylnaphthalene	100		2.0 U	2.0 U	2.0 U
2-Methylphenol	5		2.0 U	R	2.0 U
2-Nitroaniline	100		5.0 U	5.0 U	5.1 U
2-Nitrophenol	100		5.0 U	R	5.1 U
3 & 4-Methylphenol	5		2.0 U	R	2.0 U
3,3'-Dichlorobenzidine	30		5.0 U	5.0 U	5.1 U
3-Nitroaniline	100		5.0 U	5.0 U	5.1 U
4,6-Dinitro-2-Methylphenol	100		20 U	R	20 U
4-Bromophenyl Phenyl Ether	100		2.0 U	2.0 U	2.0 U
4-chloro-3-Methyl Phenol	100		5.0 U	R	5.1 U
4-Chloroaniline	30		5.0 U	5.0 U	5.1 U
4-Chlorophenyl Phenyl Ether	100		2.0 U	2.0 U	2.0 U
4-Nitroaniline	100		5.0 U	5.0 U	5.1 U
4-Nitrophenol	100		10 U	R	10 U
Acenaphthene	400		0.199 J	0.20 U	0.20 U
Acenaphthylene	100		0.20 U	0.20 U	0.20 U
Anthracene	2000		0.0349 J	0.20 U	0.20 U
Benzo(a)Anthracene	0.1		0.10 U	0.10 U	0.10 U
Benzo(a)Pyrene	0.1		0.10 U	0.10 U	0.10 U
Benzo(b)Fluoranthene.	0.2		0.20 U	0.20 U	0.20 U
Benzo(g,h,i)Perylene	100		0.20 U	0.20 U	0.20 U
Benzo(k)Fluoranthene	0.5		0.20 U	0.20 U	0.20 U
bis(2-Chloroethoxy)Methane	100		2.0 U	2.0 U	2.0 U
bis(2-Chloroethyl)Ether	7		2.0 U	2.0 U	2.0 U
bis(2-Chloroisopropyl)Ether	300		2.0 U	2.0 U	2.0 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 3-6
Ground Water Analytical Results
8270 Semi Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	CCC-R 10/21/2008 ug/l	EEE-R 10/21/2008 ug/l	III 10/24/2008 ug/l
bis(2-Ethylhexyl)Phthalate	3		2.0 U	2.0 U	2.0 U
Butyl Benzyl Phthalate	100		2.0 U	2.0 U	2.0 U
Carbazole	100		2.0 U	2.0 U	2.0 U
Chrysene	5		0.20 U	0.20 U	0.20 U
Dibenzo(a,h)Anthracene	0.3		0.20 U	0.20 U	0.20 U
Dibenzofuran	100		5.0 U	5.0 U	5.1 U
Diethyl Phthalate	6000		2.0 U	2.0 U	2.0 U
Dimethyl Phthalate	100		2.0 U	2.0 U	2.0 U
di-n-Butyl Phthalate	700		2.0 U	2.0 U	2.0 U
di-n-Octyl Phthalate	100		2.0 U	2.0 U	2.0 U
Fluoranthene	300		0.20 U	0.20 U	0.20 U
Fluorene	300		0.224	0.20 U	0.20 U
Hexachlorobenzene	0.02		0.020 U	0.020 U	0.020 U
Hexachlorobutadiene	1		2.0 U	2.0 U	2.0 U
Hexachlorocyclopentadiene	40		20 U	20 U	20 U
Hexachloroethane	7		5.0 U	5.0 U	5.1 U
Indeno(1,2,3-Cd)Pyrene	0.2		0.20 U	0.20 U	0.20 U
Isophorone	40		2.0 U	2.0 U	2.0 U
Naphthalene	300		0.20 U	0.20 U	0.20 U
Nitrobenzene	6		2.0 U	2.0 U	2.0 U
n-Nitroso-di-n-Propylamine	10		2.0 U	2.0 U	2.0 U
n-Nitrosodiphenylamine	10		5.0 U	5.0 U	5.1 U
Pentachlorophenol	0.3		R	0.30 U	0.31 U
Phenanthrene	100		0.20 U	0.20 U	0.20 U
Phenol	2000		2.0 U	R	2.0 U
Pyrene	200		0.20 U	0.20 U	0.20 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 3-6
Ground Water Analytical Results
8270 Semi Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	III 10/24/2008 ug/l	KKK 10/24/2008 ug/l	KKK DUP 10/24/2008 ug/l
1,2,4-Trichlorobenzene	9		2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	600		2.0 U	2.0 U	2.0 U
1,3-Dichlorobenzene	600		2.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	75		2.0 U	2.0 U	2.0 U
2,4,5-Trichlorophenol	700		5.1 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	20		5.1 U	5.0 U	5.0 U
2,4-Dichlorophenol	20		5.1 U	5.0 U	5.0 U
2,4-Dimethylphenol	100		5.1 U	5.0 U	5.0 U
2,4-Dinitrophenol	40		20 U	20 U	20 U
2,4-Dinitrotoluene	10		2.0 U	2.0 U	2.0 U
2,6-Dinitrotoluene	10		2.0 U	2.0 U	2.0 U
2-Chloronaphthalene	600		5.1 U	5.0 U	5.0 U
2-Chlorophenol	40		5.1 U	5.0 U	5.0 U
2-Methylnaphthalene	100		2.0 U	2.0 U	2.0 U
2-Methylphenol	5		2.0 U	2.0 U	2.0 U
2-Nitroaniline	100		5.1 U	5.0 U	5.0 U
2-Nitrophenol	100		5.1 U	5.0 U	5.0 U
3 & 4-Methylphenol	5		2.0 U	2.0 U	2.0 U
3,3'-Dichlorobenzidine	30		5.1 U	5.0 U	5.0 U
3-Nitroaniline	100		5.1 U	5.0 U	5.0 U
4,6-Dinitro-2-Methylphenol	100		20 U	20 U	20 U
4-Bromophenyl Phenyl Ether	100		2.0 U	2.0 U	2.0 U
4-chloro-3-Methyl Phenol	100		5.1 U	5.0 U	5.0 U
4-Chloroaniline	30		5.1 U	5.0 U	5.0 U
4-Chlorophenyl Phenyl Ether	100		2.0 U	2.0 U	2.0 U
4-Nitroaniline	100		5.1 U	5.0 U	5.0 U
4-Nitrophenol	100		10 U	10 U	10 U
Acenaphthene	400		0.20 U	0.20 U	0.20 U
Acenaphthylene	100		0.20 U	0.20 U	0.20 U
Anthracene	2000		0.20 U	0.20 U	0.20 U
Benzo(a)Anthracene	0.1		0.10 U	0.10 U	0.10 U
Benzo(a)Pyrene	0.1		0.10 U	0.10 U	0.10 U
Benzo(b)Fluoranthene.	0.2		0.20 U	0.20 U	0.20 U
Benzo(g,h,i)Perylene	100		0.20 U	0.20 U	0.20 U
Benzo(k)Fluoranthene	0.5		0.20 U	0.20 U	0.20 U
bis(2-Chloroethoxy)Methane	100		2.0 U	2.0 U	2.0 U
bis(2-Chloroethyl)Ether	7		2.0 U	2.0 U	2.0 U
bis(2-Chloroisopropyl)Ether	300		2.0 U	2.0 U	2.0 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 3-6
Ground Water Analytical Results
8270 Semi Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	III 10/24/2008 ug/l	KKK 10/24/2008 ug/l	KKK DUP 10/24/2008 ug/l
bis(2-Ethylhexyl)Phthalate	3		2.0 U	2.0 U	2.0 U
Butyl Benzyl Phthalate	100		2.0 U	2.0 U	2.0 U
Carbazole	100		2.0 U	2.0 U	2.0 U
Chrysene	5		0.20 U	0.20 U	0.20 U
Dibenzo(a,h)Anthracene	0.3		0.20 U	0.20 U	0.20 U
Dibenzofuran	100		5.1 U	5.0 U	5.0 U
Diethyl Phthalate	6000		2.0 U	2.0 U	2.0 U
Dimethyl Phthalate	100		2.0 U	2.0 U	2.0 U
di-n-Butyl Phthalate	700		2.0 U	2.0 U	2.0 U
di-n-Octyl Phthalate	100		2.0 U	2.0 U	2.0 U
Fluoranthene	300		0.20 U	0.20 U	0.20 U
Fluorene	300		0.20 U	0.20 U	0.20 U
Hexachlorobenzene	0.02		0.020 U	0.020 U	0.020 U
Hexachlorobutadiene	1		2.0 U	2.0 U	2.0 U
Hexachlorocyclopentadiene	40		20 U	20 U	20 U
Hexachloroethane	7		5.1 U	5.0 U	5.0 U
Indeno(1,2,3-Cd)Pyrene	0.2		0.20 U	0.20 U	0.20 U
Isophorone	40		2.0 U	2.0 U	2.0 U
Naphthalene	300		0.20 U	0.20 U	0.20 U
Nitrobenzene	6		2.0 U	2.0 U	2.0 U
n-Nitroso-di-n-Propylamine	10		2.0 U	2.0 U	2.0 U
n-Nitrosodiphenylamine	10		5.1 U	5.0 U	5.0 U
Pentachlorophenol	0.3		0.31 U	0.30 U	0.30 U
Phenanthrene	100		0.20 U	0.20 U	0.20 U
Phenol	2000		2.0 U	2.0 U	2.0 U
Pyrene	200		0.20 U	0.20 U	0.20 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 3-6
Ground Water Analytical Results
8270 Semi Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	MW-2 10/24/2008 ug/l	PW-2 12/12/2008 ug/l	PW-3 10/21/2008 ug/l
1,2,4-Trichlorobenzene	9		2.0 U	**307 Y**	**23.5 Y**
1,2-Dichlorobenzene	600		55.7	77.1	50.3
1,3-Dichlorobenzene	600		0.82 J	237	26.2
1,4-Dichlorobenzene	75		4.1	**123 Y**	18.9
2,4,5-Trichlorophenol	700		5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	20		5.0 U	5.0 U	5.0 U
2,4-Dichlorophenol	20		5.0 U	5.0 U	5.0 U
2,4-Dimethylphenol	100		79.8	5.0 U	5.0 U
2,4-Dinitrophenol	40		20 U	20 U	20 U
2,4-Dinitrotoluene	10		2.0 U	2.0 U	2.0 U
2,6-Dinitrotoluene	10		2.0 U	2.0 U	2.0 U
2-Chloronaphthalene	600		5.0 U	5.0 U	5.0 U
2-Chlorophenol	40		5.0 U	5.0 U	5.0 U
2-Methylnaphthalene	100		63.4	2.2	8.1
2-Methylphenol	5		**43.5 Y**	2.0 U	2.0 U
2-Nitroaniline	100		5.0 U	5.0 U	5.0 U
2-Nitrophenol	100		5.0 U	5.0 U	5.0 U
3 & 4-Methylphenol	5		2.0 U	2.0 U	2.0 U
3,3'-Dichlorobenzidine	30		5.0 U	5.0 U	5.0 U
3-Nitroaniline	100		5.0 U	5.0 U	5.0 U
4,6-Dinitro-2-Methylphenol	100		20 U	20 U	20 U
4-Bromophenyl Phenyl Ether	100		2.0 U	2.0 U	2.0 U
4-chloro-3-Methyl Phenol	100		5.0 U	5.0 U	5.0 U
4-Chloroaniline	30		**412 Y**	5.0 U	3.6 J
4-Chlorophenyl Phenyl Ether	100		2.0 U	2.0 U	2.0 U
4-Nitroaniline	100		5.0 U	5.0 U	5.0 U
4-Nitrophenol	100		10 U	10 U	10 U
Acenaphthene	400		19.2	13.9	2.89
Acenaphthylene	100		0.20 U	1.16	0.208
Anthracene	2000		2.09	0.543	0.20 U
Benzo(a)Anthracene	0.1		0.10 U	0.10 U	0.10 U
Benzo(a)Pyrene	0.1		0.10 U	0.10 U	0.10 U
Benzo(b)Fluoranthene.	0.2		0.20 U	0.20 U	0.20 U
Benzo(g,h,i)Perylene	100		0.20 U	0.20 U	0.20 U
Benzo(k)Fluoranthene	0.5		0.20 U	0.20 U	0.20 U
bis(2-Chloroethoxy)Methane	100		2.0 U	2.0 U	2.0 U
bis(2-Chloroethyl)Ether	7		2.0 U	2.0 U	2.0 U
bis(2-Chloroisopropyl)Ether	300		2.0 U	2.0 U	2.0 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 3-6
Ground Water Analytical Results
8270 Semi Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	MW-2 10/24/2008 ug/l	PW-2 12/12/2008 ug/l	PW-3 10/21/2008 ug/l
bis(2-Ethylhexyl)Phthalate	3		**93.0 Y**	2.0 U	2.0 U
Butyl Benzyl Phthalate	100		2.0 U	2.0 U	2.0 U
Carbazole	100		6.2	1.2 J	2.0 U
Chrysene	5		0.20 U	0.20 U	0.20 U
Dibenzo(a,h)Anthracene	0.3		0.20 U	0.20 U	0.20 U
Dibenzofuran	100		13.4	4.1 J	1.2 J
Diethyl Phthalate	6000		2.0 U	2.0 U	2.0 U
Dimethyl Phthalate	100		2.0 U	2.0 U	2.0 U
di-n-Butyl Phthalate	700		2.0 U	2.0 U	2.0 U
di-n-Octyl Phthalate	100		2.0 U	2.0 U	2.0 U
Fluoranthene	300		0.956	0.20 U	0.20 U
Fluorene	300		10	3.74	0.810
Hexachlorobenzene	0.02		0.020 U	0.020 U	0.020 U
Hexachlorobutadiene	1		1.0 U	1.0 U	2.0 U
Hexachlorocyclopentadiene	40		20 U	20 U	20 U
Hexachloroethane	7		5.0 U	5.0 U	5.0 U
Indeno(1,2,3-Cd)Pyrene	0.2		0.20 U	0.20 U	0.20 U
Isophorone	40		2.0 U	2.0 U	2.0 U
Naphthalene	300		**705 Y**	19.7	49.9
Nitrobenzene	6		2.0 U	2.0 U	**12.7 Y**
n-Nitroso-di-n-Propylamine	10		2.0 U	2.0 U	2.0 U
n-Nitrosodiphenylamine	10		**296 Y**	5.8	6.0
Pentachlorophenol	0.3		**11.3 Y**	0.30 U	0.30 U
Phenanthrene	100		6.9	0.397	0.216
Phenol	2000		2.0 U	2.5	2.0 U
Pyrene	200		0.530	0.20 U	0.20 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 3-6
Ground Water Analytical Results
8270 Semi Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	TFP-94-1R 10/23/2008 ug/l
1,2,4-Trichlorobenzene	9		0.93 J
1,2-Dichlorobenzene	600		**769 Y**
1,3-Dichlorobenzene	600		35.5
1,4-Dichlorobenzene	75		**175 Y**
2,4,5-Trichlorophenol	700		5.0 U
2,4,6-Trichlorophenol	20		5.0 U
2,4-Dichlorophenol	20		5.0 U
2,4-Dimethylphenol	100		13.1
2,4-Dinitrophenol	40		20 U
2,4-Dinitrotoluene	10		2.0 U
2,6-Dinitrotoluene	10		2.0 U
2-Chloronaphthalene	600		0.93 J
2-Chlorophenol	40		1.8 J
2-Methylnaphthalene	100		2.0 U
2-Methylphenol	5		2.0 U
2-Nitroaniline	100		5.0 U
2-Nitrophenol	100		5.0 U
3 & 4-Methylphenol	5		2.0 U
3,3'-Dichlorobenzidine	30		5.0 U
3-Nitroaniline	100		5.0 U
4,6-Dinitro-2-Methylphenol	100		20 U
4-Bromophenyl Phenyl Ether	100		2.0 U
4-chloro-3-Methyl Phenol	100		5.0 U
4-Chloroaniline	30		19.8
4-Chlorophenyl Phenyl Ether	100		2.0 U
4-Nitroaniline	100		5.0 U
4-Nitrophenol	100		10 U
Acenaphthene	400		4.02
Acenaphthylene	100		1.75
Anthracene	2000		0.222
Benzo(a)Anthracene	0.1		0.10 U
Benzo(a)Pyrene	0.1		0.10 U
Benzo(b)Fluoranthene.	0.2		0.20 U
Benzo(g,h,i)Perylene	100		0.20 U
Benzo(k)Fluoranthene	0.5		0.20 U
bis(2-Chloroethoxy)Methane	100		2.0 U
bis(2-Chloroethyl)Ether	7		2.0 U
bis(2-Chloroisopropyl)Ether	300		2.0 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 3-6
Ground Water Analytical Results
8270 Semi Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	TFP-94-1R 10/23/2008 ug/l
bis(2-Ethylhexyl)Phthalate	3		2.0 U
Butyl Benzyl Phthalate	100		2.0 U
Carbazole	100		1.2 J
Chrysene	5		0.20 U
Dibenzo(a,h)Anthracene	0.3		0.20 U
Dibenzofuran	100		2.6 J
Diethyl Phthalate	6000		2.0 U
Dimethyl Phthalate	100		2.0 U
di-n-Butyl Phthalate	700		2.0 U
di-n-Octyl Phthalate	100		2.0 U
Fluoranthene	300		0.20 U
Fluorene	300		1.00
Hexachlorobenzene	0.02		0.020 U
Hexachlorobutadiene	1		2.0 U
Hexachlorocyclopentadiene	40		20 U
Hexachloroethane	7		5.0 U
Indeno(1,2,3-Cd)Pyrene	0.2		0.20 U
Isophorone	40		2.0 U
Naphthalene	300		13.1
Nitrobenzene	6		2.0 U
n-Nitroso-di-n-Propylamine	10		2.0 U
n-Nitrosodiphenylamine	10		**43.6 Y**
Pentachlorophenol	0.3		0.30 U
Phenanthrene	100		0.656
Phenol	2000		2.0 U
Pyrene	200		0.20 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 3-7
Ground Water Analytical Results
Metals Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	16-MW-2 10/24/2008 ug/l	28R 10/24/2008 ug/l	34R 10/23/2008 ug/l
Aluminum	200		200 U	--	--
Antimony	6		6.0 U	--	--
Arsenic	3		**23.9 Y**	**43.2 Y**	**20.0 Y**
Barium	6000		200 U	--	--
Beryllium	1		1.0 U	--	--
Cadmium	4		3.0 U	3.0 U	--
Calcium	NA		21200	--	--
Chromium	70		10 U	--	--
Cobalt	NA		50 U	--	--
Copper	1300		10 U	--	--
Iron	300		**38000 Y**	--	--
Lead	5		3.0 U	--	--
Magnesium	NA		29500	--	--
Manganese	50		**8070 Y**	--	--
Mercury	2		0.20 U	--	--
Nickel	100		10 U	--	--
Potassium	NA		10000 U	--	--
Selenium	40		10 U	--	--
Silver	40		10 U	--	--
Sodium	50000		25500	--	--
Thallium	2		2.0 U	--	--
Vanadium	NA		50 U	--	--
Zinc	2000		20 U	--	--

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 3-7
Ground Water Analytical Results
Metals Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	38R 10/24/2008 ug/l	42R 10/24/2008 ug/l	AAA 10/24/2008 ug/l
Aluminum	200		--	--	200 U
Antimony	6		--	--	6.0 U
Arsenic	3		**6.9 Y**	**23.1 Y**	**25.0 Y**
Barium	6000		--	--	200 U
Beryllium	1		--	--	1.0 U
Cadmium	4		3.0 U	--	3.0 U
Calcium	NA		--	--	20500
Chromium	70		10 U	--	10 U
Cobalt	NA		--	--	50 U
Copper	1300		--	--	10 U
Iron	300		**--**	--	**53000 Y**
Lead	5		--	--	3.0 U
Magnesium	NA		--	--	20600
Manganese	50		--	--	**12200 Y**
Mercury	2		--	--	0.20 U
Nickel	100		--	--	10 U
Potassium	NA		--	--	10000 U
Selenium	40		--	--	13.2
Silver	40		--	--	10 U
Sodium	50000		--	--	30300
Thallium	2		--	--	2.0 U
Vanadium	NA		--	--	50 U
Zinc	2000		--	--	20 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
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Table 3-7
Ground Water Analytical Results
Metals Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	CCC-R 10/21/2008 ug/l	EEE-R 10/21/2008 ug/l	III 10/24/2008 ug/l
Aluminum	200		200 U	200 U	**464 Y**
Antimony	6		6.0 U	6.0 U	6.0 U
Arsenic	3		**8.8 Y**	**10.7 Y**	**19.2 Y**
Barium	6000		200 U	200 U	200 U
Beryllium	1		1.0 U	1.0 U	1.0 U
Cadmium	4		3.0 U	3.0 U	3.0 U
Calcium	NA		67700	40200	20800
Chromium	70		10 U	10 U	10 U
Cobalt	NA		50 U	50 U	50 U
Copper	1300		10 U	10 U	10 U
Iron	300		**1000 Y**	100 U	**24300 Y**
Lead	5		3.0 U	3.0 U	3.0 U
Magnesium	NA		55300	64400	8370
Manganese	50		**5730 Y**	**2110 Y**	**5860 Y**
Mercury	2		0.20 U	0.20 U	0.20 U
Nickel	100		10 U	10 U	10 U
Potassium	NA		10000 U	10000 U	10000 U
Selenium	40		10 U	10 U	10 U
Silver	40		10 U	10 U	10 U
Sodium	50000		35900	26200	**54400 Y**
Thallium	2		2.0 U	2.0 U	2.0 U
Vanadium	NA		50 U	50 U	50 U
Zinc	2000		20 U	20 U	20 U

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Table 3-7
Ground Water Analytical Results
Metals Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	KKK 10/24/2008 ug/l	KKK DUP 10/24/2008 ug/l	MW-2 10/24/2008 ug/l
Aluminum	200		200 U	200 U	--
Antimony	6		6.0 U	6.0 U	--
Arsenic	3		3.0 U	3.0	**24.4 Y**
Barium	6000		200 U	200 U	--
Beryllium	1		1.0 U	1.0 U	--
Cadmium	4		3.0 U	3.0 U	3.0 U
Calcium	NA		17100	17400	--
Chromium	70		10 U	10 U	--
Cobalt	NA		50 U	50 U	--
Copper	1300		10 U	10 U	--
Iron	300		**911 Y**	**947 Y**	--
Lead	5		3.0 U	3.0 U	--
Magnesium	NA		10400	10600	--
Manganese	50		**3710 Y**	**3700 Y**	--
Mercury	2		0.20 U	0.20 U	--
Nickel	100		10 U	10 U	--
Potassium	NA		10000 U	10000 U	--
Selenium	40		10 U	10 U	--
Silver	40		10 U	10 U	--
Sodium	50000		25700	26200	--
Thallium	2		2.0 U	2.0 U	--
Vanadium	NA		50 U	50 U	--
Zinc	2000		20 U	20 U	--

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
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Table 3-7
Ground Water Analytical Results
Metals Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	PW-2 12/12/2008 ug/l	PW-3 10/21/2008 ug/l	SS P1 10/22/2008 ug/l
Aluminum	200		--	--	--
Antimony	6		--	--	--
Arsenic	3		3.0 U	**3.4 Y**	**7.0 Y**
Barium	6000		--	--	--
Beryllium	1		--	--	--
Cadmium	4		--	--	--
Calcium	NA		--	--	--
Chromium	70		--	--	--
Cobalt	NA		--	--	--
Copper	1300		--	--	--
Iron	300		--	--	--
Lead	5		--	--	--
Magnesium	NA		--	--	--
Manganese	50		--	--	--
Mercury	2		--	--	--
Nickel	100		--	--	--
Potassium	NA		--	--	--
Selenium	40		--	--	--
Silver	40		--	--	--
Sodium	50000		--	--	--
Thallium	2		--	--	--
Vanadium	NA		--	--	--
Zinc	2000		--	--	--

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 3-7
Ground Water Analytical Results
Metals Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	SS P2 10/22/2008 ug/l	SS P3 10/22/2008 ug/l	TFP-94-1R 10/23/2008 ug/l
Aluminum	200		--	--	--
Antimony	6		--	--	--
Arsenic	3		**8.1 Y**	**5.1 Y**	**81.4 Y**
Barium	6000		--	--	--
Beryllium	1		--	--	--
Cadmium	4		--	--	--
Calcium	NA		--	--	--
Chromium	70		--	--	--
Cobalt	NA		--	--	--
Copper	1300		--	--	--
Iron	300		--	--	--
Lead	5		--	--	--
Magnesium	NA		--	--	--
Manganese	50		--	--	--
Mercury	2		--	--	--
Nickel	100		--	--	--
Potassium	NA		--	--	--
Selenium	40		--	--	--
Silver	40		--	--	--
Sodium	50000		--	--	--
Thallium	2		--	--	--
Vanadium	NA		--	--	--
Zinc	2000		--	--	--

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 3-7
Ground Water Analytical Results
Metals Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	TT P1 10/23/2008 ug/l	TT P2 10/23/2008 ug/l	TT P3 10/23/2008 ug/l
Aluminum	200		--	--	--
Antimony	6		--	--	--
Arsenic	3		**5.6 Y**	3.0 U	3.0 U
Barium	6000		--	--	--
Beryllium	1		--	--	--
Cadmium	4		--	--	--
Calcium	NA		--	--	--
Chromium	70		--	--	--
Cobalt	NA		--	--	--
Copper	1300		--	--	--
Iron	300		--	--	--
Lead	5		--	--	--
Magnesium	NA		--	--	--
Manganese	50		--	--	--
Mercury	2		--	--	--
Nickel	100		--	--	--
Potassium	NA		--	--	--
Selenium	40		--	--	--
Silver	40		--	--	--
Sodium	50000		--	--	--
Thallium	2		--	--	--
Vanadium	NA		--	--	--
Zinc	2000		--	--	--

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 3-7
Ground Water Analytical Results
Metals Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	YY P1 10/22/2008 ug/l	YY P2 10/22/2008 ug/l	YY P3 10/22/2008 ug/l
Aluminum	200		--	--	--
Antimony	6		--	--	--
Arsenic	3		**3.3 Y**	**4.3 Y**	3.0 U
Barium	6000		--	--	--
Beryllium	1		--	--	--
Cadmium	4		--	--	--
Calcium	NA		--	--	--
Chromium	70		--	--	--
Cobalt	NA		--	--	--
Copper	1300		--	--	--
Iron	300		--	--	--
Lead	5		--	--	--
Magnesium	NA		--	--	--
Manganese	50		--	--	--
Mercury	2		--	--	--
Nickel	100		--	--	--
Potassium	NA		--	--	--
Selenium	40		--	--	--
Silver	40		--	--	--
Sodium	50000		--	--	--
Thallium	2		--	--	--
Vanadium	NA		--	--	--
Zinc	2000		--	--	--

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 3-7
Ground Water Analytical Results
Metals Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	YY P3 DUP 10/22/2008 ug/l
Aluminum	200		--
Antimony	6		--
Arsenic	3		3.0 U
Barium	6000		--
Beryllium	1		--
Cadmium	4		--
Calcium	NA		--
Chromium	70		--
Cobalt	NA		--
Copper	1300		--
Iron	300		--
Lead	5		--
Magnesium	NA		--
Manganese	50		--
Mercury	2		--
Nickel	100		--
Potassium	NA		--
Selenium	40		--
Silver	40		--
Sodium	50000		--
Thallium	2		--
Vanadium	NA		--
Zinc	2000		--

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 3-8
Ground Water Analytical Results
Other Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	38R 10/24/2008 ug/l	AAA 10/24/2008 ug/l	CCC-R 10/21/2008 ug/l
Chloride	250000		27100	77300	--
Cyanide	100		--	10 U	10 U
Phenols	2000		--	200 U	200 U
Gross Alpha	15	pci/l	--	--	6.9
Gross Beta	50	pci/l	--	--	2.89
Radium 226 / 228 Combined	5	pci/l	--	--	1.05

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 3-8
Ground Water Analytical Results
Other Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	CCC-R 12/5/2008 ug/l	EEE-R 10/21/2008 ug/l	EEE-R 12/5/2008 ug/l
Chloride	250000	--	23000	--	44100
Cyanide	100	--	--	10 U	--
Phenols	2000	--	--	200 U	--
Gross Alpha	15	pci/l	--	2.32	--
Gross Beta	50	pci/l	--	2.79	--
Radium 226 / 228 Combined	5	pci/l	--	2.03	--

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 3-8
Ground Water Analytical Results
Other Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	III 10/24/2008 ug/l	KKK 10/24/2008 ug/l	KKK DUP 10/24/2008 ug/l
Chloride	250000	--	73700	38500	38400
Cyanide	100	--	--	--	--
Phenols	2000	--	--	--	--
Gross Alpha	15	pci/l	--	1.36	4.41
Gross Beta	50	pci/l	--	2.22	1.58
Radium 226 / 228 Combined	5	pci/l	--	1.23	1.09

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 3-8
Ground Water Analytical Results
Other Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	MW-2 10/24/2008 ug/l
Chloride	250000	--	206000
Cyanide	100	--	--
Phenols	2000	--	--
Gross Alpha	15	pci/l	--
Gross Beta	50	pci/l	--
Radium 226 / 228 Combined	5	pci/l	--

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Wyeth Holdings Corporation
Bound Brook, New Jersey Site
Fourth Quarter 2008 Impound 8 Facility Ground Water Program

Table 4-1. *Impound 8: Overburden and Shallow Bedrock Ground Water Elevations - October 20, 2008*

Well Number	Permit Number	Casing Elevation (ft msl)	Well Depth (ft BTOC)	Bottom of Well Elevation (ft msl)	Screened Interval Elevation (ft msl) Top	Screened Interval Elevation (ft msl) Bottom	Depth to Water (ft BTOC)	Third Quarter 2008 Ground Water Elevation (ft msl)	Fourth Quarter 2008 Ground Water Elevation (ft msl)	Ground Water elevation Change (ft)	Ground Water Detection Monitoring Program Hydraulic Designations	Designations Based on Observed 4th Quarter 2008 Ground WaterFlow Conditions
Overburden Wells												
RCRA S-1	25-35748-4	68.38	17.3	51.1	61.1	51.1	15.93	54.99	52.45	-2.54	Upgradient	Upgradient
RCRA S-2	25-35749-2	61.21	19.4	41.8	51.8	41.8	Dry	Dry	Dry	Dry	Downgradient	Downgradient
RCRA S-3	25-35750-6	61.07	22.5	38.6	48.6	38.6	18.29	42.84	42.78	-0.06	Upgradient	Upgradient
RCRA S-4	2535753-1	57.68	21.0	36.7	46.7	36.7	20.83	37.48	36.85	-0.63	Upgradient	Upgradient
RCRA S-5	25-35752-2	57.97	15.2	42.8	47.8	42.8	Dry	Dry	Dry	Dry	Downgradient	Downgradient
RCRA S-6	25-35751-4	52.44	9.8	42.6	45.6	42.6	Dry	Dry	Dry	Dry	Downgradient	Downgradient
RCRA S-7	25-35759-0	52.41	24.0	28.4	38.4	28.4	18.55	34.69	33.86	-0.83	Downgradient	Downgradient
RCRA S-8	25-35757-3	68.09	27.9	40.2	50.2	40.2	26.18	41.93	41.91	-0.02	Downgradient	Downgradient
RCRA S-9	25-35756-5	63.81	23.3	40.5	51.5	40.5	14.69	49.06	49.12	0.06	Upgradient	Upgradient
RCRA S-10	25-35755-7	69.25	12.5	56.8	61.8	56.8	12.18	57.10	57.07	-0.03	Downgradient	Downgradient
RCRA S-11	25-35758-1	69.29	11.6	57.7	62.7	57.7	6.72	61.69	62.57	0.88	Upgradient	Upgradient
RCRA S-12	25-35754-9	69.68	11.6	58.1	63.1	58.1	Dry	Dry	Dry	Dry	Downgradient	Downgradient
RCRA S-13R	25-43417	67.11	19.3	47.8	NA	47.8	Dry	Dry	Dry	Dry	Downgradient	Downgradient
RCRA S-14	25-43418	66.72	30.2	36.5	NA	36.5	28.84	38.48	37.88	-0.60	Downgradient	Downgradient
RCRA S-15	25-43419	54.33	25.2	29.1	NA	29.1	21.22	33.14	33.11	-0.03	Downgradient	Downgradient
Shallow Bedrock Wells												
RCRA D-1*	25-35765-4	64.79	71.7	-6.9	44.0	-6.9	40.49	24.72	24.30	-0.42	Downgradient/North	Upgradient/North
RCRA D-2*	25-35764-6	62.96	81.4	-18.4	42.2	-18.4	38.84	24.76	24.12	-0.64	Downgradient/North	Upgradient/North
RCRA D-3*	25-35763-8	61.67	75.7	-14.0	40.9	-14.0	37.68	24.86	23.99	-0.87	Downgradient/North	Upgradient/North
RCRA D-4*	25-35762-0	61.37	83.8	-22.4	35.6	-22.4	37.15	24.99	24.22	-0.77	Downgradient/North	Upgradient/North
RCRA D-5*	25-35752-2	59.09	59.3	-0.2	37.1	-0.2	35.93	22.96	23.16	0.20	Upgradient	Downgradient
RCRA D-6*	25-35751-4	53.36	58.7	-5.3	32.9	-5.3	31.69	20.71	21.67	0.96	Upgradient	Downgradient
RCRA D-7*	25-35759-0	52.16	66.2	-14.0	14.7	-14.0	29.55	21.60	22.61	1.01	Downgradient/South	Upgradient
RCRA D-8*	25-35760-3	52.83	62.9	-10.1	10.8	-10.1	32.44	19.58	20.39	0.81	Downgradient/South	Downgradient
RCRA D-9*	25-35747-6	56.51	87.7	-31.2	27.5	-31.2	24.90	30.17	31.61	1.44	Downgradient/South	Upgradient
RCRA D-10*	25-357-55-7	59.71	72.4	-12.7	44.7	-12.7	37.50	21.36	22.21	0.85	Downgradient/South	Upgradient
RCRA D-11*	25-35758-1	66.59	89.8	-23.2	28.6	-23.2	45.17	20.82	21.42	0.60	Downgradient/South	Downgradient
RCRA D-12*	25-35745-0	69.50	77.1	-7.6	7.4	-7.6	46.21	22.60	23.29	0.69	Downgradient Lagoon 9a Upgradient Imp 8	Downgradient Lagoon 9a Downgradient Imp 8
RCRA D-13*	25-35746-8	70.68	85.9	-15.2	42.9	-15.2	47.01	22.94	23.67	0.73	Downgradient Lagoon 9a Upgradient Imp 8	Downgradient Lagoon 9a Downgradient Imp 8
RCRA D-14*	25-35742-5	69.68	80.5	-10.8	44.6	-10.8	42.86	26.04	26.82	0.78	Upgradient/Lagoon 9a & Imp 8	Upgradient/Lagoon 9a & Imp 8
RCRA D-15*	25-35743-3	66.19	83.9	-17.7	5.8	-17.7	42.36	23.23	23.83	0.60	Upgradient/Lagoon 9a & Imp 8	Upgradient/Lagoon 9a & Imp 8
8 D-8*	25-29745-7	51.74	72.4	-20.7	39.2	-20.7	30.21	21.03	21.53	0.50	Downgradient	Downgradient

Notes: ft BTOC - feet below top of casing
ft msl - feet mean sea level
* denotes open bedrock well

Table 4-2
Ground Water Analytical Results
8260 Volatile Organic Compound Data
2008 Fourth Quarter Impound 8 Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D1 10/22/2008 ug/l	RCRA-D2 10/21/2008 ug/l	RCRA-D3 10/21/2008 ug/l
1,1,1-Trichloroethane	30		1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1		1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	3		1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	50		1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1		1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	2		1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1		1.0 U	1.0 U	1.0 U
2-Butanone (Mek)	300		10 U	10 U	10 U
2-Hexanone	100		5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (Mibk)	100		5.0 U	5.0 U	5.0 U
Acetone	6000		10 U	10 U	10 U
Benzene	1		1.0 U	1.0 U	1.0 U
Bromodichloromethane	1		1.0 U	1.0 U	1.0 U
Bromoform	4		4.0 U	4.0 U	4.0 U
Bromomethane	10		2.0 U	2.0 U	R
Carbon Disulfide	700		2.0 U	2.0 U	2.0 U
Carbon Tetrachloride	1		1.0 U	1.0 U	1.0 U
Chlorobenzene	50		1.0 U	1.0 U	1.0 U
Chloroethane	100		1.0 U	1.0 U	R
Chloroform	70		1.0 U	1.0 U	1.0 U
Chloromethane	100		1.0 U	1.0 U	R
cis-1,2-Dichloroethene	70		1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropylene	1		1.0 U	1.0 U	1.0 U
Dibromochloromethane	1		1.0 U	1.0 U	1.0 U
Ethylbenzene	700		1.0 U	1.0 U	1.0 U
Methylene Chloride	3		2.0 U	2.0 U	2.0 U
Styrene (Monomer)	100		5.0 U	5.0 U	5.0 U
Tetrachloroethene	1		1.0 U	1.0 U	1.0 U
Toluene	600		1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	100		1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropylene	1		1.0 U	1.0 U	1.0 U
Trichloroethene	1		1.0 U	1.0 U	1.0 U
Vinyl Chloride	1		1.0 U	1.0 U	R
Xylenes (Total)	1000		1.0 U	1.0 U	1.0 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-2
Ground Water Analytical Results
8260 Volatile Organic Compound Data
2008 Fourth Quarter Impound 8 Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D4 10/21/2008 ug/l	RCRA-D5 10/21/2008 ug/l	RCRA-D6 10/21/2008 ug/l
1,1,1-Trichloroethane	30		1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1		1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	3		1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	50		1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1		1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	2		1.0 U	1.0 U	0.43 J
1,2-Dichloropropane	1		1.0 U	1.0 U	1.0 U
2-Butanone (Mek)	300		10 U	10 U	10 U
2-Hexanone	100		5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (Mibk)	100		5.0 U	5.0 U	5.0 U
Acetone	6000		10 U	10 U	10 U
Benzene	1		1.0 U	1.0 U	1.0 U
Bromodichloromethane	1		1.0 U	1.0 U	1.0 U
Bromoform	4		4.0 U	4.0 U	4.0 U
Bromomethane	10		2.0 U	2.0 U	2.0 U
Carbon Disulfide	700		2.0 U	2.0 U	2.0 U
Carbon Tetrachloride	1		1.0 U	1.0 U	1.0 U
Chlorobenzene	50		1.0 U	1.0 U	1.0 U
Chloroethane	100		1.0 U	1.0 U	1.0 U
Chloroform	70		1.0 U	1.0 U	1.0 U
Chloromethane	100		1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	70		1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropylene	1		1.0 U	1.0 U	1.0 U
Dibromochloromethane	1		1.0 U	1.0 U	1.0 U
Ethylbenzene	700		1.0 U	1.0 U	1.0 U
Methylene Chloride	3		2.0 U	2.0 U	2.0 U
Styrene (Monomer)	100		5.0 U	5.0 U	5.0 U
Tetrachloroethene	1		1.0 U	1.0 U	1.0 U
Toluene	600		1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	100		1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropylene	1		1.0 U	1.0 U	1.0 U
Trichloroethene	1		1.0 U	1.0 U	1.0 U
Vinyl Chloride	1		1.0 U	1.0 U	1.0 U
Xylenes (Total)	1000		1.0 U	1.0 U	1.0 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-2
Ground Water Analytical Results
8260 Volatile Organic Compound Data
2008 Fourth Quarter Impound 8 Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D7 10/21/2008 ug/l	RCRA-D8 10/22/2008 ug/l	RCRA-D9 10/22/2008 ug/l
1,1,1-Trichloroethane	30		1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1		1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	3		1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	50		1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1		1.0 U	**1.1 Y**	1.0 U
1,2-Dichloroethane	2		1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1		1.0 U	1.0 U	1.0 U
2-Butanone (Mek)	300		10 U	10 U	10 U
2-Hexanone	100		5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (Mibk)	100		5.0 U	5.0 U	5.0 U
Acetone	6000		10 U	10 U	10 U
Benzene	1		1.0 U	1.0 U	1.0 U
Bromodichloromethane	1		1.0 U	1.0 U	1.0 U
Bromoform	4		4.0 U	4.0 U	4.0 U
Bromomethane	10		2.0 U	2.0 U	2.0 U
Carbon Disulfide	700		2.0 U	2.0 U	2.0 U
Carbon Tetrachloride	1		1.0 U	1.0 U	1.0 U
Chlorobenzene	50		1.0 U	1.0 U	1.0 U
Chloroethane	100		1.0 U	1.0 U	1.0 U
Chloroform	70		1.0 U	0.31 J	1.0 U
Chloromethane	100		1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	70		1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropylene	1		1.0 U	1.0 U	1.0 U
Dibromochloromethane	1		1.0 U	1.0 U	1.0 U
Ethylbenzene	700		1.0 U	1.0 U	1.0 U
Methylene Chloride	3		2.0 U	2.0 U	2.0 U
Styrene (Monomer)	100		5.0 U	5.0 U	5.0 U
Tetrachloroethene	1		0.32 J	0.38 J	1.0 U
Toluene	600		1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	100		1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropylene	1		1.0 U	1.0 U	1.0 U
Trichloroethene	1		1.0 U	1.0 U	1.0 U
Vinyl Chloride	1		1.0 U	1.0 U	1.0 U
Xylenes (Total)	1000		1.0 U	1.0 U	1.0 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-2
Ground Water Analytical Results
8260 Volatile Organic Compound Data
2008 Fourth Quarter Impound 8 Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D10 10/22/2008 ug/l	RCRA-D10 DUP 10/22/2008 ug/l	RCRA-D11 10/23/2008 ug/l
1,1,1-Trichloroethane	30		1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1		1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	3		1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	50		1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1		1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	2		1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1		1.0 U	1.0 U	1.0 U
2-Butanone (Mek)	300		10 U	10 U	10 U
2-Hexanone	100		5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (Mibk)	100		5.0 U	5.0 U	5.0 U
Acetone	6000		10 U	10 U	10 U
Benzene	1		1.0 U	1.0 U	1.0 U
Bromodichloromethane	1		1.0 U	1.0 U	1.0 U
Bromoform	4		4.0 U	4.0 U	4.0 U
Bromomethane	10		2.0 U	2.0 U	2.0 U
Carbon Disulfide	700		2.0 U	2.0 U	2.0 U
Carbon Tetrachloride	1		1.0 U	1.0 U	1.0 U
Chlorobenzene	50		1.0 U	1.0 U	1.0 U
Chloroethane	100		1.0 U	1.0 U	1.0 U
Chloroform	70		1.0 U	1.0 U	1.0 U
Chloromethane	100		1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	70		1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropylene	1		1.0 U	1.0 U	1.0 U
Dibromochloromethane	1		1.0 U	1.0 U	1.0 U
Ethylbenzene	700		1.0 U	1.0 U	1.0 U
Methylene Chloride	3		2.0 U	2.0 U	2.0 U
Styrene (Monomer)	100		5.0 U	5.0 U	5.0 U
Tetrachloroethene	1		1.0 U	1.0 U	1.0 U
Toluene	600		1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	100		1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropylene	1		1.0 U	1.0 U	1.0 U
Trichloroethene	1		1.0 U	1.0 U	0.43 J
Vinyl Chloride	1		1.0 U	1.0 U	1.0 U
Xylenes (Total)	1000		1.0 U	1.0 U	1.0 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-2
Ground Water Analytical Results
8260 Volatile Organic Compound Data
2008 Fourth Quarter Impound 8 Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D12 10/23/2008 ug/l	RCRA-D13 10/23/2008 ug/l	RCRA-D14 10/22/2008 ug/l
1,1,1-Trichloroethane	30		1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1		1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	3		1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	50		1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1		1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	2		1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1		1.0 U	1.0 U	1.0 U
2-Butanone (Mek)	300		10 U	10 U	10 U
2-Hexanone	100		5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (Mibk)	100		5.0 U	5.0 U	5.0 U
Acetone	6000		10 U	10 U	10 U
Benzene	1		1.0 U	1.0 U	1.0 U
Bromodichloromethane	1		1.0 U	1.0 U	1.0 U
Bromoform	4		4.0 U	4.0 U	4.0 U
Bromomethane	10		2.0 U	2.0 U	2.0 U
Carbon Disulfide	700		2.0 U	2.0 U	2.0 U
Carbon Tetrachloride	1		1.0 U	1.0 U	1.0 U
Chlorobenzene	50		0.33 J	1.0 U	1.0 U
Chloroethane	100		1.0 U	1.0 U	1.0 U
Chloroform	70		1.0 U	1.0 U	1.0 U
Chloromethane	100		1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	70		1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropylene	1		1.0 U	1.0 U	1.0 U
Dibromochloromethane	1		1.0 U	1.0 U	1.0 U
Ethylbenzene	700		1.0 U	1.0 U	1.0 U
Methylene Chloride	3		2.0 U	2.0 U	2.0 U
Styrene (Monomer)	100		5.0 U	5.0 U	5.0 U
Tetrachloroethene	1		1.0 U	1.0 U	1.0 U
Toluene	600		1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	100		1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropylene	1		1.0 U	1.0 U	1.0 U
Trichloroethene	1		1.0 U	1.0 U	1.0 U
Vinyl Chloride	1		1.0 U	1.0 U	1.0 U
Xylenes (Total)	1000		1.0 U	1.0 U	1.0 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-2
Ground Water Analytical Results
8260 Volatile Organic Compound Data
2008 Fourth Quarter Impound 8 Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D15 11/14/2008 ug/l
1,1,1-Trichloroethane	30		1.8
1,1,2,2-Tetrachloroethane	1		1.0 U
1,1,2-Trichloroethane	3		1.0 U
1,1-Dichloroethane	50		1.5
1,1-Dichloroethene	1		**5.6 Y**
1,2-Dichloroethane	2		1.0 U
1,2-Dichloropropane	1		1.0 U
2-Butanone (Mek)	300		10 U
2-Hexanone	100		5.0 U
4-Methyl-2-Pentanone (Mibk)	100		5.0 U
Acetone	6000		10 U
Benzene	1		1.0 U
Bromodichloromethane	1		1.0 U
Bromoform	4		4.0 U
Bromomethane	10		2.0 U
Carbon Disulfide	700		2.0 U
Carbon Tetrachloride	1		**20.9 Y**
Chlorobenzene	50		1.0 U
Chloroethane	100		1.0 U
Chloroform	70		4.3
Chloromethane	100		1.0 U
cis-1,2-Dichloroethene	70		4.3
cis-1,3-Dichloropropylene	1		1.0 U
Dibromochloromethane	1		1.0 U
Ethylbenzene	700		1.0 U
Methylene Chloride	3		2.0 U
Styrene (Monomer)	100		5.0 U
Tetrachloroethene	1		**34.2 Y**
Toluene	600		1.0 U
trans-1,2-Dichloroethene	100		1.0 U
trans-1,3-Dichloropropylene	1		1.0 U
Trichloroethene	1		**9.7 Y**
Vinyl Chloride	1		1.0 U
Xylenes (Total)	1000		1.0 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-3
Ground Water Analytical Results
8270 Semi Volatile Organic Compound Data
2008 Fourth Quarter Impound 8 Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D1 10/22/2008 ug/l	RCRA-D2 10/21/2008 ug/l	RCRA-D3 10/21/2008 ug/l
1,2,4-Trichlorobenzene	9		2.0 U	2.1 U	2.0 U
1,2-Dichlorobenzene	600		2.0 U	2.1 U	2.0 U
1,3-Dichlorobenzene	600		2.0 U	2.1 U	2.0 U
1,4-Dichlorobenzene	75		2.0 U	2.1 U	2.0 U
2,4,5-Trichlorophenol	700		5.1 U	5.2 U	5.0 U
2,4,6-Trichlorophenol	20		5.1 U	5.2 U	5.0 U
2,4-Dichlorophenol	20		5.1 U	5.2 U	5.0 U
2,4-Dimethylphenol	100		5.1 U	5.2 U	5.0 U
2,4-Dinitrophenol	40		20 U	21 U	20 U
2,4-Dinitrotoluene	10		2.0 U	2.1 U	2.0 U
2,6-Dinitrotoluene	10		2.0 U	2.1 U	2.0 U
2-Chloronaphthalene	600		5.1 U	5.2 U	5.0 U
2-Chlorophenol	40		5.1 U	5.2 U	5.0 U
2-Methylnaphthalene	100		2.0 U	2.1 U	2.0 U
2-Methylphenol	5		2.0 U	2.1 U	2.0 U
2-Nitroaniline	100		5.1 U	5.2 U	5.0 U
2-Nitrophenol	100		5.1 U	5.2 U	5.0 U
3 & 4-Methylphenol	5		2.0 U	2.1 U	2.0 U
3,3'-Dichlorobenzidine	30		5.1 U	5.2 U	5.0 U
3-Nitroaniline	100		5.1 U	5.2 U	5.0 U
4,6-Dinitro-2-Methylphenol	100		20 U	21 U	20 U
4-Bromophenyl Phenyl Ether	100		2.0 U	2.1 U	2.0 U
4-chloro-3-Methyl Phenol	100		5.1 U	5.2 U	5.0 U
4-Chloroaniline	30		5.1 U	5.2 U	5.0 U
4-Chlorophenyl Phenyl Ether	100		2.0 U	2.1 U	2.0 U
4-Nitroaniline	100		5.1 U	5.2 U	5.0 U
4-Nitrophenol	100		10 U	10 U	10 U
Acenaphthene	400		0.20 U	0.21 U	0.20 U
Acenaphthylene	100		0.20 U	0.21 U	0.20 U
Anthracene	2000		0.20 U	0.21 U	0.20 U
Benzo(a)Anthracene	0.1		0.10 U	0.10 U	0.10 U
Benzo(a)Pyrene	0.1		0.10 U	0.10 U	0.10 U
Benzo(b)Fluoranthene.	0.2		0.20 U	0.21 U	0.20 U
Benzo(g,h,i)Perylene	100		0.20 U	0.21 U	0.20 U
Benzo(k)Fluoranthene	0.5		0.20 U	0.21 U	0.20 U
bis(2-Chloroethoxy)Methane	100		2.0 U	2.1 U	2.0 U
bis(2-Chloroethyl)Ether	7		2.0 U	2.1 U	2.0 U
bis(2-Chloroisopropyl)Ether	300		2.0 U	2.1 U	2.0 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-3
Ground Water Analytical Results
8270 Semi Volatile Organic Compound Data
2008 Fourth Quarter Impound 8 Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D1 10/22/2008 ug/l	RCRA-D2 10/21/2008 ug/l	RCRA-D3 10/21/2008 ug/l
bis(2-Ethylhexyl)Phthalate	3		2.0 U	2.1 U	2.0 U
Butyl Benzyl Phthalate	100		2.0 U	2.1 U	2.0 U
Carbazole	100		2.0 U	2.1 U	2.0 U
Chrysene	5		0.20 U	0.21 U	0.20 U
Dibenzo(a,h)Anthracene	0.3		0.20 U	0.21 U	0.20 U
Dibenzofuran	100		5.1 U	5.2 U	5.0 U
Diethyl Phthalate	6000		2.0 U	2.1 U	2.0 U
Dimethyl Phthalate	100		2.0 U	2.1 U	2.0 U
di-n-Butyl Phthalate	700		2.0 U	2.1 U	2.0 U
di-n-Octyl Phthalate	100		2.0 U	2.1 U	2.0 U
Fluoranthene	300		0.20 U	0.21 U	0.20 U
Fluorene	300		0.20 U	0.21 U	0.20 U
Hexachlorobenzene	0.02		0.020 U	0.021 U	0.020 U
Hexachlorobutadiene	1		2.0 U	2.1 U	2.0 U
Hexachlorocyclopentadiene	40		20 U	21 U	20 U
Hexachloroethane	7		5.1 U	5.2 U	5.0 U
Indeno(1,2,3-Cd)Pyrene	0.2		0.20 U	0.21 U	0.20 U
Isophorone	40		2.0 U	2.1 U	2.0 U
Naphthalene	300		0.20 U	0.21 U	0.20 U
Nitrobenzene	6		2.0 U	2.1 U	2.0 U
n-Nitroso-di-n-Propylamine	10		2.0 U	2.1 U	2.0 U
n-Nitrosodiphenylamine	10		5.1 U	5.2 U	5.0 U
Pentachlorophenol	0.3		0.31 U	0.31 U	0.30 U
Phenanthrene	100		0.20 U	0.21 U	0.20 U
Phenol	2000		2.0 U	2.1 U	2.0 U
Pyrene	200		0.20 U	0.21 U	0.20 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-3
Ground Water Analytical Results
8270 Semi Volatile Organic Compound Data
2008 Fourth Quarter Impound 8 Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D4 10/21/2008 ug/l	RCRA-D5 10/21/2008 ug/l	RCRA-D6 10/21/2008 ug/l
1,2,4-Trichlorobenzene	9		2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	600		2.0 U	2.0 U	2.0 U
1,3-Dichlorobenzene	600		2.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	75		2.0 U	2.0 U	2.0 U
2,4,5-Trichlorophenol	700		5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	20		5.0 U	5.0 U	5.0 U
2,4-Dichlorophenol	20		5.0 U	5.0 U	5.0 U
2,4-Dimethylphenol	100		5.0 U	5.0 U	5.0 U
2,4-Dinitrophenol	40		20 U	20 U	20 U
2,4-Dinitrotoluene	10		2.0 U	2.0 U	2.0 U
2,6-Dinitrotoluene	10		2.0 U	2.0 U	2.0 U
2-Chloronaphthalene	600		5.0 U	5.0 U	5.0 U
2-Chlorophenol	40		5.0 U	5.0 U	5.0 U
2-Methylnaphthalene	100		2.0 U	2.0 U	2.0 U
2-Methylphenol	5		2.0 U	2.0 U	2.0 U
2-Nitroaniline	100		5.0 U	5.0 U	5.0 U
2-Nitrophenol	100		5.0 U	5.0 U	5.0 U
3 & 4-Methylphenol	5		2.0 U	2.0 U	2.0 U
3,3'-Dichlorobenzidine	30		5.0 U	5.0 U	5.0 U
3-Nitroaniline	100		5.0 U	5.0 U	5.0 U
4,6-Dinitro-2-Methylphenol	100		20 U	20 U	20 U
4-Bromophenyl Phenyl Ether	100		2.0 U	2.0 U	2.0 U
4-chloro-3-Methyl Phenol	100		5.0 U	5.0 U	5.0 U
4-Chloroaniline	30		5.0 U	5.0 U	5.0 U
4-Chlorophenyl Phenyl Ether	100		2.0 U	2.0 U	2.0 U
4-Nitroaniline	100		5.0 U	5.0 U	5.0 U
4-Nitrophenol	100		10 U	10 U	10 U
Acenaphthene	400		0.20 U	0.20 U	0.20 U
Acenaphthylene	100		0.20 U	0.20 U	0.20 U
Anthracene	2000		0.20 U	0.20 U	0.20 U
Benzo(a)Anthracene	0.1		0.10 U	0.10 U	0.10 U
Benzo(a)Pyrene	0.1		0.10 U	0.10 U	0.10 U
Benzo(b)Fluoranthene.	0.2		0.20 U	0.20 U	0.20 U
Benzo(g,h,i)Perylene	100		0.20 U	0.20 U	0.20 U
Benzo(k)Fluoranthene	0.5		0.20 U	0.20 U	0.20 U
bis(2-Chloroethoxy)Methane	100		2.0 U	2.0 U	2.0 U
bis(2-Chloroethyl)Ether	7		2.0 U	2.0 U	2.0 U
bis(2-Chloroisopropyl)Ether	300		2.0 U	2.0 U	2.0 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-3
Ground Water Analytical Results
8270 Semi Volatile Organic Compound Data
2008 Fourth Quarter Impound 8 Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D4 10/21/2008 ug/l	RCRA-D5 10/21/2008 ug/l	RCRA-D6 10/21/2008 ug/l
bis(2-Ethylhexyl)Phthalate	3		2.0 U	2.0 U	2.0 U
Butyl Benzyl Phthalate	100		2.0 U	2.0 U	2.0 U
Carbazole	100		2.0 U	2.0 U	2.0 U
Chrysene	5		0.20 U	0.20 U	0.20 U
Dibenzo(a,h)Anthracene	0.3		0.20 U	0.20 U	0.20 U
Dibenzofuran	100		5.0 U	5.0 U	5.0 U
Diethyl Phthalate	6000		2.0 U	2.0 U	2.0 U
Dimethyl Phthalate	100		2.0 U	2.0 U	2.0 U
di-n-Butyl Phthalate	700		2.0 U	2.0 U	2.0 U
di-n-Octyl Phthalate	100		2.0 U	2.0 U	2.0 U
Fluoranthene	300		0.20 U	0.20 U	0.20 U
Fluorene	300		0.20 U	0.20 U	0.20 U
Hexachlorobenzene	0.02		0.020 U	0.020 U	0.020 U
Hexachlorobutadiene	1		2.0 U	2.0 U	2.0 U
Hexachlorocyclopentadiene	40		20 U	20 U	20 U
Hexachloroethane	7		5.0 U	5.0 U	5.0 U
Indeno(1,2,3-Cd)Pyrene	0.2		0.20 U	0.20 U	0.20 U
Isophorone	40		2.0 U	2.0 U	2.0 U
Naphthalene	300		0.20 U	0.20 U	0.20 U
Nitrobenzene	6		2.0 U	2.0 U	2.0 U
n-Nitroso-di-n-Propylamine	10		2.0 U	2.0 U	2.0 U
n-Nitrosodiphenylamine	10		5.0 U	5.0 U	5.0 U
Pentachlorophenol	0.3		0.30 U	0.30 U	0.30 U
Phenanthrene	100		0.20 U	0.20 U	0.20 U
Phenol	2000		2.0 U	2.0 U	2.0 U
Pyrene	200		0.20 U	0.20 U	0.20 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-3
Ground Water Analytical Results
8270 Semi Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D7 10/21/2008 ug/l	RCRA-D8 10/22/2008 ug/l	RCRA-D9 10/22/2008 ug/l
1,2,4-Trichlorobenzene	9		2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	600		2.0 U	2.0 U	2.0 U
1,3-Dichlorobenzene	600		2.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	75		2.0 U	2.0 U	2.0 U
2,4,5-Trichlorophenol	700		5.0 U	5.1 U	5.1 U
2,4,6-Trichlorophenol	20		5.0 U	5.1 U	5.1 U
2,4-Dichlorophenol	20		5.0 U	5.1 U	5.1 U
2,4-Dimethylphenol	100		5.0 U	5.1 U	5.1 U
2,4-Dinitrophenol	40		20 U	20 U	20 U
2,4-Dinitrotoluene	10		2.0 U	2.0 U	2.0 U
2,6-Dinitrotoluene	10		2.0 U	2.0 U	2.0 U
2-Chloronaphthalene	600		5.0 U	5.1 U	5.1 U
2-Chlorophenol	40		5.0 U	5.1 U	5.1 U
2-Methylnaphthalene	100		2.0 U	2.0 U	2.0 U
2-Methylphenol	5		2.0 U	2.0 U	2.0 U
2-Nitroaniline	100		5.0 U	5.1 U	5.1 U
2-Nitrophenol	100		5.0 U	5.1 U	5.1 U
3 & 4-Methylphenol	5		2.0 U	2.0 U	2.0 U
3,3'-Dichlorobenzidine	30		5.0 U	5.1 U	5.1 U
3-Nitroaniline	100		5.0 U	5.1 U	5.1 U
4,6-Dinitro-2-Methylphenol	100		20 U	20 U	20 U
4-Bromophenyl Phenyl Ether	100		2.0 U	2.0 U	2.0 U
4-chloro-3-Methyl Phenol	100		5.0 U	5.1 U	5.1 U
4-Chloroaniline	30		5.0 U	5.1 U	5.1 U
4-Chlorophenyl Phenyl Ether	100		2.0 U	2.0 U	2.0 U
4-Nitroaniline	100		5.0 U	5.1 U	5.1 U
4-Nitrophenol	100		10 U	10 U	10 U
Acenaphthene	400		0.20 U	0.20 U	0.20 U
Acenaphthylene	100		0.20 U	0.20 U	0.20 U
Anthracene	2000		0.20 U	0.20 U	0.20 U
Benzo(a)Anthracene	0.1		0.10 U	0.10 U	0.10 U
Benzo(a)Pyrene	0.1		0.10 U	0.10 U	0.10 U
Benzo(b)Fluoranthene.	0.2		0.20 U	0.20 U	0.20 U
Benzo(g,h,i)Perylene	100		0.20 U	0.20 U	0.20 U
Benzo(k)Fluoranthene	0.5		0.20 U	0.20 U	0.20 U
bis(2-Chloroethoxy)Methane	100		2.0 U	2.0 U	2.0 U
bis(2-Chloroethyl)Ether	7		2.0 U	2.0 U	2.0 U
bis(2-Chloroisopropyl)Ether	300		2.0 U	2.0 U	2.0 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-3
Ground Water Analytical Results
8270 Semi Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D7 10/21/2008 ug/l	RCRA-D8 10/22/2008 ug/l	RCRA-D9 10/22/2008 ug/l
bis(2-Ethylhexyl)Phthalate	3		2.0 U	2.0 U	2.0 U
Butyl Benzyl Phthalate	100		2.0 U	2.0 U	2.0 U
Carbazole	100		2.0 U	2.0 U	2.0 U
Chrysene	5		0.20 U	0.20 U	0.20 U
Dibenzo(a,h)Anthracene	0.3		0.20 U	0.20 U	0.20 U
Dibenzofuran	100		5.0 U	5.1 U	5.1 U
Diethyl Phthalate	6000		2.0 U	2.0 U	2.0 U
Dimethyl Phthalate	100		2.0 U	2.0 U	2.0 U
di-n-Butyl Phthalate	700		2.0 U	2.0 U	2.0 U
di-n-Octyl Phthalate	100		2.0 U	2.0 U	2.0 U
Fluoranthene	300		0.20 U	0.20 U	0.20 U
Fluorene	300		0.20 U	0.20 U	0.20 U
Hexachlorobenzene	0.02		0.020 U	0.020 U	0.020 U
Hexachlorobutadiene	1		2.0 U	2.0 U	2.0 U
Hexachlorocyclopentadiene	40		20 U	20 U	20 U
Hexachloroethane	7		5.0 U	5.1 U	5.1 U
Indeno(1,2,3-Cd)Pyrene	0.2		0.20 U	0.20 U	0.20 U
Isophorone	40		2.0 U	2.0 U	2.0 U
Naphthalene	300		0.20 U	0.20 U	0.20 U
Nitrobenzene	6		2.0 U	2.0 U	2.0 U
n-Nitroso-di-n-Propylamine	10		2.0 U	2.0 U	2.0 U
n-Nitrosodiphenylamine	10		5.0 U	5.1 U	5.1 U
Pentachlorophenol	0.3		0.30 U	0.31 U	0.31 U
Phenanthrene	100		0.20 U	0.20 U	0.20 U
Phenol	2000		2.0 U	2.0 U	2.0 U
Pyrene	200		0.20 U	0.20 U	0.20 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-3
Ground Water Analytical Results
8270 Semi Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D10 10/22/2008 ug/l	RCRA-D10 DUP 10/22/2008 ug/l	RCRA-D11 10/23/2008 ug/l
1,2,4-Trichlorobenzene	9		2.0 U	2.1 U	2.0 U
1,2-Dichlorobenzene	600		2.0 U	2.1 U	2.6
1,3-Dichlorobenzene	600		2.0 U	2.1 U	2.0 U
1,4-Dichlorobenzene	75		2.0 U	2.1 U	2.0 U
2,4,5-Trichlorophenol	700		5.0 U	5.2 U	5.0 U
2,4,6-Trichlorophenol	20		5.0 U	5.2 U	5.0 U
2,4-Dichlorophenol	20		5.0 U	5.2 U	5.0 U
2,4-Dimethylphenol	100		5.0 U	5.2 U	5.0 U
2,4-Dinitrophenol	40		20 U	21 U	20 U
2,4-Dinitrotoluene	10		2.0 U	2.1 U	2.0 U
2,6-Dinitrotoluene	10		2.0 U	2.1 U	2.0 U
2-Chloronaphthalene	600		5.0 U	5.2 U	5.0 U
2-Chlorophenol	40		5.0 U	5.2 U	5.0 U
2-Methylnaphthalene	100		2.0 U	2.1 U	2.0 U
2-Methylphenol	5		2.0 U	2.1 U	2.0 U
2-Nitroaniline	100		5.0 U	5.2 U	5.0 U
2-Nitrophenol	100		5.0 U	5.2 U	5.0 U
3 & 4-Methylphenol	5		2.0 U	2.1 U	2.0 U
3,3'-Dichlorobenzidine	30		5.0 U	5.2 U	5.0 U
3-Nitroaniline	100		5.0 U	5.2 U	5.0 U
4,6-Dinitro-2-Methylphenol	100		20 U	21 U	20 U
4-Bromophenyl Phenyl Ether	100		2.0 U	2.1 U	2.0 U
4-chloro-3-Methyl Phenol	100		5.0 U	5.2 U	5.0 U
4-Chloroaniline	30		5.0 U	5.2 U	5.0 U
4-Chlorophenyl Phenyl Ether	100		2.0 U	2.1 U	2.0 U
4-Nitroaniline	100		5.0 U	5.2 U	5.0 U
4-Nitrophenol	100		10 U	10 U	10 U
Acenaphthene	400		0.20 U	0.21 U	0.20 U
Acenaphthylene	100		0.20 U	0.21 U	0.20 U
Anthracene	2000		0.20 U	0.21 U	0.20 U
Benzo(a)Anthracene	0.1		0.10 U	0.10 U	0.10 U
Benzo(a)Pyrene	0.1		0.10 U	0.10 U	0.10 U
Benzo(b)Fluoranthene.	0.2		0.20 U	0.21 U	0.20 U
Benzo(g,h,i)Perylene	100		0.20 U	0.21 U	0.20 U
Benzo(k)Fluoranthene	0.5		0.20 U	0.21 U	0.20 U
bis(2-Chloroethoxy)Methane	100		2.0 U	2.1 U	2.0 U
bis(2-Chloroethyl)Ether	7		2.0 U	2.1 U	2.0 U
bis(2-Chloroisopropyl)Ether	300		2.0 U	2.1 U	2.0 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-3
Ground Water Analytical Results
8270 Semi Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D10 10/22/2008 ug/l	RCRA-D10 DUP 10/22/2008 ug/l	RCRA-D11 10/23/2008 ug/l
bis(2-Ethylhexyl)Phthalate	3		2.0 U	2.1 U	2.0 U
Butyl Benzyl Phthalate	100		2.0 U	2.1 U	2.0 U
Carbazole	100		2.0 U	2.1 U	2.0 U
Chrysene	5		0.20 U	0.21 U	0.20 U
Dibenzo(a,h)Anthracene	0.3		0.20 U	0.21 U	0.20 U
Dibenzofuran	100		5.0 U	5.2 U	5.0 U
Diethyl Phthalate	6000		2.0 U	2.1 U	2.0 U
Dimethyl Phthalate	100		2.0 U	2.1 U	2.0 U
di-n-Butyl Phthalate	700		2.0 U	2.1 U	2.0 U
di-n-Octyl Phthalate	100		2.0 U	2.1 U	2.0 U
Fluoranthene	300		0.20 U	0.21 U	0.20 U
Fluorene	300		0.20 U	0.21 U	0.20 U
Hexachlorobenzene	0.02		0.020 U	0.021 U	0.020 U
Hexachlorobutadiene	1		2.0 U	2.1 U	2.0 U
Hexachlorocyclopentadiene	40		20 U	21 U	20 U
Hexachloroethane	7		5.0 U	5.2 U	5.0 U
Indeno(1,2,3-Cd)Pyrene	0.2		0.20 U	0.21 U	0.20 U
Isophorone	40		2.0 U	2.1 U	2.0 U
Naphthalene	300		0.20 U	0.21 U	0.20 U
Nitrobenzene	6		2.0 U	2.1 U	2.0 U
n-Nitroso-di-n-Propylamine	10		2.0 U	2.1 U	2.0 U
n-Nitrosodiphenylamine	10		5.0 U	5.2 U	5.0 U
Pentachlorophenol	0.3		0.30 U	0.31 U	0.30 U
Phenanthrene	100		0.20 U	0.21 U	0.20 U
Phenol	2000		2.0 U	2.1 U	2.0 U
Pyrene	200		0.20 U	0.21 U	0.20 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-3
Ground Water Analytical Results
8270 Semi Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D12 10/23/2008 ug/l	RCRA-D13 10/23/2008 ug/l	RCRA-D14 10/22/2008 ug/l
1,2,4-Trichlorobenzene	9		2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	600		0.61 J	2.0 U	2.0 U
1,3-Dichlorobenzene	600		2.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	75		2.0 U	2.0 U	2.0 U
2,4,5-Trichlorophenol	700		5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	20		5.0 U	5.0 U	5.0 U
2,4-Dichlorophenol	20		5.0 U	5.0 U	5.0 U
2,4-Dimethylphenol	100		5.0 U	5.0 U	5.0 U
2,4-Dinitrophenol	40		20 U	20 U	20 U
2,4-Dinitrotoluene	10		2.0 U	2.0 U	2.0 U
2,6-Dinitrotoluene	10		2.0 U	2.0 U	2.0 U
2-Chloronaphthalene	600		5.0 U	5.0 U	5.0 U
2-Chlorophenol	40		5.0 U	5.0 U	5.0 U
2-Methylnaphthalene	100		2.0 U	2.0 U	2.0 U
2-Methylphenol	5		2.0 U	2.0 U	2.0 U
2-Nitroaniline	100		5.0 U	5.0 U	5.0 U
2-Nitrophenol	100		5.0 U	5.0 U	5.0 U
3 & 4-Methylphenol	5		2.0 U	2.0 U	2.0 U
3,3'-Dichlorobenzidine	30		5.0 U	5.0 U	5.0 U
3-Nitroaniline	100		5.0 U	5.0 U	5.0 U
4,6-Dinitro-2-Methylphenol	100		20 U	20 U	20 U
4-Bromophenyl Phenyl Ether	100		2.0 U	2.0 U	2.0 U
4-chloro-3-Methyl Phenol	100		5.0 U	5.0 U	5.0 U
4-Chloroaniline	30		5.0 U	5.0 U	5.0 U
4-Chlorophenyl Phenyl Ether	100		2.0 U	2.0 U	2.0 U
4-Nitroaniline	100		5.0 U	5.0 U	5.0 U
4-Nitrophenol	100		10 U	10 U	10 U
Acenaphthene	400		0.20 U	0.20 U	0.20 U
Acenaphthylene	100		0.20 U	0.20 U	0.20 U
Anthracene	2000		0.20 U	0.20 U	0.20 U
Benzo(a)Anthracene	0.1		0.10 U	0.10 U	0.10 U
Benzo(a)Pyrene	0.1		0.10 U	0.10 U	0.10 U
Benzo(b)Fluoranthene.	0.2		0.20 U	0.20 U	0.20 U
Benzo(g,h,i)Perylene	100		0.20 U	0.20 U	0.20 U
Benzo(k)Fluoranthene	0.5		0.20 U	0.20 U	0.20 U
bis(2-Chloroethoxy)Methane	100		2.0 U	2.0 U	2.0 U
bis(2-Chloroethyl)Ether	7		2.0 U	2.0 U	2.0 U
bis(2-Chloroisopropyl)Ether	300		2.0 U	2.0 U	2.0 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-3
Ground Water Analytical Results
8270 Semi Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D12 10/23/2008 ug/l	RCRA-D13 10/23/2008 ug/l	RCRA-D14 10/22/2008 ug/l
bis(2-Ethylhexyl)Phthalate	3		2.0 U	2.0 U	2.0 U
Butyl Benzyl Phthalate	100		2.0 U	2.0 U	2.0 U
Carbazole	100		2.0 U	2.0 U	2.0 U
Chrysene	5		0.20 U	0.20 U	0.20 U
Dibenzo(a,h)Anthracene	0.3		0.20 U	0.20 U	0.20 U
Dibenzofuran	100		5.0 U	5.0 U	5.0 U
Diethyl Phthalate	6000		2.0 U	2.0 U	2.0 U
Dimethyl Phthalate	100		2.0 U	2.0 U	2.0 U
di-n-Butyl Phthalate	700		2.0 U	2.0 U	2.0 U
di-n-Octyl Phthalate	100		2.0 U	2.0 U	2.0 U
Fluoranthene	300		0.20 U	0.20 U	0.20 U
Fluorene	300		0.20 U	0.20 U	0.20 U
Hexachlorobenzene	0.02		0.020 U	0.020 U	0.020 U
Hexachlorobutadiene	1		2.0 U	2.0 U	2.0 U
Hexachlorocyclopentadiene	40		20 U	20 U	20 U
Hexachloroethane	7		5.0 U	5.0 U	5.0 U
Indeno(1,2,3-Cd)Pyrene	0.2		0.20 U	0.20 U	0.20 U
Isophorone	40		2.0 U	2.0 U	2.0 U
Naphthalene	300		0.20 U	1.39	0.20 U
Nitrobenzene	6		2.0 U	2.0 U	2.0 U
n-Nitroso-di-n-Propylamine	10		2.0 U	2.0 U	2.0 U
n-Nitrosodiphenylamine	10		5.0 U	5.0 U	5.0 U
Pentachlorophenol	0.3		0.30 U	0.30 U	0.30 U
Phenanthrene	100		0.20 U	0.20 U	0.20 U
Phenol	2000		2.0 U	2.0 U	2.0 U
Pyrene	200		0.20 U	0.20 U	0.20 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-3
Ground Water Analytical Results
8270 Semi Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D15 11/14/2008 ug/l
1,2,4-Trichlorobenzene	9		1.2 J
1,2-Dichlorobenzene	600		2.3 U
1,3-Dichlorobenzene	600		2.3 U
1,4-Dichlorobenzene	75		2.3 U
2,4,5-Trichlorophenol	700		5.7 U
2,4,6-Trichlorophenol	20		5.7 U
2,4-Dichlorophenol	20		5.7 U
2,4-Dimethylphenol	100		5.7 U
2,4-Dinitrophenol	40		23 U
2,4-Dinitrotoluene	10		2.3 U
2,6-Dinitrotoluene	10		2.3 U
2-Chloronaphthalene	600		5.7 U
2-Chlorophenol	40		5.7 U
2-Methylnaphthalene	100		2.3 U
2-Methylphenol	5		2.3 U
2-Nitroaniline	100		5.7 U
2-Nitrophenol	100		5.7 U
3 & 4-Methylphenol	5		2.3 U
3,3'-Dichlorobenzidine	30		5.7 U
3-Nitroaniline	100		5.7 U
4,6-Dinitro-2-Methylphenol	100		23 U
4-Bromophenyl Phenyl Ether	100		2.3 U
4-chloro-3-Methyl Phenol	100		5.7 U
4-Chloroaniline	30		5.7 U
4-Chlorophenyl Phenyl Ether	100		2.3 U
4-Nitroaniline	100		5.7 U
4-Nitrophenol	100		11 U
Acenaphthene	400		0.23 U
Acenaphthylene	100		0.23 U
Anthracene	2000		0.23 U
Benzo(a)Anthracene	0.1		0.11 U
Benzo(a)Pyrene	0.1		0.11 U
Benzo(b)Fluoranthene.	0.2		0.23 U
Benzo(g,h,i)Perylene	100		0.23 U
Benzo(k)Fluoranthene	0.5		0.23 U
bis(2-Chloroethoxy)Methane	100		2.3 U
bis(2-Chloroethyl)Ether	7		2.3 U
bis(2-Chloroisopropyl)Ether	300		2.3 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-3
Ground Water Analytical Results
8270 Semi Volatile Organic Compound Data
2008 Fourth Quarter Site Wide Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D15 11/14/2008 ug/l
bis(2-Ethylhexyl)Phthalate	3		2.3 U
Butyl Benzyl Phthalate	100		2.3 U
Carbazole	100		2.3 U
Chrysene	5		0.23 U
Dibenzo(a,h)Anthracene	0.3		0.23 U
Dibenzofuran	100		5.7 U
Diethyl Phthalate	6000		2.3 U
Dimethyl Phthalate	100		2.3 U
di-n-Butyl Phthalate	700		2.3 U
di-n-Octyl Phthalate	100		2.3 U
Fluoranthene	300		0.23 U
Fluorene	300		0.23 U
Hexachlorobenzene	0.02		0.023 U
Hexachlorobutadiene	1		1.1 U
Hexachlorocyclopentadiene	40		23 U
Hexachloroethane	7		5.7 U
Indeno(1,2,3-Cd)Pyrene	0.2		0.23 U
Isophorone	40		2.3 U
Naphthalene	300		0.23 U
Nitrobenzene	6		2.3 U
n-Nitroso-di-n-Propylamine	10		2.3 U
n-Nitrosodiphenylamine	10		5.7 U
Pentachlorophenol	0.3		0.34 U
Phenanthrene	100		0.23 U
Phenol	2000		2.3 U
Pyrene	200		0.23 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate, R - rejected, NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard, * = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-4
Ground Water Analytical Results
Metals Data
2008 Fourth Quarter Impound 8 Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D1 10/22/2008 ug/l	RCRA-D2 10/21/2008 ug/l	RCRA-D3 10/21/2008 ug/l
Aluminum	200		200 U	200 U	200 U
Antimony	6		6.0 U	6.0 U	6.0 U
Arsenic	3		3.0 U	3.0 U	3.0 U
Barium	6000		200 U	200 U	200 U
Beryllium	1		1.0 U	1.0 U	1.0 U
Cadmium	4		3.0 U	3.0 U	3.0 U
Calcium	NA		115000	116000	116000
Chromium	70		10 U	10 U	10 U
Cobalt	NA		50 U	50 U	50 U
Copper	1300		10 U	10 U	10 U
Iron	300		100 U	100 U	100 U
Lead	5		3.0 U	3.0 U	3.0 U
Magnesium	NA		17100	15500	15500
Manganese	50		15 U	15 U	15 U
Mercury	2		0.20 U	0.20 U	0.20 U
Nickel	100		10 U	10 U	10 U
Potassium	NA		10000 U	10000 U	10000 U
Selenium	40		10 U	10 U	10 U
Silver	40		10 U	10 U	10 U
Sodium	50000		32400	34400	32900
Thallium	2		2.0 U	2.0 U	2.0 U
Vanadium	NA		50 U	50 U	50 U
Zinc	2000		20 U	20 U	20 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-4
Ground Water Analytical Results
Metals Data
2008 Fourth Quarter Impound 8 Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D4 10/21/2008 ug/l	RCRA-D5 10/21/2008 ug/l	RCRA-D6 10/21/2008 ug/l
Aluminum	200		200 U	200 U	200 U
Antimony	6		6.0 U	6.0 U	6.0 U
Arsenic	3		3.0 U	3.0 U	3.0 U
Barium	6000		200 U	200 U	200 U
Beryllium	1		1.0 U	1.0 U	1.0 U
Cadmium	4		3.0 U	3.0 U	3.0 U
Calcium	NA		104000	111000	177000
Chromium	70		10 U	10 U	10 U
Cobalt	NA		50 U	50 U	50 U
Copper	1300		10 U	10 U	10 U
Iron	300		100 U	100 U	100 U
Lead	5		3.0 U	3.0 U	3.0 U
Magnesium	NA		11500	15300	23900
Manganese	50		15 U	19.5	40.3
Mercury	2		0.20 U	0.20 U	0.20 U
Nickel	100		10 U	10 U	10 U
Potassium	NA		10000 U	10000 U	10000 U
Selenium	40		10 U	10 U	10 U
Silver	40		10 U	10 U	10 U
Sodium	50000		30500	**51500 Y**	**87600 Y**
Thallium	2		2.0 U	2.0 U	2.0 U
Vanadium	NA		50 U	50 U	50 U
Zinc	2000		20 U	20 U	20 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-4
Ground Water Analytical Results
Metals Data
2008 Fourth Quarter Impound 8 Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D7 10/21/2008 ug/l	RCRA-D8 10/22/2008 ug/l	RCRA-D9 10/22/2008 ug/l
Aluminum	200		200 U	200 U	200 U
Antimony	6		6.0 U	6.0 U	6.0 U
Arsenic	3		3.0 U	3.0 U	3.0 U
Barium	6000		200 U	387	200 U
Beryllium	1		1.0 U	1.0 U	1.0 U
Cadmium	4		3.0 U	3.0 U	3.0 U
Calcium	NA		80600	81400	104000
Chromium	70		10 U	10 U	10 U
Cobalt	NA		50 U	50 U	50 U
Copper	1300		10 U	10 U	10 U
Iron	300		159	171	**601 Y**
Lead	5		3.0 U	3.0 U	3.0 U
Magnesium	NA		26500	13700	16900
Manganese	50		**72.7 Y**	15 U	**2500 Y**
Mercury	2		0.20 U	0.20 U	0.20 U
Nickel	100		10 U	10 U	10 U
Potassium	NA		10000 U	10000 U	10000 U
Selenium	40		10 U	10 U	10 U
Silver	40		10 U	10 U	10 U
Sodium	50000		**97000 Y**	20800	23700
Thallium	2		2.0 U	2.0 U	2.0 U
Vanadium	NA		50 U	50 U	50 U
Zinc	2000		20 U	20 U	20 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-4
Ground Water Analytical Results
Metals Data
2008 Fourth Quarter Impound 8 Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D10 10/22/2008 ug/l	RCRA-D10 DUP 10/22/2008 ug/l	RCRA-D11 10/23/2008 ug/l
Aluminum	200		200 U	200 U	200 U
Antimony	6		6.0 U	6.0 U	6.0 U
Arsenic	3		3.0 U	3.0 U	3.0 U
Barium	6000		661	686	636
Beryllium	1		1.0 U	1.0 U	1.0 U
Cadmium	4		3.0 U	3.0 U	3.0 U
Calcium	NA		72000	75000	63500
Chromium	70		10 U	10 U	10 U
Cobalt	NA		50 U	50 U	50 U
Copper	1300		10 U	11.9	10 U
Iron	300		100 U	100 U	100 U
Lead	5		3.0 U	3.0 U	3.0 U
Magnesium	NA		8670	9050	10800
Manganese	50		15 U	15 U	15 U
Mercury	2		0.20 U	0.20 U	0.20 U
Nickel	100		10 U	10 U	10 U
Potassium	NA		10000 U	10000 U	10000 U
Selenium	40		10 U	10 U	10 U
Silver	40		10 U	10 U	10 U
Sodium	50000		17700	18300	14400
Thallium	2		2.0 U	2.0 U	2.0 U
Vanadium	NA		50 U	50 U	50 U
Zinc	2000		20 U	20 U	20 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-4
Ground Water Analytical Results
Metals Data
2008 Fourth Quarter Impound 8 Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D12 10/23/2008 ug/l	RCRA-D13 10/23/2008 ug/l	RCRA-D14 10/22/2008 ug/l
Aluminum	200		200 U	200 U	200 U
Antimony	6		6.0 U	6.0 U	6.0 U
Arsenic	3		3.0 U	3.0 U	3.0 U
Barium	6000		200 U	1030	566
Beryllium	1		1.0 U	1.0 U	1.0 U
Cadmium	4		3.0 U	3.0 U	3.0 U
Calcium	NA		140000	69100	56400
Chromium	70		10 U	10 U	10 U
Cobalt	NA		50 U	50 U	50 U
Copper	1300		10 U	10 U	10 U
Iron	300		**1740 Y**	100 U	100 U
Lead	5		3.0 U	3.0 U	3.0 U
Magnesium	NA		28700	7310	8560
Manganese	50		**122 Y**	15 U	15 U
Mercury	2		0.20 U	0.20 U	0.20 U
Nickel	100		10 U	10 U	10 U
Potassium	NA		10000 U	10000 U	10000 U
Selenium	40		10 U	10 U	10 U
Silver	40		10 U	10 U	10 U
Sodium	50000		31000	17300	15800
Thallium	2		2.0 U	2.0 U	2.0 U
Vanadium	NA		50 U	50 U	50 U
Zinc	2000		20 U	20 U	20 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-4
Ground Water Analytical Results
Metals Data
2008 Fourth Quarter Impound 8 Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D15 11/14/2008 ug/l
Aluminum	200		200 U
Antimony	6		6.0 U
Arsenic	3		3.0 U
Barium	6000		450
Beryllium	1		1.0 U
Cadmium	4		3.0 U
Calcium	NA		61600
Chromium	70		10 U
Cobalt	NA		50 U
Copper	1300		10 U
Iron	300		100 U
Lead	5		3.0 U
Magnesium	NA		9970
Manganese	50		15 U
Mercury	2		0.20 U
Nickel	100		10 U
Potassium	NA		10000 U
Selenium	40		10 U
Silver	40		10 U
Sodium	50000		14100
Thallium	2		2.0 U
Vanadium	NA		50 U
Zinc	2000		20 U

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-5
Ground Water Analytical Results
Other Data
2008 Fourth Quarter Impound 8 Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D1 10/22/2008 ug/l	RCRA-D2 10/21/2008 ug/l	RCRA-D3 10/21/2008 ug/l
Total Organic Carbon	NA		1000 U	1100	1000 U
Total Organic Halides (Tox)	NA		50 U	50 U	50 U
Total Disolved Solids	500000		**558000 Y**	**548000 Y**	**642000 Y**

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-5
Ground Water Analytical Results
Other Data
2008 Fourth Quarter Impound 8 Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D4 10/21/2008 ug/l	RCRA-D5 10/21/2008 ug/l	RCRA-D6 10/21/2008 ug/l
Total Organic Carbon	NA		1000 U	1300	1600
Total Organic Halides (Tox)	NA		100 U	50 U	50 U
Total Disolved Solids	500000		**506000 Y**	**610000 Y**	**1160000 Y**

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-5
Ground Water Analytical Results
Other Data
2008 Fourth Quarter Impound 8 Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D7 10/21/2008 ug/l	RCRA-D8 10/22/2008 ug/l	RCRA-D9 10/22/2008 ug/l
Total Organic Carbon	NA		1700	1000 U	4100
Total Organic Halides (Tox)	NA		50 U	100 U	50 U
Total Disolved Solids	500000		**661000 Y**	357000	436000

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-5
Ground Water Analytical Results
Other Data
2008 Fourth Quarter Impound 8 Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D10 10/22/2008 ug/l	RCRA-D10 DUP 10/22/2008 ug/l	RCRA-D11 10/23/2008 ug/l
Total Organic Carbon	NA		1200	1000 U	1000 U
Total Organic Halides (Tox)	NA		100 U	50 U	50 U
Total Disolved Solids	500000		312000	321000	285000

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-5
Ground Water Analytical Results
Other Data
2008 Fourth Quarter Impound 8 Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D12 10/23/2008 ug/l	RCRA-D13 10/23/2008 ug/l	RCRA-D14 10/22/2008 ug/l
Total Organic Carbon	NA		4000	1000 U	1000 U
Total Organic Halides (Tox)	NA		100 U	50 U	50 U
Total Disolved Solids	500000		**641000 Y**	288000	224000

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

Table 4-5
Ground Water Analytical Results
Other Data
2008 Fourth Quarter Impound 8 Wells
Wyeth Holdings Corporation
Bound Brook Remediation Program

Chemical Name	GW Quality Standards ug/l	Sample ID Sample Date Unit	RCRA-D15 11/14/2008 ug/l
Total Organic Carbon	NA		1000 U
Total Organic Halides (Tox)	NA		100 U
Total Disolved Solids	500000		257000

NOTES: U = not detected, J = estimated value, B = blank contaminated, N = negate,
NA = no applicable criteria, Y = value exceeds Ground Water Quality Standard
* = MDL exceeds criteria due to limitations of the analytical method, --- = Not analyzed

FIGURES

Feb 04, 2009 - 3:53pm

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LEGEND

- OVERBURDEN WELL LOCATION
- (1) IMPOUNDMENT DESIGNATION

DRAWING NOTES:

1. MAP BASED ON AMERICAN DIGITAL CARTOGRAPHY, INC. TIGER DATA MAP. BOUND BROOK 7.5 MINUTE QUADRANGLE.
2. GROUND WATER ELEVATIONS ARE IN FEET AND REFERENCED TO MEAN SEA LEVEL. (ADD 69.29 FEET FOR SITE DATUM)

NO.	DATE	REVISION	INIT.

WYETH HOLDINGS CORPORATION
MADISON, NEW JERSEY

BOUND BROOK REMEDIAL PROGRAM
TASK 2.10 SITE-WIDE QUARTERLY MONITORING
OVERBURDEN MONITORING WELL LOCATION PLAN

IN CHARGE OF ANGELO J. CARACCIOLO FILE NO. 5772.42037.002

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900 0 900
SCALE:1"=900'-0"

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DATE: 01/30/09

FIGURE 3-1

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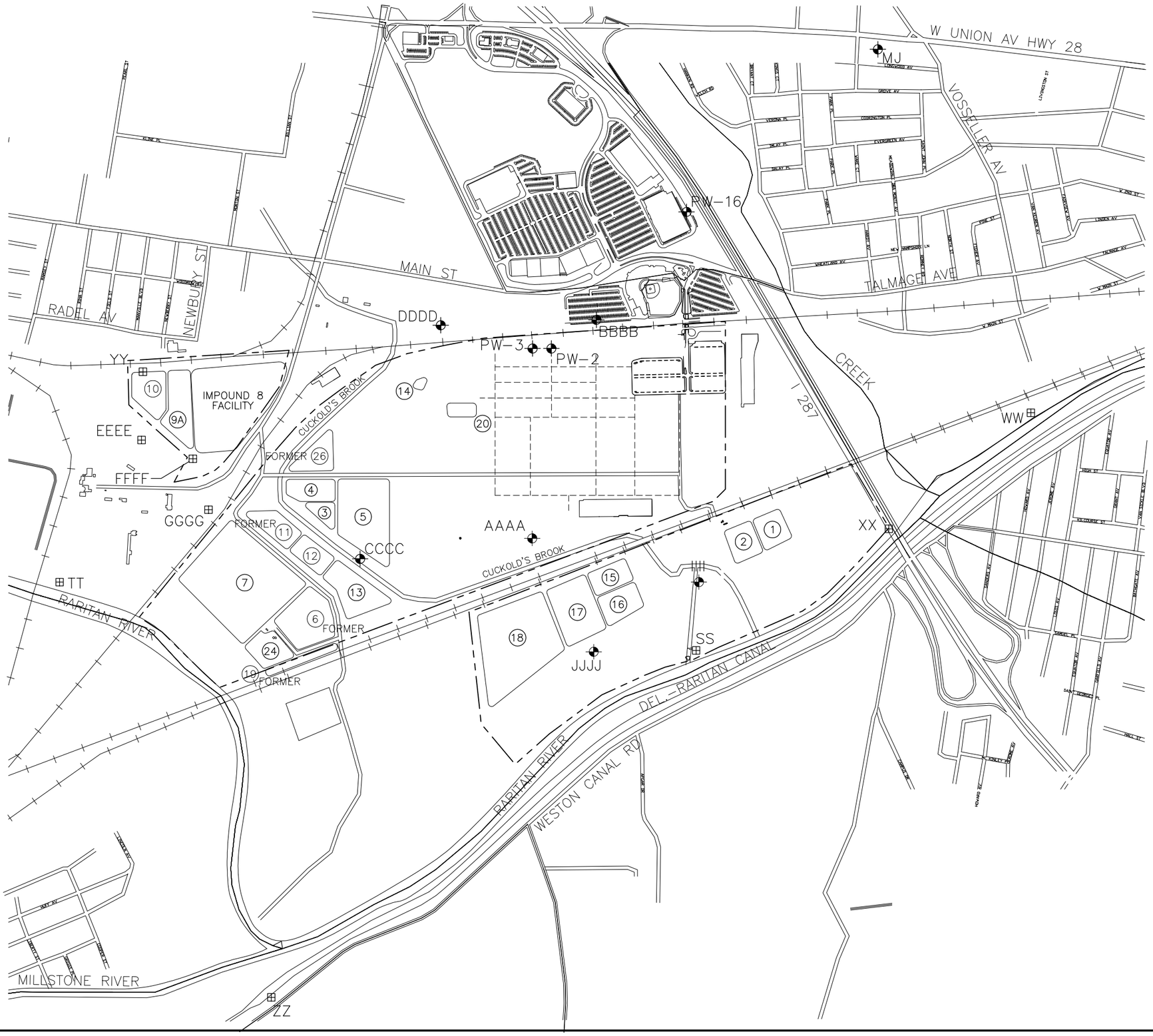

LEGEND

- BEDROCK WELL LOCATION
- OPEN BEDROCK WELL RETROFITTED WITH FLUTE LINERS
- (1) IMPOUNDMENT DESIGNATION

DRAWING NOTES:

1. MAP BASED ON AMERICAN DIGITAL CARTOGRAPHY, INC. TIGER DATA MAP. BOUND BROOK 7.5 MINUTE QUADRANGLE.
2. GROUND WATER ELEVATIONS ARE IN FEET AND REFERENCED TO MEAN SEA LEVEL. (ADD 69.29 FEET FOR SITE DATUM)

NO.	DATE	REVISION	INIT.

WYETH HOLDINGS CORPORATION
MADISON, NEW JERSEY

BOUND BROOK REMEDIAL PROGRAM
TASK 2.10 SITE-WIDE QUARTERLY MONITORING

BEDROCK WELL LOCATION MAP

IN CHARGE OF ANGELO J. CARACCIOLO FILE NO. 5772.42037.003

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FIGURE 3-2

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Contour Map Reporting Form

Figure 3-3: Site Wide Quarterly Monitoring Main Plant Overburden Ground Water Contour Map (October 20, 2008)

This reporting form shall accompany each ground water contour map submittal. Use additional sheets as necessary.

1. Did any surveyed well casing elevations change from the previous sampling event? Yes ☐ No ☒
   If yes, attach new "Well Certification-Form B" and identify the reason for the elevation change (damage to casing, installation of recovery system in monitoring well, etc...)

2. Are there any monitoring wells in unconfined aquifers in which the water table elevation is higher than the top of the well screen? Yes ☒ No ☐
   If yes, identify these wells.
   -28-R, O-R, 19-R, AAA, CCC-R, EEE-R, III, KKK, 16MW, 32-R, 34-R, 36-R, 38-R, 41-R, 42-R, and TFP-94-1R 2 Consistent with historic trends, does not interfere with obtaining representative samples

3. Are there any monitoring wells present at the site but omitted from the contour map? Yes ☐ No ☒
   Unless the omission of the well(s) has been previously approved by the Department, justify the omissions.

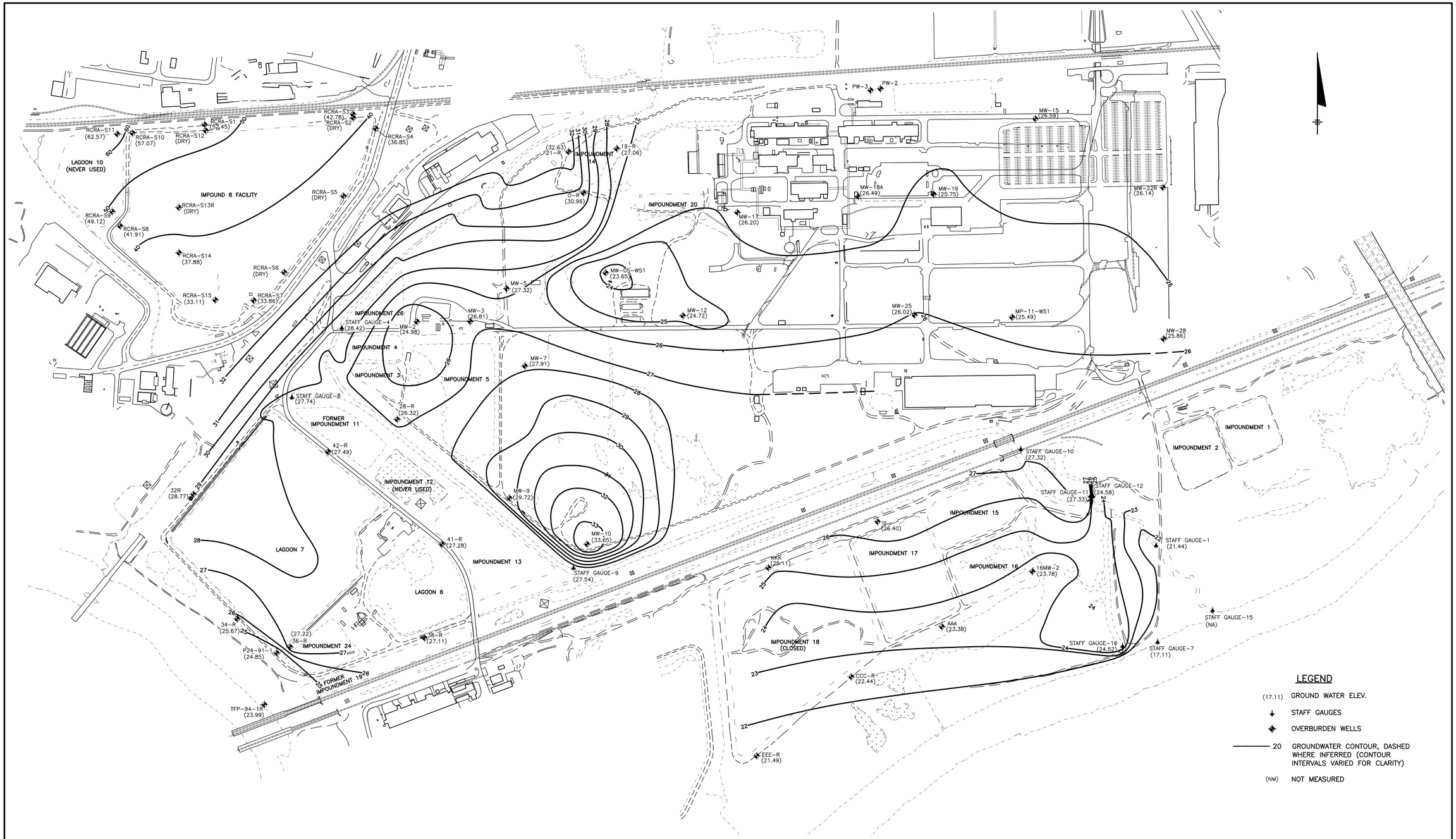
4. Are there any monitoring wells containing separate phase product during this event? Yes ☐ No ☒
   Were any of the monitoring wells with separate phase product included in the ground water contour map?
   If yes, show the formula used to correct the water table elevation.

5. Has the ground water flow direction changed more than 45° from the previous ground water contour map? Yes ☐ No ☒
   If yes, discuss the reasons for the change.

6. Has ground water mounding and/or depressions been identified in the ground water contour map? Yes ☐ No ☒
   Unless the ground water mounds and / or depressions are caused by the ground water remediation system, discuss the reasons for the occurrence.
   -Mounding beneath Lagoon 7 is likely due to the water level in Lagoon 7
   -Mounding beneath MW-10 Area is likely due to high water levels in MW-10 and MW-9
   -Depression beneath MW-12 area is likely due to pumping of bedrock groundwater at PW-2 and PW-3 capturing overburden groundwater.

7. Are all the wells used in the contour map screened in the same water-bearing zone? Yes ☒ No ☐
   If no, justify inclusion of those wells.

8. Were the ground water contours
   ☐ computer generated
   ☐ computer aided, or
   ☒ hand-drawn?
   If computer aided or generated, identify the interpolation method(s) used.



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IN CHARGE OF ANGELO J. CARACCIOLO

DESIGNED BY CYV CHECKED BY SMT

DRAWN BY SED

1"=250' 250 0 250 500

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WYETH HOLDINGS CORPORATION
BOUND BROOK REMEDIAL PROGRAM
BRIDGEWATER, NEW JERSEY

OVERBURDEN WATER TABLE MAP

FILE NO. 5772.42037.020

DATE JANUARY 2009

3-3

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Contour Map Reporting Form

Figure 3-4: Sitewide Quarterly Monitoring Bedrock Ground Water Contour Map
(October 20, 2008)

This reporting form shall accompany each ground water contour map submittal. Use additional sheets as necessary.

1. Did any surveyed well casing elevations change from the previous sampling event? Yes ☐ No ☒
   If yes, attach new "Well Certification-Form B" and identify the reason for the elevation change (damage to casing, installation of recovery system in monitoring well, etc.).

2. Are there any monitoring wells in unconfined aquifers in which the water table elevation is higher than the top of the well screen? Yes ☐ No ☒
   If yes, identify these wells.

3. Are there any monitoring wells present at the site but omitted from the contour map? Yes ☐ No ☒
   Unless the omission of the well(s) has been previously approved by the Department, justify the omissions.

4. Are there any monitoring wells containing separate phase product during this event? Yes ☐ No ☒
   Were any of the monitoring wells with separate phase product included in the ground water contour map?
   If yes, show the formula used to correct the water table elevation.

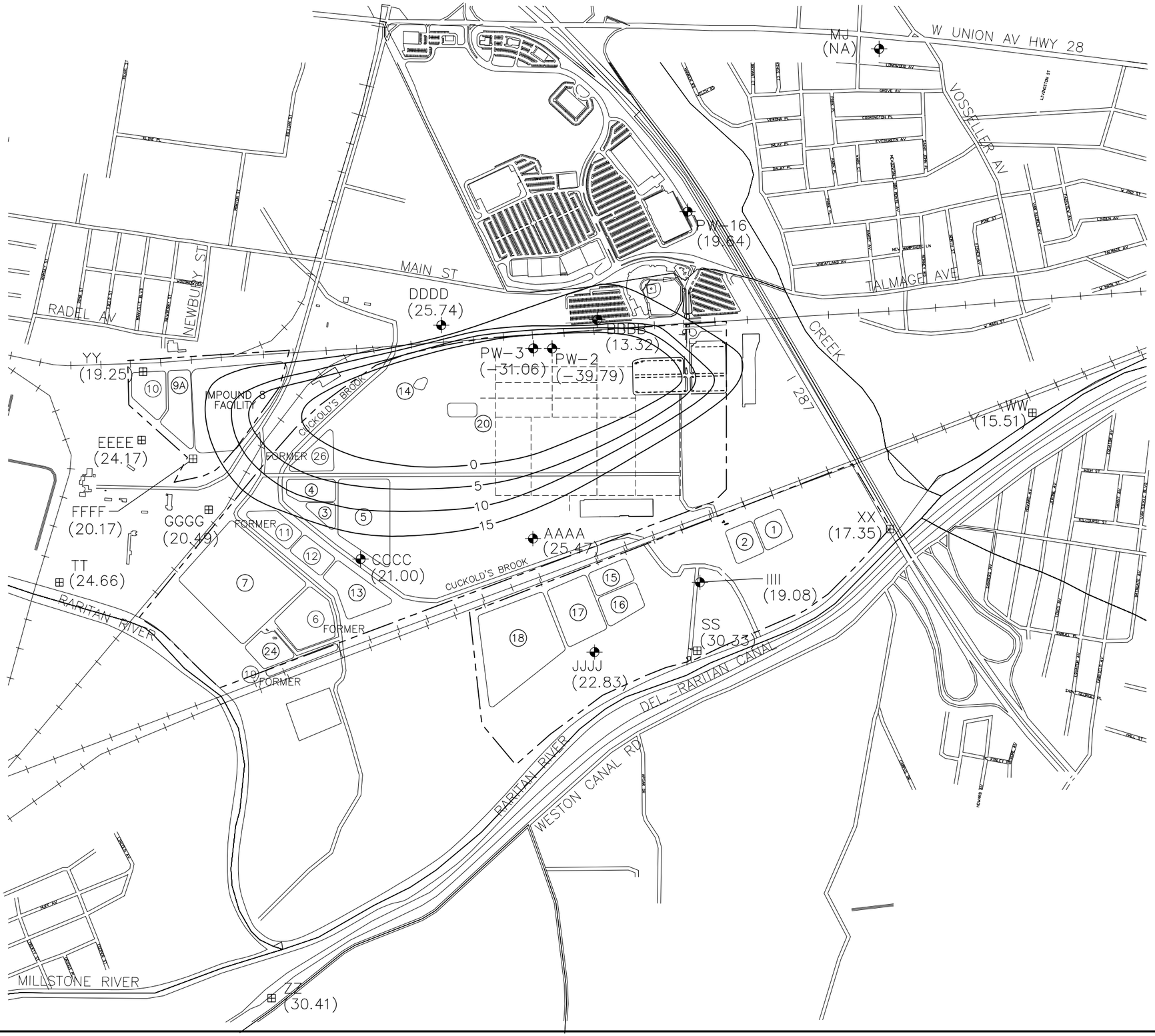
5. Has the ground water flow direction changed more than 45° from the previous ground water contour map? Yes ☐ No ☒
   If yes, discuss the reasons for the change.

6. Has ground water mounding and / or depressions been identified in the ground water contour map? Yes ☒ No ☐
   Unless the ground water mounds and / or depressions are caused by the ground water remediation system, discuss the reasons for the occurrence.

7. Are all the wells used in the contour map screened in the same water-bearing zone? Yes ☐ No ☒
   If no, justify inclusion of those wells.

8. Were the ground water contours
   ☐ computer generated
   ☐ computer aided, or
   ☒ hand-drawn?
   If computer aided or generated, identify the interpolation method(s) used.

Sep 16, 2008 - 8:25am



LEGEND

- BEDROCK WELL LOCATION
- OPEN BEDROCK WELL RETROFITTED WITH FLUTE LINERS (SEE TABLE 3-3 GROUND WATER ELEVATIONS)
- (1) IMPOUNDMENT DESIGNATION
- (15.43) GROUND WATER ELEVATION
- GROUND WATER CONTOUR (DASHED WHERE INFERRED)

DRAWING NOTES:

1. MAP BASED ON AMERICAN DIGITAL CARTOGRAPHY, INC. TIGER DATA MAP. BOUND BROOK 7.5 MINUTE QUADRANGLE.
2. GROUND WATER ELEVATIONS ARE IN FEET AND REFERENCED TO MEAN SEA LEVEL. (ADD 69.29 FEET FOR SITE DATUM)

NO.	DATE	REVISION	INIT.

WYETH HOLDINGS CORPORATION
MADISON, NEW JERSEY

BOUND BROOK REMEDIAL PROGRAM
TASK 2.10 SITE-WIDE QUARTERLY MONITORING
BEDROCK GROUND WATER
CONTOUR MAP (OCT. 20, 2008)

IN CHARGE OF ANGELO J. CARACCIOLO FILE NO. 5772.40195.038

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FIGURE 3-4

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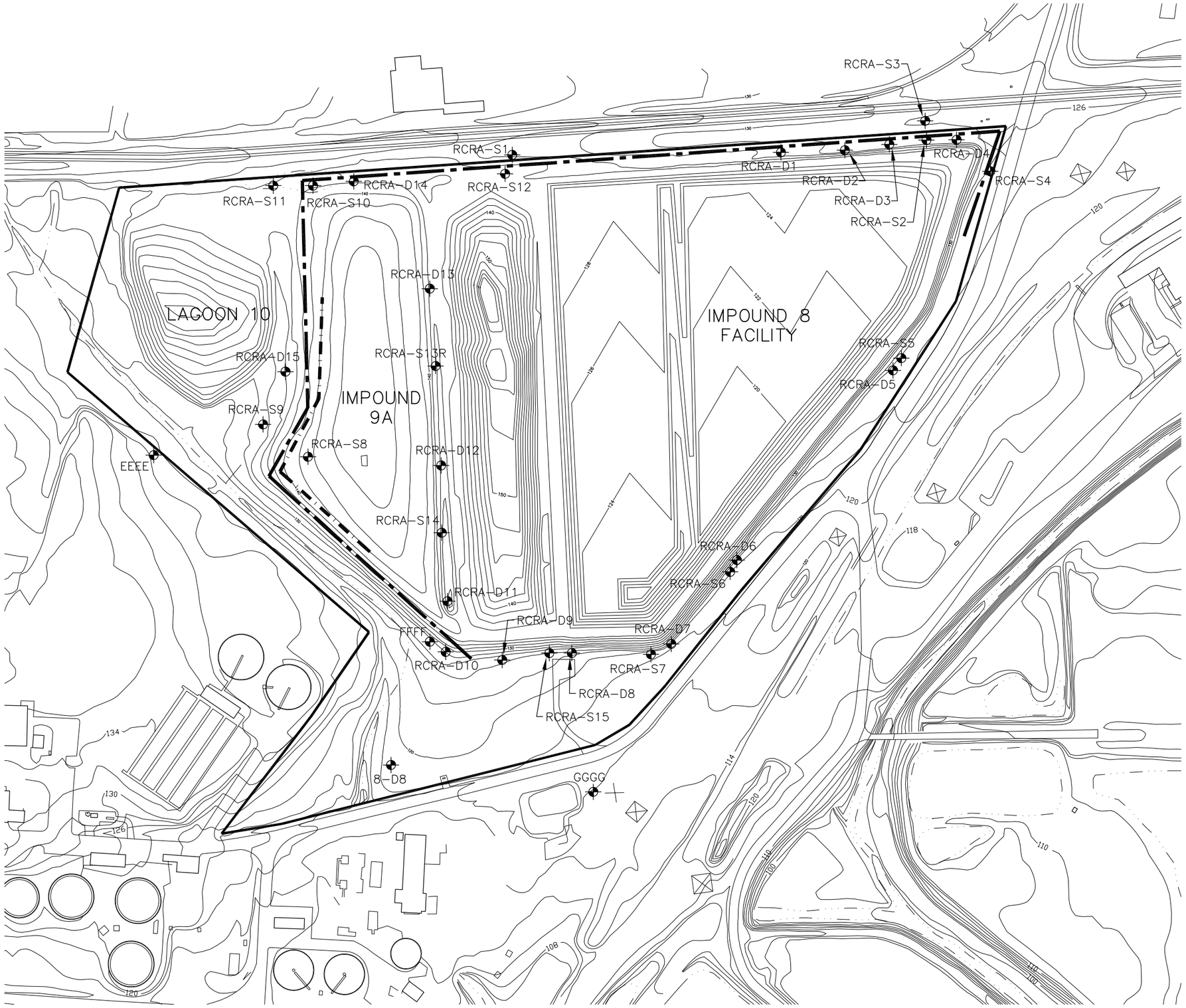

LEGEND

- MONITORING WELL
- GROUND WATER CUT-OFF WALL (APPROX. LOCATION)
- GROUND WATER INTERCEPTOR TRENCH (APPROX. LOCATION)
- PROPERTY LINE
- LEACHATE COLLECTION SYSTEM MANHOLE/DETECTION SYSTEM SUMP

DRAWING NOTES:

1. EXISTING SITE PLAN INFORMATION SHOWN ON THIS DRAWING OBTAINED FROM AUTOCAD BASED FILE PROVIDED BY AMERICAN CYANAMID COMPANY. DRAWING FILE NUMBER 5225A4.DWG.
2. SURFACE ELEVATIONS ARE REFERENCED TO FACILITY DATUM. (FACILITY DATUM BASED ON U.S.G.S PLUS 69.29 FEET)
3. GROUND WATER ELEVATIONS ARE IN FEET AND REFERENCED TO MEAN SEA LEVEL. (ADD 69.29 FEET FOR SITE DATUM)

NO.	DATE	REVISION	INIT.

WYETH HOLDINGS CORPORATION
MADISON, NEW JERSEY

BOUND BROOK REMEDIAL PROGRAM
TASK 2.10 SITE-WIDE QUARTERLY MONITORING
IMP. 8 MONITORING WELL
LOCATION PLAN

IN CHARGE OF ANGELO J. CARACCIOLO FILE NO. 5772.42037.001

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FIGURE 4-1

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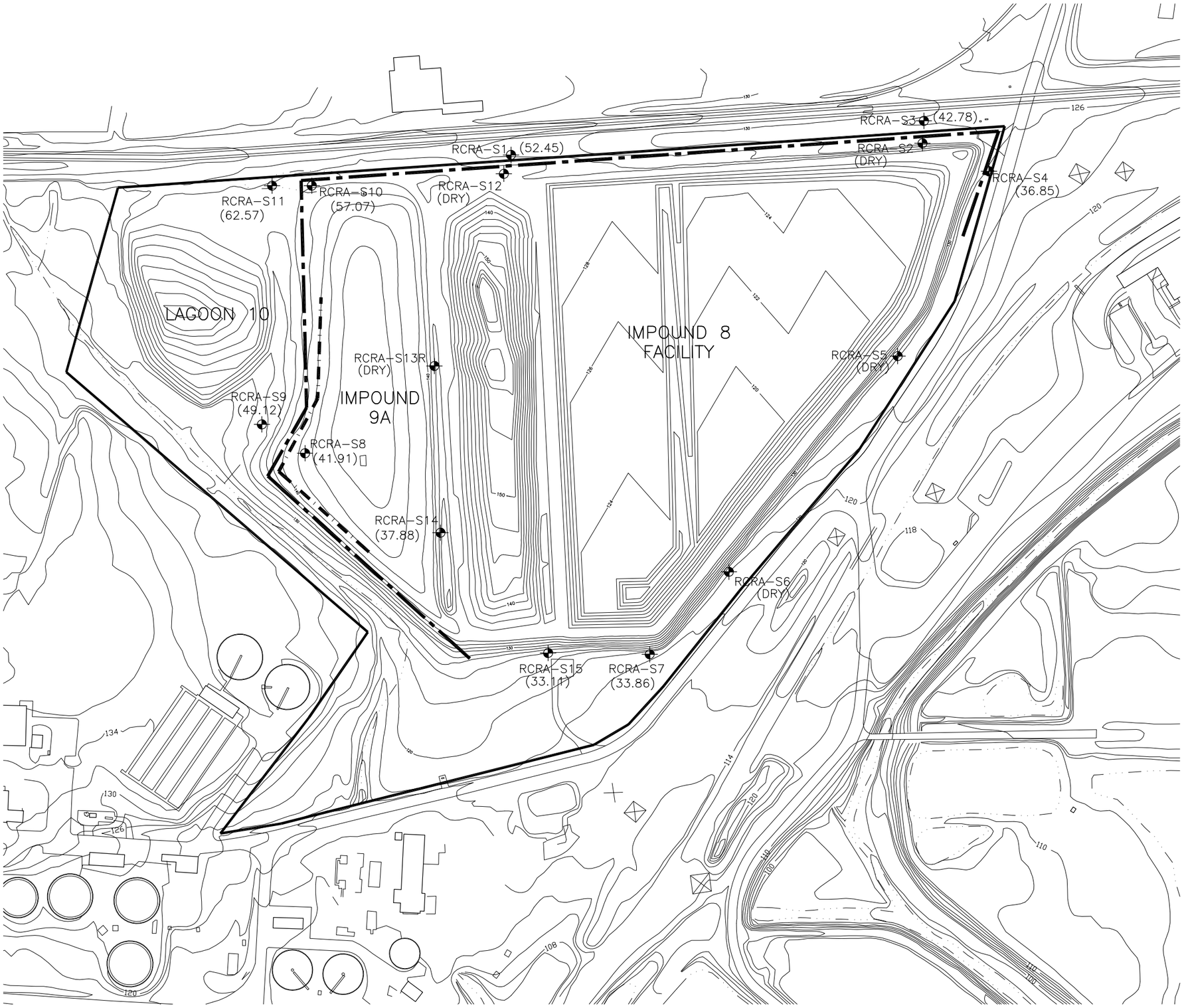

LEGEND

(36.83)	GROUND WATER ELEVATION (ft.)
⊕	MONITORING WELL LOCATION
—·—·—	GROUND WATER CUT-OFF WALL (APPROX. LOCATION)
—·—·—	GROUND WATER INTERCEPTOR TRENCH (APPROX. LOCATION)
———	PROPERTY LINE
—··—	LIMITS OF WATER

DRAWING NOTES:

1. EXISTING SITE PLAN INFORMATION SHOWN ON THIS DRAWING OBTAINED FROM AUTOCAD BASED FILE PROVIDED BY AMERICAN CYANAMID COMPANY. DRAWING FILE NUMBER 5225A4.DWG.
2. SURFACE ELEVATIONS ARE REFERENCED TO FACILITY DATUM. (FACILITY DATUM BASED ON U.S.G.S. PLUS 69.29 FEET)
3. GROUND WATER ELEVATIONS ARE IN FEET AND REFERENCED TO MEAN SEA LEVEL. (ADD 69.29 FEET FOR SITE DATUM)

NO.	DATE	REVISION	INIT.

WYETH HOLDINGS CORPORATION
MADISON, NEW JERSEY

BOUND BROOK REMEDIAL PROGRAM
TASK 2.10 SITE-WIDE QUARTERLY MONITORING
IMP. 8 OVERBURDEN GROUND WATER ELEVATION PLAN (OCT. 20, 2008)

IN CHARGE OF ANGELO J. CARACCIOLO FILE NO. 5772.42037.009

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FIGURE 4-2

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Contour Map Reporting Form

Figure 4-3: Impound 8 Quarterly Monitoring Shallow Bedrock Wells Ground Water Contour Map (October 20, 2008)

This reporting form shall accompany each ground water contour map submittal. Use additional sheets as necessary.

1. Did any surveyed well casing elevations change from the previous sampling event? Yes ☐ No ☒
   If yes, attach new "Well Certification-Form B" and identify the reason for the elevation change (damage to casing, installation of recovery system in monitoring well, etc...)

2. Are there any monitoring wells in unconfined aquifers in which the water table elevation is higher than the top of the well screen? Yes ☐ No ☒
   If yes, identify these wells.

3. Are there any monitoring wells present at the site but omitted from the contour map? Yes ☐ No ☒
   Unless the omission of the well(s) has been previously approved by the Department, justify the omissions.

4. Are there any monitoring wells containing separate phase product during this measuring event? Yes ☐ No ☒
   Were any of the monitoring wells with separate phase product included in the ground water contour map?
   If yes, show the formula used to correct the water table elevation.

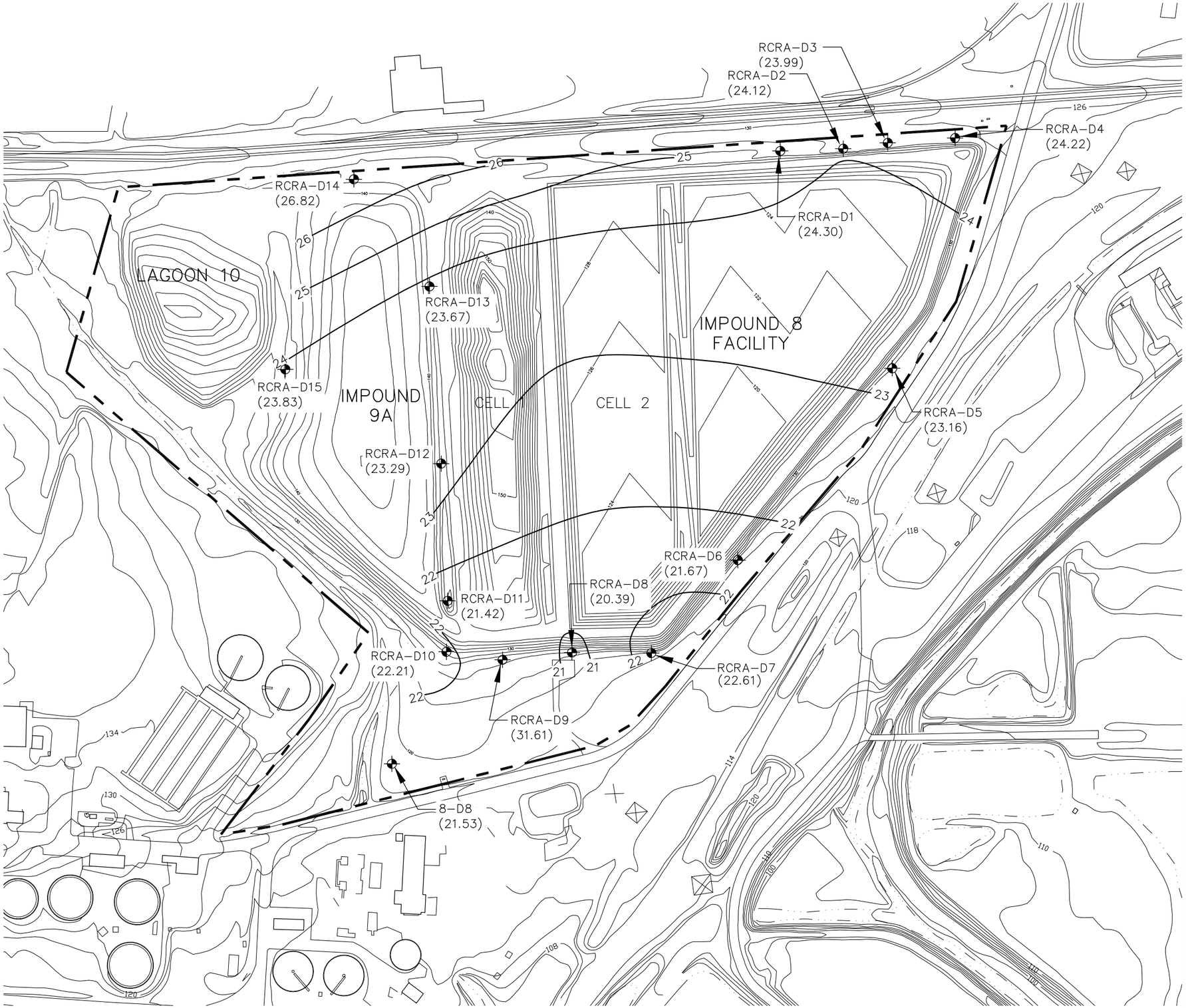
5. Has the ground water flow direction changed more than 45° from the previous ground water contour map? Yes ☐ No ☒
   If yes, discuss the reasons for the change.

6. Has ground water mounding and / or depressions been identified in the ground water contour map? Yes ☐ No ☒
   Unless the ground water mounds and / or depressions are caused by the ground water remediation system, discuss the reasons for the occurrence.

7. Are all the wells used in the contour map screened in the same water-bearing zone? Yes ☐ No ☒
   If no, justify inclusion of those wells.

8. Were the ground water contours
   ☐ computer generated
   ☐ computer aided, or
   ☒ hand-drawn?
   If computer aided or generated, identify the interpolation method(s) used.

Feb 04, 2009 - 3:57pm



LEGEND

SHALLOW BEDROCK WELL

GROUND WATER CONTOUR (DASHED WHERE INFERRED)

GROUND WATER ELEVATION

PROPERTY LINE

DRAWING NOTES:

1. EXISTING SITE PLAN INFORMATION SHOWN ON THIS DRAWING OBTAINED FROM AUTOCAD BASED FILE PROVIDED BY AMERICAN CYANAMID COMPANY. DRAWING FILE NUMBER 5225A4.DWG.
2. SURFACE ELEVATIONS ARE REFERENCED TO FACILITY DATUM. (FACILITY DATUM BASED ON U.S.G.S. PLUS 69.29 FEET)
3. GROUND WATER ELEVATIONS ARE IN FEET AND REFERENCED TO MEAN SEA LEVEL. (ADD 69.29 FEET FOR SITE DATUM)
4. GROUND WATER ELEVATION RCRA-D9 IS PROVIDED BUT WAS NOT USED TO PRODUCE CONTOURS.

NO.	DATE	REVISION	INIT.

WYETH HOLDINGS CORPORATION
MADISON, NEW JERSEY

BOUND BROOK REMEDIAL PROGRAM
TASK 2.10 IMP. 8 QUARTERLY MONITORING
IMP. 8 SHAL. BEDROCK WELL GROUND WATER ELEV. MAP (OCT. 20, 2008)

IN CHARGE OF ANGELO J. CARACCIOLO FILE NO. 5772.40195.040

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200 0 200

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DATE: 01/30/09

FIGURE 4-3

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APPENDICES

Appendix A

Procedures

FLUTe® Procedures

MANUAL WATER LEVEL MEASUREMENT PROCEDURE

Manual water level measurements will be collected from monitoring wells and Water FLUTe installations, not equipped with dedicated pressure transducers, in accordance with the procedures called out below.

Procedures Applicable to Water Level Data Collection at all Locations

- A new pair of latex gloves will be donned.
- The electronic water level probe will lowered into the casing/tube until the meter indicates water is reached (audible alarm).
- The probe will be raised above the water level and slowly lowered again until water is indicated.
- The cable will be held at the point designated for water level measurements (top of casing reference point) and a depth reading taken.
- This procedure will be followed three times or until a consistent value is obtained.
- The value will be recorded to the nearest 0.01 feet in a field notebook.
- The time of the measurement and the reference point will be recorded in a field notebook.
- The probe will be raised to the surface and, together with the amount of cable that was wetted in the well, will be decontaminated as follows:

1. Wiped dry with paper towel.
2. Rinsed with potable water and laboratory detergent.
3. Rinsed with distilled/deionized water.

Procedures Specific to Water Level Data Collection at Water FLUTe Installations

Due to the check valve in the pumping system, the water level in the ½" tube may be higher than the actual head in the formation if the system has not been purged. As such, head measurements must be made after purging the pump system. Each sampling port must therefore be purged prior to water level collection in accordance with the following procedure:

- Connect the compressed nitrogen tank to the quick connect fitting on the ½ inch diameter side of the pump tube.
- Open the valve on the nitrogen tank and adjust the pressure (typically on the order of 100 psi.) to the manufacturers recommended pressure for purging at the installation of interest. Note: All sample ports may be purged simultaneously using a header assembly available through FLUTe.

- Purge the pump tube until the nitrogen gas is discharging from the sampling side of the pump tube (small side of the tube).

- Release the nitrogen tank pressure and disconnect from the quick connect fitting.

- Using a "slime-line" water level meter (probe must be less than 3/8 inch diameter), pass the probe through the quick connect fitting and down the ½ inch diameter tube. (Water level meters suitable for this purpose can be obtained from Herron Instruments).

- Continue measurements until the water level has stopped rising. Record the final measurement. (This typically takes 7 to 8 minutes depending on the hydraulic conductivity of the formation).

Notes: The above procedure is suitable for depths to water of less than approximately 150 feet below the measuring point. For water tables greater than this depth, pressure transducers are required. The water level meter must not have weights below the measuring point as the weight will displace the water in the tube and provide an inaccurate measurement. Additional sampling and purging information may be found at http://www.flut.com/

FLUTe™ Flexible Liner Underground Technologies, Ltd. L.C.
For a medley of innovative designs
6 Easy St., Santa Fe, NM 87504
505-455-1300, www.flut.com

Sampling guidelines for *Water FLUTe* systems

(valve tubing pumping system) rev. 2/23/04

Water flow

Water flows from the formation into the spacer pore space, into the port, and fills the tubing. The first tube filled is the "port tube" volume that flows into the U tube. The U tube consists of the "large tube volume" and the "sampling tube volume" (see the attached drawing).

Purging

Water is pumped from the tubing by applying a gas pressure to the interface at the static water level in the large tube. The water is driven down in the large tube and up through the second check valve to the surface via the sampling tube. By driving the water with a sufficient gas pressure to drive all of the water in the large tube and the sampling tube to the surface (the "recommended purge pressure"), the water in the U tube is nearly all expelled. The purge stroke is complete when gas is expelled following the water flow. The pressure in the system must then be vented, to allow the U tube to refill by flow via the port tube. The flow from the port tube consists of the port tube water, the water in the pore space of the spacer, and water from the medium. Because of the relatively large volume in the large tube, most of the recharge is from the medium. The recharge will take about as long as the first purge stroke. However, a tight medium will require more time.

Purging the U tube a second time will remove any of the water that has resided in the spacer and port tube volume. That is highly recommended, since the water resident in the tubing and spacer is probably not typical of the formation water. If the refill has been prompt, the second purge water volume will be similar to the first stroke. If in doubt, or if in a sedimentary formation or screened well, a third purge stroke is recommended to remove water that may have been in long contact with the liner or spacer.

Sampling

The sampling flow is best driven on the third (or fourth) cycle by a pressure less than that needed to drive air through the bottom of the U tube. The pressure recommended is that which will drive the water to near, but not out of, the bottom of the large tube. That recommended pressure, "the sampling pressure," is calculated in the spreadsheet provided with each system.

The first flow of the sampling cycle sweeps along droplets of water left in the tubing from the purge cycle. That residual water is depleted of volatile components. Tests have shown that the first tube volume of the sample flow should be discarded as depleted in volatiles (the sample tube volume is also calculated in the spreadsheet). Thereafter, the samples can be collected from the tube outflow. The volume to be discarded is shown in the spreadsheet as "wetted vol. sam. tube". The sample water flow rate will slow and finally stop. That occurs as the water column being driven approaches the applied pressure. The typical sampling pressure drives to within 20 ft. of the bottom of the pump tube (the U).

This procedure should provide an ample sample of good quality drawn directly from the formation.

Caution: If the pumping system refills very slowly, there may not be sufficient water in the pump to fill the "sample tube" to the surface when the stroke is performed. In that case, there will be spitting of gas from the sample water and it will be followed by a flow of gas only. The sample water should never show "spitting" and the stroke should never end with gas flow from the sample tube. The proper sample flow will slow until it stops flowing. Should this evidence of insufficient recharge be observed, allow the pump to refill for a longer time. One can tag the water level in the large tube, as described in the head measurement procedure, to assure that the pumping system has been sufficient refilled.

Measuring the head in the system

The water level in the large tubes may not be the current water level. After sampling, if there is any leakage of the second check valve (sand in the tube, etc…) the water in the sample tube can backflow into the larger tube, adding to the water that fills the large tube during the recharge. Also, if the water level in the formation is dropping between head measurements, the water level in the large tube will not follow the descent if the first check valve is a good seal. For these two reasons, and for the freezing concern below, it is

best to finish the sampling stroke by raising the pressure to the purge pressure value to purge the pumping system of all water. Then upon refilling, the level is the current head for each port. If head measurements are made between sampling events, each port's pumping system should be first be purged to allow the tubing to refill to the current head value.

Note, an access tube is provided for tagging the water level in the interior of the liner. The liner water level should be maintained at the proper level (typically 10 ft above the water table, except for more shallow water tables) to assure that the liner is providing a good seal. If the level is less than that desired, add a small amount of water to raise the level. Be aware that for deep water tables, it may take up to 5 minutes for the water level to equilibrate after an addition. Do not overfill the liner. Estimate the correct addition based upon the hole diameter.

If the water might freeze in the sampling tubing near the surface, purge the entire volume of water from each sampling line, after sampling, before leaving it. Use the recommended purge pressure to remove all water, not the sampling pressure. **Each line should be blowing air/N2 when the purge is complete.** If the lines were purged after sampling for head measurements, that is sufficient.

If the Water FLUTe uses PVDF tubing, the purge of the entire system after sampling should not be neglected, even if head measurements are not to be made. This removes the water column in the sampling tube. For deep water tables, the long term pressure of the standing water in the sampling tube might lead to excessive creep of the tubing which is susceptible to "cold flow", a characteristic of Teflon like materials. (This is not a concern except for very deep water tables (>300 ft).

In most cases, the performance of a final purge of the system after sampling is useful, even if not essential.

Simultaneous purge and sampling of all tubes

The FLUTe pumping system for each port is essentially identical in length, pump volume and elevation in the hole. This allows all ports to be purged and sampled simultaneously for a great saving in sampling time. The only difference for simultaneous sampling is that the pressure source must

include a tube to each port fitting at the wellhead. The recommended purge and sample pressures are the same as used for single port sampling.

In some cases, the buoyancy of the sampling system is so great when emptied of water during the simultaneous purge that the tubing bundle can cause the liner to invert. The sampling volume spreadsheet provided with the liner notes whether the system can be purged simultaneously. This is only a problem for smaller hole diameters, many ports, and a small excess head in the liner. However, increasing the excess head in the liner to overcome the buoyancy of the tubing can be a hazard to the liner.

A short summary is provided as the following checklist:

Check List

1. Connect the gas driver source to the gas drive tube on the large tube. Set the regulator to the recommended purge pressure.
2. Expel the tube water at the suggested purge pressure. Collect the purged water volume for verification of a good purge. Note the water flow time of the purge stroke.
3. Allow the tubing to refill. Repeat the purge. Collect the purge volume to assure the amount removed is at least the "port tube volume". Was the refill long enough?
4. Purge a third time, if desired.
5. Allow the tubing to refill for the sample stroke.
6. Reduce the driving pressure to the "sampling pressure". Apply the pressure and collect the first flow to measure the discard volume. Discard that water.
7. Reduce the pressure, if needed, to slow the flow and collect the samples.
8. Perform a final purge of the water out of the sampling lines by raising the driving pressure to the purge pressure value.
9. When the sampling system has refilled, tag the water level, if desired, for the current water table. If a port system is refilling very slowly, tag it at a later time.

See the spreadsheet provided with each *Water FLUTe* for the recommended purge and sampling pressures. Those are the pressures that can be used for

a simultaneous purge of the several ports, but be sure that the buoyancy of the tubing will not lift the tubing, and the wellhead. The spreadsheet flags the condition where all ports should not be purged simultaneously. In most cases, several of the ports can be purged simultaneously.

Optimum sampling procedure:
Since it is often desirable to minimize the amount of time that the sample water resides in the pumping tubing, it is useful to note the actual time that is required for the recharge of the system. Since the fill rate slows dramatically for the last portion of the recharge, it is not necessary to wait for a complete refill. For most formations, the recharge is dominated by the tubing pressure drop. In that case, the time required for the purge stroke to be completed is about the same time required for the refill. (The exception is for a tight formation that recharges the tubing very slowly.) Hence the second purge can be started after waiting the same length of time as the first purge endured. If the second purge is of a similar volume (usually somewhat less) than the first purge volume, the refill time was long enough. After the same delay, the sampling stroke can be initiated. This timing of the strokes allows one to reduce the retention time in the pumping system. For very large sample volumes produced, the refill time can be shortened even more, as long as the sample volume is adequate after the discard of the first flow.

In some situations, the retention time is still too long. FLUTe can often increase the sample tube and port tube diameters for greater flow rates. However, the standard design is well matched for to a wide range of hole diameters, depths, and water table elevations. For very deep wells, the tubing may need to be of higher pressure capacity for the required driving pressures. For water table depths below 700 ft., this may be a concern. In some situations, the use of more expensive fluoropolymer (e.g. PVDF) tubing is warranted to minimize interaction with very low levels of contamination. The normal FLUTe tubing used until June, 2002 was Nylon 11 for its qualities of strength, relatively low contaminant absorption(compared to polyethylene), cost, and elasticity. Nylon 11 does leach butyl benzene sulphonamide in ppb levels. This does not interfere with most contaminant evaluations, in particular the chlorinated solvents and volatile organics. It can be mistaken for HE contamination if not measured carefully. FLUTe initiated a design change to all PVDF tubing in the Water FLUTe systems in 2002 to avoid any concern about tubing interaction with

the sample water. However, the prescribed purge is sufficient for the use of Nylon tubing systems.

Questions: Call 888-333-2433 and ask for Carl Keller, or a field engineer.

Geometry of sampling system for each port

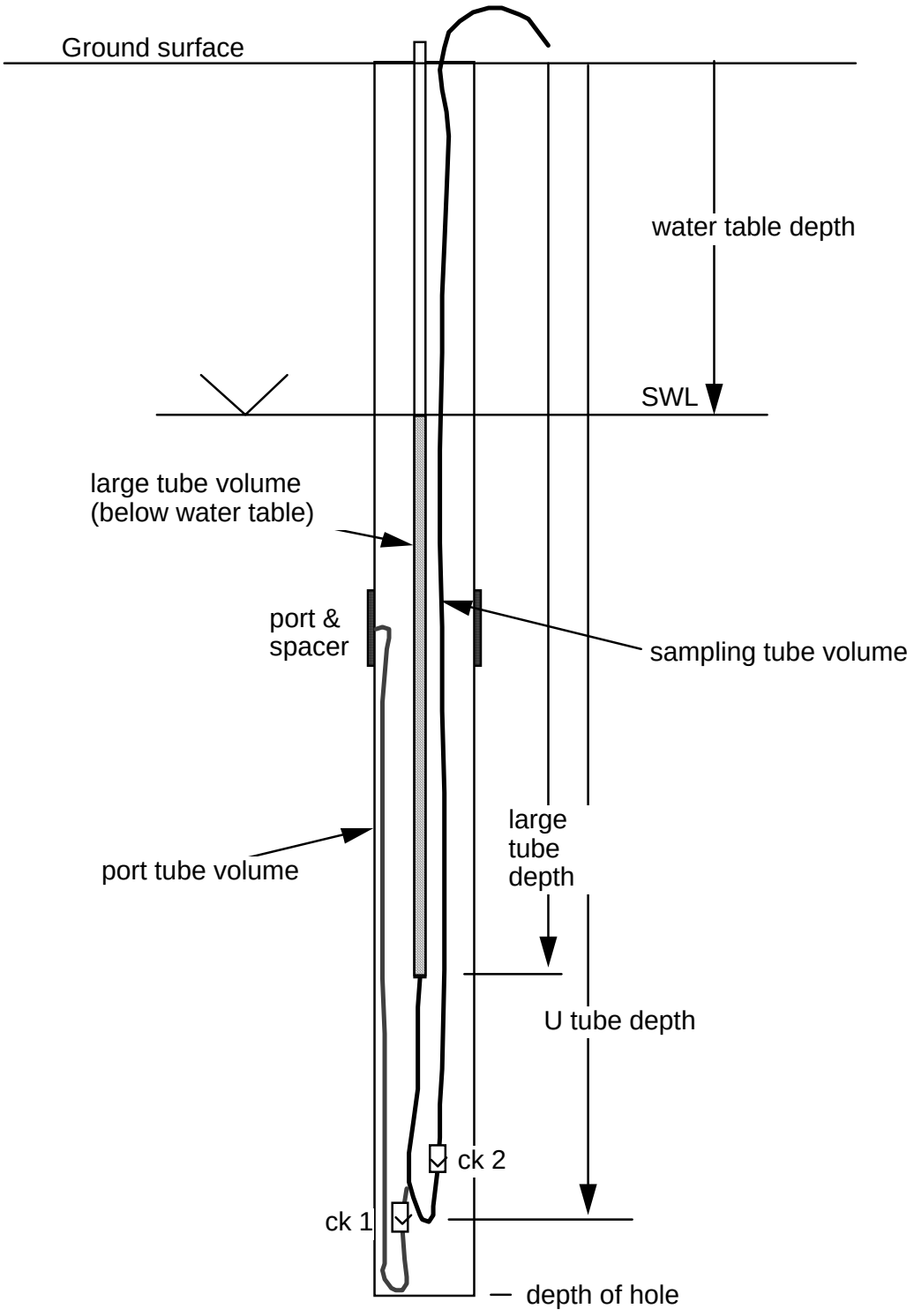


Fig. 1.. Water FLUTe valved tubing pumping system (Recharge flow)

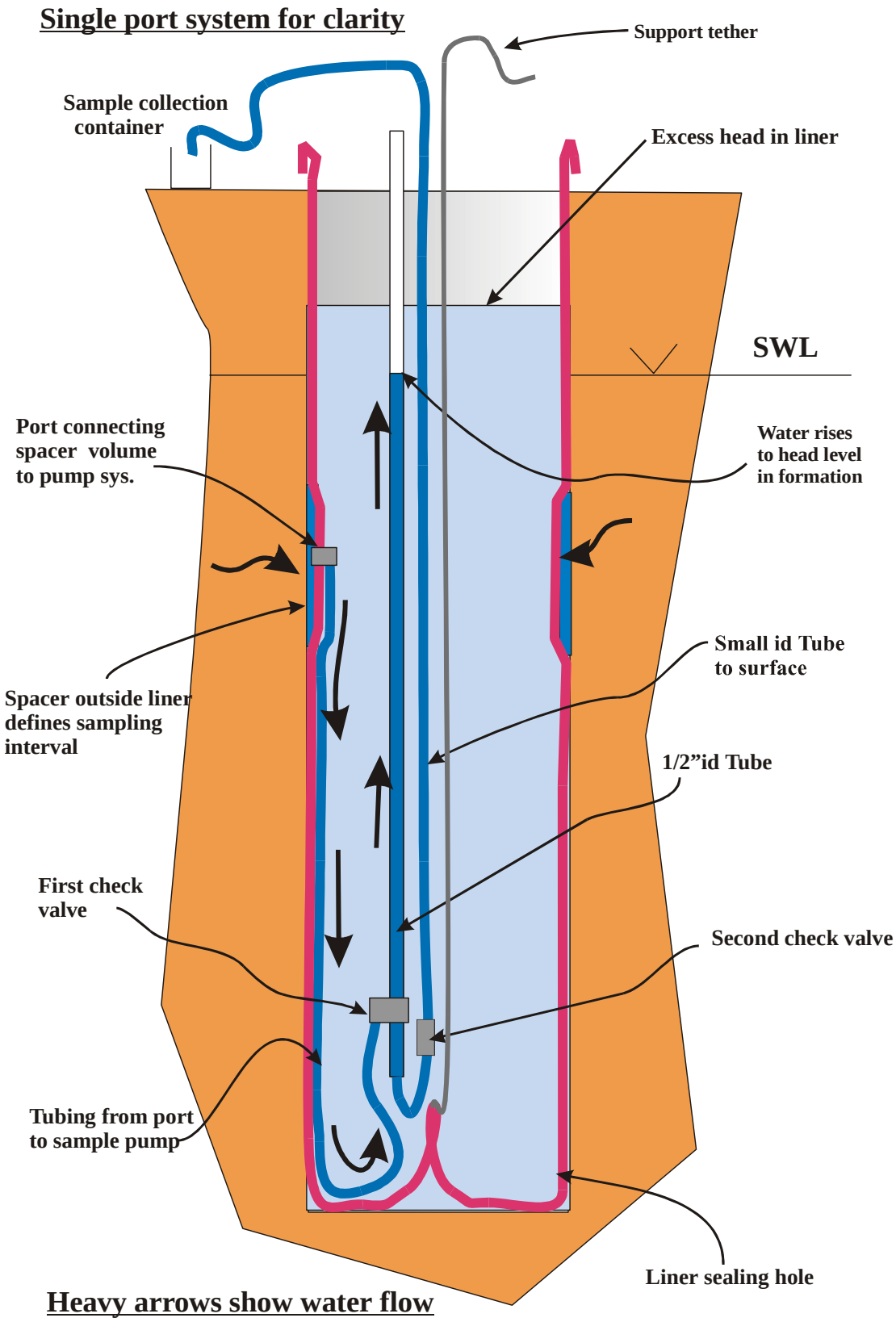
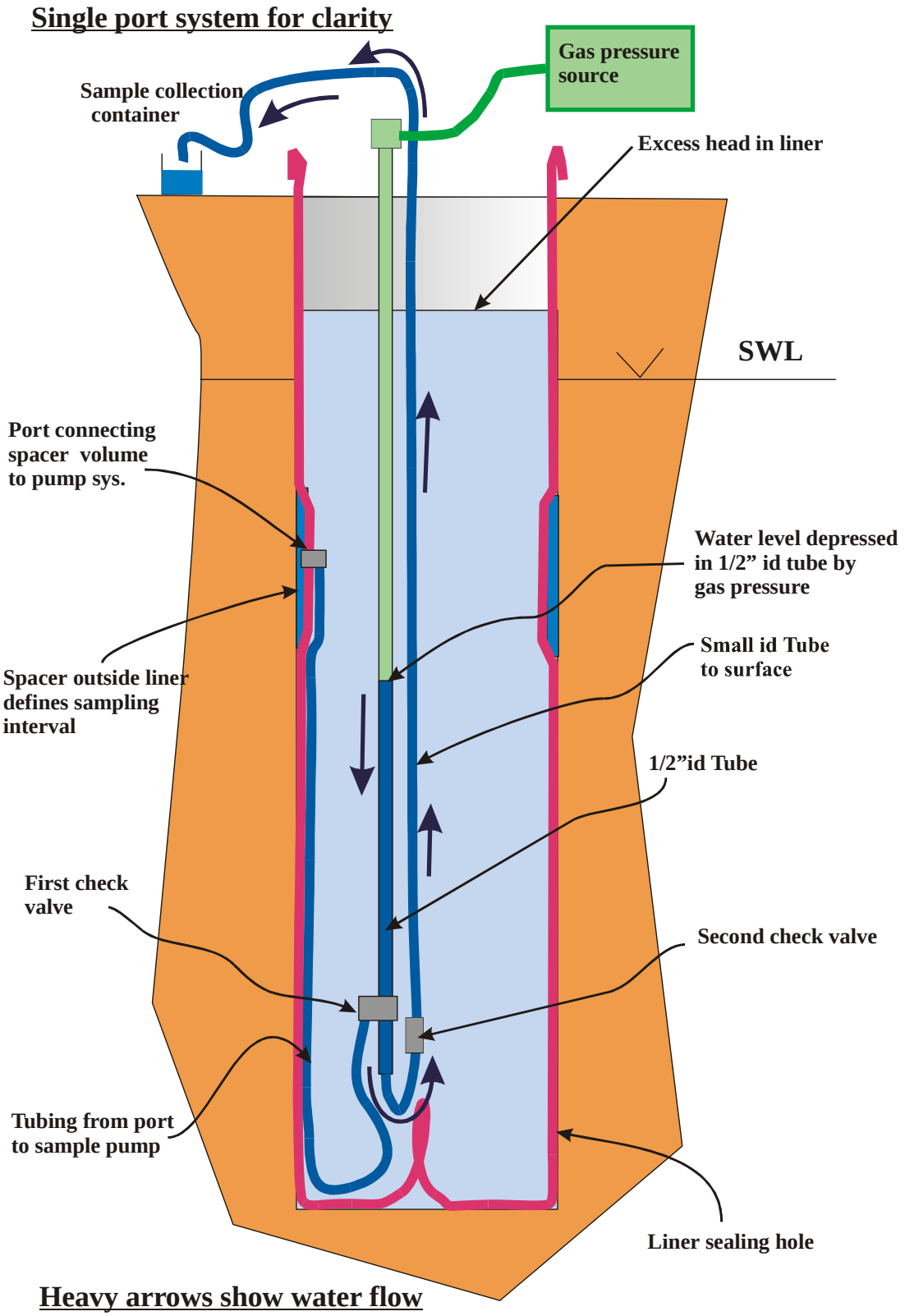


Fig. 2. Water FLUTe Pump Stroke



WATER FLUTe CONSTRUCTION, PURGE VOLUMES AND SAMPLING GUIDELINES

Well	FLUTe Filling Liquid	Depth# to liquid inside FLUTe [ft]	Depth to FLUTe collar [ft]	Port 1			Port 2			Port 3			Port 4		
				Volume [Gal] Per stroke	Volume [Gal] Total	Recovery time* [min]	Volume [Gal] Per stroke	Volume [Gal] Total	Recovery time* [min]	Volume [Gal] Per stroke	Volume [Gal] Total	Recovery time* [min]	Volume [Gal] Per stroke	Volume [Gal] Total	Recovery time* [min]
EEEE	Water														
FFFF	Water														
GGGG	Bentonite														
SS	Barite/Bentonite														
TT	Water														
WW	*Barite/Bentonite*														
XX	Barite/Bentonite														
YY	Bentonite														
ZZ	Barite/Bentonite														
MP03-MP1	Barite/Bentonite														
MW05-MP1	Barite/Bentonite														
MP11-MP1	Barite/Bentonite														

Measured with a conventional water level indicator, by introducing the probe into the 6" FLUTe liner. All depths referred to TOC marker.

*Time required for water level to recover to 20' (or less) below the static water level.

SAMPLING GUIDELINES:

A. It takes 400 ft^3 of N_2 (5 small bottles, 80 ft^3 ea (recommended) or 2 "T" bottles (300 ft^3 ea)) for each sampling event at the 12 FLUTe wells.

B. Each port must be purged two times before sampling. Except port 3 at Well XX , which must be purged just once.

C.The pressure for the purge strokes is 110 psi; the sampling stroke is 75 psi. Each stroke takes between 6 and 10 minutes.

D.It takes about two hours to purge and sample each well following these steps:

1. Set and secure the end of sampling line (1/8") for each port into a plastic container to keep track of the purge volume.
2. Connect the manifold to the N2 tank and to each of the port's pressurization lines (1/2" quick-disconnect fittings). Make sure fittings click together.
3. Close the 5 one-way valves in the manifold and set the three-way valve to allow flow from the tank to the ports.
4.Open the N2 tank valve and set the regulator to 110 psi. Always keep away from the well head when the N2 tank valve is open; if any accidental blow occurs, close the N2 tank valve before doing anything else.
5. Purge all the ports at the same time, by opening the one-way valves of the lines connected to the ports, and waiting until N2 starts to blow from all the sampling lines. At this time, bleed the N2 from the ports by setting the three-way valve to the position open to the atmosphere, which makes a distinctive gas-flow sound. No other valve needs to be adjusted.
6.Complete the second purge after the longest recovery time at any port (as stated in the table above) has been reached. Reset the three-way valve to allow N2 flow from the tank to the ports, and wait until N2 starts to blow from all the sampling lines.
7.Close all the one-way valves. Reduce the regulator pressure to 75 psi; you will need to bleed some N2 by briefly opening the three-way valve to the atmosphere.
8. Sequentially sample each port, by opening the corresponding one-way valve, discarding the first 1/2 Gal pumped, and starting with any filtered sample (to avoid blowing off the filter with N2 in the event that you run short of water from the port.)
9. After sampling is completed, close the N2 tank valve, open all the one-way valves, and bleed the N2 still remaining in the ports, by setting the three- way valve to the atmosphere.
10. Wait until the N2 has bled off; then disconnect the manifold from the well.
11. Wells TT and XX are exceptions to the above procedure. Both should not be scheduled to be sampled the same day. Both should be scheduled for purging first thing in the morning. The first purge stroke is the same as the other wells. After 15 minutes, P1 and P2 must be purged again. After 15 more minutes, P1 and P2 can be sampled. Then, move to sample another well, and return to well TT 1.5 hours later to purge P3 for the second time; move to another well again and return to well TT after other 1.5 hours to sample P3. For well XX, P3 must be sampled 7 hours after the (first and only) purging stroke.

Passive Diffusion Bag Procedures

Sampling and Analysis Plan Addendum
Bound Brook Facility
Wyeth Holdings Corporation

This document serves as an addendum to the Sampling and Analysis Plan (SAP) (O'Brien & Gere, October 2001) associated with the quarterly site-wide ground water monitoring program at the American Cyanamid Company (Cyanamid) Site in Bound Brook, New Jersey. This addendum provides sampling methods for use when collecting ground water samples for volatile organic compounds (VOCs) using passive diffusion bags (PDBs).

Background

The ground water monitoring program for the Cyanamid site includes site-wide ground water pumping and monitoring of site-wide wells, as well as the ground water monitoring requirements for the Impound 8 Resource Conservation and Recovery Act (RCRA) Facility. Elements of the October 2001 SAP were prepared in accordance with the Administrative Consent Order (ACO) between the American Cyanamid Company (Cyanamid) and the New Jersey Department of Environmental Protection (NJDEP), as amended in May 1994 (ACO Amendment). Wyeth Holdings Corporation (Wyeth) is now responsible for overseeing the monitoring program.

An element of the October 2001 SAP consisted of a description of monitoring well purging and sampling methods. One of the methods described included of the use of a peristaltic pump to purge and sample ground water from the following shallow overburden monitoring wells:

Impoundment 3, 4, and 5 wells: MW-2, MW-3, MW-5, MW-7, MW-9, and 28R

Impoundment 14 wells: 19R, 21-R, and O-R

Impoundment 17/18 wells (Group II): AAA, CCC-R, EEE-R, III, KKK, and 16 MW-2

Impoundment 19/24 wells: 32R, 34R, 36R, 38R, 41R, 42R, TFP-94-1R, and P24-91-1

During the first and third quarterly sampling events, ground water samples are collected from overburden monitoring wells as summarized on Table 1:

Table 1	Required Analyses				
Well I.D.	VOCs	SVOCs	TAL Metals	Cyanide	Phenols
AAA	X	X	X	X	X
CCC-R	X	X	X	X	X
EEE-R	X	X	X	X	X
16MW-2			X		

During the second and fourth quarterly sampling events, ground water samples are collected from overburden monitoring wells as summarized on Table 2:

Table 2	Required Analyses									
Well I.D.	VOCs	SVOCs	TAL Metals	Chlorides	Cyanide	Phenols	Arsenic	Cadmium	Chromium	Alpha & Beta, Radium 226 & 228
19-R	X	X								
21-R	X									
O-R	X									
AAA	X	X	X	X	X	X				
CCC-R	X	X	X	X	X	X				X
EEE-R	X	X	X	X	X	X				X
III	X	X	X	X						
KKK	X	X	X	X						X
16MW-2			X							
28R	X	X								
MW-2	X	X		X			X	X		
32R	X						X	X		
34R	X	X					X			
38R	X	X		X			X	X	X	
42R	X	X					X			
TFP-94-1R	X	X					X			

A comment regarding the use of peristaltic purge and sample methods to sample the overburden monitoring wells was received from NJDEP regarding the Fourth Quarter Ground Water Monitoring Report (O'Brien & Gere, January 2005). Specifically, the NJDEP comment indicated that the peristaltic purge method may result in significant loss of volatile organic compounds from samples before the analysis and that submersible purge method or any other comparable method shall be used.

In response to the NJDEP comment, Wyeth proposed the use of PDBs when collecting VOCs from the overburden monitoring wells to minimize the potential for loss of VOCs, and using peristaltic purge and sample methods for the remaining parameters. The sequence of sample collection from the overburden monitoring wells is described below.

Sequencing of sample collection from overburden monitoring wells

Step 1: Measure depth to water and record on the ground water sampling log and field logbook.

Step 2: Retrieve the PDB sampler and fill the appropriate sample containers for VOCs.

Step 3: Attach the peristaltic pump to the dedicated well tubing and proceed with purging and sampling in accordance with the SAP for the collection of required analytical parameters other than VOCs.

Step 4: When finished with sample collection, attach a new PDB sampler to the dedicated holder and reinstall in the well.

Step 5: Secure the well head.

The following describes the PDB installation and retrieval, and sample collection methods to be used when collecting VOCs from the overburden monitoring wells.

PDB installation and retrieval, and sample collection

Passive-Diffusion Bag Sampler Installation

Step 1: Don appropriate personal protective equipment (as required by the Health and Safety Plan).

Step 2: Place plastic sheeting around the well (optional, based on field conditions at the time of sampling).

Step 3: Clean the non-disposable, down-hole monitoring equipment (e.g., water-level probe).

Step 4: Measure and record the depth to water in the well on the ground water sampling log and in the field logbook. Check to make sure there is sufficient water column within the well so that the PDB will be fully submerged.

Step 5: Remove the PDB sampler from the shipping container.

Step 6: Attach the PDB sampler to the line of the well-specific passive bag harness using the stainless-steel snap hooks.

Step 7: Slowly lower the PDB sampler down the well and attach the harness to the top of the well using an S-hook. Check that the bottom stainless-steel weight just reaches the bottom of the well indicating that the sampler is properly positioned in the screened interval. The passive bag sampler will generally be placed at the midpoint of the saturated portion of the screened interval of the well. Table 3 provides a summary of the overburden well depths, screen lengths, and installation depths at which the PDBs should be placed within each well.

Table 3

Well I.D.	Well Depth (ft BTOC)	Screen Length (ft)	Installation Height of Top of PDB Above Bottom of Well (ft)
Impoundment 3, 4, & 5			
28R	18.1	5	3.5
MW-2	21.4	15	8.5
Impoundment 14			
19-R	11.9	5	3.5
21-R	22.5	5	3.5
O-R	17.4	5	3.5
Impoundment 15, 16, 17 & 18			
AAA	16.8	5	3.5
CCC-R	26.6	5	3.5
EEE-R	25.1	5	3.5
III	19.8	5	3.5
KKK	28.3	5	3.5
Lagoon 6&7 / Impoundment 19&24			
32R	20.8	5	3.5
34R	27.7	5	3.5
38R	26.7	5	3.5
42R	24.3	5	3.5
TFP-94-1R	20.0	8	5

Note: ft BTOC - feet below top of casing

Step 8: Close and lock the well.

Step 9: Record the date and time of placement of the PDB sampler in the well in the field logbook.

Passive-Diffusion Bag Sampler Retrieval and Sample Collection

Step 1: After the equilibration period, unlock and open the well. Slowly remove the PDB sampler from the monitoring well.

Step 2: Remove the PDB sampler from the stainless-steel snap hook and dry with a clean paper towel. Cut a small hole in the PDB sampler using a decontaminated knife or decontaminated stainless-steel scissors. Pour water from the PDB sampler directly into appropriate laboratory sample container for VOC analysis.

Step 3: Complete the sample label and place sample container in a cooler containing wet ice.

Step 4: Record the date and time of sample collection on the chain of custody and in the field logbook. In addition record in the field log, any pertinent observations of the sample (e.g., physical appearance, the presence of, or lack of, odors, sheens, etc.), and the values of the field indicator parameters, if measured.

Step 5: Attach a new PDB sampler to the dedicated harness and reinstall in the monitoring well after sampling activities are complete. Close and lock the monitoring well.

Appendix B

Field Sampling Logs

Fourth Quarter 2008
Passive Diffusion Bag Specifications and Summary
Wyeth Holdings Corporation
Bound Brook Remediation Program

Well I.D.	Well Depth (ft BTOC)	Screen Length (ft)	Installation Height of Top of PDB Above Bottom of Well (ft)	Quarter Required	Deployment Date	WL Measured	Comment
Impoundment 3, 4, & 5							
28R	17.8	5	3.5	2/4	10/7/2008	3.63	
MW-2	21.1	15	3.3, 9.3	2/4	10/7/2008	8.69	
Impoundment 14							
19-R	11.6	5	3.5	2/4	10/7/2008	4.55	
21-R	22.6	5	3.5	2/4	10/7/2008	18.78	
O-R	17.9	5	3.5	2/4	10/7/2008	5.93	
Impoundment 15, 16, 17 & 18							
AAA	16.8	5	3.5	1/2/3/4	10/7/2008	5.18	
CCC-R	26.5	5	3.5	1/2/3/4	10/7/2008	15.45	
EEE-R	25.1	5	3.5	1/2/3/4	10/7/2008	14.74	2 bags installed
III	19.8	5	3.5	2/4	10/7/2008	3.68	
KKK	28.3	5	3.5	2/4	10/7/2008	13.58	2 bags installed
Lagoon 6&7 / Impoundment 19&24							
32R	20.4	5	3.5	2/4	10/7/2008	8.73	
34R	26.3	5	3.5	2/4	10/7/2008	16.91	
38R	25.6	5	3.5	2/4	10/7/2008	15.57	
42R	24.2	5	3.5	2/4	10/7/2008	13.51	
TFP-94-1R	19.1	8	5	2/4	10/7/2008	6.95	

Note:
ft BTOC - feet below top of casing
Water levels measured day of deployment of PDBs.

New Jersey Department of Environmental Protection
Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former American Cyanamid
2. Location: Bound Brook, NJ
3. Well Designation: KKK
4. Well Permit Number: 25-25029-9

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) 4.3
9. Total Well Depth (fbgs) 24.1
10. Screened interval/open hole (fbgs) 19.1 - 24.1
11. Well Casing: Diameter: 1.5 inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 1.5 inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size NA

14. Date and Time of Deployment Date: 10-7-08 Time: 11:42
15. Depth to Ground Water Depth to ground water at time of deployment 13.58
16. Date and Time of Retrieval Date: 10-24-08 Time: 10:00
17. Depth to Ground Water Depth to ground water at time of ~~deployment~~ 14.73 retrieval
18. Type of Deployment Line Used Diameter: 1/8" Material: 140# SS stranded cable with teflon

19. Material and Mass (oz.) of PDBS Weight Stainless steel 8 oz (stainless steel recommended)
20. Type of PDBS Used
    ☒ Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☐ Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 24 Diameter (in.) 1.25 Filled 220 mL
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☐ Attached to bottom of deployment line and suspended in well
    ☒ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
25.8	25.8		

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 50°F Wind slight ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval Temp. 33.8°F Wind Slight ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Jeff Wilkes / Pete Recchia	OBG
Ramesh Sadavangani	Accutest

New Jersey Department of Environmental Protection
Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former American Cyanamid
2. Location: Bound Brook, NJ
3. Well Designation: EEE-R
4. Well Permit Number: 25-31282-1

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) 2.5
9. Total Well Depth (fbgs) 22.6
10. Screened interval/open hole (fbgs) 17.6 - 22.6
11. Well Casing: Diameter: 4 inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4 inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size NA

14. Date and Time of Deployment Date: 10-7-08 Time: 11:50
15. Depth to Ground Water Depth to ground water at time of deployment 14.74
16. Date and Time of Retrieval Date: 10-21-08 Time: 13:50
17. Depth to Ground Water Depth to ground water at time of ~~deployment~~ 16.46 retrieval
18. Type of Deployment Line Used Diameter: 1/8" Material: 140# SS strandêd cable with teflon

19. Material and Mass (oz.) of PDBS Weight Stainless steel 8 oz (stainless steel recommended)
20. Type of PDBS Used ☒ Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☐ Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 24 Diameter (in.) 1.25 Filled 220 mL
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☐ Attached to bottom of deployment line and suspended in well
    ☒ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
22.6	22.6		

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 50 °F Wind Slight ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval Temp. 51 °F Wind Lt. breeze ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Jeff Wilkes / Pete Recchia	OBG
Ramesh Sadarangani	ACCUTEST

New Jersey Department of Environmental Protection
Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former American Cyanamid
2. Location: Bound Brook, NJ
3. Well Designation: MW-2
4. Well Permit Number: 25-33944-3

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) 3.3
9. Total Well Depth (fbgs) 17.8
10. Screened interval/open hole (fbgs) 2.8 - 17.8
11. Well Casing: Diameter: 4 inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4 inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size NA

14. Date and Time of Deployment Date: 10-7-08 Time: 14:05
15. Depth to Ground Water Depth to ground water at time of deployment 8.69
16. Date and Time of Retrieval Date: 10-24-08 Time: 14:35
17. Depth to Ground Water Depth to ground water at time of ~~deployment~~ 9.29 retrieval
18. Type of Deployment Line Used Diameter: 1/8" Material: 140# SS stranded cable coated with teflon

19. Material and Mass (oz.) of PDBS Weight Stainless steel 8 oz (stainless steel recommended)
20. Type of PDBS Used
    ☒ Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☐ Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 24 Diameter (in.) 1.25 Filled 220 mL
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☐ Attached to bottom of deployment line and suspended in well
    ☒ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
12.8	18.8		

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Note: Two PDBs have been used for sampling the 15 ft screen interval
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 50°F Wind Slight ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval Temp. 56.5°F Wind Still ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Jeff Wilkes / Pete Recchia	OBG
Gary Bisogno	Accutest

New Jersey Department of Environmental Protection
Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former American Cyanamid
2. Location: Bound Brook, NJ
3. Well Designation: III
4. Well Permit Number: 25-25027-2

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) 1.8
9. Total Well Depth (fbgs) 18.0
10. Screened interval/open hole (fbgs) 13.0 - 18.0
11. Well Casing: Diameter: 1.5 inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 1.5 inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size NA

14. Date and Time of Deployment Date: 10-7-08 Time: 11:33
15. Depth to Ground Water Depth to ground water at time of deployment 3.68
16. Date and Time of Retrieval Date: 10-24-08 Time: 10:50
17. Depth to Ground Water Depth to ground water at time of ~~deployment~~ 4.26 retrieval
18. Type of Deployment Line Used Diameter: 1/8" Material: 140# SS stranded cable with teflon

19. Material and Mass (oz.) of PDBS Weight Stainless steel 8 oz. (stainless steel recommended)
20. Type of PDBS Used ☒ Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☐ Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 24 Diameter (in.) 1.25 Filled 220 mL
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☐ Attached to bottom of deployment line and suspended in well
    ☒ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
17.3			

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 50°F Wind slight ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval Temp. 43.8°F Wind STILL ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Jeff Wilkes/ Pete Recchia	OBG
Ramesh Sadarangani	ACCUTEST

New Jersey Department of Environmental Protection
Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former American Cyanamid
2. Location: Bound Brook, NJ
3. Well Designation: AAA
4. Well Permit Number: 25-24942-8

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) 1.7
9. Total Well Depth (fbgs) 15.1
10. Screened interval/open hole (fbgs) 10.1 - 15.1
11. Well Casing: Diameter: 1.5 inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 1.5 inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size NA

14. Date and Time of Deployment Date: 10-7-08 Time: 12:03
15. Depth to Ground Water Depth to ground water at time of deployment 5.18
16. Date and Time of Retrieval Date: 10-24-08 Time: 11:40
17. Depth to Ground Water Depth to ground water at time of ~~deployment~~ 6.00 retrieval
18. Type of Deployment Line Used Diameter: 1/8" Material: 140# SS stranded cable with teflon

19. Material and Mass (oz.) of PDBS Weight Stainless steel 8 oz (stainless steel recommended)
20. Type of PDBS Used
    ☒ Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☐ Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 24 Diameter (in.) 1.25 Filled 220 mL
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☐ Attached to bottom of deployment line and suspended in well
    ☒ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
14.3			

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 50°F Wind slight ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval Temp. _____ Wind _____ ☐ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Jeff Wilkes / Pete Recchia	OBG
Ramesh Sadarangani	Accutest

New Jersey Department of Environmental Protection
Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former American Cyanamid
2. Location: Bound Brook, NJ
3. Well Designation: 42-R
4. Well Permit Number: 25-33066-7

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☐ Stick Up ☒ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) 0.2
9. Total Well Depth (fbgs) 24.4
10. Screened interval/open hole (fbgs) 19.4 - 24.4
11. Well Casing: Diameter: 4-inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4-inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size 0.010 inch

14. Date and Time of Deployment Date: 10-7-08 Time: 11:18
15. Depth to Ground Water Depth to ground water at time of deployment 13.51
16. Date and Time of Retrieval Date: 10-24-08 Time: 11:10
17. Depth to Ground Water Depth to ground water at time of ~~deployment~~ 13.72 retrieval
18. Type of Deployment Line Used Diameter: 1/8" Material: 140# SS stranded cable with teflon

19. Material and Mass (oz.) of PDBS Weight Stainless steel 8 oz (stainless steel recommended)
20. Type of PDBS Used
    ☒ Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☐ Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 24 Diameter (in.) 1.25 Filled 220 mL
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☐ Attached to bottom of deployment line and suspended in well
    ☒ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
21.7			

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 50°F Wind Slight ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval Temp. 42°F Wind Still ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Jeff Wilkes / Pete Recchia	OBG
Gary Bisogno	Accutest

New Jersey Department of Environmental Protection
Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former American Cyanamid
2. Location: Bound Brook, NJ
3. Well Designation: 38-R
4. Well Permit Number: 25-33064-1

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) 1.8
9. Total Well Depth (fbgs) 23.8
10. Screened interval/open hole (fbgs) 18.8 - 23.8
11. Well Casing: Diameter: 4-inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4-inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size 0.010 inch

14. Date and Time of Deployment Date: 10-7-08 Time: 15:55
15. Depth to Ground Water Depth to ground water at time of deployment 15.57
16. Date and Time of Retrieval Date: 10-24-08 Time: 12:30
17. Depth to Ground Water Depth to ground water at time of ~~deployment~~ 16.33 retrieval
18. Type of Deployment Line Used Diameter: 1/8" Material: 140# SS stranded cable with teflon

19. Material and Mass (oz.) of PDBS Weight Stainless steel 8 oz (stainless steel recommended)
20. Type of PDBS Used
    ☒ Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☐ Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 24 Diameter (in.) 1.25 Filled 220 mL
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☐ Attached to bottom of deployment line and suspended in well
    ☒ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
23.1			

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 60°F Wind SLIGHT ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval Temp. 48.7°F Wind STILL ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Jeff Wilkes / Pete Recchia	OBG
Gary Bisogno	ACCUTEST

New Jersey Department of Environmental Protection
Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former American Cyanamid
2. Location: Bound Brook, NJ
3. Well Designation: 28-R
4. Well Permit Number: NA

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) 2.4
9. Total Well Depth (fbgs) 15.4
10. Screened interval/open hole (fbgs) 10.4 - 15.4
11. Well Casing: Diameter: 4-inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4-inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size NA

14. Date and Time of Deployment Date: 10-7-08 Time: 14:19
15. Depth to Ground Water Depth to ground water at time of deployment 3.63
16. Date and Time of Retrieval Date: 10-24-08 Time: 13:40
17. Depth to Ground Water Depth to ground water at time of ~~deployment~~ 4.53 retrieval
18. Type of Deployment Line Used Diameter: 1/8" Material: 140#SS stranded cable with teflon

19. Material and Mass (oz.) of PDBS Weight Stainless Steel 8 oz. (stainless steel recommended)
20. Type of PDBS Used
    ☒ Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☐ Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 24 Diameter (in.) 1.25 Filled 220 mL
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☐ Attached to bottom of deployment line and suspended in well
    ☒ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
15.3			

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 50°F Wind Slight ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval Temp. 53.2 F Wind Still ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Jeff Willnes / Pete Recchia	OBG
Gary Bisogno	Accutest

New Jersey Department of Environmental Protection
Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former American Cyanamid
2. Location: Bound Brook, NJ
3. Well Designation: 34-R
4. Well Permit Number: 25-33062-4

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) 1.5
9. Total Well Depth (fbgs) 24.8
10. Screened interval/open hole (fbgs) 19.8 - 24.8
11. Well Casing: Diameter: 4-inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4-inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size 0.010 inch

14. Date and Time of Deployment Date: 10-7-08 Time: 13:28
15. Depth to Ground Water Depth to ground water at time of deployment 16.91
16. Date and Time of Retrieval Date: 10-23-08 Time: 15:38
17. Depth to Ground Water Depth to ground water at time of ~~deployment~~ 17.38 retrieval
18. Type of Deployment Line Used Diameter: 1/8" Material: 140# SS stranded cable with teflon

19. Material and Mass (oz.) of PDBS Weight Stainless steel 8 oz (stainless steel recommended)
20. Type of PDBS Used
    ☒ Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☐ Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 24 Diameter (in.) 1.25 Filled 220 mL
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☐ Attached to bottom of deployment line and suspended in well
    ☒ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
23.8			

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 60°F Wind Slight ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval Temp. 54.8°F Wind Still ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Jeff Wilkes / Pete Recchia	OBG
Harold Meissner	Accutest

New Jersey Department of Environmental Protection
Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former American Cyanamid
2. Location: Bound Brook, NJ
3. Well Designation: 21-R
4. Well Permit Number: 25-31284-7

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) 1.6
9. Total Well Depth (fbgs) 21.0
10. Screened interval/open hole (fbgs) 16.0 - 21.0
11. Well Casing: Diameter: 4-inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4-inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size NA

14. Date and Time of Deployment Date: 10-7-08 Time: 14:27
15. Depth to Ground Water Depth to ground water at time of deployment 18.78
16. Date and Time of Retrieval Date: 10-23-08 Time: 14:15
17. Depth to Ground Water Depth to ground water at time of ~~deployment~~ retrieval 19.08
18. Type of Deployment Line Used Diameter: 1/8" Material: 140#SS stranded cable with teflon

19. Material and Mass (oz.) of PDBS Weight Stainless Steel 8 oz. (stainless steel recommended)
20. Type of PDBS Used
    ☒ Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☐ Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 24 Diameter (in.) 1.25 Filled 220 mL
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☐ Attached to bottom of deployment line and suspended in well
    ☒ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
20.1			

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 50°F Wind Slight ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval Temp. 53.5°F Wind Still ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Jeff Wilkes / Pete Recchia	OBG
Harold Meissner	Accutest

New Jersey Department of Environmental Protection
Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former American Cyanamid
2. Location: Bound Brook, NJ
3. Well Designation: 32-R
4. Well Permit Number: 2533063-2

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) 0.8
9. Total Well Depth (fbgs) 19.6
10. Screened interval/open hole (fbgs) 14.6 - 19.6
11. Well Casing: Diameter: 4-inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4-inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size 0.010 inch

14. Date and Time of Deployment Date: 10-7-08 Time: 13:21
15. Depth to Ground Water Depth to ground water at time of deployment 8.73
16. Date and Time of Retrieval Date: 10-23-08 Time: 15:55
17. Depth to Ground Water Depth to ground water at time of ~~deployment~~ 10.30 retrieval
18. Type of Deployment Line Used Diameter: 1/8" Material: 140# SS stranded cable with teflon

19. Material and Mass (oz.) of PDBS Weight Stainless steel 8 oz. (stainless steel recommended)
20. Type of PDBS Used
    ☒ Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☐ Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 24 Diameter (in.) 1.25 Filled 220 mL
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☐ Attached to bottom of deployment line and suspended in well
    ☒ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
17.9			

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 60°F Wind Slight ☐ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval Temp. 56.4°F Wind Mild/Lt breeze ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Jeff Wilkes/Pete Recchia	OBG
Harold Meissner	ACCUTEST

New Jersey Department of Environmental Protection
Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former American Cyanamid
2. Location: Bound Brook, NJ
3. Well Designation: 19-R
4. Well Permit Number: 25-31283-9

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) 2.3
9. Total Well Depth (fbgs) 9.3
10. Screened interval/open hole (fbgs) 4.3 - 9.3
11. Well Casing: Diameter: 4-inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4-inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size NA

14. Date and Time of Deployment Date: 10-7-08 Time: 14:40
15. Depth to Ground Water Depth to ground water at time of deployment 4.55
16. Date and Time of Retrieval Date: 10-23-08 Time: 13:40
17. Depth to Ground Water Depth to ground water at time of ~~deployment~~ 4.80 retrieval
18. Type of Deployment Line Used Diameter: 1/8" Material: 140# SS stranded cable with teflon

19. Material and Mass (oz.) of PDBS Weight Stainless Steel 8 oz. (stainless steel recommended)
20. Type of PDBS Used
    ☒ Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☐ Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 24 Diameter (in.) 1.25 Filled 220 mL
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☐ Attached to bottom of deployment line and suspended in well
    ☒ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
9.1			

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 50°F Wind Slight Wind ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval Temp. 50.5°F Wind Lt. breeze ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Jeff Wilkes / Pete Recchia	OBG
Harold Meisner	Accutest

New Jersey Department of Environmental Protection
Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former American Cyanamid
2. Location: Bound Brook, NJ
3. Well Designation: TFP-94-1R
4. Well Permit Number: 25-49039

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) 1.1
9. Total Well Depth (fbgs) 18.0
10. Screened interval/open hole (fbgs) 10.0 - 18.0
11. Well Casing: Diameter: 4 inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4 inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size NA

14. Date and Time of Deployment Date: 10-7-08 Time: 13:42
15. Depth to Ground Water Depth to ground water at time of deployment 6.95
16. Date and Time of Retrieval Date: 10-23-08 Time: 15:13
17. Depth to Ground Water Depth to ground water at time of ~~deployment~~ 7.38 retrieval
18. Type of Deployment Line Used Diameter: 1/8" Material: 140# SS stranded cable with teflon

19. Material and Mass (oz.) of PDBS Weight Stainless steel 8 oz (stainless steel recommended)
20. Type of PDBS Used
    ☒ Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☐ Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 24 Diameter (in.) 1.25 Filled 220 mL
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☐ Attached to bottom of deployment line and suspended in well
    ☒ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
15.1			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Note: One PDB is being used to monitor the 8 ft screen interval.
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 60°F Wind Slight ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval Temp. 54.8°F Wind Still ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Jeff Willes/ Pete Recchia	OBG
Gary Bisogno	AccuTest

New Jersey Department of Environmental Protection
Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former American Cyanamid
2. Location: Bound Brook, NJ
3. Well Designation: 0 - R
4. Well Permit Number: 25-22855

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) 1.8
9. Total Well Depth (fbgs) 16.1
10. Screened interval/open hole (fbgs) 11.1 - 16.1
11. Well Casing: Diameter: 4-inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4-inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size NA

14. Date and Time of Deployment Date: 10-7-08 Time: 14:35
15. Depth to Ground Water Depth to ground water at time of deployment 5.93
16. Date and Time of Retrieval Date: 10-23-08 Time: 14:00
17. Depth to Ground Water Depth to ground water at time of ~~deployment~~ 6.85 retrieval
18. Type of Deployment Line Used Diameter: 1/8" Material: 140# SS stranded cable with teflon

19. Material and Mass (oz.) of PDBS Weight Stainless steel 8 oz (stainless steel recommended)
20. Type of PDBS Used
    ☒ Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☐ Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 24 Diameter (in.) 1.25 Filled 220 mL
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☐ Attached to bottom of deployment line and suspended in well
    ☒ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
15.4			

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 50 °F Wind Slight ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval Temp. 53.2 °F Wind Lt. breeze ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Jeff Willnes / Pete Recchia	OBG
Harold Meissner	ACCUTEST

New Jersey Department of Environmental Protection
Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former American Cyanamid
2. Location: Bound Brook, NJ
3. Well Designation: CCC-R
4. Well Permit Number: 25-50084

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.4
9. Total Well Depth (fbgs) 24.11
10. Screened interval/open hole (fbgs) 19.1 - 24.1
11. Well Casing: Diameter: 4-inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4-inch Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size NA

14. Date and Time of Deployment Date: 10-7-08 Time: 11:56
15. Depth to Ground Water Depth to ground water at time of deployment 15.45
16. Date and Time of Retrieval Date: 10-21-08 Time: 12:10
17. Depth to Ground Water Depth to ground water at time of ~~deployment~~ retrieval 17.15
18. Type of Deployment Line Used Diameter: 1/8" Material: 140# SS stranded cable with teflon

19. Material and Mass (oz.) of PDBS Weight Stainless steel 8 oz (stainless steel recommended)
20. Type of PDBS Used
    ☒ Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☐ Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 24 Diameter (in.) 1.25 Filled 220 mL
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☐ Attached to bottom of deployment line and suspended in well
    ☒ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
24			

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 50°F Wind Slight ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval Temp. 55.3°F Wind lt. breeze ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Jeff Wilnes / Pete Recchia	OBG
Ramesh Sadarangani	ACUTEST

ACCUTEST

Monitoring Well Field Sheet

Date: *12/12/2008*

Client: ***Wyeth***

Well ID: **Well:** ***PW - 2***

Location: ***A.H.P Boundbrook***

Well Depth: ft.

Case Size: inch

DTWTOC: ft.

vol/ft: gal/ft

Water Length: ft.

Case Vol: gal

Vol x 3 = gal

Vol x 5 = gal

**** *Purge Monitoring* ****

Purge Method: Dedicated

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge		*Off Line*							
A.									
B.									
C.									
D.									
Post Purge									
Pre-Sample									
Sample									9:30
Post Sample									

Purge End:

Pump:

Purge Start:

Bailer:

Purge Length:

Bailer Seal:

Volume Purged: gal

Purge Rate: GPM

Weather:

Sampling Technicians: *John Mnych*

Comments: *Pump not running during sampling on 10/21/08. OBG personnel collected sample on 12/12/08*

ACCUTEST

Monitoring Well Field Sheet

Date: *10/21/2008*

Client: ***Wyeth***

Well ID: **Well:** ***PW - 3*** Location: ***A.H.P Boundbrook***

Well Depth: ft. Case Size: inch

DTWTOC: ft. vol/ft: gal/ft

Water Length: ft. Case Vol: gal

Vol x 3 = gal Vol x 5 = gal

****** *Purge Monitoring* ****** Purge Method: Dedicated

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	*Off Line*						67.55	0.0	9:24
A.									
B.									
C.									
D.									
Post Purge									
Pre-Sample									
Sample	6.94	2195	14.4	4.55	Clear	9.96	N/A	N/A	9:45
Post Sample									

Purge End: Pump:

Purge Start: Bailer:

Purge Length: Bailer Seal:

Volume Purged: gal Purge Rate: GPM

Weather: Clear, Hot

Sampling Technicians: *RS*

Comments:

ACCUTEST (r.11/13)

Monitoring Well Field Sheet

Date: *10/24/2008*

Client: ***Wyeth***

Well ID: **Well:** ***MW-2*** **Location:** ***A.H.P Boundbrook***

Well Depth:	**21.10**	**ft.**	**Case Size:**	**4.0**	**inch**
DTWTOC:	**9.39**	**ft.**	**vol/ft:**	**0.65**	**gal/ft**
Water Length:	**11.71**	**ft.**	**Case Vol:**	**7.61**	**gal**
Vol x 3 =	**22.83**	**gal**	**Vol x 5 =**	**38.05**	**gal**

**** Purge Monitoring ****

Purge Method: Peristalic

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	8.52	3130	17.1	1.95	Green	27.70	9.90	0.00	14:12
A.	8.57	3231	17.2	3.29	Green	34.30		3.00	14:16
B.	8.60	3237	16.5	5.02	Green	35.80		5.00	14:19
C.									
D.									
Post Purge	8.63	1615	16.5	10.38	Green	0.93	19.51	8.00	14:30
Pre-Sample	"	"	"	"	"	61.80	"	"	"
Sample								8.50	14:35
Post Sample	8.63	3279	17.2	9.97	Green	42.30	19.74	9.00	14:40

Purge End:	**14:30**		**Pump:**	**ISCO - 94**
Purge Start:	**14:12**		**Bailer:**	**N/A/**
Purge Length:	**18**		**Bailer Seal:**	**N/A**
Volume Purged:	**8.00**	**gal**	**Purge Rate:**	**0.45** GPM *Average*

Weather: Clear, Cool, Still.

Sampling Technicians: ***GB***

Comments: *Recovery < 0.5gpm evacuated app one volume*

ACCUTEST

Monitoring Well Field Sheet

Date: *10/24/2008*

Client: ***Wyeth***

Well ID: **Well:** ***16MW-2*** **Location:** ***A.H.P Boundbrook***

Well Depth:	16.10	ft.	**Case Size:**	4.0	inch
DTWTOC:	5.02	ft.	**vol/ft:**	0.65	gal/ft
Water Length:	11.08	ft.	**Case Vol:**	7.20	gal
Vol x 3 =	21.60	gal	**Vol x 5 =**	36.00	gal

**** Purge Monitoring ****

Purge Method: Peristalic

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	6.68	598	15.8	3.17	Clear	78.50	6.00	0.00	12:12
A.	6.72	634	16.2	2.11	Clear			8.00	12:20
B.	6.70	634	16.3	1.62	Clear			16.00	12:28
C.									
D.									
Post Purge	6.71	632	16.4	2.10	Clear		6.07	24.00	12:36
Pre-Sample			"	"	"	"	"	"	"
Sample								26.00	12:38
Post Sample	6.73	630	16.5	1.73	Clear	54.20	6.02	28.00	12:40

Purge End:	12:36		**Pump:**	Solnist - 04
Purge Start:	12:12		**Bailer:**	N/A/
Purge Length:	24		**Bailer Seal:**	N/A
Volume Purged:	24.00	gal	**Purge Rate:**	1.00 GPM

Weather: Clear, Cool, Still.

Sampling Technicians: *RS*

Comments:

(r.11/13)

ACCUTEST

Monitoring Well Field Sheet

Date: *10/24/2008*

Client: ***Wyeth***

Well ID: **Well:** ***28-R*** **Location:** ***A.H.P Boundbrook***

Well Depth:	17.80	ft.	**Case Size:**	4.0	inch
DTWTOC:	4.53	ft.	**vol/ft:**	0.65	gal/ft
Water Length:	13.27	ft.	**Case Vol:**	8.63	gal
Vol x 3 =	25.89	gal	**Vol x 5 =**	43.15	gal

**** *Purge Monitoring* ****

Purge Method: Peristalic

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	5.63	1443	15.9	5.67	lt Brown	4.53	4.53	0.00	12:55
A.	5.34	1447	15.6	2.45	Clear	3.84		9.00	13:09
B.	4.97	1254	15.3	3.07	Clear	1.93		18.00	13:23
C.									
D.									
Post Purge	5.16	1258	15.5	2.19	Clear	0.93	5.38	27.00	13:37
Pre-Sample			"	"	"	"	"	"	"
Sample								29.00	13:40
Post Sample	5.18	1258	15.0	2.29	Clear	3.86	5.38	32.50	13:45

Purge End:	13:37		**Pump:**	ISCO - 94
Purge Start:	12:55		**Bailer:**	N/A/
Purge Length:	42		**Bailer Seal:**	N/A
Volume Purged:	27.00	gal	**Purge Rate:**	0.64 GPM

Weather: Clear, Cool, Still.

Sampling Technicians: *GB*

Comments:

(r.11/13)

ACCUTEST

Monitoring Well Field Sheet

Date: *10/24/2008*

Client: ***Wyeth***

Well ID: **Well:** ***38-R*** **Location:** ***A.H.P Boundbrook***

Well Depth:	25.60	ft.	**Case Size:**	4.0	inch
DTWTOC:	16.33	ft.	**vol/ft:**	0.65	gal/ft
Water Length:	9.27	ft.	**Case Vol:**	6.03	gal
Vol x 3 =	18.09	gal	**Vol x 5 =**	30.15	gal

**** *Purge Monitoring* ****

Purge Method: Peristalic

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	5.99	277	14.9	6.30	lt Brown	7.45	16.33	0.00	11:31
A.	5.97	449	14.7	8.83	Clear	2.84		6.00	11:48
B.	5.89	416	15.1	7.57	Clear	3.16		12.00	12:06
C.									
D.									
Post Purge	5.98	371	14.8	9.26	Clear	2.07	16.49	19.00	12:25
Pre-Sample			"	"	"	"	"	"	"
Sample								21.00	12:30
Post Sample	5.97	368	15.3	9.51	Clear	2.14	16.50	22.00	12:35

Purge End:	12:25		**Pump:**	ISCO - 94
Purge Start:	11:31		**Bailer:**	N/A/
Purge Length:	54		**Bailer Seal:**	N/A
Volume Purged:	19.00	gal	**Purge Rate:**	0.35 GPM

Weather: Clear, Cool, Still.

Sampling Technicians: *GB*

Comments:

ACCUTEST

Monitoring Well Field Sheet

Date: *10/24/2008*

Client: ***Wyeth***

Well ID: **Well:** ***42-R*** **Location:** ***A.H.P Boundbrook***

Well Depth:	**24.20**	**ft.**	**Case Size:**	**4.0**	**inch**
DTWTOC:	**13.75**	**ft.**	**vol/ft:**	**0.65**	**gal/ft**
Water Length:	**10.45**	**ft.**	**Case Vol:**	**6.80**	**gal**
Vol x 3 =	**20.40**	**gal**	**Vol x 5 =**	**34.00**	**gal**

******* Purge Monitoring *******

Purge Method: Peristalic

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	6.60	879	14.8	3.71	lt Brown	21.40	13.75	0.00	10:06
A.	6.53	860	14.2	6.52	lt Brown	15.10		6.50	10:24
B.	6.31	766	14.5	6.73	lt Brown	9.60		13.50	10:44
C.									
D.									
Post Purge	6.37	873	14.4	6.89	lt Brown	5.69	16.41	20.50	11:05
Pre-Sample			"	"	"	"	"	"	"
Sample								22.50	11:10
Post Sample	6.41	875	14.6	6.96	lt Brown	6.72	16.43	24.00	11:15

Purge End:	**11:05**		**Pump:**	**ISCO - 94**
Purge Start:	**10:06**		**Bailer:**	**N/A/**
Purge Length:	**59**		**Bailer Seal:**	**N/A**
Volume Purged:	**21.00**	**gal**	**Purge Rate:**	**0.35** GPM

Weather: Clear, Cool, Still.

Sampling Technicians: ***GB***

Comments:

ACCUTEST (r.11/13)

Monitoring Well Field Sheet

Date: *10/23/2008*

Client: ***Wyeth***

Well ID: **Well:** ***19-R*** **Location:** ***A.H.P Boundbrook***

Well Depth:	**11.60**	**ft.**	**Case Size:**	**4.0**	**inch**
DTWTOC:	**4.80**	**ft.**	**vol/ft:**	**0.65**	**gal/ft**
Water Length:	**6.80**	**ft.**	**Case Vol:**	**4.42**	**gal**
Vol x 3 =	**13.26**	**gal**	**Vol x 5 =**	**22.10**	**gal**

**** Purge Monitoring ****

Purge Method: Peristalic

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	7.10	333	18.1	1.33	brown	142.00	4.80	0.00	13:08
A.	6.99	312	18.4	0.96	S-Clear	41.00		4.50	13:17
B.	6.89	299	17.6	1.01	S-Clear	37.00		9.00	13:26
C.									
D.									
Post Purge	6.88	297	17.8	0.91	S-Clear	32.00	9.42	13.50	13:35
Pre-Sample		"	"	"	"	"	"	"	"
Sample								16.00	13:40
Post Sample	6.86	295	17.7	0.86	S-Clear	37.00	9.48	21.00	13:50

Purge End:	**13:35**		**Pump:**	**Solnist - 04**
Purge Start:	**13:08**		**Bailer:**	**N/A/**
Purge Length:	**27**		**Bailer Seal:**	**N/A**
Volume Purged:	**13.50**	**gal**	**Purge Rate:**	**0.50** GPM

Weather: Clear, mild. Breezy

Sampling Technicians: ***HM***

Comments: *A black tar like substance coated everything inside casing.*

ACCUTEST (r.11/13)

Monitoring Well Field Sheet

Date: *10/23/2008*

Client: ***Wyeth***

Well ID: **Well:** ***34-R*** **Location:** ***A.H.P Boundbrook***

Well Depth:	**26.30**	**ft.**	**Case Size:**	**4.0**	**inch**
DTWTOC:	**17.38**	**ft.**	**vol/ft:**	**0.65**	**gal/ft**
Water Length:	**8.92**	**ft.**	**Case Vol:**	**5.80**	**gal**
Vol x 3 =	**17.40**	**gal**	**Vol x 5 =**	**29.00**	**gal**

******* Purge Monitoring *******

Purge Method: Peristalic

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	6.93	718	15.5	1.97	Clear	10.30	17.38	0.00	15:10
A.	6.80	433	14.5	1.48	Clear	5.23		6.50	15:18
B.	6.97	722	14.1	2.16	Clear	4.11		13.00	15:26
C.									
D.									
Post Purge	7.01	724	14.2	2.05	Clear	4.68	19.72	19.20	15:34
Pre-Sample		"	"	"	"	"	"	"	"
Sample								22.50	15:38
Post Sample	7.00	728	14.0	2.41	Clear	4.03	19.70	27.25	15:44

Purge End:	**15:34**	**Pump:**	**Dedicated Bladder**
Purge Start:	**15:10**	**Bailer:**	**N/A/**
Purge Length:	**24**	**Bailer Seal:**	**N/A**
Volume Purged:	**19.20** **gal**	**Purge Rate:**	**0.80** GPM

Weather: Clear, mild. Lt.Breeze.

Sampling Technicians: ***HM***

Comments:

ACCUTEST (r.11/13)

Monitoring Well Field Sheet

Date: *10/23/2008*

Client: ***Wyeth***

Well ID: **Well:** ***TFP94-1R*** **Location:** ***A.H.P Boundbrook***

Well Depth:	**19.10**	**ft.**	**Case Size:**	**4.0**	**inch**
DTWTOC:	**7.38**	**ft.**	**vol/ft:**	**0.65**	**gal/ft**
Water Length:	**11.72**	**ft.**	**Case Vol:**	**7.62**	**gal**
Vol x 3 =	**22.86**	**gal**	**Vol x 5 =**	**38.10**	**gal**

**** Purge Monitoring ****

Purge Method: Peristalic

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	6.74	963	16.7	4.65	Clear	6.20	7.38	0.00	14:41
A.	6.97	1126	16.0	4.81	Clear	1.33		8.00	14:51
B.	7.02	1124	15.7	3.82	Clear	1.24		16.00	15:01
C.									
D.									
Post Purge	6.96	1122	15.7	4.67	Clear	0.83	7.55	24.00	15:11
Pre-Sample		"	"	"	"	"	"	"	"
Sample								25.50	15:13
Post Sample	6.96	1115	15.5	4.18	Clear	0.91	7.56	27.00	15:15

Purge End:	**15:11**		**Pump:**	**ISCO - 94**
Purge Start:	**14:41**		**Bailer:**	**N/A/**
Purge Length:	**30**		**Bailer Seal:**	**N/A**
Volume Purged:	**24.00**	**gal**	**Purge Rate:**	**0.80** GPM

Weather: Clear, mild. Lt.Breeze.

Sampling Technicians: ***GB***

Comments:

(r.11/13)

ACCUTEST

Monitoring Well Field Sheet

Date: *10/21/2008*

Client: ***Wyeth***

Well ID: **Well:** ***EEE - R*** **Location:** ***A.H.P Boundbrook***

Well Depth:	**25.10**	**ft.**	**Case Size:**	**4.0**	**inch**
DTWTOC:	**16.46**	**ft.**	**vol/ft:**	**0.65**	**gal/ft**
Water Length:	**8.64**	**ft.**	**Case Vol:**	**5.62**	**gal**
Vol x 3 =	**16.86**	**gal**	**Vol x 5 =**	**28.08**	**gal**

******* Purge Monitoring *******

Purge Method: Peristalic

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	6.53	741	13.4	2.26	Clear	1.29	16.46	0.00	13:05
A.	6.69	651	13.9	3.23	Clear			5.50	13:16
B.	6.61	709	13.8	2.68	Clear			11.00	13:27
C.									
D.									
Post Purge	6.55	718	13.5	2.41	Clear		16.93	18.50	13:42
Pre-Sample		"	"	"	"	"	"	"	"
Sample								22.50	13:50
Post Sample	6.52	707	14.2	1.88	Clear	0.39	16.56	27.50	14:00

Purge End:	**13:42**		**Pump:**	**Solnist - 04**
Purge Start:	**13:05**		**Bailer:**	**N/A/**
Purge Length:	**37**		**Bailer Seal:**	**N/A**
Volume Purged:	**18.00**	**gal**	**Purge Rate:**	**0.50** GPM

Weather: Clear, Mild 57.8dC 14.3dC, breezey

Sampling Technicians: ***RS***

Comments: *Preform MS / MSD Sampling on Well EEE-r*

ACCUTEST

Monitoring Well Field Sheet

Date: *12/5/2008*

Client: ***Wyeth***

Well ID: **Well:** ***EEE - R*** **Location:** ***A.H.P Boundbrook***

Well Depth:	**25.10**	**ft.**	**Case Size:**	**4.0**	**inch**
DTWTOC:	**14.38**	**ft.**	**vol/ft:**	**0.65**	**gal/ft**
Water Length:	**10.72**	**ft.**	**Case Vol:**	**6.97**	**gal**
Vol x 3 =	**20.91**	**gal**	**Vol x 5 =**	**34.85**	**gal**

******* Purge Monitoring *******

Purge Method: Peristalic

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	6.65	730	13.1	3.68	Clear	3.40	14.38	0.00	14:10
A.	6.59	700	13.6	2.03	Clear	0.82		7.00	14:17
B.	6.43	680	13.5	2.07	Clear	0.71		14.00	14:24
C.									
D.									
Post Purge	6.42	680	13.3	2.25	Clear	0.74	14.82	21.00	14:31
Pre-Sample		"	"	"	"	"	"	"	"
Sample								25.00	14:35
Post Sample	6.44	670	13.0	2.32	Clear	0.53	14.82	30.00	14:40

Purge End:	**14:31**		**Pump:**	**Solnist - 04**
Purge Start:	**14:10**		**Bailer:**	**N/A/**
Purge Length:	**21**		**Bailer Seal:**	**N/A**
Volume Purged:	**21.00**	**gal**	**Purge Rate:**	**1.00** GPM

Weather: S-Clear, Cold, Breezy.

Sampling Technicians: ***RS***

Comments: ***Preform MS / MSD Sampling on Well EEE-r***
Re-Sampling event fo Chl only.

ACCUTEST

Monitoring Well Field Sheet

Date: *10/21/2008*

Client: ***Wyeth***

Well ID: **Well:** ***CCC-R*** **Location:** ***A.H.P Boundbrook***

Well Depth:	**26.50**	**ft.**	**Case Size:**	**4.0**	**inch**
DTWTOC:	**17.15**	**ft.**	**vol/ft:**	**0.65**	**gal/ft**
Water Length:	**9.35**	**ft.**	**Case Vol:**	**6.08**	**gal**
Vol x 3 =	**18.24**	**gal**	**Vol x 5 =**	**30.40**	**gal**

******* Purge Monitoring *******

Purge Method: Peristalic

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	6.33	784	14.2	2.47	Clear	11.39	17.15	0.00	11:09
A.	6.43	894	13.1	2.46	Clear			5.00	11:24
B.	6.46	906	12.7	2.96	Clear			10.00	11:39
C.	6.56	905	12.3	3.50	Clear			15.00	11:54
D.									
Post Purge	6.54	914	11.9	3.19	Clear		17.68	20.00	12:08
Pre-Sample		"	"	"	"	"	"	"	"
Sample								20.75	12:10
Post Sample	6.51	905	11.9	3.39	Clear	1.84	17.34	23.46	12:18

Purge End:	**12:08**	**Pump:**	**Solnist - 04**
Purge Start:	**11:09**	**Bailer:**	**N/A/**
Purge Length:	**59**	**Bailer Seal:**	**N/A**
Volume Purged:	**20.00** **gal**	**Purge Rate:**	**0.34** GPM

Weather: Clear, Mild 52.2dC 11.2dC, lt breeze

Sampling Technicians: ***RS***

Comments: *Preform Field Duplicate Sampling on Well CCC-r*

ACCUTEST

Monitoring Well Field Sheet

Date: *12/5/2008*

Client: ***Wyeth***

Well ID: **Well:** ***CCC-R*** **Location:** ***A.H.P Boundbrook***

Well Depth:	**26.50**	**ft.**	**Case Size:**	**4.0**	**inch**
DTWTOC:	**15.64**	**ft.**	**vol/ft:**	**0.65**	**gal/ft**
Water Length:	**10.86**	**ft.**	**Case Vol:**	**7.06**	**gal**
Vol x 3 =	**21.18**	**gal**	**Vol x 5 =**	**35.30**	**gal**

******* Purge Monitoring *******

Purge Method: Peristalic

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	6.25	820	12.5	2.47	Clear	2.10	15.64	0.00	15:00
A.	6.21	900	12.4	2.46	Clear	3.23		8.00	15:10
B.	6.24	940	12.3	2.96	Clear	1.71		16.00	15:20
C.									
D.									
Post Purge	6.25	960	12.2	2.63	Clear	1.82	16.84	24.00	15:30
Pre-Sample	"	"	"	"	"	"	"	"	"
Sample								20.75	15:32
Post Sample	6.23	960	12.3	2.57	Clear	2.17	16.84	23.46	15:35

Purge End:	**15:30**	**Pump:**	**Solnist - 04**
Purge Start:	**15:00**	**Bailer:**	**N/A/**
Purge Length:	**30**	**Bailer Seal:**	**N/A**
Volume Purged:	**24.00** **gal**	**Purge Rate:**	**0.80** GPM

Weather: Clear, Cold, Breezy.

Sampling Technicians: ***HM***

Comments: ***Field Blank [14:50] via bldder used on well CCC-R***
Re-Sampling event fo Chl only.

(r.11/13)

ACCUTEST

Monitoring Well Field Sheet

Date: *10/24/2008*

Client: ***Wyeth***

Well ID: **Well:** ***AAA*** **Location:** ***A.H.P Boundbrook***

Well Depth:	16.80	ft.	**Case Size:**	1.5	inch
DTWTOC:	6.00	ft.	**vol/ft:**	0.09	gal/ft
Water Length:	10.80	ft.	**Case Vol:**	0.97	gal
Vol x 3 =	2.90	gal	**Vol x 5 =**	4.90	gal

**** *Purge Monitoring* ****

Purge Method: Peristalic

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	6.46	652	14.5	1.98	Brown	174.00	6.00	0.00	11:26
A.	6.54	681	14.8	1.54	Clear			1.10	11:29
B.	6.56	682	14.8	1.35	Clear			1.90	11:31
C.									
D.									
Post Purge	6.55	680	14.4	2.13	Clear		6.07	3.00	11:34
Pre-Sample			"	"	"	"	"	"	"
Sample								3.50	11:40
Post Sample	6.55	678	14.4	1.95	Clear	62.70	6.02	4.00	11:45

Purge End:	11:34	**Pump:**	Solnist - 04
Purge Start:	11:26	**Bailer:**	N/A/
Purge Length:	8	**Bailer Seal:**	N/A
Volume Purged:	3.00 gal	**Purge Rate:**	0.38 GPM

Weather: Clear, Cool, Still.

Sampling Technicians: *RS*

Comments:

(r.11/13)

ACCUTEST

Monitoring Well Field Sheet

Date: *10/24/2008*

Client: ***Wyeth***

Well ID: **Well:** *I I I*

Location: ***A.H.P Boundbrook***

Well Depth:	19.80	ft.	**Case Size:**	1.5	inch
DTWTOC:	4.27	ft.	**vol/ft:**	0.09	gal/ft
Water Length:	15.53	ft.	**Case Vol:**	1.40	gal
Vol x 3 =	4.20	gal	**Vol x 5 =**	7.00	gal

**** *Purge Monitoring* ****

Purge Method: Peristalic

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	6.24	495	14.3	2.11	Brown	64.70	4.27	0.00	10:42
A.	6.28	498	14.7	1.78	Clear			1.40	10:44
B.	6.28	501	14.1	1.76	Clear			3.60	10:47
C.									
D.									
Post Purge	6.32	502	12.7	1.88	Clear		4.63	5.00	10:49
Pre-Sample		"	"	"	"	"	"	"	"
Sample								5.70	10:50
Post Sample	6.29	501	14.8	1.38	Clear	12.28	4.32	9.20	10:55

Purge End:	10:49	**Pump:**	Solnist - 04
Purge Start:	10:42	**Bailer:**	N/A/
Purge Length:	7	**Bailer Seal:**	N/A
Volume Purged:	5.00 gal	**Purge Rate:**	0.71 GPM

Weather: Clear, Cool, Still.

Sampling Technicians: *RS*

Comments:

(r.11/13)

ACCUTEST

Monitoring Well Field Sheet

Date: *10/24/2008*

Client: ***Wyeth***

Well ID: **Well:** ***KKK*** **Location:** ***A.H.P Boundbrook***

Well Depth:	28.30	ft.	**Case Size:**	1.5	inch
DTWTOC:	14.73	ft.	**vol/ft:**	0.09	gal/ft
Water Length:	13.57	ft.	**Case Vol:**	1.22	gal
Vol x 3 =	3.66	gal	**Vol x 5 =**	6.10	gal

**** Purge Monitoring ****

Purge Method: Peristalic

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	5.94	327	13.7	2.20	Clear	6.05	14.73	0.00	9:48
A.	5.83	330	13.6	2.00	Clear			1.70	9:51
B.	5.82	327	13.7	2.11	Clear			3.40	9:54
C.									
D.									
Post Purge	5.81	327	13.6	1.97	Clear		15.13	5.00	9:57
Pre-Sample			"	"	"	"	"	"	"
Sample								5.50	10:06
Post Sample	5.80	319	13.7	1.78	Clear	2.11	15.07	6.00	10:10

Purge End:	9:57		**Pump:**	Solnist - 04
Purge Start:	9:48		**Bailer:**	N/A/
Purge Length:	9		**Bailer Seal:**	N/A
Volume Purged:	5.00	gal	**Purge Rate:**	0.56 GPM

Weather: Clear, Cool, Still.

Sampling Technicians: ***RS***

Comments: *Preform Duplicate sample on Well KKK*

Wyeth Holding Corp
Monitoring Well Field Sheet

Date: 10/22/2008

Sampler: *Harold Meissner*

Flute ID: XX

Notes: Purge Pressure: 110 PSI

Sample Pressure: 75 PSI

Max Pressure: 125 PSI

Discard Initial Gallon @ Sample Collection

Port 1	**Port 2**	**Port 3**	**Port 4**
Purge Vol Req 4.2g	Purge Vol Req 3.9g	Purge Vol Req N/A	Purge Vol Req
Purge 1	**Purge 1**	**Purge 1**	**Purge 1**
Time Start: 7:55	Time Start: 7:55	Time Start: 7:55	Time Start:
Time End: 8:01	Time End: 8:01	Time End: 8:01	Time End:
Volume: 2.25	Volume: 2.00	Volume: 2.00	Volume:
Color: *Clear*	Color: *Clear*	Color: *Clear*	Color:
Purge 2	**Purge 2**	**Purge 2**	**Purge 2**
Time Start: 8:16	Time Start: 8:16	Time Start: 16:18	Time Start:
Time End: 8:32	Time End: 8:32	Time End: 16:25	Time End:
Volume: 2.00	Volume: 1.75	Volume: 2.00	Volume:
Color: *Clear*	Color: *Clear*	Color: *Clear*	Color:
Purge 3	**Purge 3**	**Purge 3**	**Purge 3**
Time Start:	Time Start: 8:39	Time Start:	Time Start:
Time End:	Time End: 8:42	Time End:	Time End:
Volume:	Volume: 1.75	Volume:	Volume:
Color:	Color: *Clear*	Color:	Color:
Total Volume 4.25g	Total Volume 5.50g	Total Volume 4.00g	Total Volume
Sample	**Sample**	**Sample**	**Sample**
		10/23/2008	
Time Start: 8:50	Time Start: 8:58	Time Start: 7:10	Time Start:

Weather: *Clear, Cool, Windy.*

Comments:

Port #3 Purged well on 10/22/08 Sample Well on 10/23/08

Wyeth Holding Corp
Monitoring Well Field Sheet

Date: 10/22/2008

Sampler: *Harold Meissner*

Flute ID: S S

Notes: Purge Pressure: 110 PSI

Sample Pressure: 75 PSI

Max Pressure: 125 PSI

Discard Initial Gallon @ Sample Collection

	Port 1	Port 2	Port 3	Port 4
Purge Vol Req	4.2g	4.3g	4.6g	
Purge 1				
Time Start:	10:50	10:50	10:50	
Time End:	10:57	10:57	10:58	
Volume:	2.25	2.25	2.25	
Color:	*Clear*	*Clear*	*Clear*	
Purge 2				
Time Start:	11:13	11:13	11:13	
Time End:	11:19	11:19	11:20	
Volume:	2.00	2.25	2.25	
Color:	*Clear*	*Clear*	*Clear*	
Purge 3				
Time Start:			11:30	
Time End:			11:32	
Volume:			1.00	
Color:			*Clear*	
Total Volume	4.25g	4.50g	5.50g	
Sample				
Time Start:	11:35	11:35	11:48	

Weather: *Clear, Cool, lt. Breeze.*

Comments:

Wyeth Holding Corp
Monitoring Well Field Sheet

Date: 10/22/2008

Sampler: *Harold Meissner*

Flute ID: W W

Notes:

Purge Pressure: 110 PSI

Sample Pressure: 75 PSI

Max Pressure: 125 PSI

Discard Initial Gallon @ Sample Collection

	Port 1	Port 2	Port 3	Port 4
Purge Vol Req	4.5g	4.3g	4.2g	
Purge 1				
Time Start:	9:30	9:30	9:30	
Time End:	9:35	9:39	9:40	
Volume:	2.25	2.25	2.25	
Color:	*Clear*	*Clear*	*Clear*	
Purge 2				
Time Start:	9:55	9:55	9:55	
Time End:	10:04	10:05	10:05	
Volume:	2.00	2.00	2.25	
Color:	*Clear*	*Clear*	*Clear*	
Purge 3				
Time Start:	10:10	10:10		
Time End:	10:13	10:13		
Volume:	1.00	1.00		
Color:	*Clear*	*Clear*		
Total Volume	5.25g	5.25g	4.50g	
Sample				
Time Start:	10:33	10:30	10:24	

Weather: *Clear, Cold, Breezy.*

Comments: *Field Blank [09:42] via EPA method.*

Wyeth Holding Corp
Monitoring Well Field Sheet

Date: 10/22/2008

Sampler: *Harold Meissner*

Flute ID: Y Y

Notes:

Purge Pressure: 110 PSI

Sample Pressure: 75 PSI

Max Pressure: 125 PSI

Discard Initial Gallon @ Sample Collection

	Port 1	Port 2	Port 3	Port 4
Purge Vol Req	4.5g	4.3g	4.3g	
Purge 1				
Time Start:	12:05	12:05	12:05	
Time End:	12:14	12:14	12:14	
Volume:	2.00	2.25	2.25	
Color:	*Clear*	*Clear*	*Clear*	
Purge 2				
Time Start:	12:29	12:29	12:29	
Time End:	12:38	12:38	12:38	
Volume:	2.00	2.25	2.25	
Color:	*Clear*	*Clear*	*Clear*	
Purge 3				
Time Start:	12:42			
Time End:	12:45			
Volume:	1.00			
Color:	*Clear*			
Total Volume	5.00g	4.50g	4.50g	
Sample				
Time Start:	13:55	12:55	13:05	

Weather: *Clear, Cool, Windy.*

Comments: *Perform MS/MSD sampling on YY P-2*

Perform Field Duplicate Sampling on YY P-3

Wyeth Holding Corp
Monitoring Well Field Sheet

Date: 10/23/2008

Sampler: *Harold Meissner*

Flute ID: Z Z

Notes: Purge Pressure: 110 PSI

Sample Pressure: 75 PSI

Max Pressure: 125 PSI

Discard Initial Gallon @ Sample Collection

	Port 1	Port 2	Port 3	Port 4
Purge Vol Req	5.1g	5.1g	5.4g	5.3g
Purge 1				
Time Start:	9:54	9:54	9:54	9:54
Time End:	10:04	10:04	10:04	10:05
Volume:	2.50	2.75	2.50	2.50
Color:	*Clear*	*Clear*	*Clear*	*Clear*
Purge 2				
Time Start:	10:25	10:25	10:25	10:25
Time End:	10:34	10:35	10:35	10:35
Volume:	2.50	2.75	2.50	2.50
Color:	*Clear*	*Clear*	*Clear*	*Clear*
Purge 3				
Time Start:	10:45		10:45	10:45
Time End:	10:48		10:48	10:48
Volume:	1.00		1.00	1.00
Color:	*Clear*		*Clear*	*Clear*
Total Volume	6.0g	5.5g	6.0g	6.0g
Sample				
Time Start:	11:18	11:00	11:10	11:13

Weather: *Clear, Mild, lt Breeze.*

Comments:

Wyeth Holding Corp
Monitoring Well Field Sheet

(r.11/13)

Date: 10/23/2008

Notes: Purge Pressure: 110 PSI

Sampler: *Harold Meissner*

Sample Pressure: 75 PSI

Flute ID: T T

Max Pressure: 125 PSI

Discard Initial Gallon @ Sample Collection

Port 1	**Port 2**	**Port 3**	**Port 3 (cont')**
Purge Vol Req 3.0g	Purge Vol Req 3.0g	Purge Vol Req 3.4g	Purge Vol Req
Purge 1	**Purge 1**	**Purge 1**	**Purge 4**
Time Start: 7:52	Time Start: 7:52	Time Start: 7:52	Time Start: 12:10
Time End: 7:56	Time End: 7:56	Time End: 7:56	Time End: 12:13
Volume: 1.50	Volume: 1.50	Volume: 1.50	Volume: 0.50
Color: *Clear*	Color: *Clear*	Color: *Clear*	Color: *Clear*
Purge 2	**Purge 2**	**Purge 2**	**Purge 5**
Time Start: 8:15	Time Start: 8:15	Time Start: 8:15	Time Start: 12:45
Time End: 8:20	Time End: 8:20	Time End: 8:17	Time End: 12:47
Volume: 1.50	Volume: 1.50	Volume: 0.50	Volume: 0.25
Color: *Clear*	Color: *Clear*	Color: *Clear*	Color: *Clear*
Purge 3	**Purge 3**	**Purge 3**	**Purge 6**
Time Start:	Time Start:	Time Start: 9:08	Time Start: 14:35
Time End:	Time End:	Time End: 9:10	Time End: 14:37
Volume:	Volume:	Volume: 0.25	Volume: 0.50
Color:	Color:	Color: *Clear*	Color: *Clear*
Total Volume 3.00	Total Volume 3.00	Total Volume	Total Volume 3.50
Sample	**Sample**	**Sample**	**Sample**
Time Start: 8:55	Time Start: 9:00	Time Start:	Time Start: 16:20

Weather: *Clear, Cool. Lt.Breeze.*

Comments: *Field Blank [08:45] via EPA method.*

P-3 due to purge volume evacuated 0.25g instead of 1.0g prior to sampling. .

ACCUTEST (r.11/13)

Monitoring Well Field Sheet

Date: *10/22/2008*

Client: ***Wyeth***

Well ID: **Well:** ***RCRA-D1*** **Location:** ***A.H.P Boundbrook***

Well Depth:	**71.70**	**ft.**	**Case Size:**	**6.0**	**inch**
DTWTOC:	**39.58**	**ft.**	**vol/ft:**	**1.47**	**gal/ft**
Water Length:	**32.12**	**ft.**	**Case Vol:**	**47.20**	**gal**
Vol x 3 =	**141.66**	**gal**	**Vol x 5 =**	**236.10**	**gal**

**** Purge Monitoring ****

Purge Method: Well Wizard

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	7.32	585	14.1	9.08	Clear	1.31	39.58	0.0	11:35
A.	7.37	501	14.1	7.52	Clear	2.61		48.0	12:23
B.	7.17	680	13.6	5.14	Clear	1.07		96.0	13:11
C.									
D.									
Post Purge	7.24	686	14.0	4.61	Clear	1.37	40.06	144.0	13:59
Pre-Sample		"	"	"	"	"	"	"	"
Sample								145.00	14:00
Post Sample	7.17	719	13.9	4.03	Clear	1.71	40.10	150.00	14:05

Purge End:	**13:59**	**Pump:**	**Dedicated Bladder**
Purge Start:	**11:35**	**Bailer:**	**N/A/**
Purge Length:	**144**	**Bailer Seal:**	**N/A**
Volume Purged:	**144.00** **gal**	**Purge Rate:**	**1.00** GPM

Weather: Clear, Cool, Still.

Sampling Technicians: ***GB***

Comments:

ACCUTEST

Monitoring Well Field Sheet

Date: *10/21/2008*

Client: ***Wyeth***

Well ID: **Well:** ***RCRA-D2*** **Location:** ***A.H.P Boundbrook***

Well Depth:	**81.40**	**ft.**	**Case Size:**	**6.0**	**inch**
DTWTOC:	**38.88**	**ft.**	**vol/ft:**	**1.47**	**gal/ft**
Water Length:	**42.52**	**ft.**	**Case Vol:**	**62.50**	**gal**
Vol x 3 =	**187.50**	**gal**	**Vol x 5 =**	**312.50**	**gal**

**** Purge Monitoring ****

Purge Method: Well Wizard

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	7.41	771	15.4	6.63	Clear	0.76	38.88	0.0	11:26
A.	7.12	744	14.0	4.23	Clear	1.09		63.0	12:29
B.	6.99	767	14.8	3.06	Clear	0.53		126.0	13:32
C.									
D.									
Post Purge	6.98	729	14.5	3.69	Clear	1.92	40.02	189.0	14:35
Pre-Sample		"	"	"	"	"	"	"	"
Sample								192.00	14:38
Post Sample	7.11	749	14.2	3.08	Clear	1.72	39.47	194.00	14:40

Purge End:	**14:35**	**Pump:**	**Dedicated Bladder**
Purge Start:	**11:26**	**Bailer:**	**N/A/**
Purge Length:	**189**	**Bailer Seal:**	**N/A**
Volume Purged:	**189.00** **gal**	**Purge Rate:**	**1.00** GPM

Weather: Overcast, Cool, lt Breeze.

Sampling Technicians: ***GB***

Comments:

ACCUTEST

Monitoring Well Field Sheet

Date: *10/21/2008*

Client: ***Wyeth***

Well ID: **Well:** ***RCRA-D3*** **Location:** ***A.H.P Boundbrook***

Well Depth:	**75.70**	**ft.**	**Case Size:**	**6.0**	**inch**
DTWTOC:	**37.96**	**ft.**	**vol/ft:**	**1.47**	**gal/ft**
Water Length:	**37.74**	**ft.**	**Case Vol:**	**55.48**	**gal**
Vol x 3 =	**166.44**	**gal**	**Vol x 5 =**	**277.40**	**gal**

**** Purge Monitoring ****

Purge Method: Well Wizard

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	6.96	930	14.1	5.79	Clear	0.63	37.96	0.0	11:52
A.	7.06	768	13.9	2.37	Clear	0.42		56.0	12:48
B.	7.06	754	14.0	2.45	Clear	0.34		112.0	13:44
C.									
D.									
Post Purge	7.06	797	14.0	1.88	Clear	0.18	38.83	168.0	14:40
Pre-Sample		"	"	"	"	"	"	"	"
Sample								173.00	14:45
Post Sample	7.07	791	13.8	2.60	Clear	0.16	38.62	176.00	14:48

Purge End:	**14:40**	**Pump:**	**Dedicated Bladder**
Purge Start:	**11:52**	**Bailer:**	**N/A/**
Purge Length:	**168**	**Bailer Seal:**	**N/A**
Volume Purged:	**168.00** **gal**	**Purge Rate:**	**1.00** GPM

Weather: Overcast, Cool, lt Breeze, lt rain.

Sampling Technicians: ***GB***

Comments:

ACCUTEST

Monitoring Well Field Sheet

Date: *10/21/2008*

Client: ***Wyeth***

Well ID: **Well:** ***RCRA-D4*** **Location:** ***A.H.P Boundbrook***

Well Depth:	**83.80**	**ft.**	**Case Size:**	**6.0**	**inch**
DTWTOC:	**37.22**	**ft.**	**vol/ft:**	**1.47**	**gal/ft**
Water Length:	**46.58**	**ft.**	**Case Vol:**	**68.47**	**gal**
Vol x 3 =	**205.41**	**gal**	**Vol x 5 =**	**342.35**	**gal**

**** Purge Monitoring ****

Purge Method: Well Wizard

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	7.18	766	13.8	5.49	Clear	0.62	37.22	0.0	11:21
A.	7.10	639	13.6	3.81	Clear	0.27		70.0	12:31
B.	7.12	646	13.8	3.89	Clear	0.18		140.0	13:41
C.									
D.									
Post Purge	7.08	638	13.7	3.48	Clear	0.33	37.43	210.0	14:51
Pre-Sample		"	"	"	"	"	"	"	"
Sample								214.00	14:55
Post Sample	7.05	657	13.7	3.35	Clear	0.24	37.23	219.00	15:00

Purge End:	**14:51**	**Pump:**	**Dedicated Bladder**
Purge Start:	**11:21**	**Bailer:**	**N/A/**
Purge Length:	**210**	**Bailer Seal:**	**N/A**
Volume Purged:	**210.00** **gal**	**Purge Rate:**	**1.00** GPM

Weather: Overcast, Cool, lt Breeze

Sampling Technicians: ***GB***

Comments:

ACCUTEST (r.11/13)

Monitoring Well Field Sheet

Date: *10/21/2008*

Client: ***Wyeth***

Well ID: **Well:** ***RCRA-D5*** **Location:** ***A.H.P Boundbrook***

Well Depth:	59.30	ft.	**Case Size:**	6.0	inch
DTWTOC:	35.78	ft.	**vol/ft:**	1.47	gal/ft
Water Length:	23.52	ft.	**Case Vol:**	34.57	gal
Vol x 3 =	103.71	gal	**Vol x 5 =**	172.85	gal

**** Purge Monitoring ****

Purge Method: Well Wizard

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	6.83	946	13.6	4.39	Clear	1.39	35.78	0.0	9:16
A.	6.88	948	14.1	3.32	Clear	0.92		35.0	9:51
B.	6.91	959	14.4	2.54	Clear	0.42		70.0	10:26
C.									
D.									
Post Purge	6.71	951	14.2	2.67	Clear	0.56	37.84	105.0	11:01
Pre-Sample		"	"	"	"	"	"	"	"
Sample								109.00	11:05
Post Sample	6.83	947	15.0	3.04	Clear	1.02	37.72	111.00	11:07

Purge End:	11:01	**Pump:**	Dedicated Bladder
Purge Start:	9:16	**Bailer:**	N/A/
Purge Length:	105	**Bailer Seal:**	N/A
Volume Purged:	105.00 gal	**Purge Rate:**	1.00 GPM

Weather: Clear, Cool, lt Breeze

Sampling Technicians: *GB*

Comments:

ACCUTEST

Monitoring Well Field Sheet

Date: *10/21/2008*

Client: ***Wyeth***

Well ID: **Well:** ***RCRA-D6*** **Location:** ***A.H.P Boundbrook***

Well Depth:	**58.70**	**ft.**	**Case Size:**	**6.0**	**inch**
DTWTOC:	**31.73**	**ft.**	**vol/ft:**	**1.47**	**gal/ft**
Water Length:	**26.97**	**ft.**	**Case Vol:**	**39.65**	**gal**
Vol x 3 =	**118.95**	**gal**	**Vol x 5 =**	**198.25**	**gal**

**** Purge Monitoring ****

Purge Method: Well Wizard

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	6.09	1515	13.2	6.58	Clear	2.43	31.73	0.0	9:06
A.	6.60	1632	13.9	5.23	Clear	0.81		40.0	9:46
B.	6.72	1615	13.7	4.36	Clear	1.02		80.0	10:26
C.									
D.									
Post Purge	6.74	1601	14.1	2.68	Clear	0.31	34.61	120.0	11:06
Pre-Sample		"	"	"	"	"	"	"	"
Sample								124.00	11:10
Post Sample	6.70	1577	13.8	2.78	Clear	0.26	34.65	129.00	11:15

Purge End:	**11:06**	**Pump:**	**Dedicated Bladder**
Purge Start:	**9:06**	**Bailer:**	**N/A/**
Purge Length:	**120**	**Bailer Seal:**	**N/A**
Volume Purged:	**120.00** **gal**	**Purge Rate:**	**1.00** GPM

Weather: Clear, Cool, lt Breeze

Sampling Technicians: ***GB***

Comments:

ACCUTEST

Monitoring Well Field Sheet

Date: *10/21/2008*

Client: ***Wyeth***

Well ID: **Well:** ***RCRA-D7*** **Location:** ***A.H.P Boundbrook***

Well Depth:	**66.20**	**ft.**	**Case Size:**	**6.0**	**inch**
DTWTOC:	**29.62**	**ft.**	**vol/ft:**	**1.47**	**gal/ft**
Water Length:	**36.58**	**ft.**	**Case Vol:**	**53.77**	**gal**
Vol x 3 =	**161.31**	**gal**	**Vol x 5 =**	**268.85**	**gal**

**** Purge Monitoring ****

Purge Method: Well Wizard

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	5.49	1106	13.9	4.65	Clear	3.24	29.62	0.0	8:49
A.	5.91	1039	14.1	1.79	Clear	1.62		54.0	9:43
B.	5.99	1095	14.3	1.66	Clear	0.81		108.0	10:37
C.									
D.									
Post Purge	6.02	1112	14.6	1.60	Clear	0.42	32.18	162.0	11:31
Pre-Sample		"	"	"	"	"	"	"	"
Sample								166.00	11:35
Post Sample	5.94	1110	14.1	2.13	Clear	0.44	32.15	171.00	11:40

Purge End:	**11:31**	**Pump:**	**Dedicated Bladder**
Purge Start:	**8:49**	**Bailer:**	**N/A/**
Purge Length:	**162**	**Bailer Seal:**	**N/A**
Volume Purged:	**162.00** **gal**	**Purge Rate:**	**1.00** GPM

Weather: Clear, Cool, lt Breeze

Sampling Technicians: ***GB***

Comments:

ACCUTEST

Monitoring Well Field Sheet

Date: *10/22/2008*

Client: ***Wyeth***

Well ID: **Well:** ***RCRA-D8*** **Location:** ***A.H.P Boundbrook***

Well Depth:	**62.90**	**ft.**	**Case Size:**	**6.0**	**inch**
DTWTOC:	**32.57**	**ft.**	**vol/ft:**	**1.47**	**gal/ft**
Water Length:	**30.33**	**ft.**	**Case Vol:**	**44.60**	**gal**
Vol x 3 =	**133.80**	**gal**	**Vol x 5 =**	**223.00**	**gal**

**** Purge Monitoring ****

Purge Method: Well Wizard

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	7.44	453	12.7	3.79	lt Brown	12.40	32.57	0.0	8:30
A.	7.09	485	13.3	3.03	Clear	1.52		45.0	9:15
B.	7.09	492	13.7	3.01	Clear	1.39		90.0	10:00
C.									
D.									
Post Purge	6.96	485	13.3	3.10	Clear	1.19	33.67	135.0	10:45
Pre-Sample		"	"	"	"	"	"	"	"
Sample								140.00	10:50
Post Sample	7.09	494	13.3	3.45	Clear	1.16	33.68	145.00	10:55

Purge End:	**10:45**		**Pump:**	**Dedicated Bladder**
Purge Start:	**8:30**		**Bailer:**	**N/A/**
Purge Length:	**135**		**Bailer Seal:**	**N/A**
Volume Purged:	**135.00**	**gal**	**Purge Rate:**	**1.00** GPM

Weather: Clear, Cool, Still.

Sampling Technicians: ***GB***

Comments:

ACCUTEST

Monitoring Well Field Sheet

Date: *10/22/2008*

Client: ***Wyeth***

Well ID: **Well:** ***RCRA-D9*** **Location:** ***A.H.P Boundbrook***

Well Depth:	**87.70**	**ft.**	**Case Size:**	**6.0**	**inch**
DTWTOC:	**25.11**	**ft.**	**vol/ft:**	**1.47**	**gal/ft**
Water Length:	**62.59**	**ft.**	**Case Vol:**	**92.00**	**gal**
Vol x 3 =	**276.00**	**gal**	**Vol x 5 =**	**460.00**	**gal**

******* Purge Monitoring *******

Purge Method: Well Wizard

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	6.23	652	14.2	2.15	Clear	0.86	25.11	0.0	8:08
A.	6.70	551	13.8	2.64	Clear	1.59		93.0	9:41
B.	6.80	574	13.8	3.63	Clear	2.61		186.0	11:14
C.									
D.									
Post Purge	6.90	581	14.2	3.96	Clear	1.72	43.08	279.0	12:47
Pre-Sample		"	"	"	"	"	"	"	"
Sample								282.00	12:50
Post Sample	6.90	588	14.2	3.57	Clear	2.09	43.09	287.00	12:55

Purge End:	**12:47**	**Pump:**	**Dedicated Bladder**
Purge Start:	**8:08**	**Bailer:**	**N/A/**
Purge Length:	**279**	**Bailer Seal:**	**N/A**
Volume Purged:	**279.00** **gal**	**Purge Rate:**	**1.00** GPM

Weather: Clear, Cool, Still.

Sampling Technicians: ***GB***

Comments:

ACCUTEST (r.11/13)

Monitoring Well Field Sheet

Date: *10/22/2008*

Client: ***Wyeth***

Well ID: **Well:** ***RCRA-D10*** **Location:** ***A.H.P Boundbrook***

Well Depth:	**72.40**	**ft.**	**Case Size:**	**6.0**	**inch**
DTWTOC:	**37.64**	**ft.**	**vol/ft:**	**1.47**	**gal/ft**
Water Length:	**34.76**	**ft.**	**Case Vol:**	**51.10**	**gal**
Vol x 3 =	**153.30**	**gal**	**Vol x 5 =**	**255.50**	**gal**

**** Purge Monitoring ****

Purge Method: Well Wizard

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	7.07	312	13.4	6.60	Clear	1.52	37.64	0.0	8:21
A.	7.13	493	12.6	6.89	Clear	1.97		52.0	9:13
B.	7.18	247	13.1	5.87	Clear	1.78		104.0	10:05
C.									
D.									
Post Purge	7.21	435	13.0	5.44	Clear	1.48	41.78	156.0	10:57
Pre-Sample		"	"	"	"	"	"	"	"
Sample								159.00	11:00
Post Sample	7.19	245	12.7	6.19	Clear	1.40	41.49	164.00	11:05

Purge End:	**10:57**	**Pump:**	**Dedicated Bladder**
Purge Start:	**8:21**	**Bailer:**	**N/A/**
Purge Length:	**156**	**Bailer Seal:**	**N/A**
Volume Purged:	**156.00** **gal**	**Purge Rate:**	**1.00** GPM

Weather: Clear, Cool, Still.

Sampling Technicians: ***GB***

Comments: *Preformed Field Dupliccate on well RCRA-d10*

ACCUTEST

Monitoring Well Field Sheet

Date: *10/23/2008*

Client: ***Wyeth***

Well ID: **Well:** ***RCRA-D11*** **Location:** ***A.H.P Boundbrook***

Well Depth:	**89.80**	**ft.**	**Case Size:**	**6.0**	**inch**
DTWTOC:	**45.65**	**ft.**	**vol/ft:**	**1.47**	**gal/ft**
Water Length:	**44.15**	**ft.**	**Case Vol:**	**64.90**	**gal**
Vol x 3 =	**194.70**	**gal**	**Vol x 5 =**	**324.50**	**gal**

**** Purge Monitoring ****

Purge Method: Well Wizard

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	6.84	249	12.1	5.75	Clear	0.72	45.65	0.0	8:48
A.	7.14	461	12.7	4.67	Clear	0.76		65.0	9:53
B.	7.10	468	13.4	4.47	Clear	0.84		130.0	10:58
C.									
D.									
Post Purge	7.36	469	12.8	4.53	Clear	0.24	46.72	195.0	12:03
Pre-Sample		"	"	"	"	"	"	"	"
Sample								140.00	12:15
Post Sample	7.39	467	12.7	4.83	Clear	0.26	46.78	145.00	12:20

Purge End:	**12:03**	**Pump:**	**Dedicated Bladder**
Purge Start:	**8:48**	**Bailer:**	**N/A/**
Purge Length:	**195**	**Bailer Seal:**	**N/A**
Volume Purged:	**195.00** **gal**	**Purge Rate:**	**1.00** GPM

Weather: Clear, Cool, Still.

Sampling Technicians: ***GB***

Comments:

ACCUTEST (r.11/13)

Monitoring Well Field Sheet

Date: *10/23/2008*

Client: ***Wyeth***

Well ID: **Well:** ***RCRA-D12*** **Location:** ***A.H.P Boundbrook***

Well Depth:	**77.10**	**ft.**	**Case Size:**	**6.0**	**inch**
DTWTOC:	**46.82**	**ft.**	**vol/ft:**	**1.47**	**gal/ft**
Water Length:	**30.28**	**ft.**	**Case Vol:**	**44.51**	**gal**
Vol x 3 =	**133.53**	**gal**	**Vol x 5 =**	**222.55**	**gal**

**** Purge Monitoring ****

Purge Method: Well Wizard

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	7.14	803	11.9	9.35	Clear	1.13	46.82	0.0	8:59
A.	6.39	863	12.7	3.21	Clear	3.43		45.0	9:44
B.	6.19	910	13.8	3.12	Clear	2.42		90.0	10:29
C.									
D.									
Post Purge	6.36	939	14.3	3.32	Clear	1.51	48.61	135.0	11:14
Pre-Sample		"	"	"	"	"	"	"	"
Sample								136.00	11:15
Post Sample	6.55	959	14.3	3.44	Clear	1.58	48.63	140.00	11:20

Purge End:	**11:14**	**Pump:**	**Dedicated Bladder**
Purge Start:	**8:59**	**Bailer:**	**N/A/**
Purge Length:	**135**	**Bailer Seal:**	**N/A**
Volume Purged:	**135.00** **gal**	**Purge Rate:**	**1.00** GPM

Weather: Clear, Cool, Still.

Sampling Technicians: ***GB***

Comments: *preform MS/MSD sampling on well RCRAD-12*

ACCUTEST

Monitoring Well Field Sheet

Date: *10/23/2008*

Client: ***Wyeth***

Well ID: **Well:** ***RCRA-D13*** **Location:** ***A.H.P Boundbrook***

Well Depth:	**85.90**	**ft.**	**Case Size:**	**6.0**	**inch**
DTWTOC:	**48.03**	**ft.**	**vol/ft:**	**1.47**	**gal/ft**
Water Length:	**37.87**	**ft.**	**Case Vol:**	**55.70**	**gal**
Vol x 3 =	**167.10**	**gal**	**Vol x 5 =**	**278.50**	**gal**

******* Purge Monitoring *******

Purge Method: Well Wizard

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	7.32	520	13.7	4.34	Clear	0.64	48.03	0.0	9:14
A.	7.01	542	13.3	4.16	Clear	0.62		56.0	10:10
B.	7.03	454	13.9	2.77	Clear	0.77		112.0	11:06
C.									
D.									
Post Purge	7.07	447	14.5	3.12	Clear	0.39	50.74	168.0	12:02
Pre-Sample		"	"	"	"	"	"	"	"
Sample								171.00	12:05
Post Sample	7.28	256	15.0	2.57	Clear	0.34	50.15	176.00	12:10

Purge End:	**12:02**	**Pump:**	**Dedicated Bladder**
Purge Start:	**9:14**	**Bailer:**	**N/A/**
Purge Length:	**168**	**Bailer Seal:**	**N/A**
Volume Purged:	**168.00** **gal**	**Purge Rate:**	**1.00** GPM

Weather: Clear, Cool, Still.

Sampling Technicians: ***GB***

Comments:

ACCUTEST (r.11/13)

Monitoring Well Field Sheet

Date: *10/22/2008*

Client: ***Wyeth***

Well ID: **Well:** ***RCRA-D14*** **Location:** ***A.H.P Boundbrook***

Well Depth:	**80.50**	**ft.**	**Case Size:**	**6.0**	**inch**
DTWTOC:	**43.05**	**ft.**	**vol/ft:**	**1.47**	**gal/ft**
Water Length:	**37.45**	**ft.**	**Case Vol:**	**55.05**	**gal**
Vol x 3 =	**165.15**	**gal**	**Vol x 5 =**	**275.25**	**gal**

******* Purge Monitoring *******

Purge Method: Well Wizard

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	7.45	359	13.8	7.29	Clear	0.92	43.05	0.0	11:27
A.	7.40	363	13.3	6.19	Clear	1.09		56.0	12:23
B.	7.40	353	13.4	5.72	Clear	1.42		112.0	13:19
C.									
D.									
Post Purge	7.43	340	13.3	5.08	Clear	1.04	43.42	168.0	14:15
Pre-Sample		"	"	"	"	"	"	"	"
Sample								173.00	14:20
Post Sample	7.37	162	12.7	5.53	Clear	0.46	43.38	178.00	14:25

Purge End:	**14:15**	**Pump:**	**Dedicated Bladder**
Purge Start:	**11:27**	**Bailer:**	**N/A/**
Purge Length:	**168**	**Bailer Seal:**	**N/A**
Volume Purged:	**168.00** **gal**	**Purge Rate:**	**1.00** GPM

Weather: Clear, Cool, Still.

Sampling Technicians: ***GB***

Comments:

ACCUTEST

Monitoring Well Field Sheet

Date: *11/14/2008*

Client: ***Wyeth***

Well ID: **Well:** ***RCRA-D15*** **Location:** ***A.H.P Boundbrook***

Well Depth:	**83.90**	**ft.**	**Case Size:**	**6.0**	**inch**
DTWTOC:	**42.11**	**ft.**	**vol/ft:**	**1.47**	**gal/ft**
Water Length:	**41.79**	**ft.**	**Case Vol:**	**61.43**	**gal**
Vol x 3 =	**184.29**	**gal**	**Vol x 5 =**	**307.16**	**gal**

**** Purge Monitoring ****

Purge Method: Well Wizard

	pH	S. Cond uohms/Con	Temp degree C	D.O mg/L	Color apparent	Turbitity ntu	DTW ft	Vol gal	Time
Pre-Purge	6.36	400	14.0	8.06	Clear	1.67	42.11	0.00	11:25
A.	6.42	396	13.8	5.26	Clear	2.76		64.00	12:29
B.	6.59	369	14.2	4.60	Clear	1.67		128.00	13:33
C.									
D.									
Post Purge	7.08	379	13.6	4.64	Clear	1.37	42.77	192.00	14:37
Pre-Sample		"	"	"	"	"	"	"	"
Sample								195.00	14:40
Post Sample	7.10	375	13.4	4.85	Clear	1.42	42.68	200.00	14:45

Purge End:	**14:37**	**Pump:**	**Dedicated Bladder**
Purge Start:	**11:25**	**Bailer:**	**N/A/**
Purge Length:	**192**	**Bailer Seal:**	**N/A**
Volume Purged:	**192.00** **gal**	**Purge Rate:**	**1.00** GPM

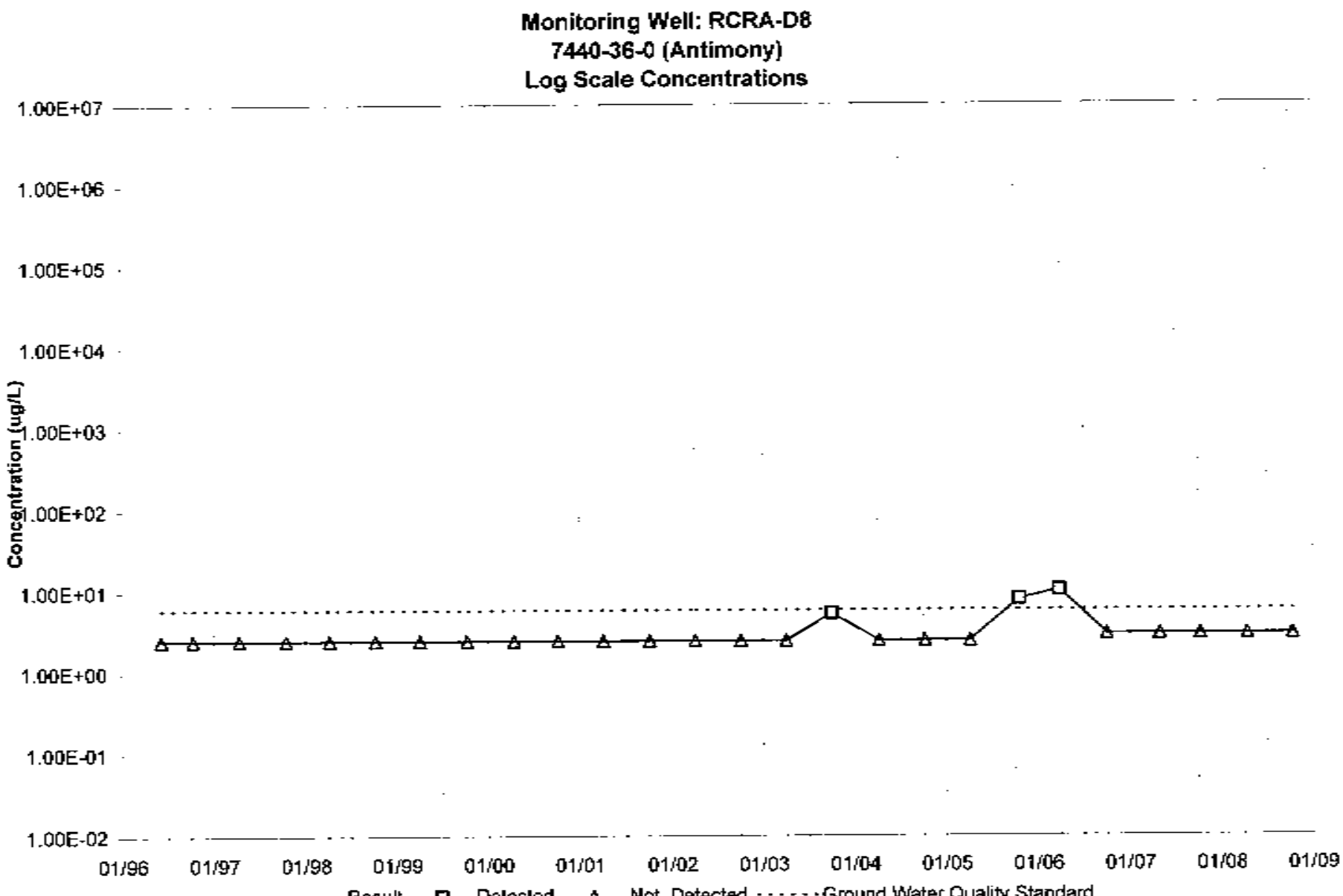
Weather: Overcast, Mild, Still, light Rain.

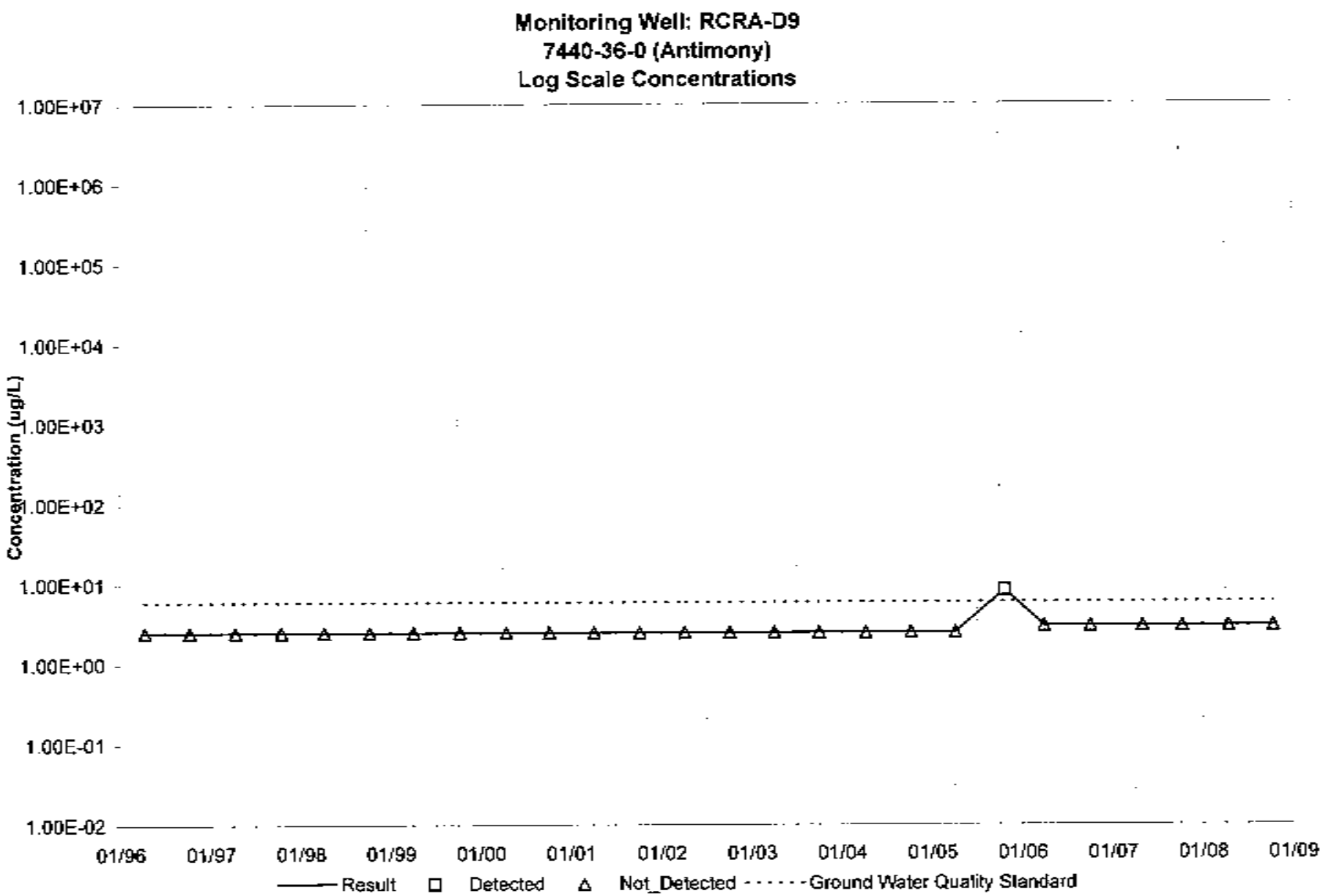
Sampling Technicians: ***G.B.*** ***H.M.***

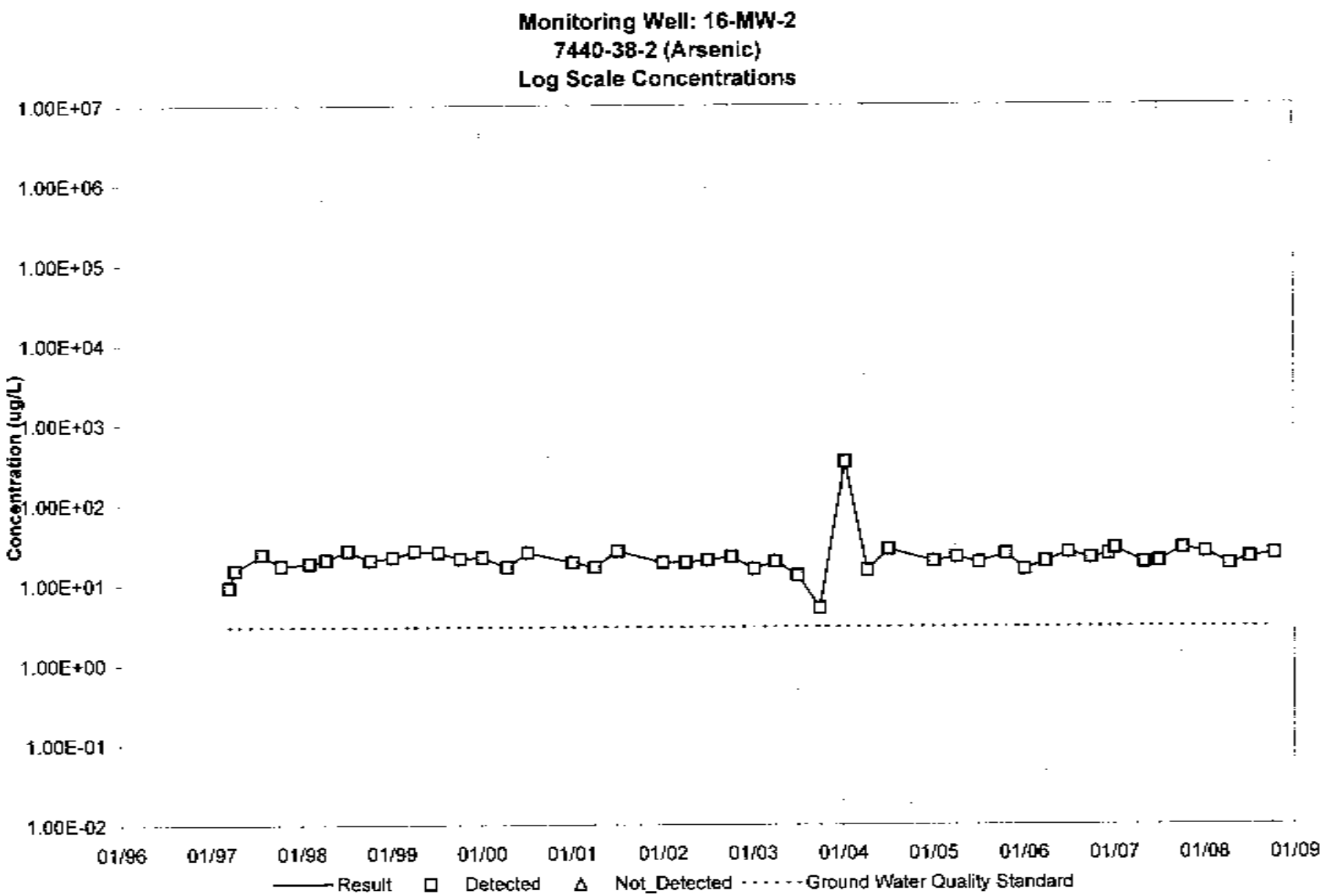
Comments:

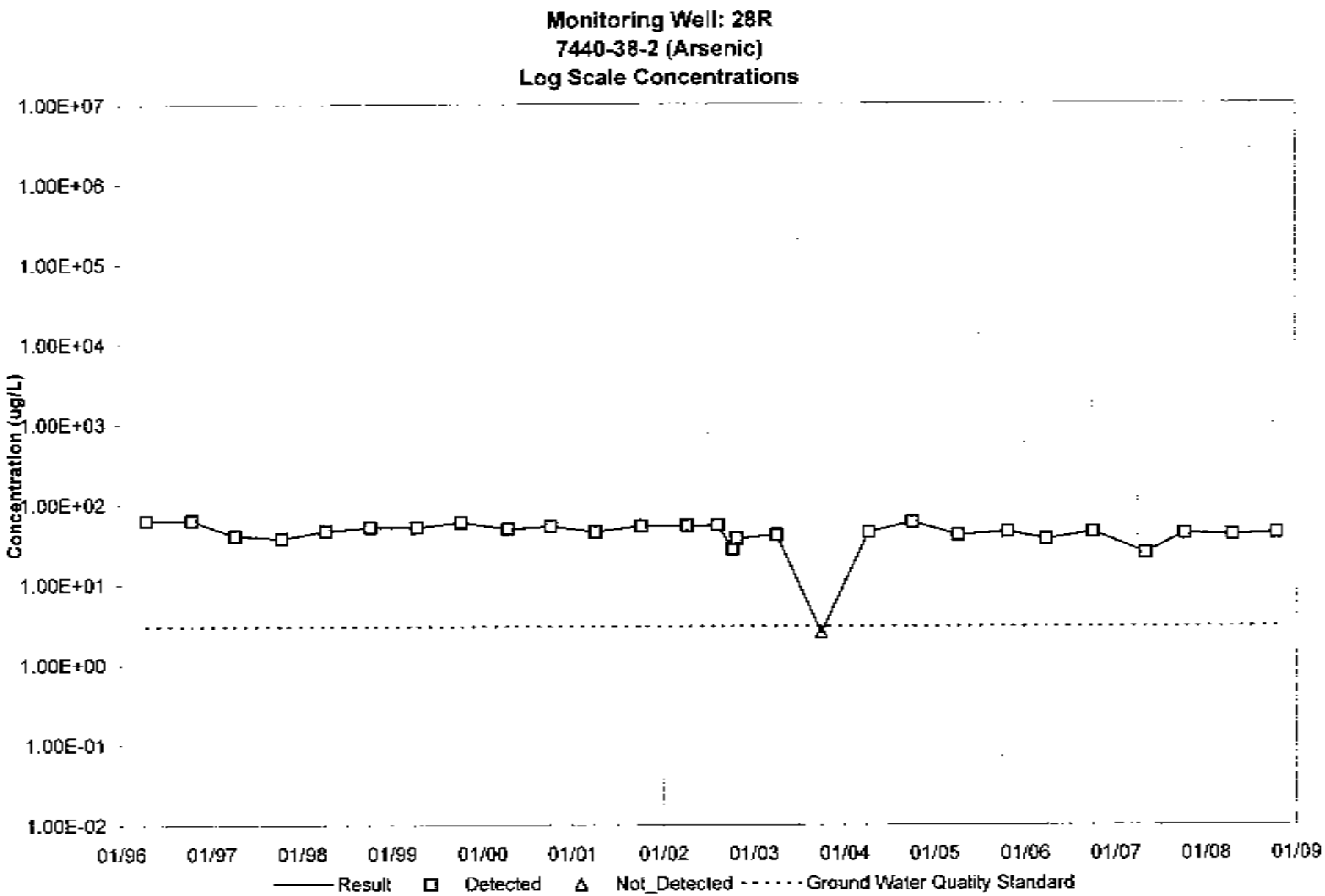
Appendix C

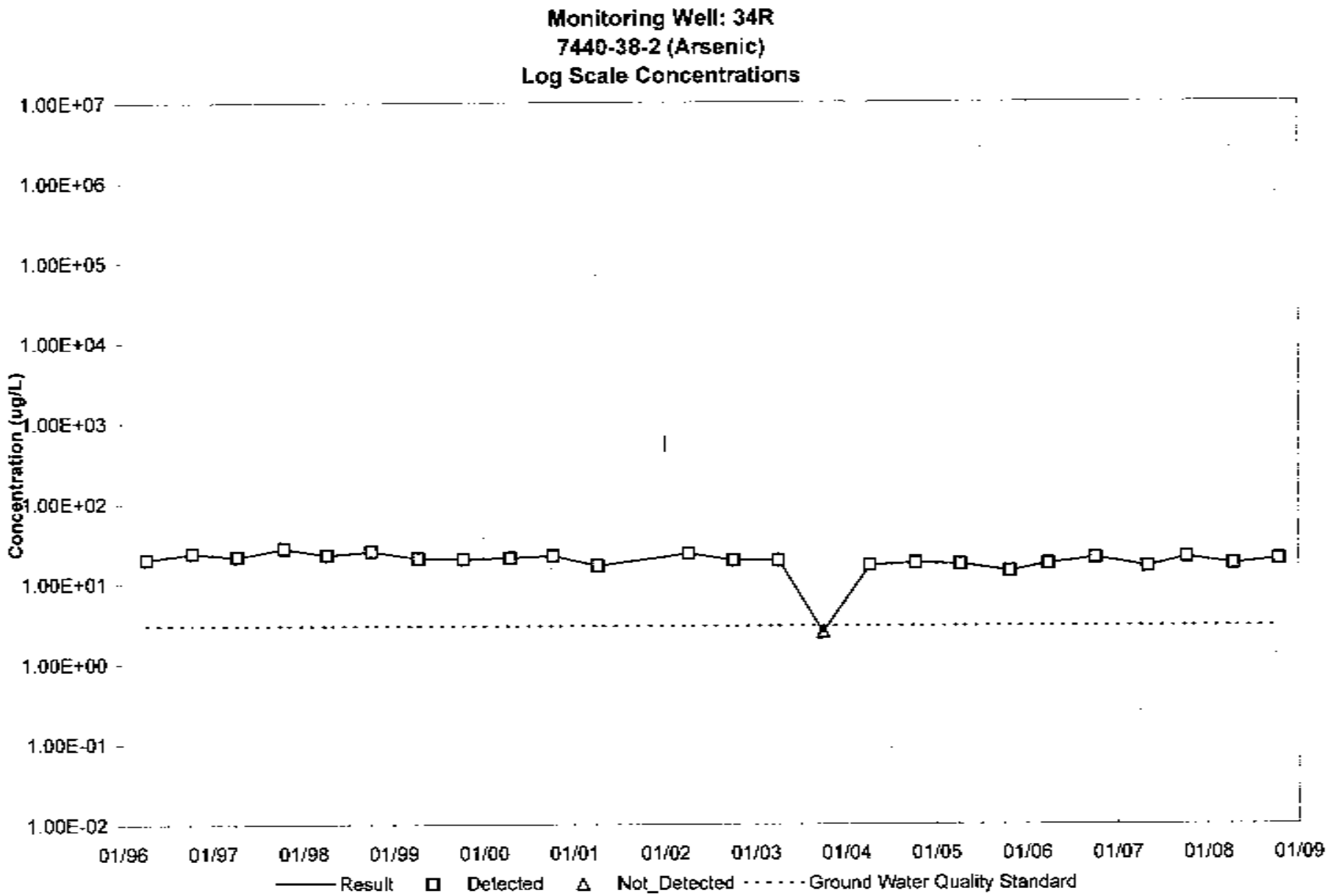
Trends Graphs

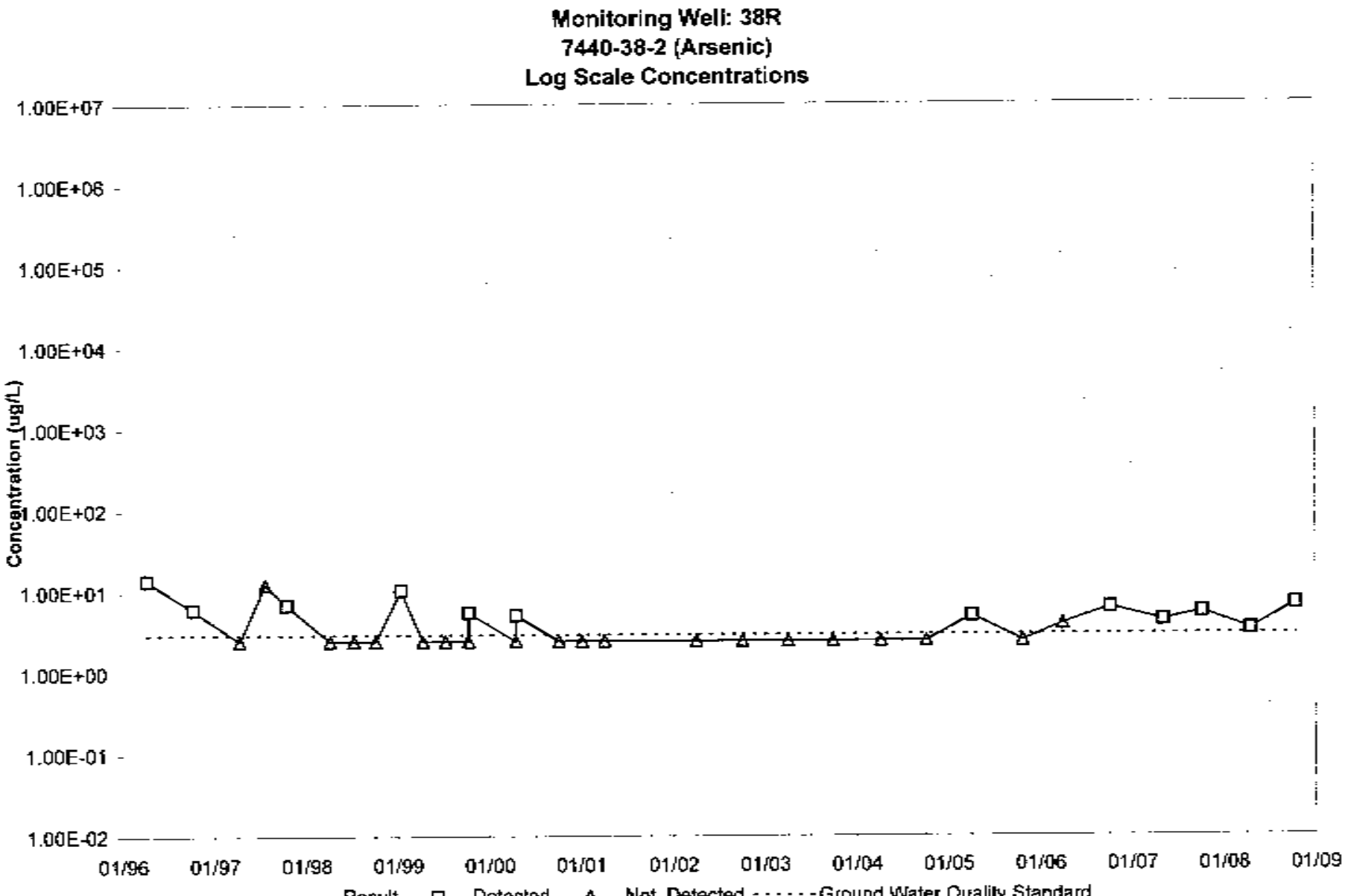

Monitoring Well: RCRA-D8
7440-36-0 (Antimony)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

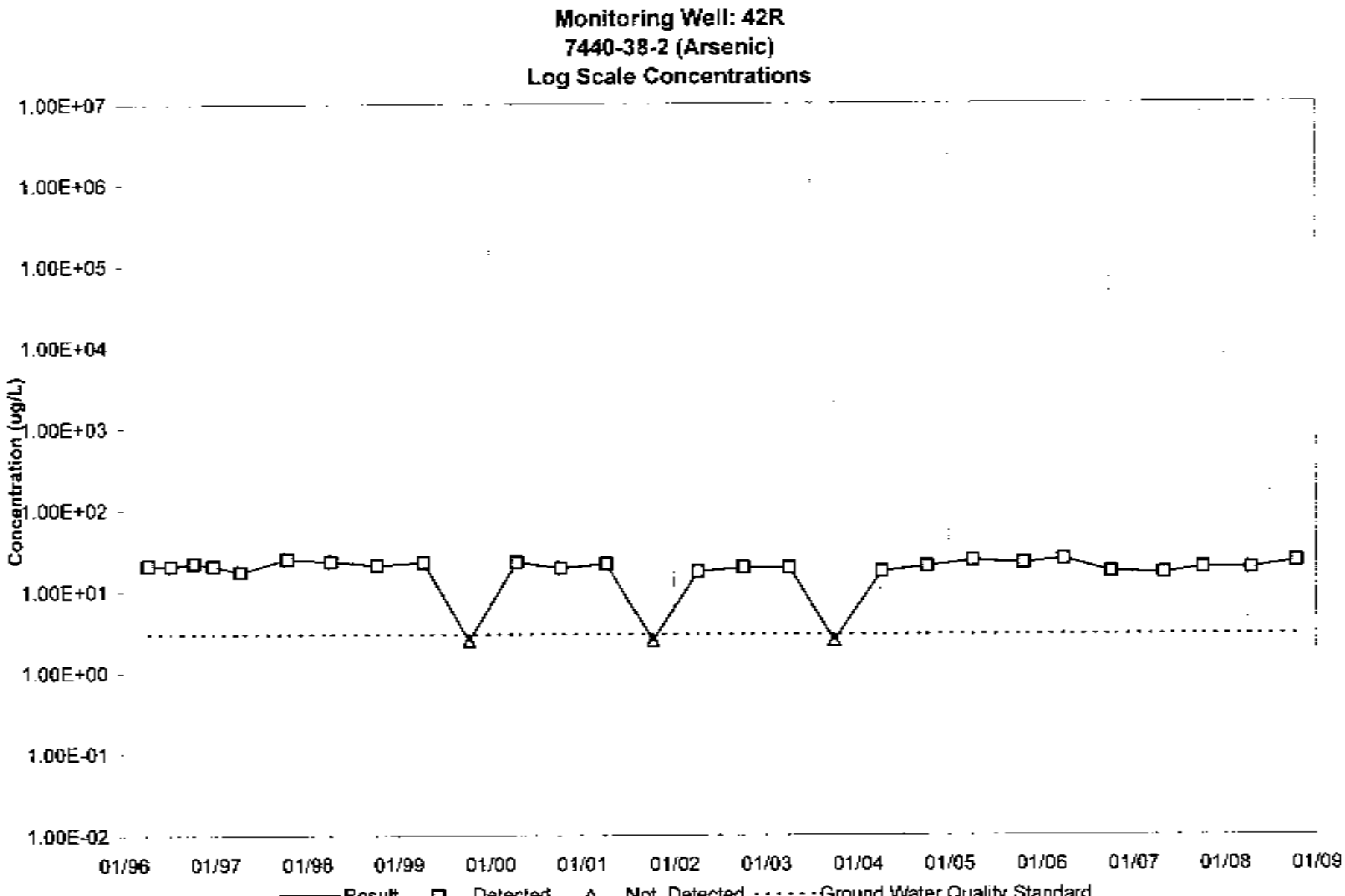

Monitoring Well: RCRA-D9
7440-36-0 (Antimony)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

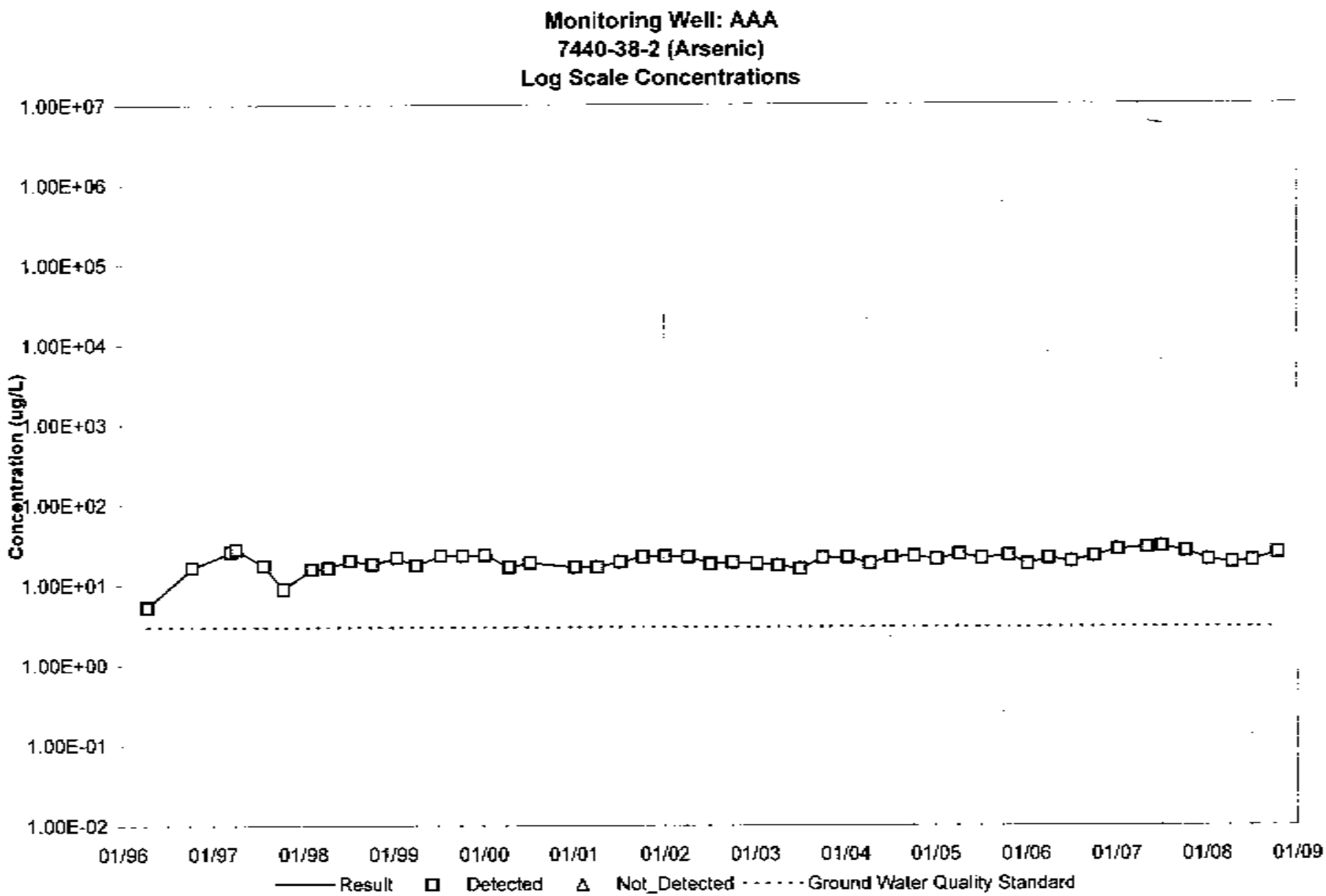

Monitoring Well: 16-MW-2
7440-38-2 (Arsenic)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard


Monitoring Well: 28R
7440-38-2 (Arsenic)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

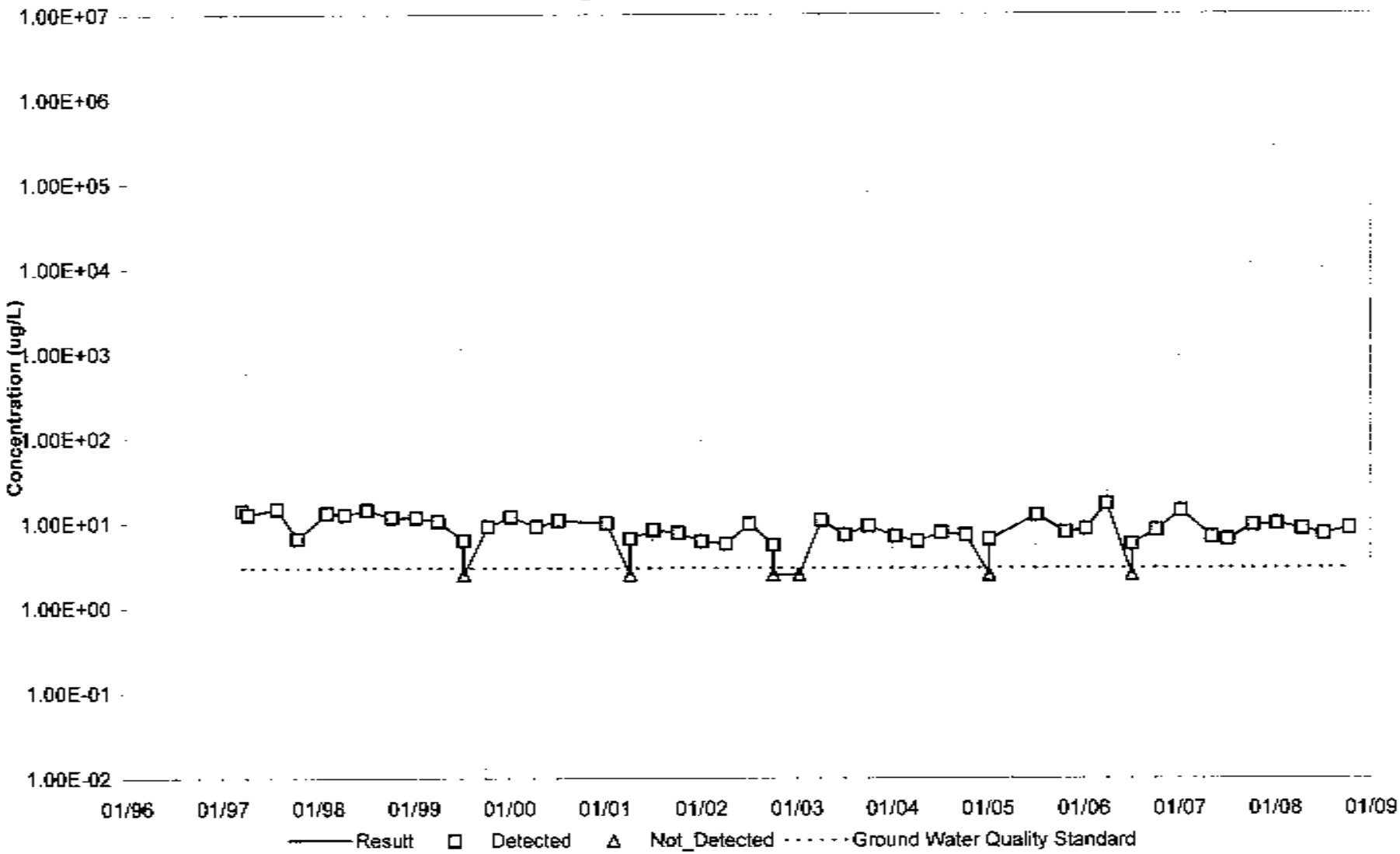

Monitoring Well: 34R
7440-38-2 (Arsenic)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

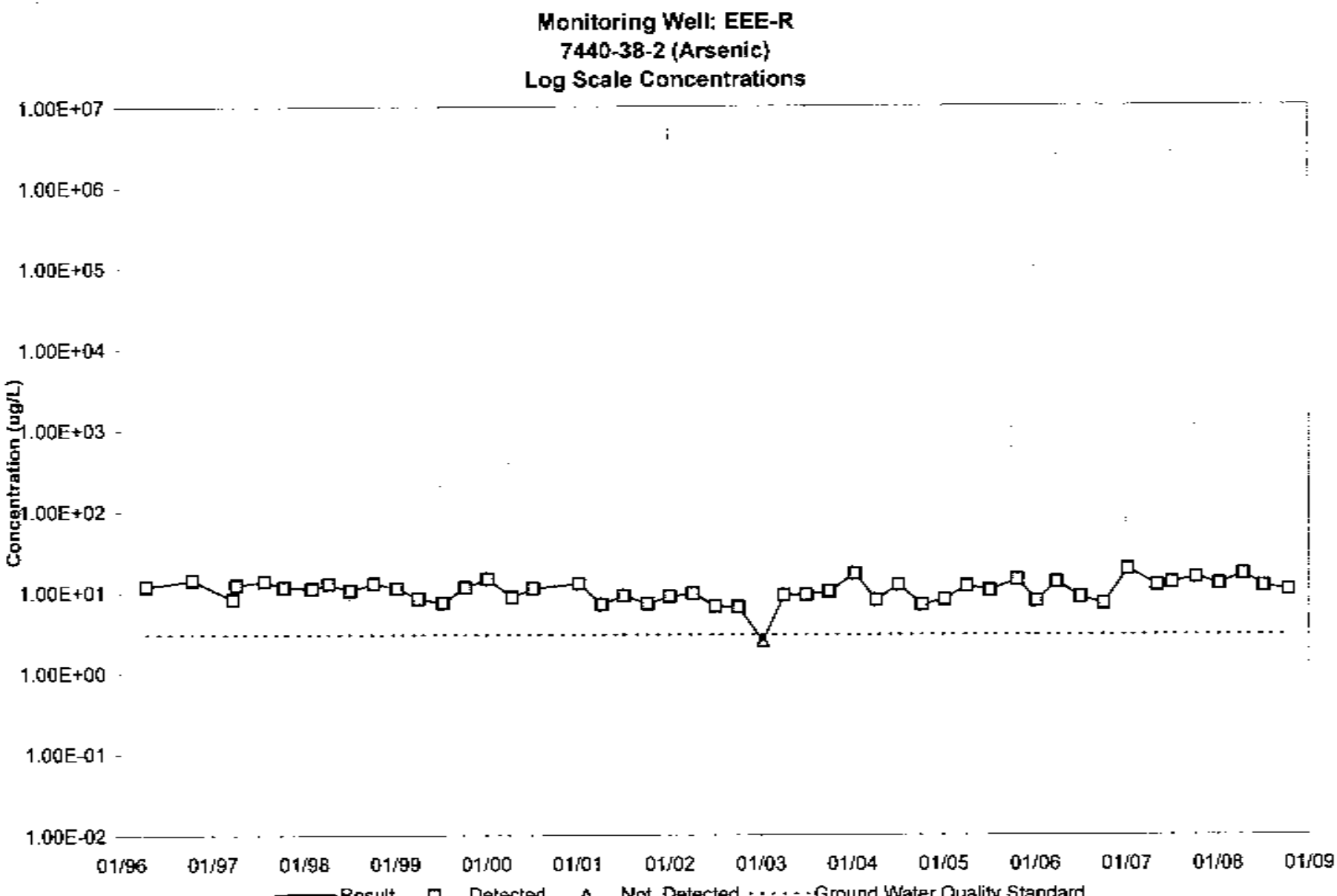

Monitoring Well: 38R
7440-38-2 (Arsenic)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

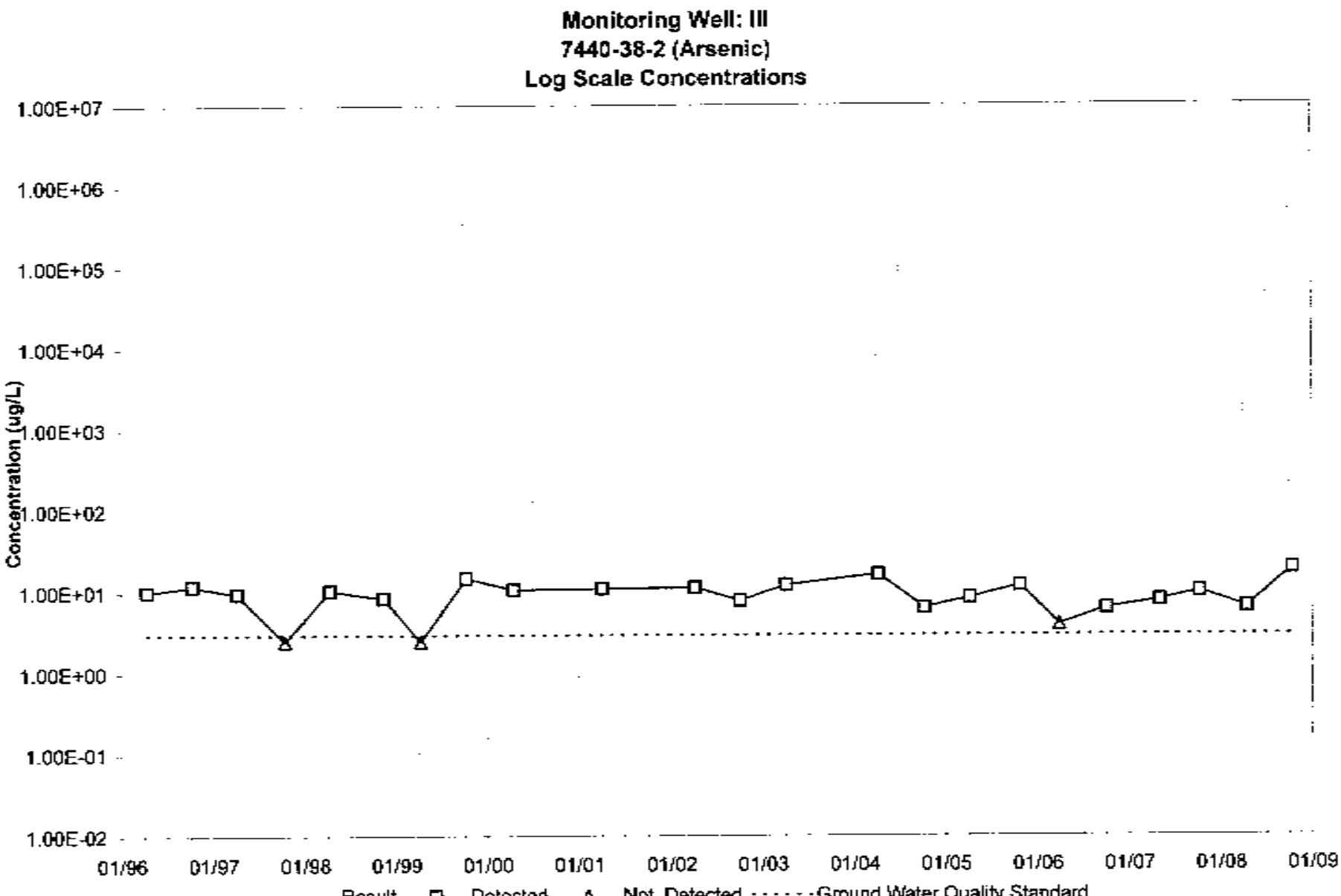

Monitoring Well: 42R
7440-38-2 (Arsenic)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

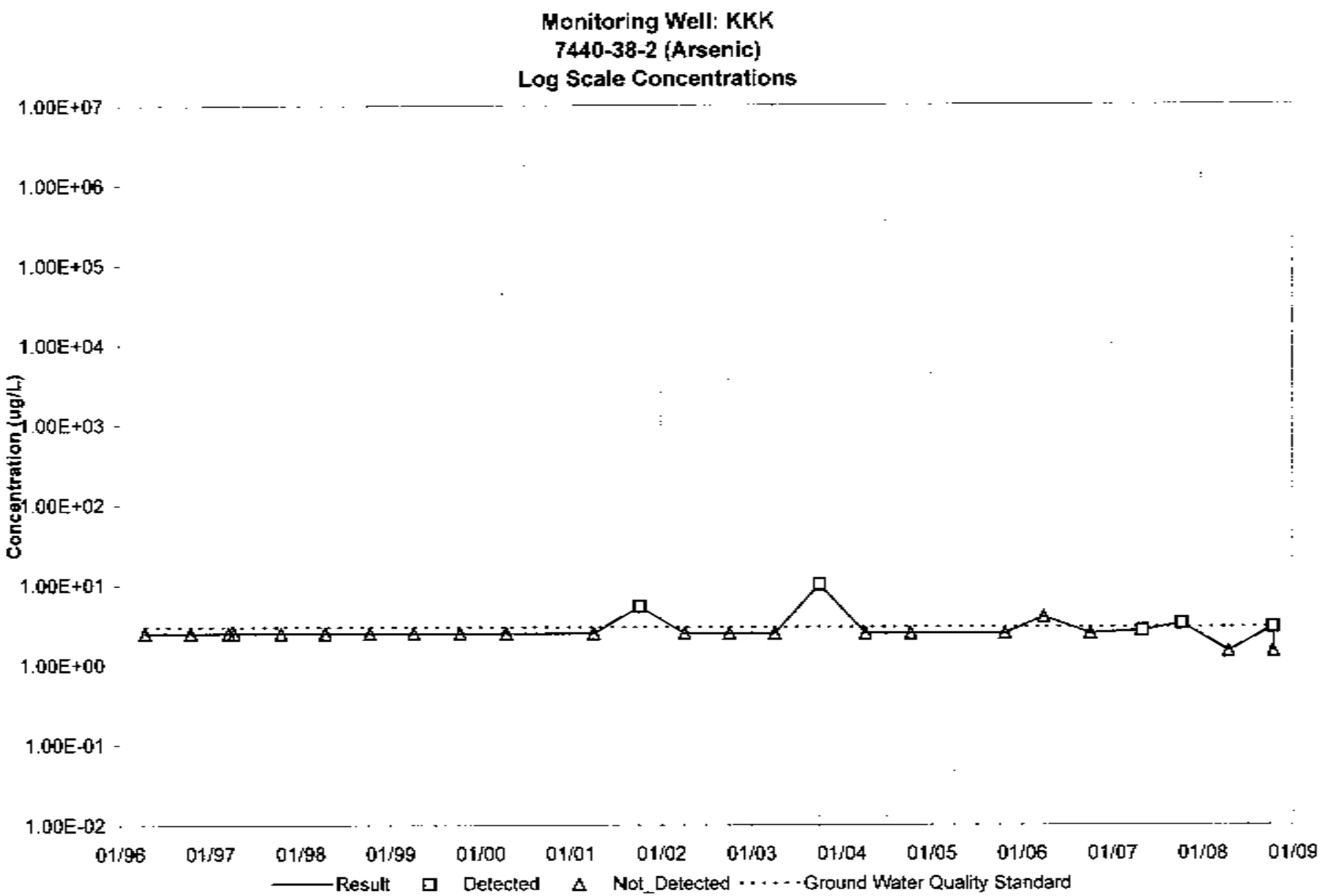

Monitoring Well: AAA
7440-38-2 (Arsenic)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

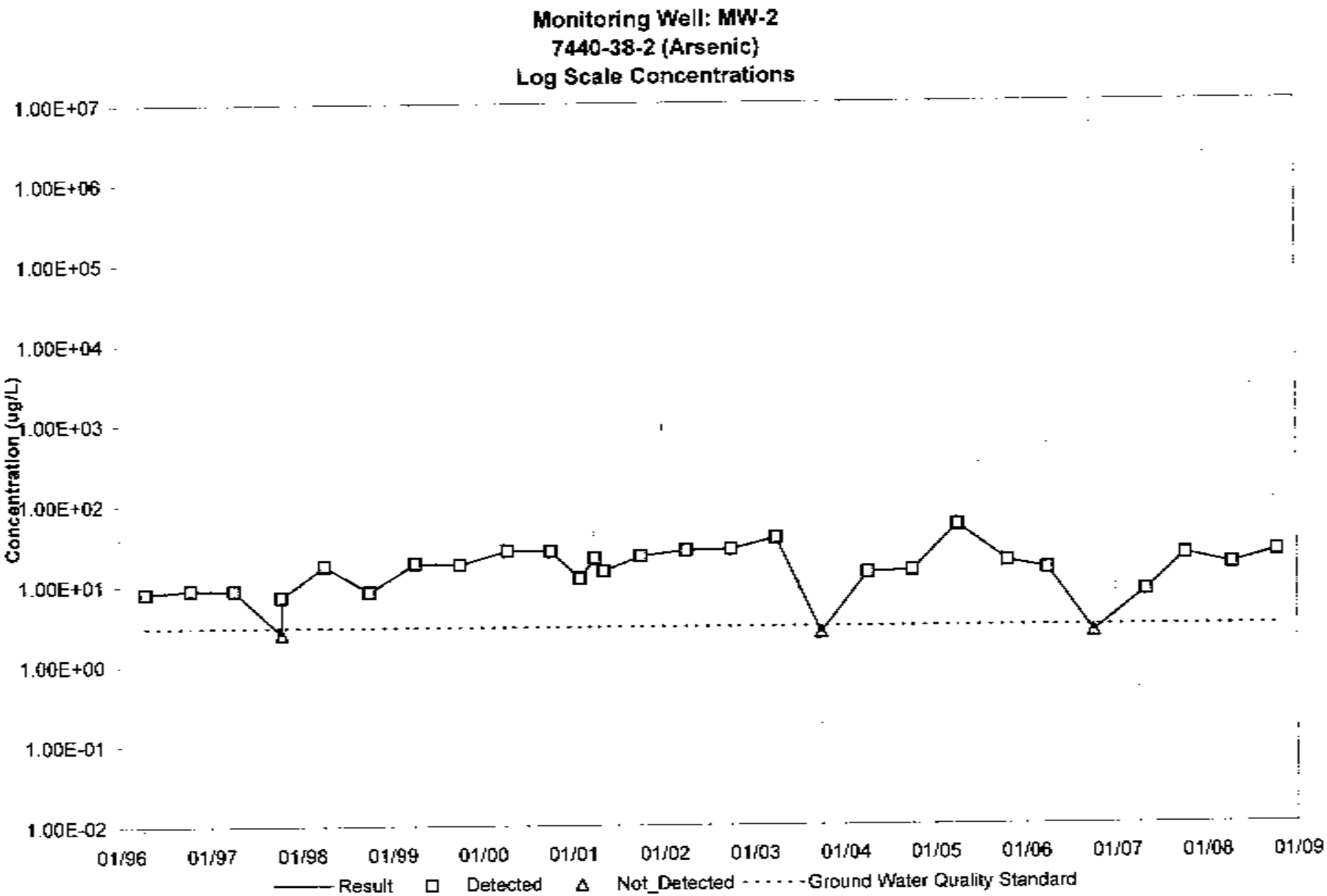
Monitoring Well: CCC-R
7440-38-2 (Arsenic)
Log Scale Concentrations

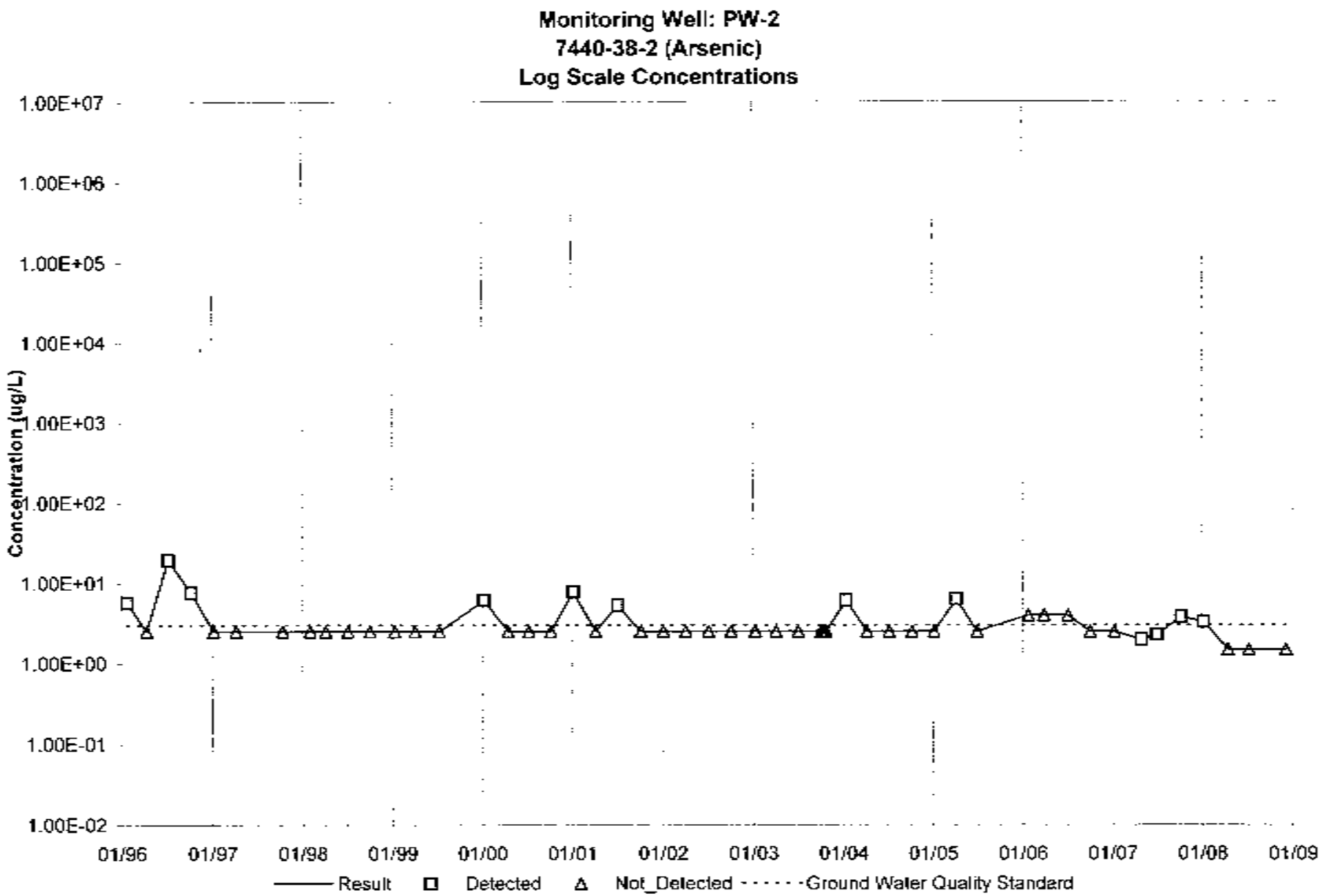


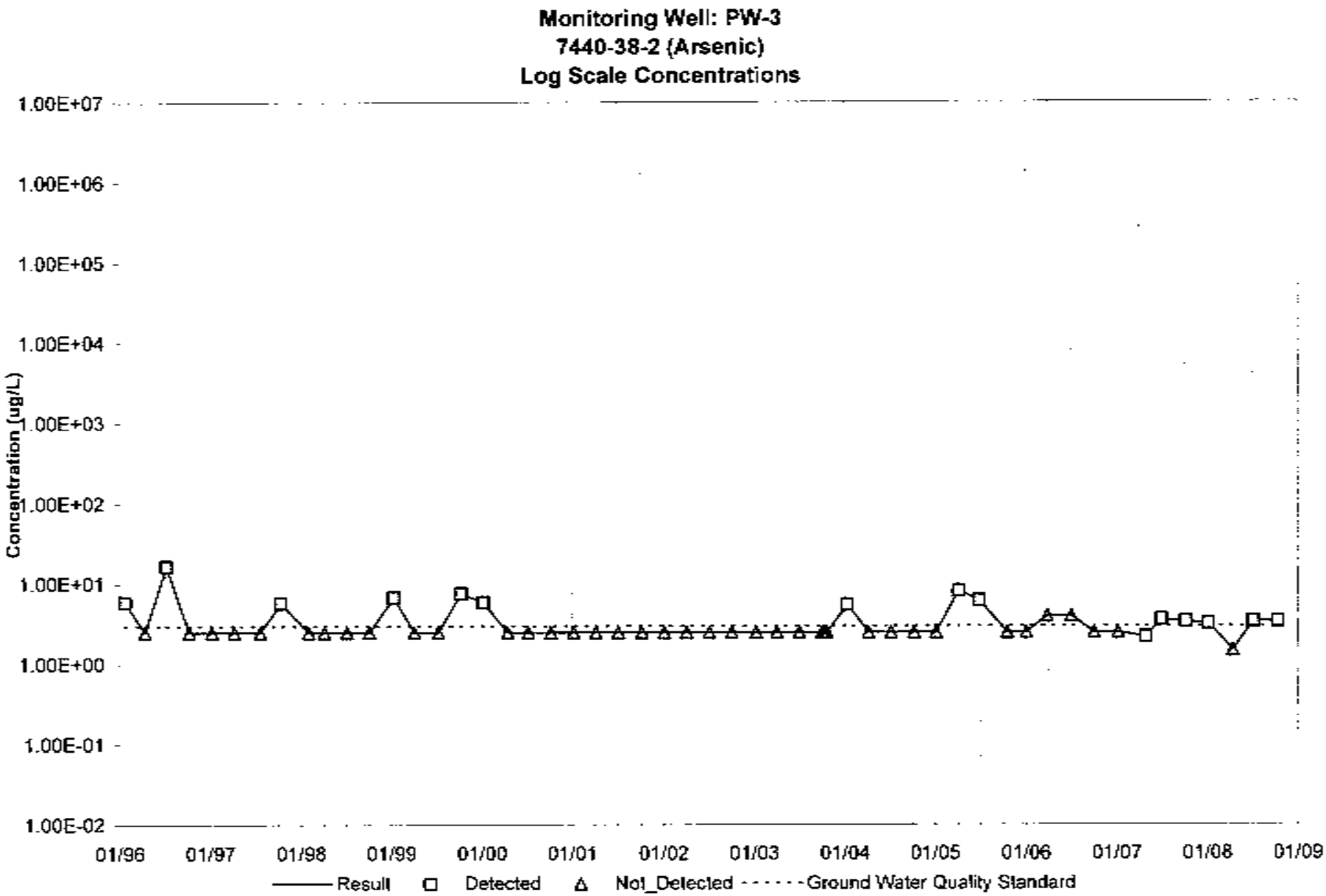

Monitoring Well: EEE-R
7440-38-2 (Arsenic)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

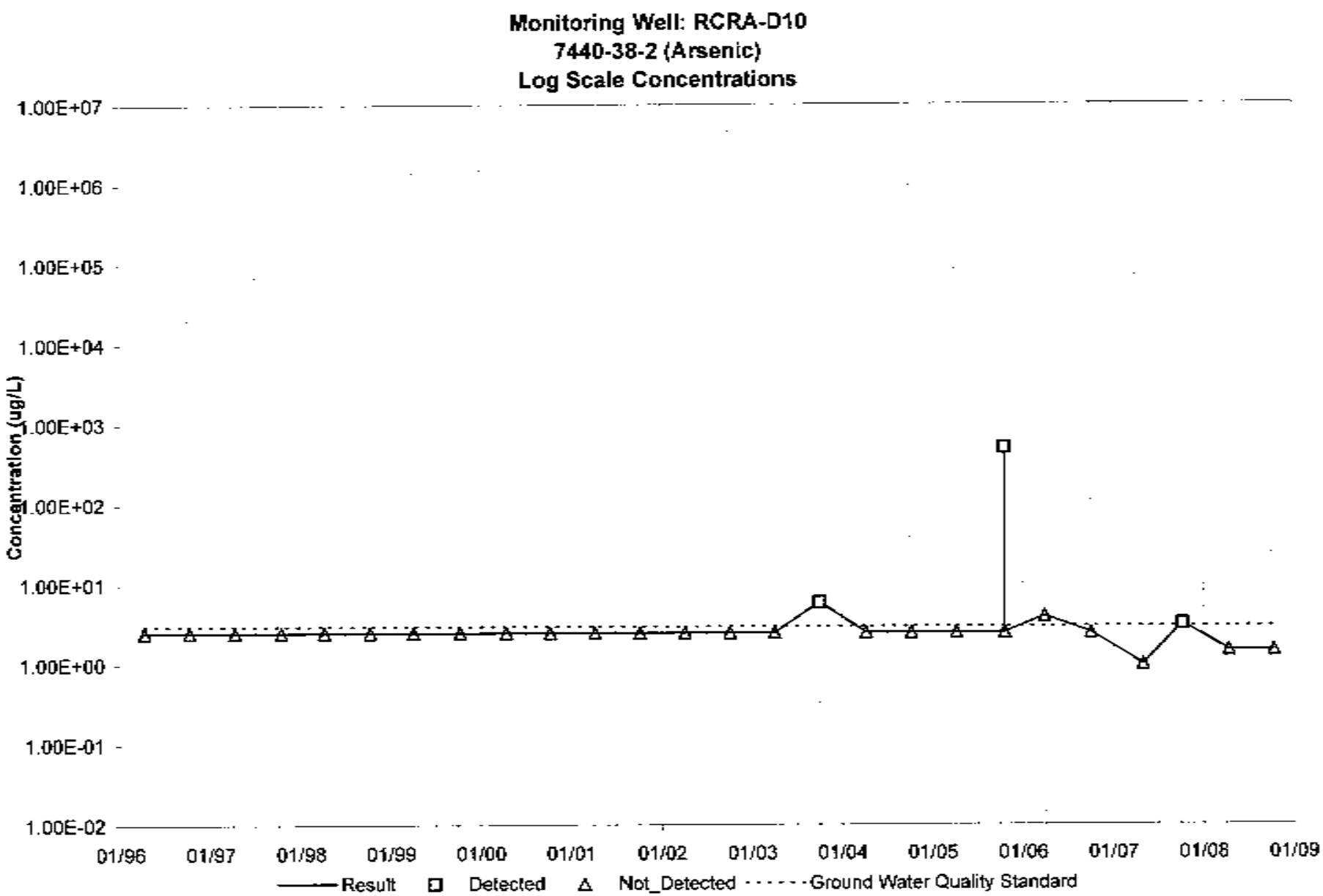

Monitoring Well: III
7440-38-2 (Arsenic)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

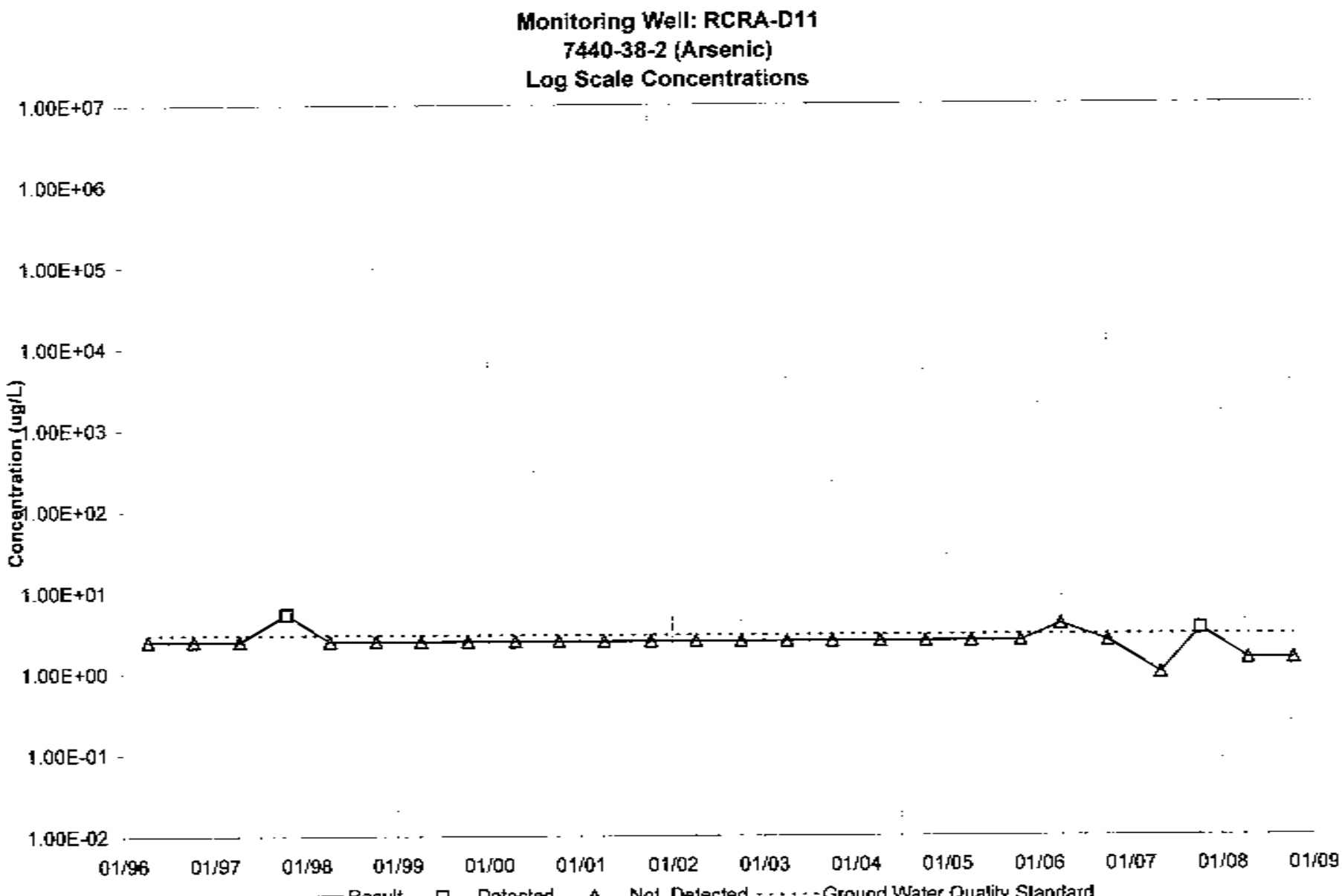

Monitoring Well: KKK
7440-38-2 (Arsenic)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

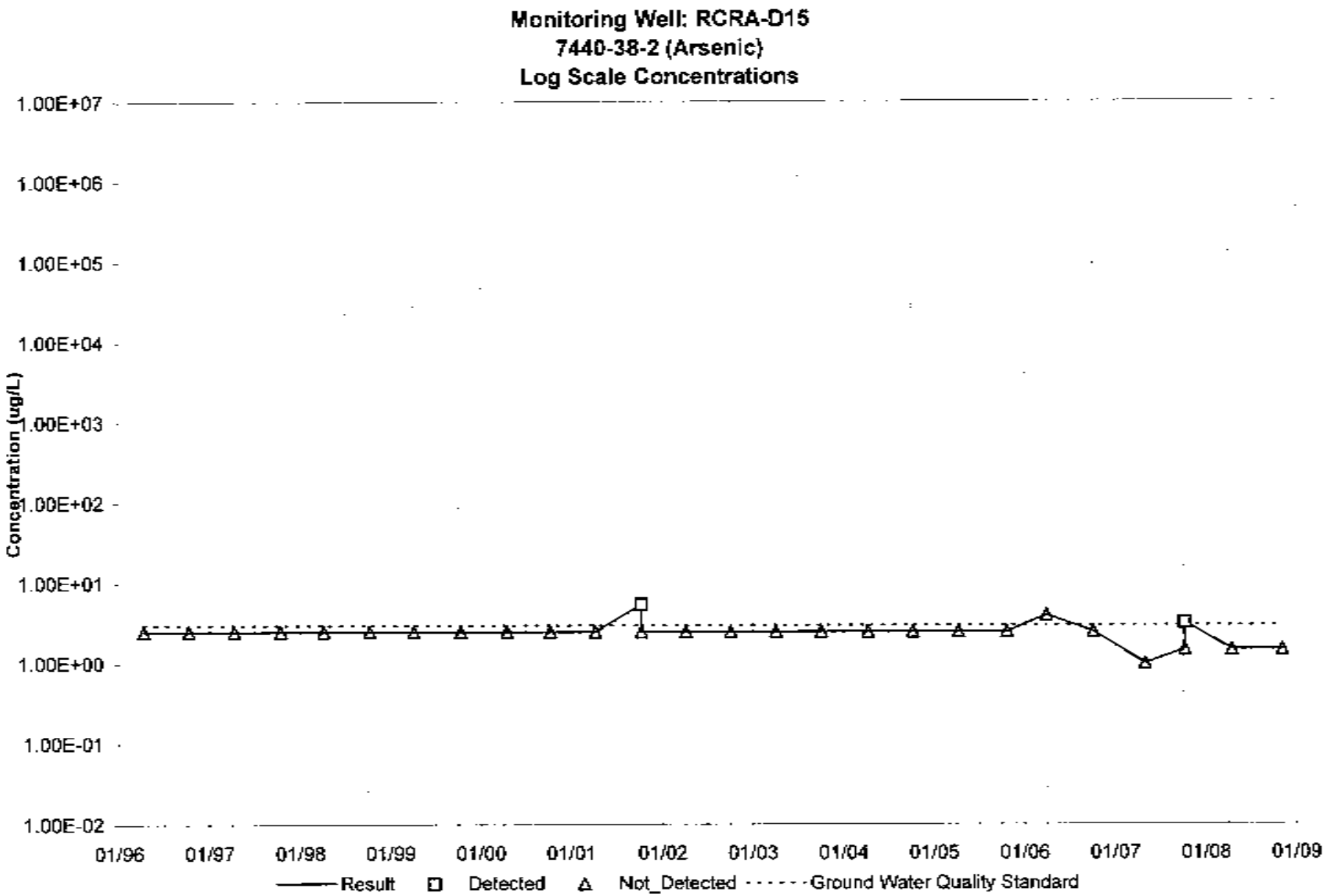

Monitoring Well: MW-2
7440-38-2 (Arsenic)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

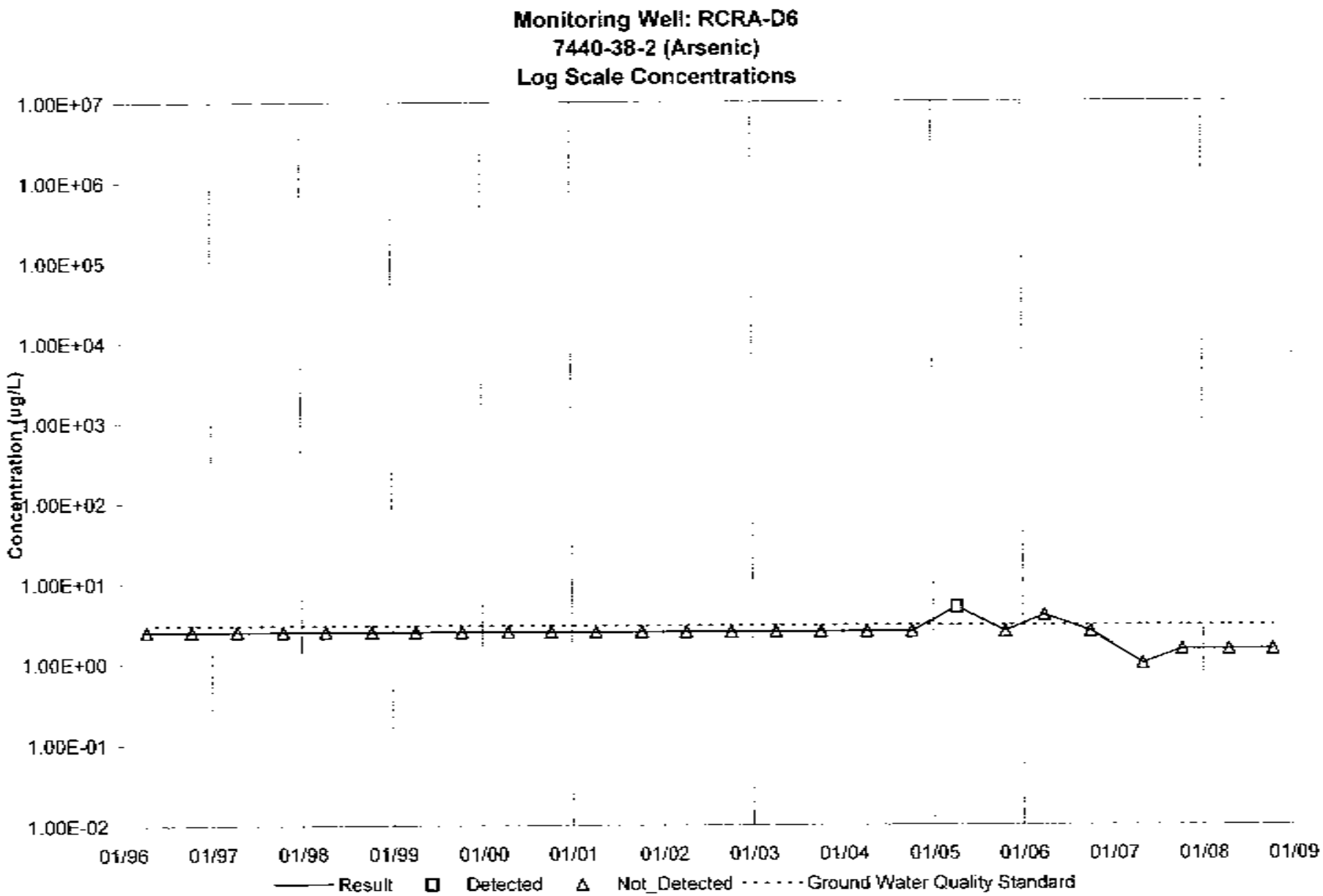

Monitoring Well: PW-2
7440-38-2 (Arsenic)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

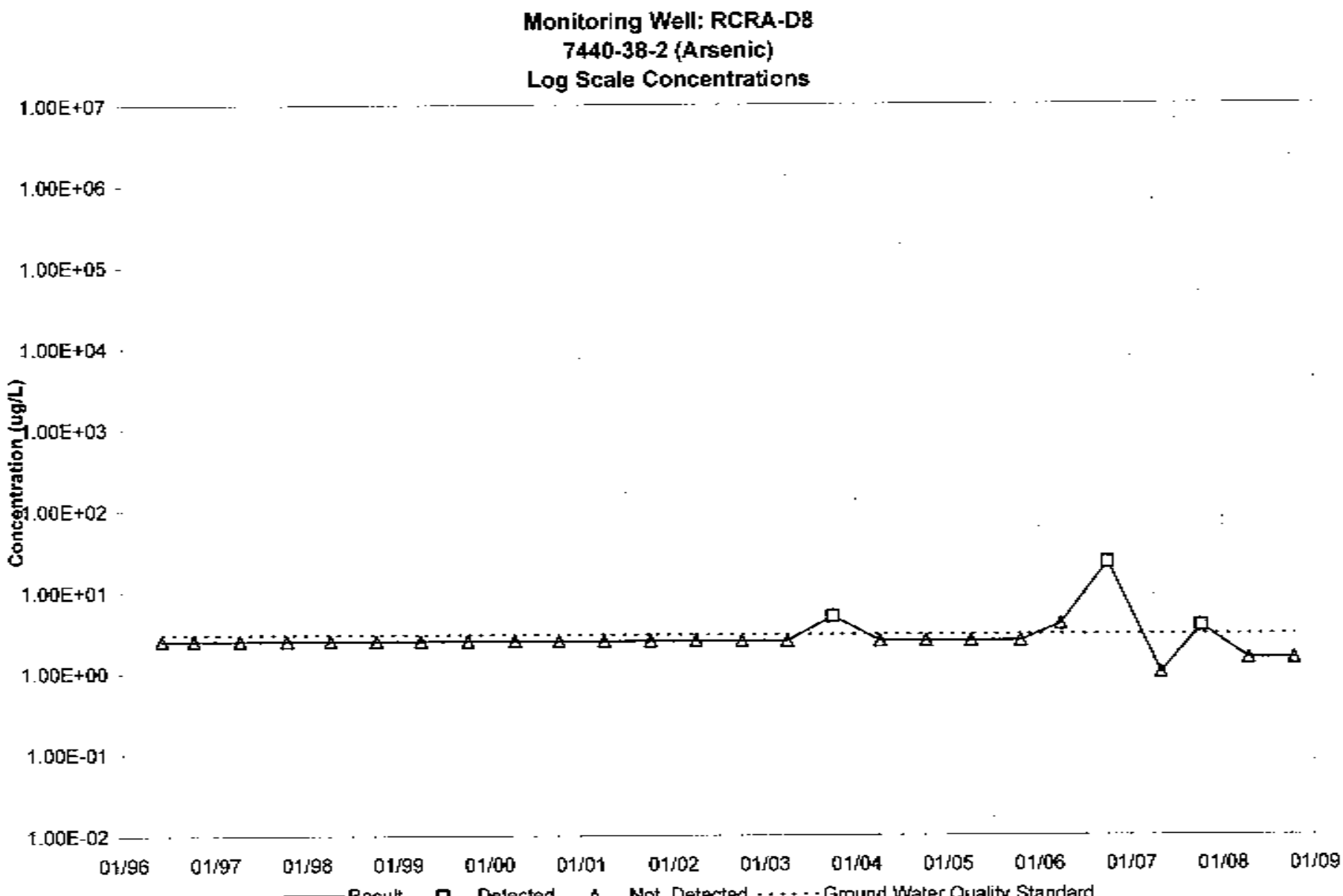

Monitoring Well: PW-3
7440-38-2 (Arsenic)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

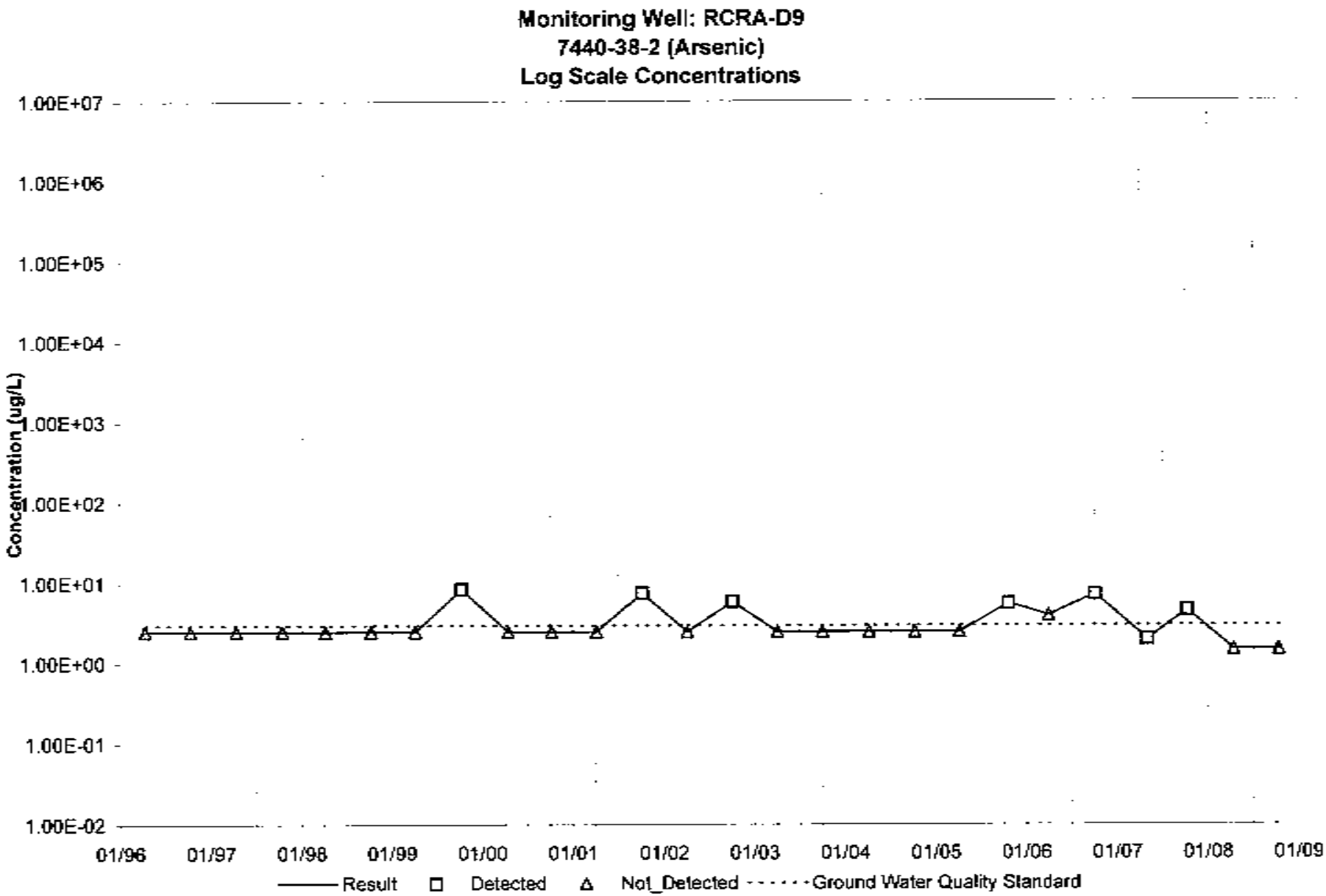

Monitoring Well: RCRA-D10
7440-38-2 (Arsenic)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard


Monitoring Well: RCRA-D11
7440-38-2 (Arsenic)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

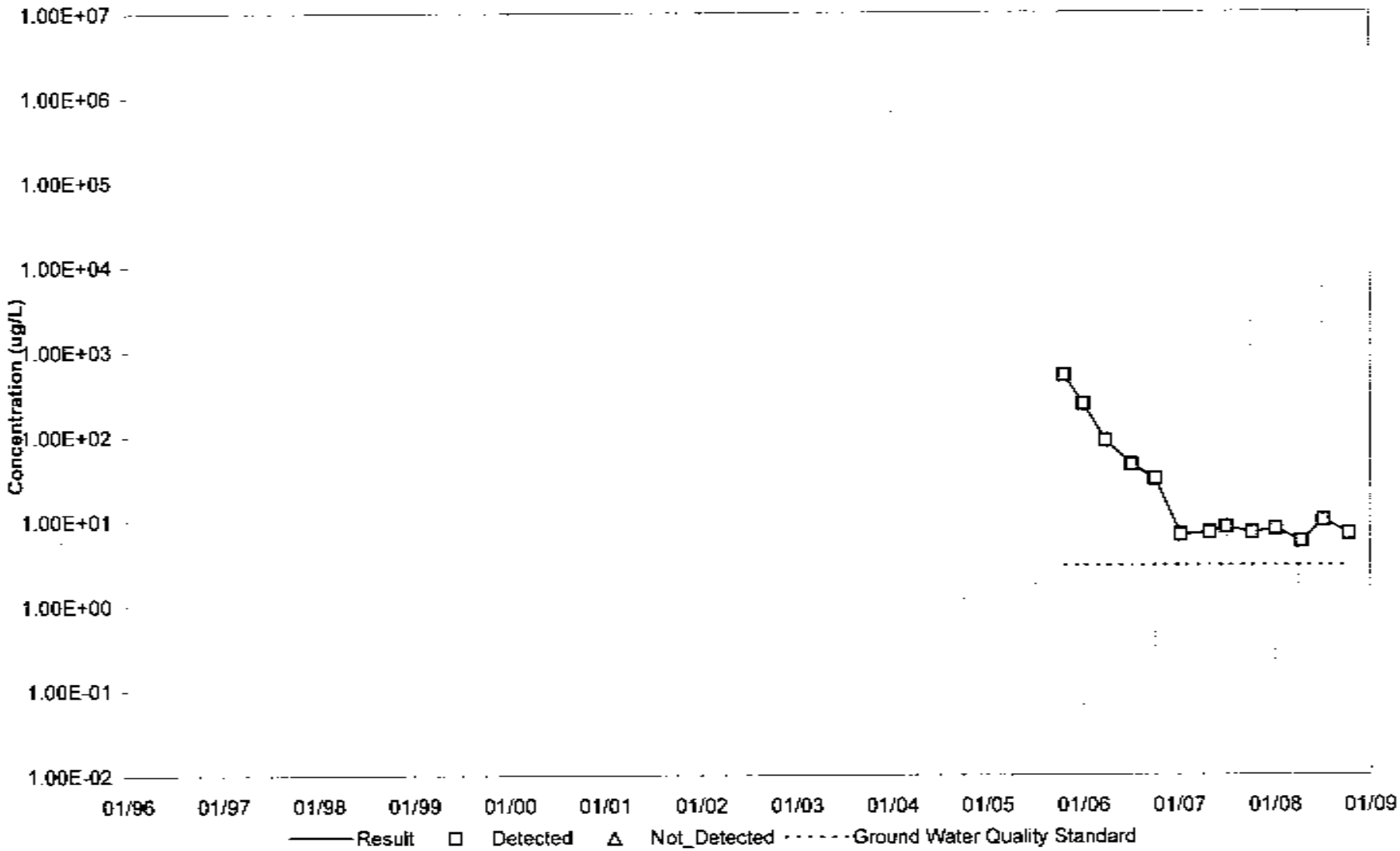

Monitoring Well: RCRA-D15
7440-38-2 (Arsenic)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

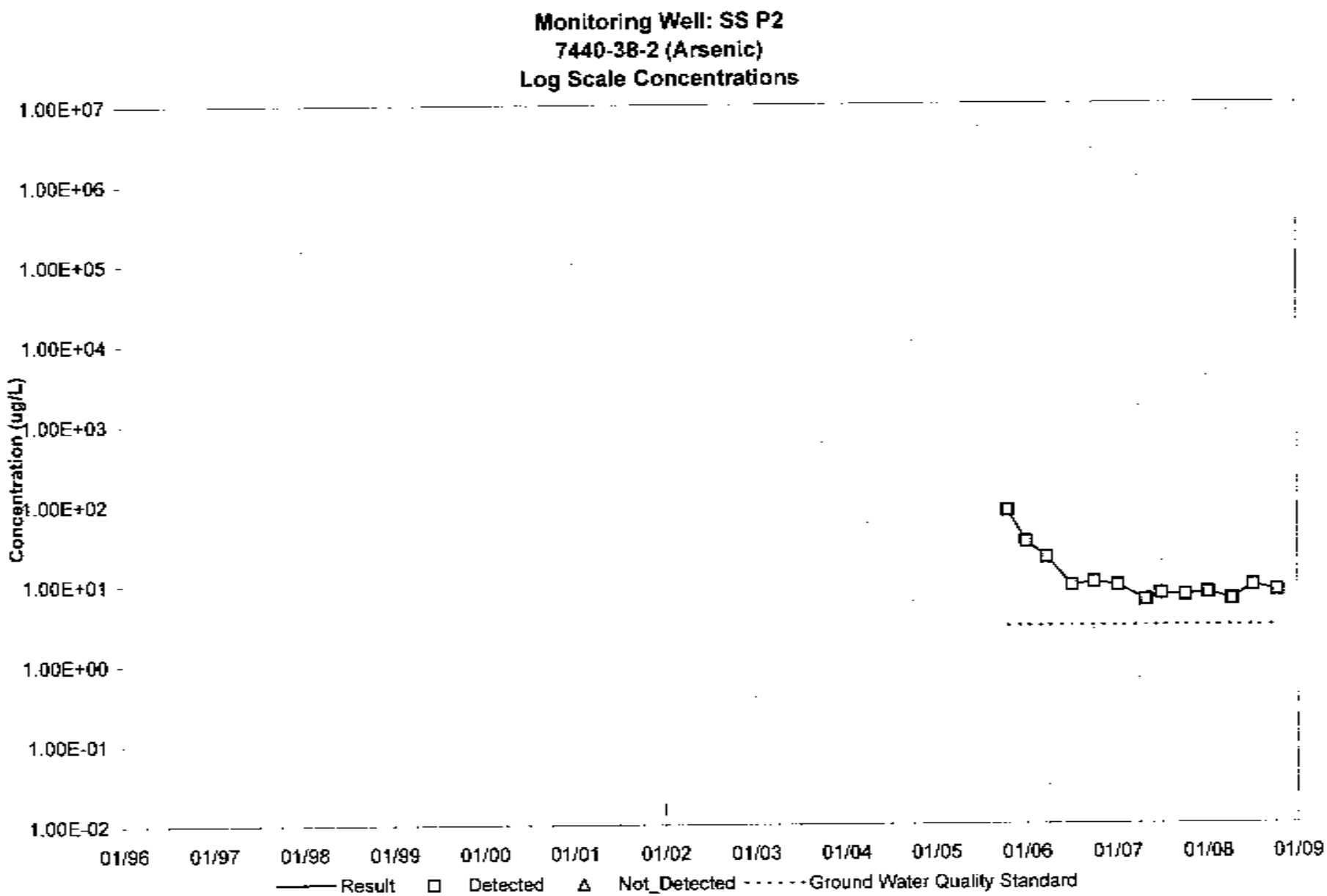

Monitoring Well: RCRA-D6
7440-38-2 (Arsenic)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

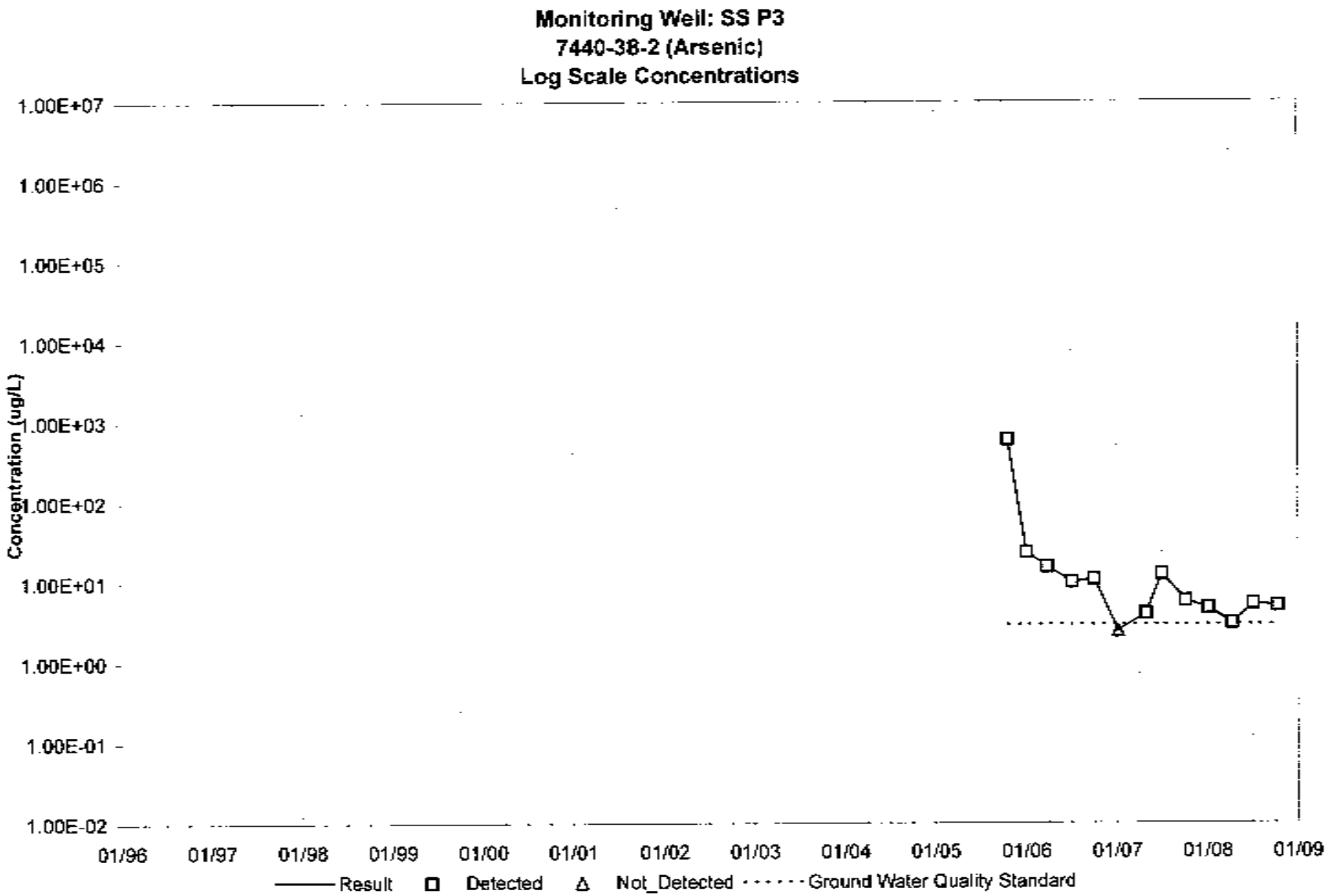

Monitoring Well: RCRA-D8
7440-38-2 (Arsenic)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

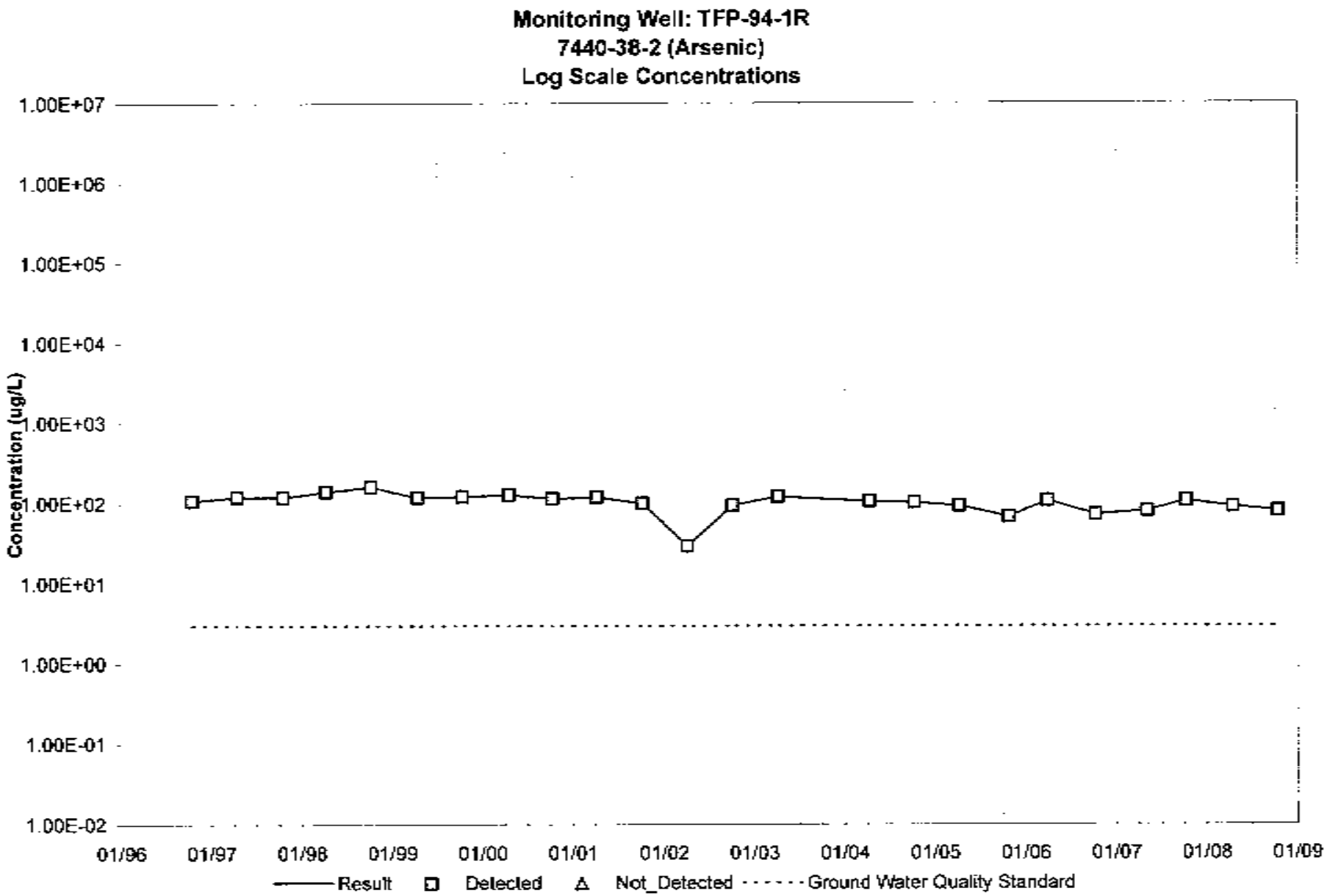

Monitoring Well: RCRA-D9
7440-38-2 (Arsenic)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

Monitoring Well: SS P1
7440-38-2 (Arsenic)
Log Scale Concentrations

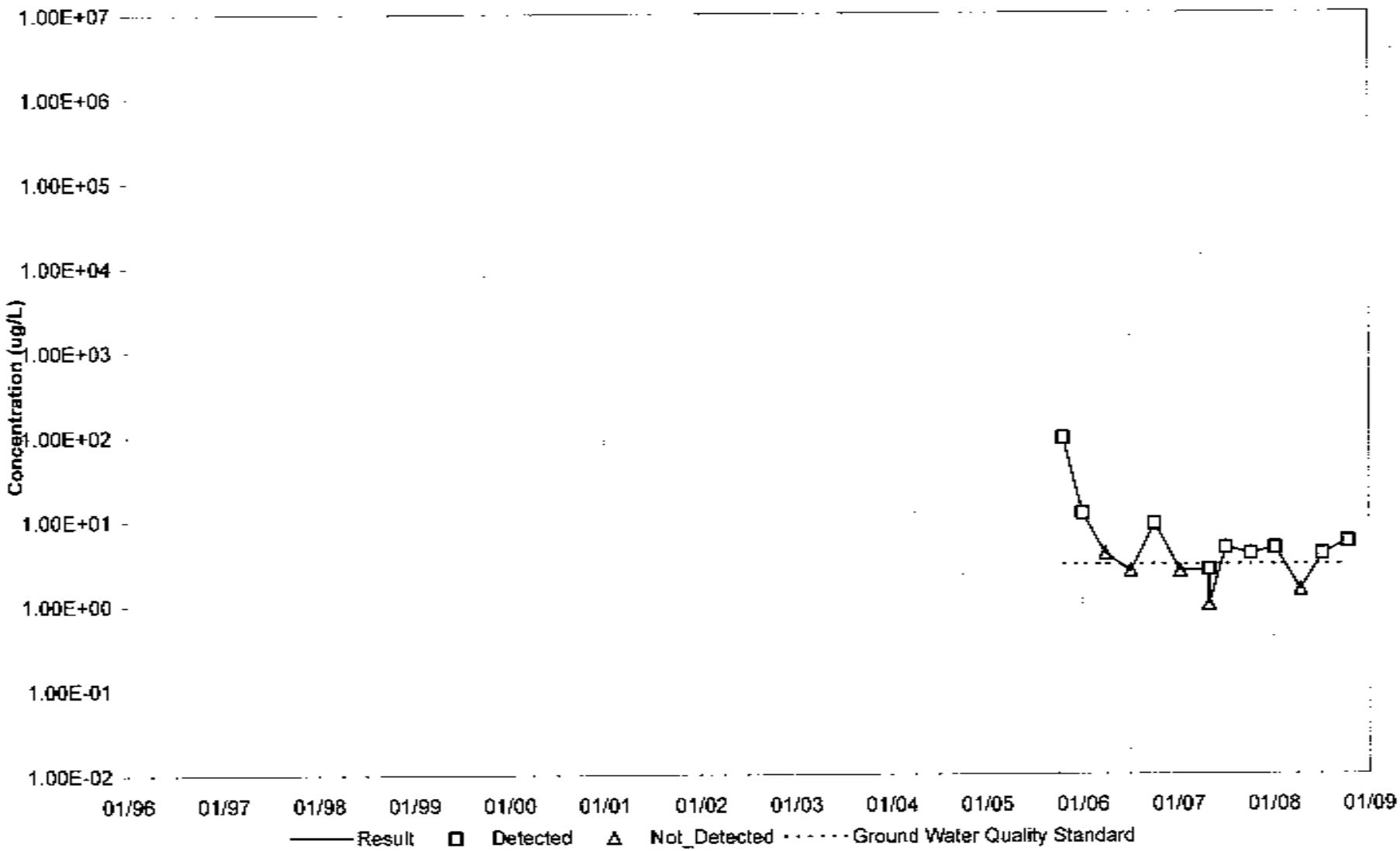


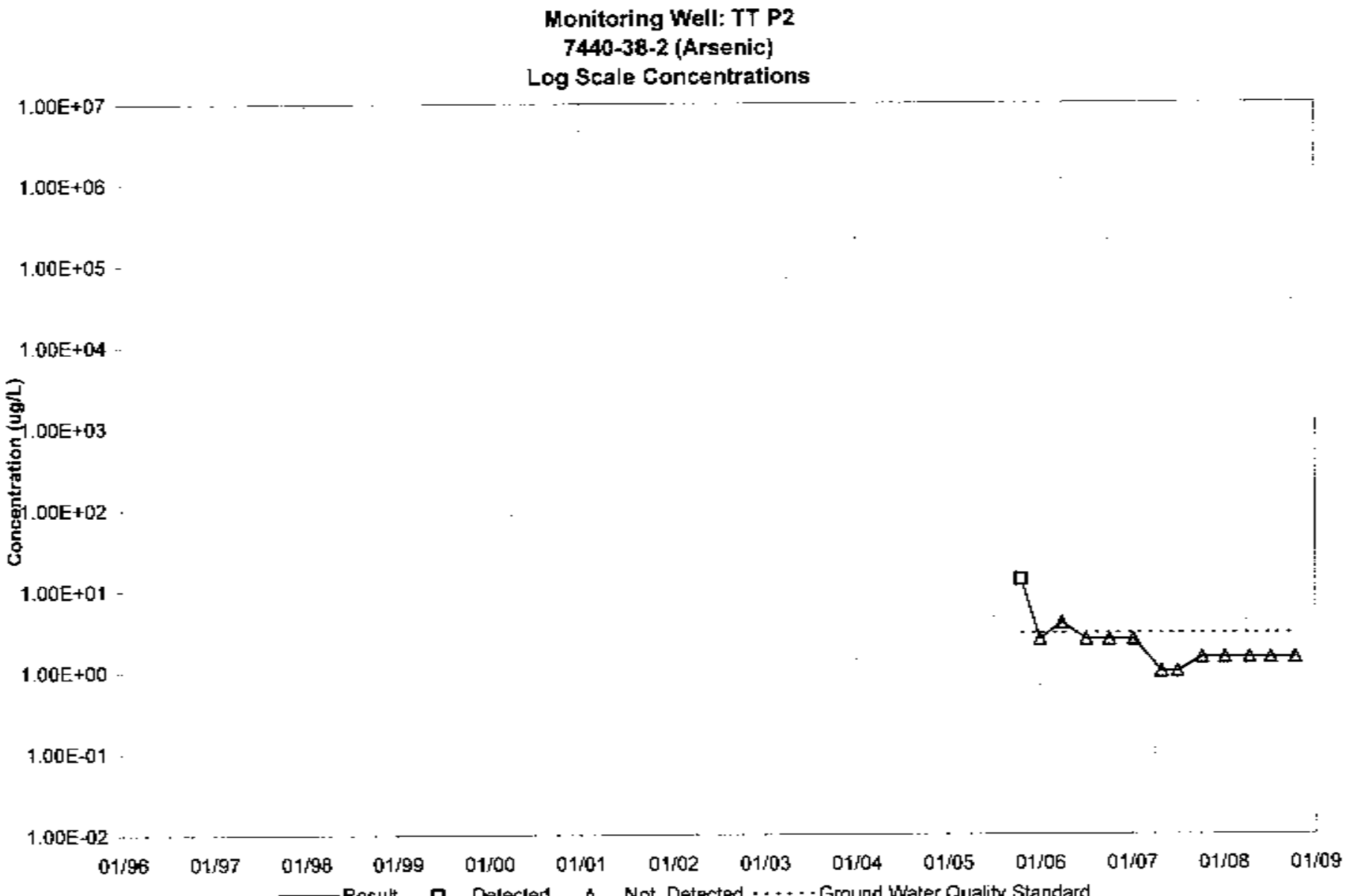

Monitoring Well: SS P2
7440-38-2 (Arsenic)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

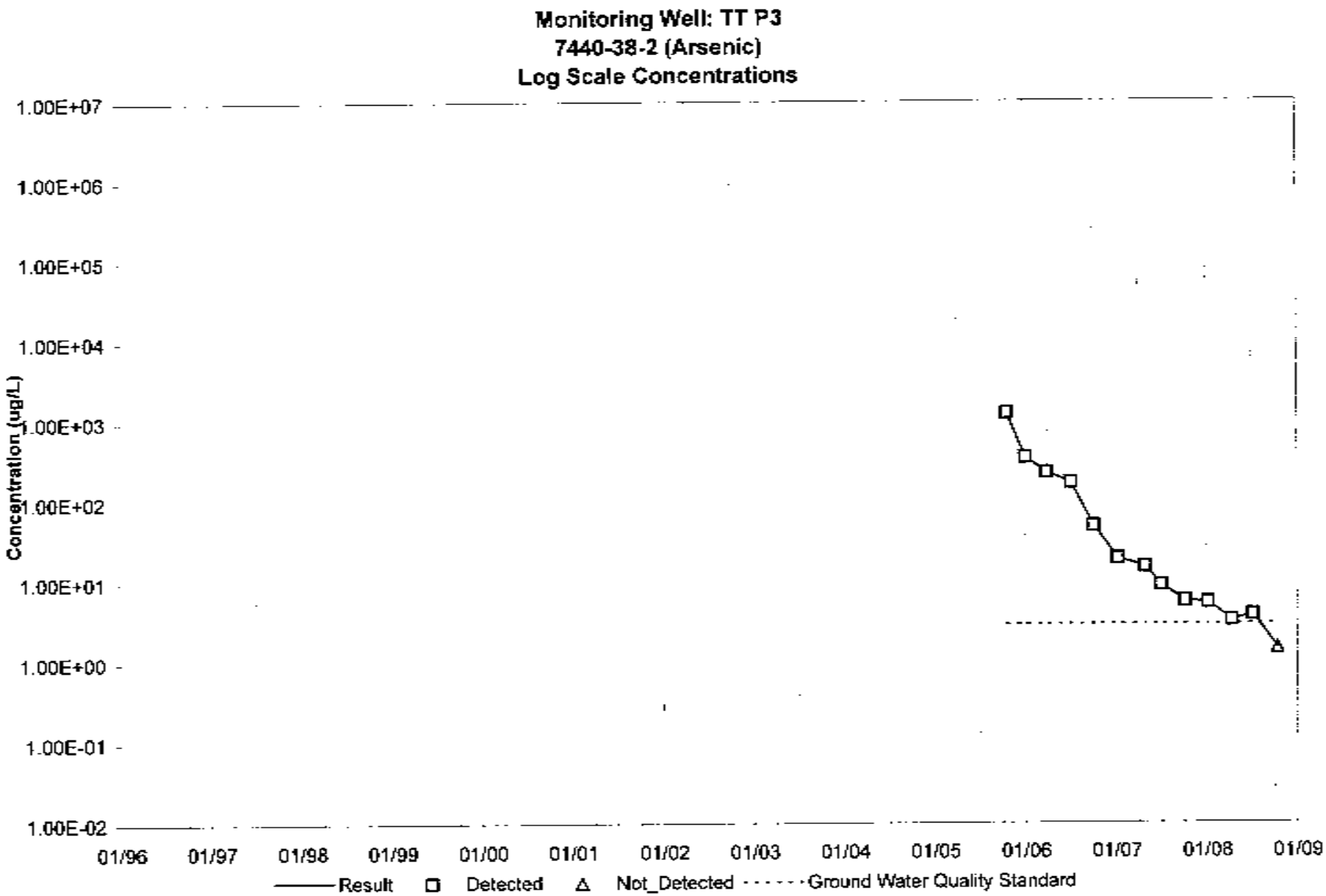

Monitoring Well: SS P3
7440-38-2 (Arsenic)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

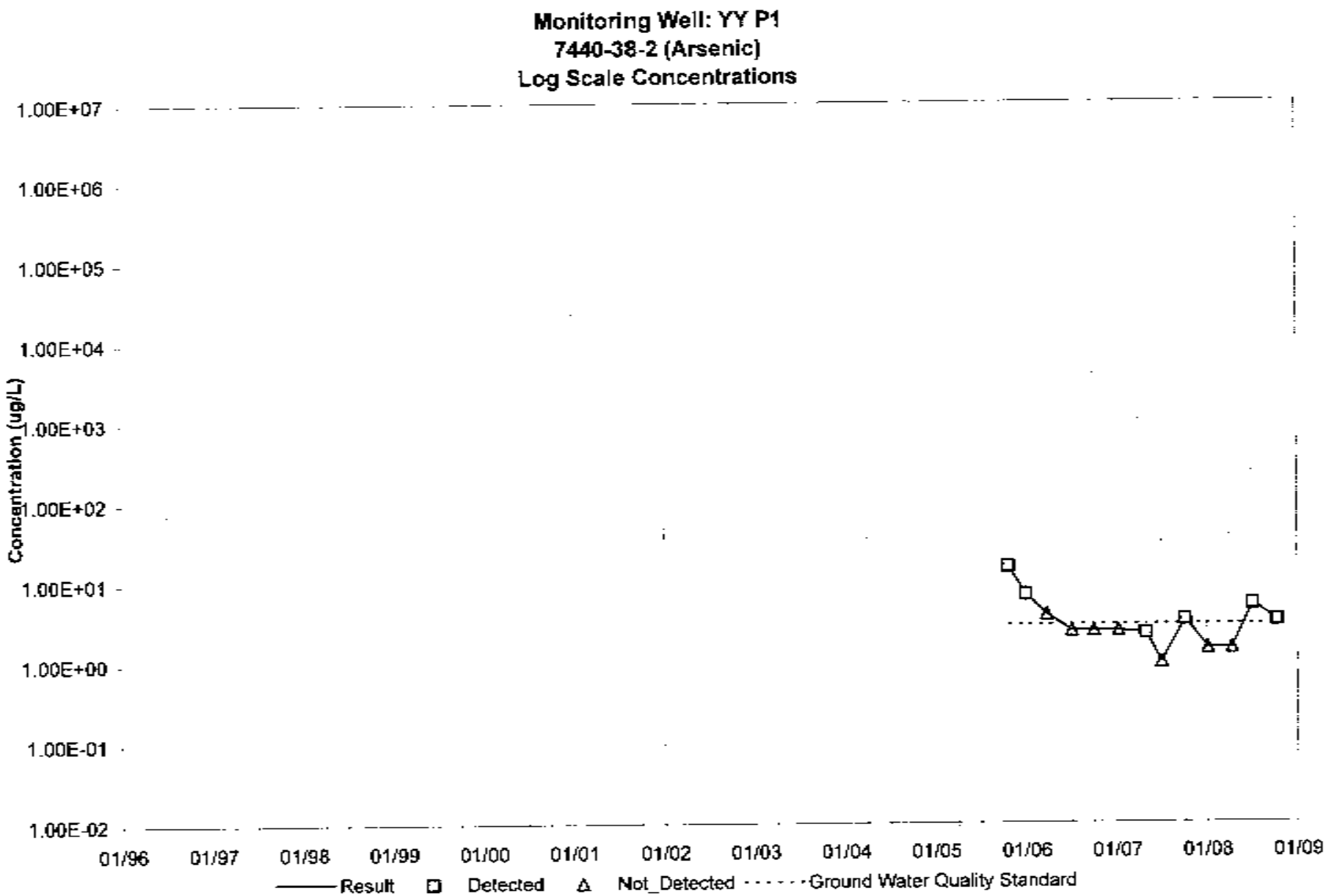

Monitoring Well: TFP-94-1R
7440-38-2 (Arsenic)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

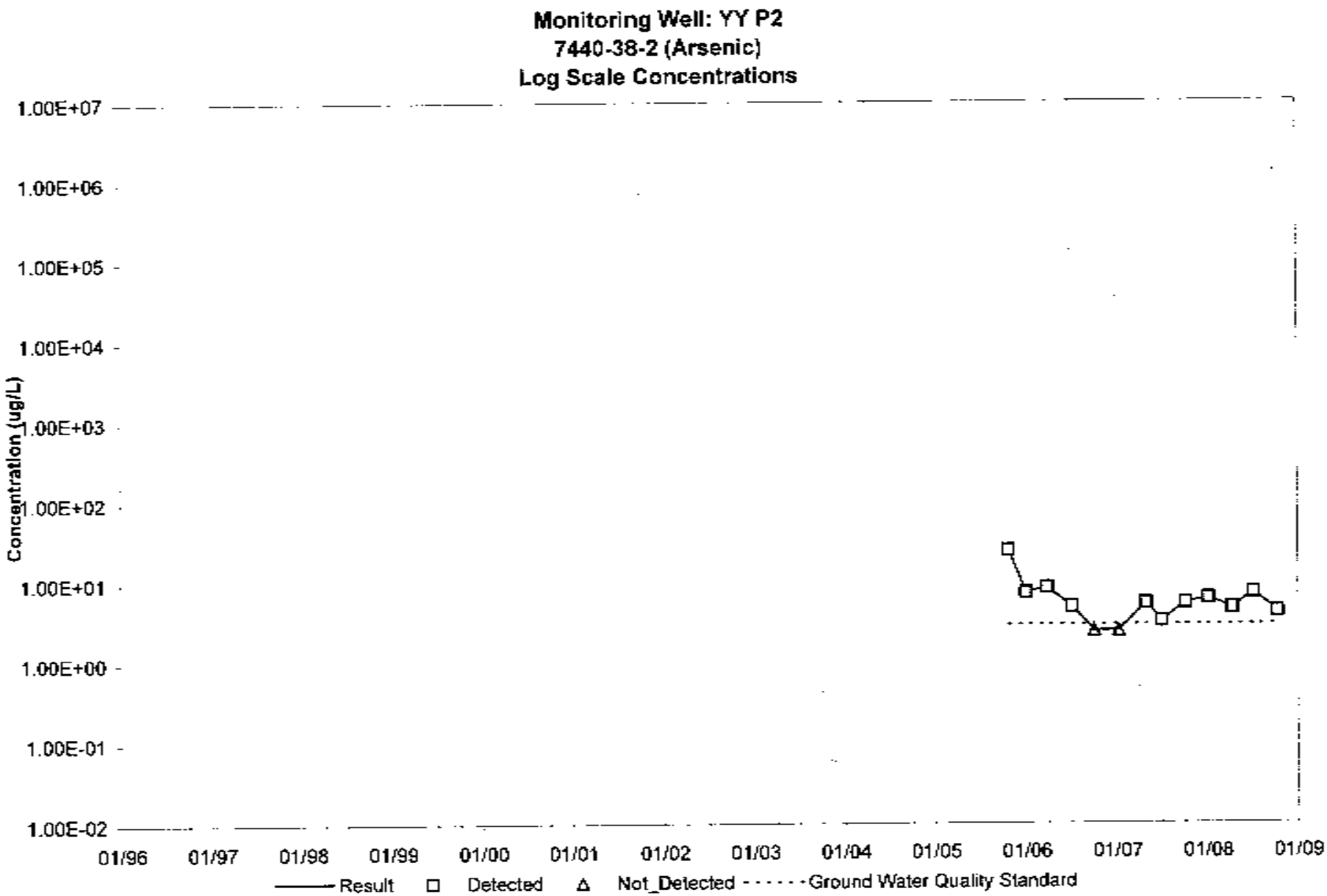
Monitoring Well: TT P1
7440-38-2 (Arsenic)
Log Scale Concentrations

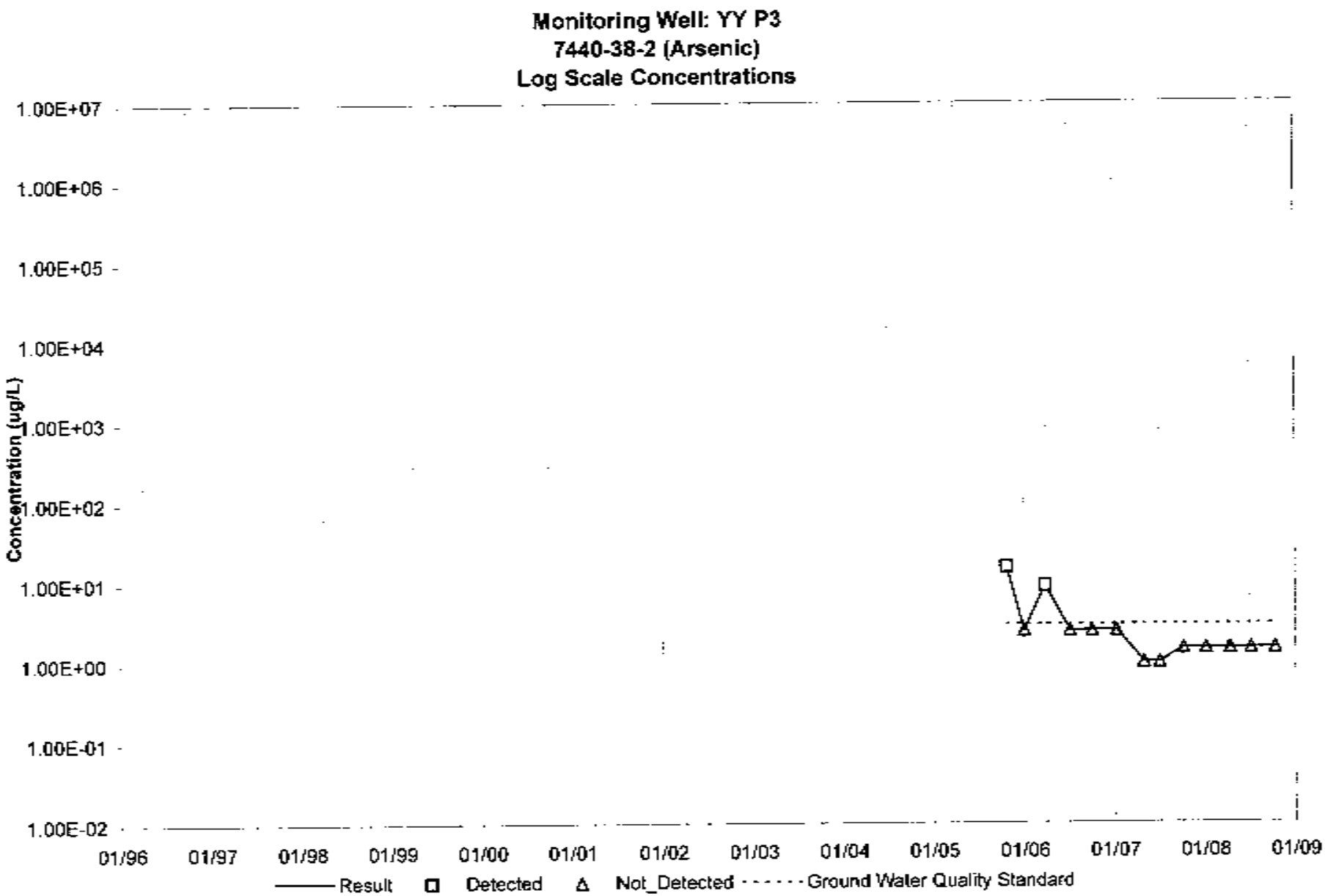


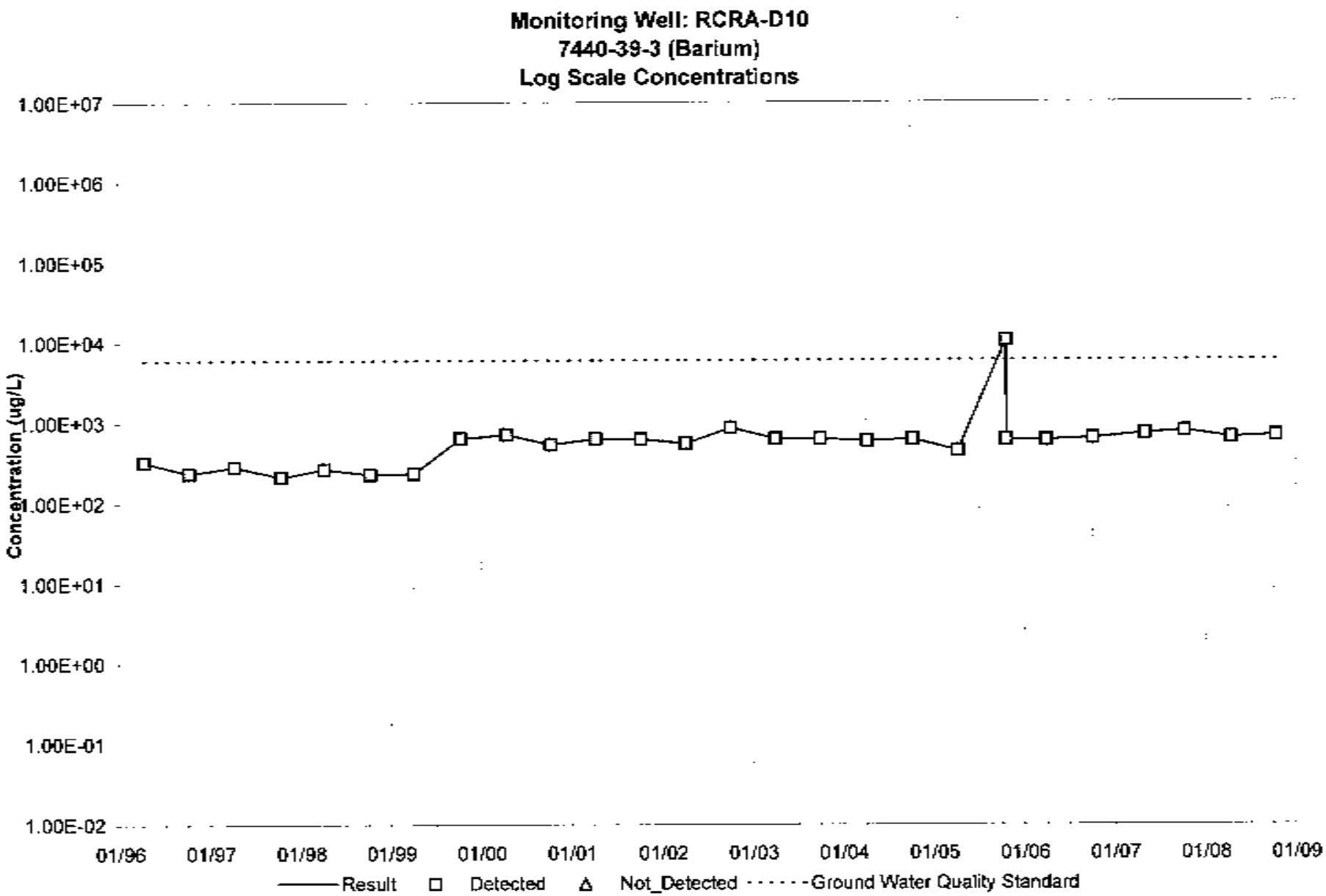

Monitoring Well: TT P2
7440-38-2 (Arsenic)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

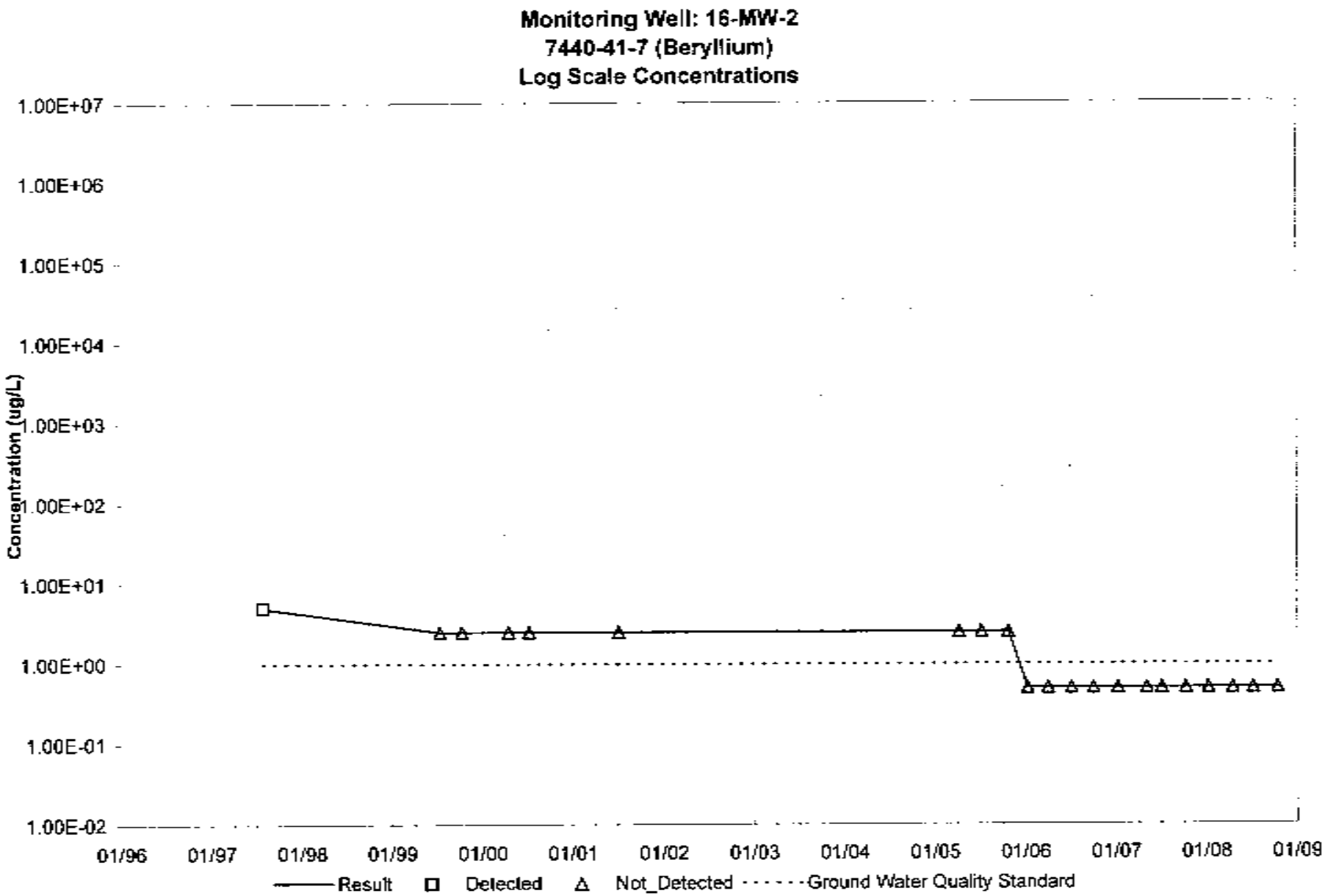

Monitoring Well: TT P3
7440-38-2 (Arsenic)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

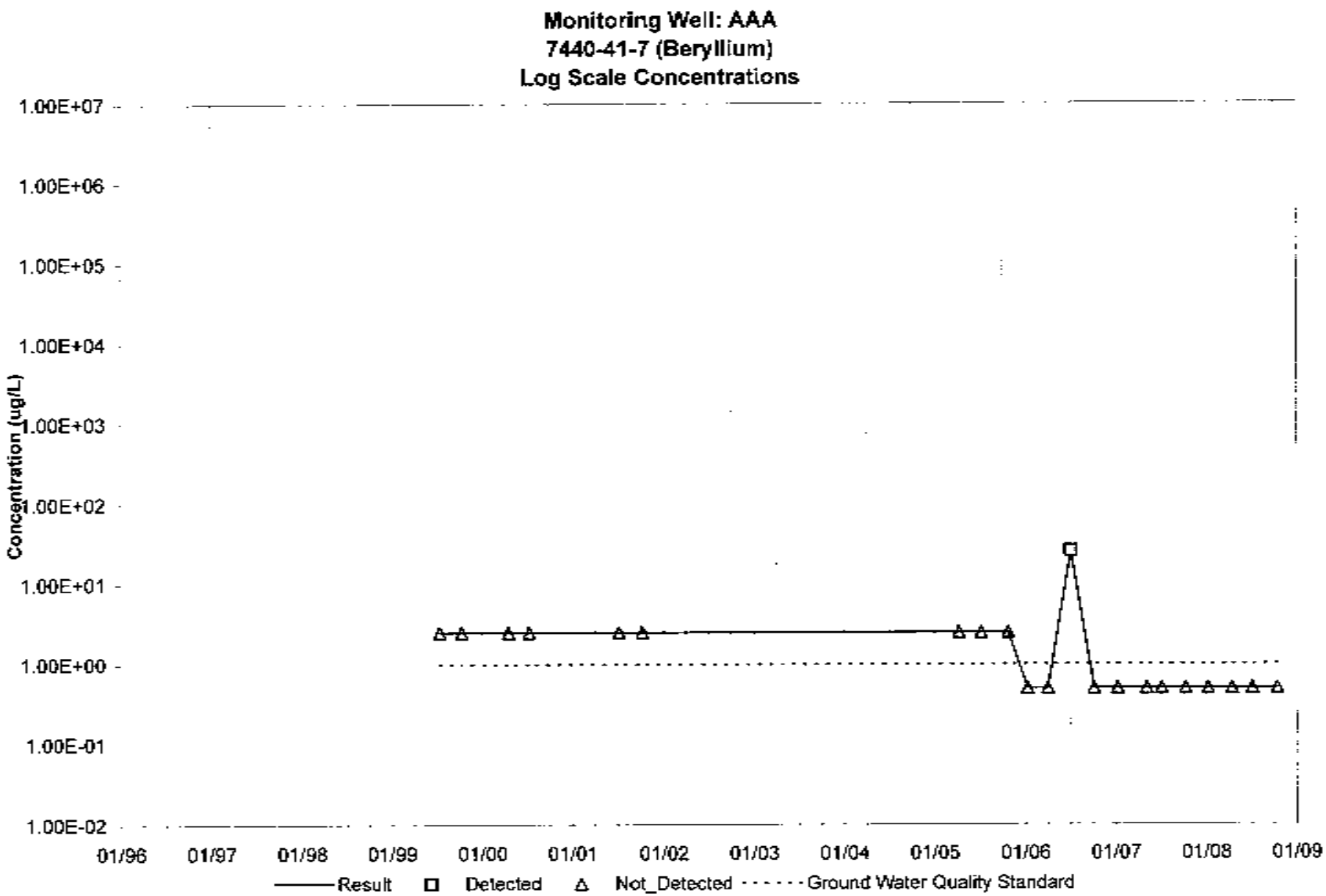

Monitoring Well: YY P1
7440-38-2 (Arsenic)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

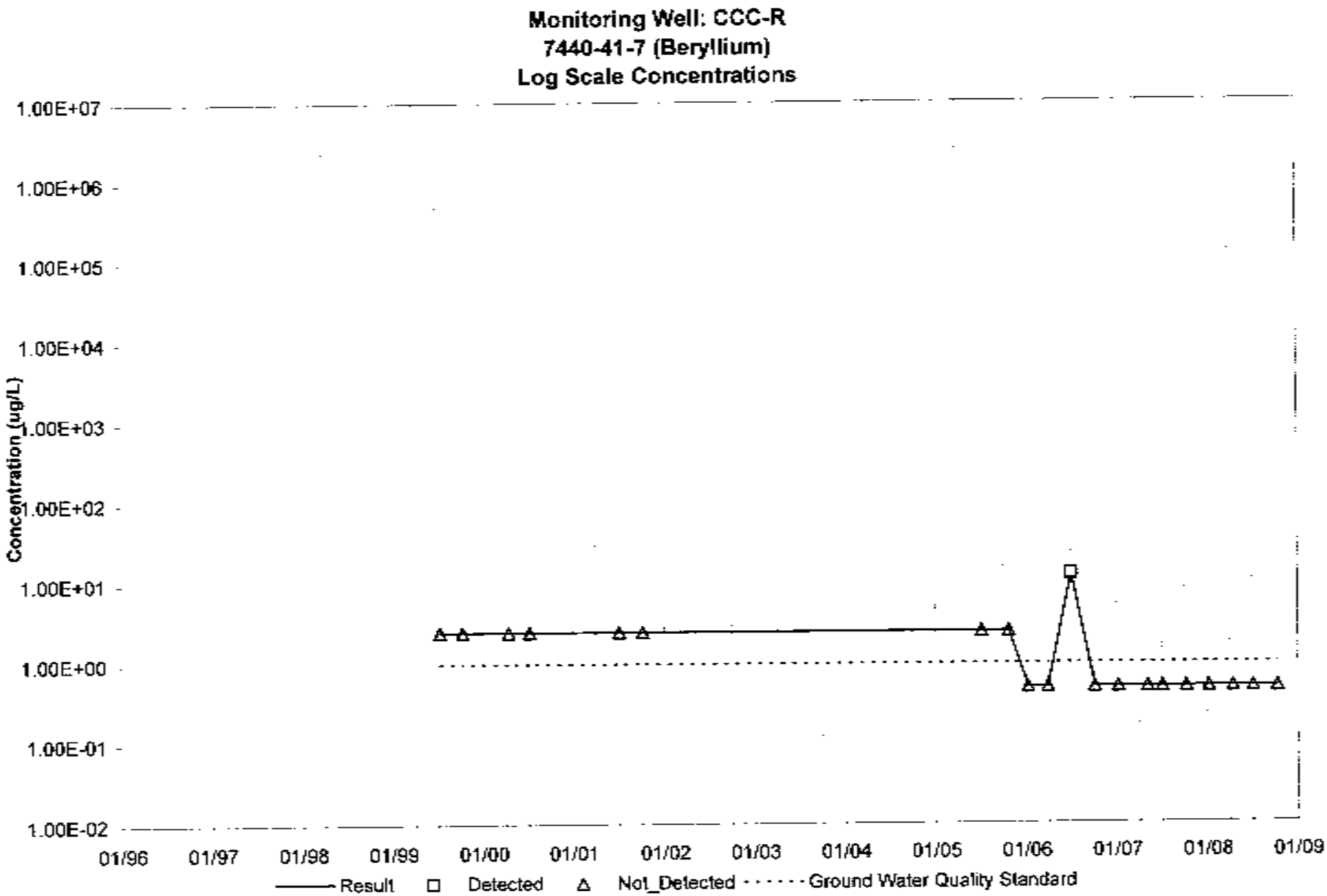

Monitoring Well: YY P2
7440-38-2 (Arsenic)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

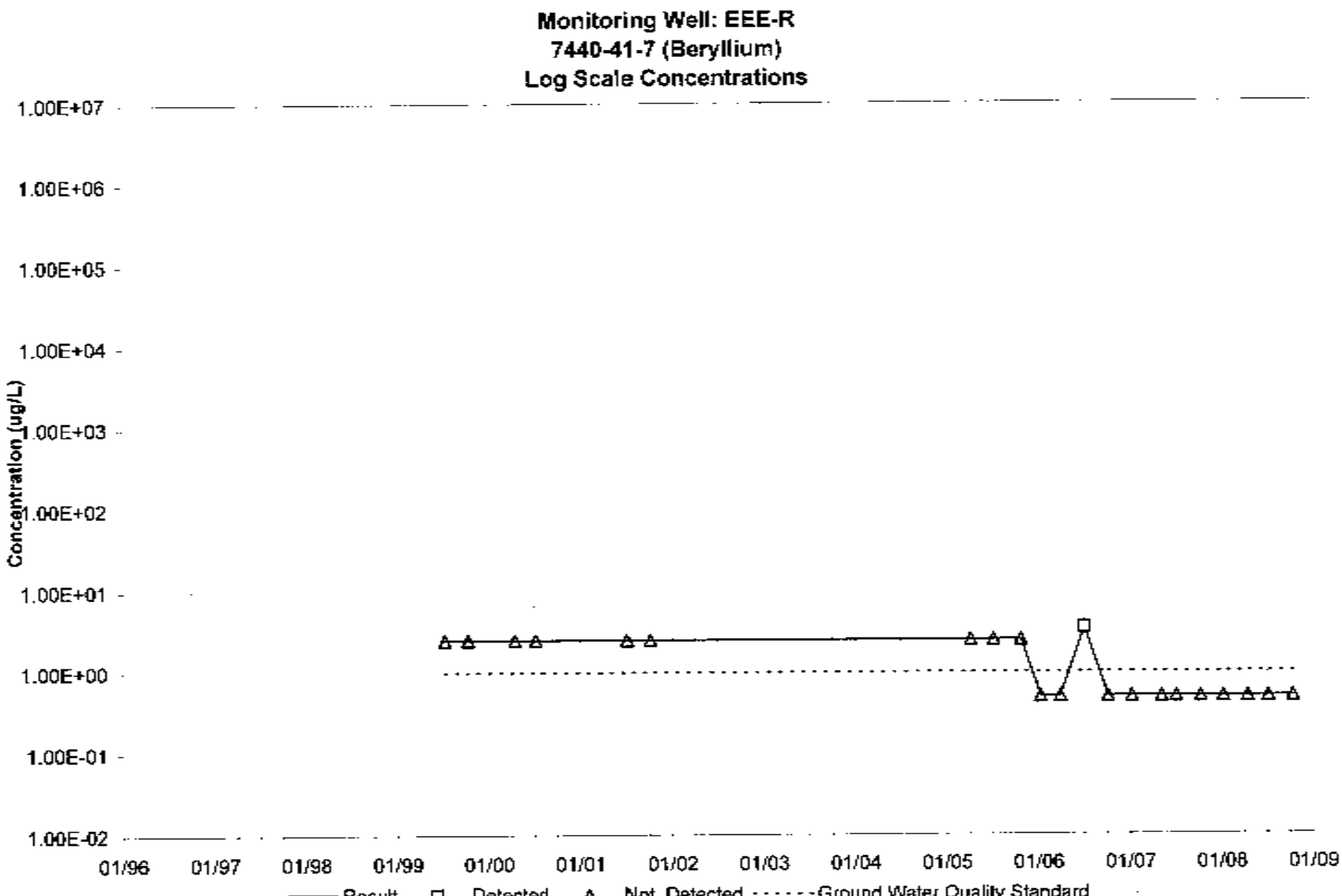

Monitoring Well: YY P3
7440-38-2 (Arsenic)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

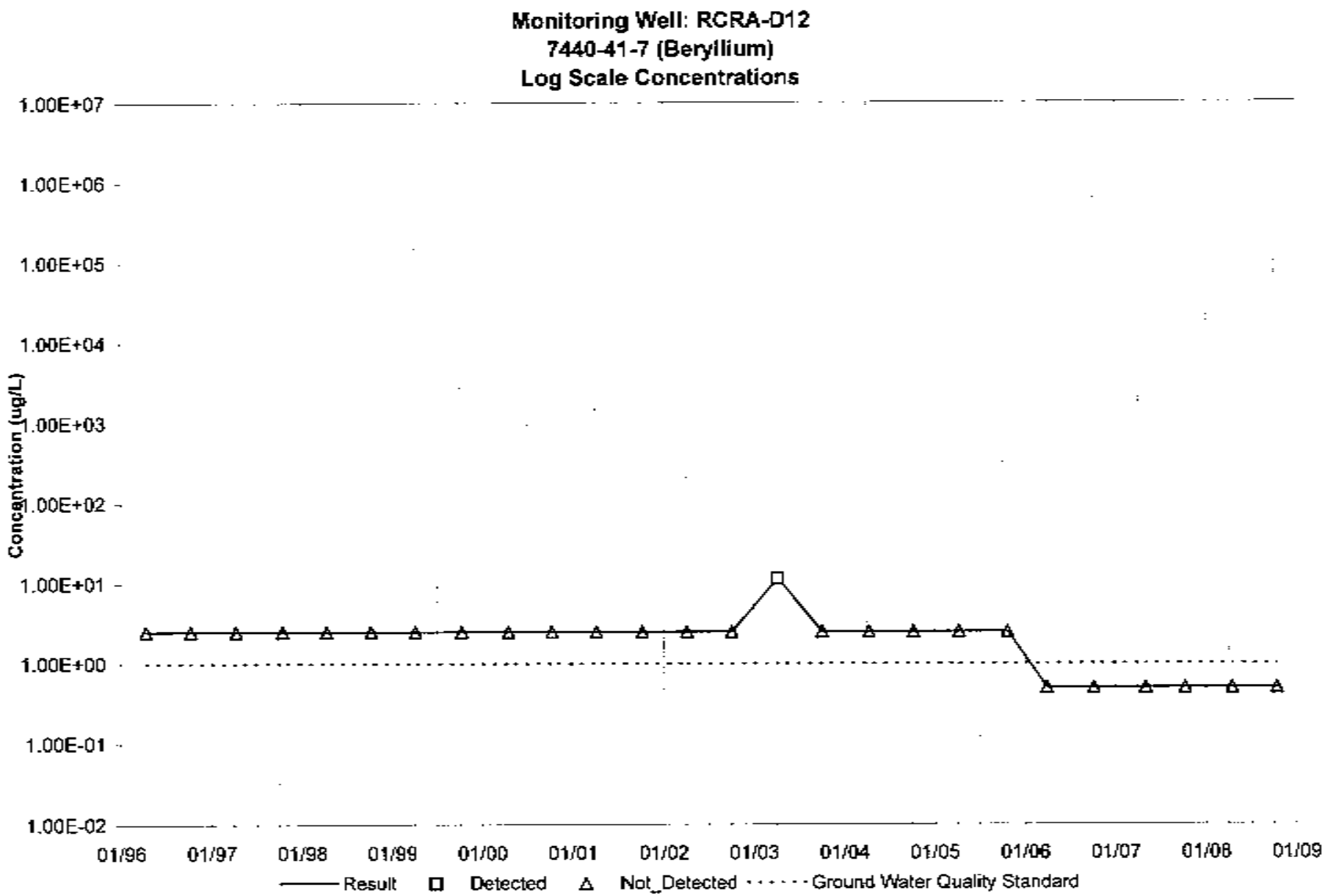

Monitoring Well: RCRA-D10
7440-39-3 (Barium)
Log Scale Concentrations
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
Concentration (ug/L)
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

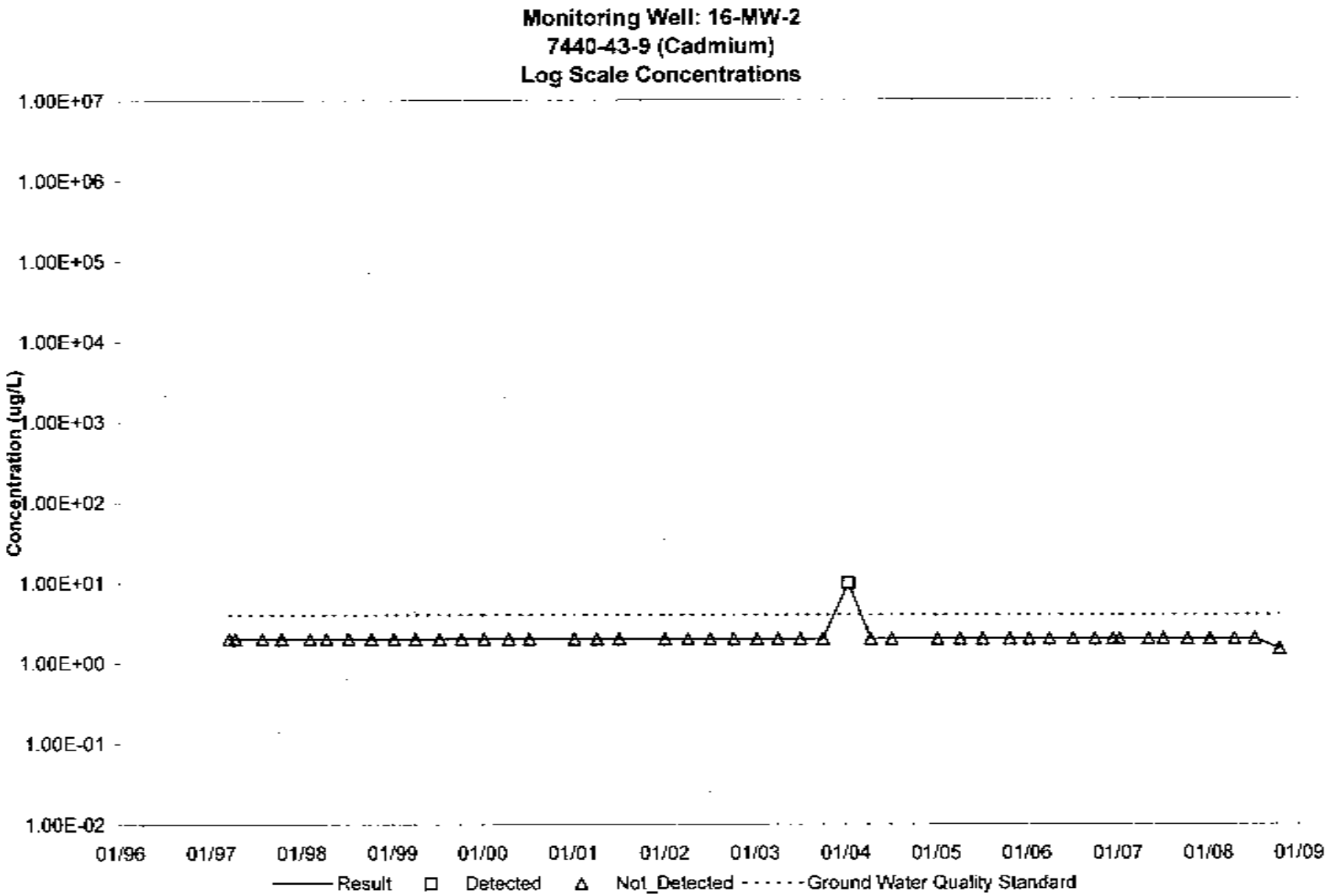

Monitoring Well: 16-MW-2
7440-41-7 (Beryllium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

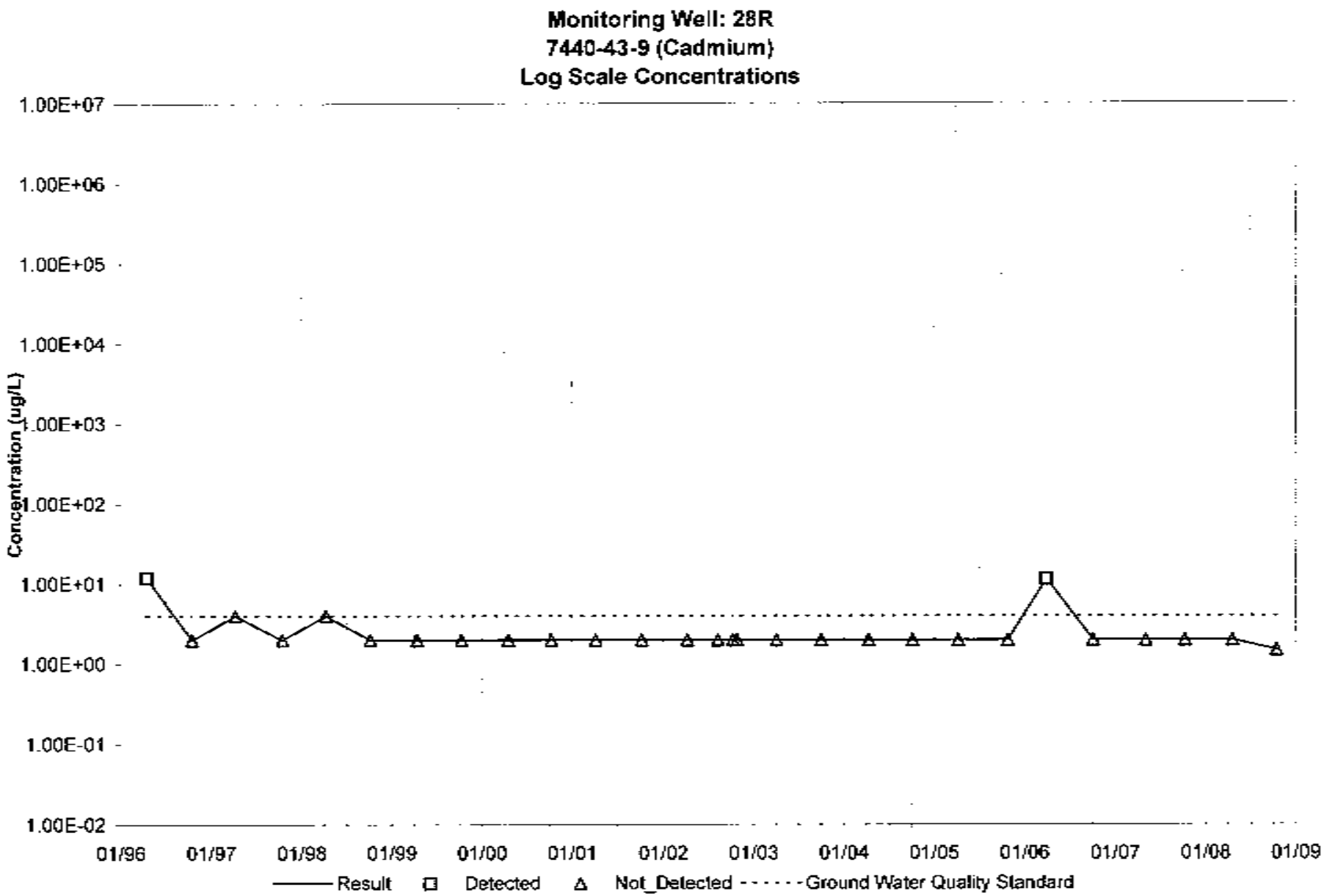

Monitoring Well: AAA
7440-41-7 (Beryllium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

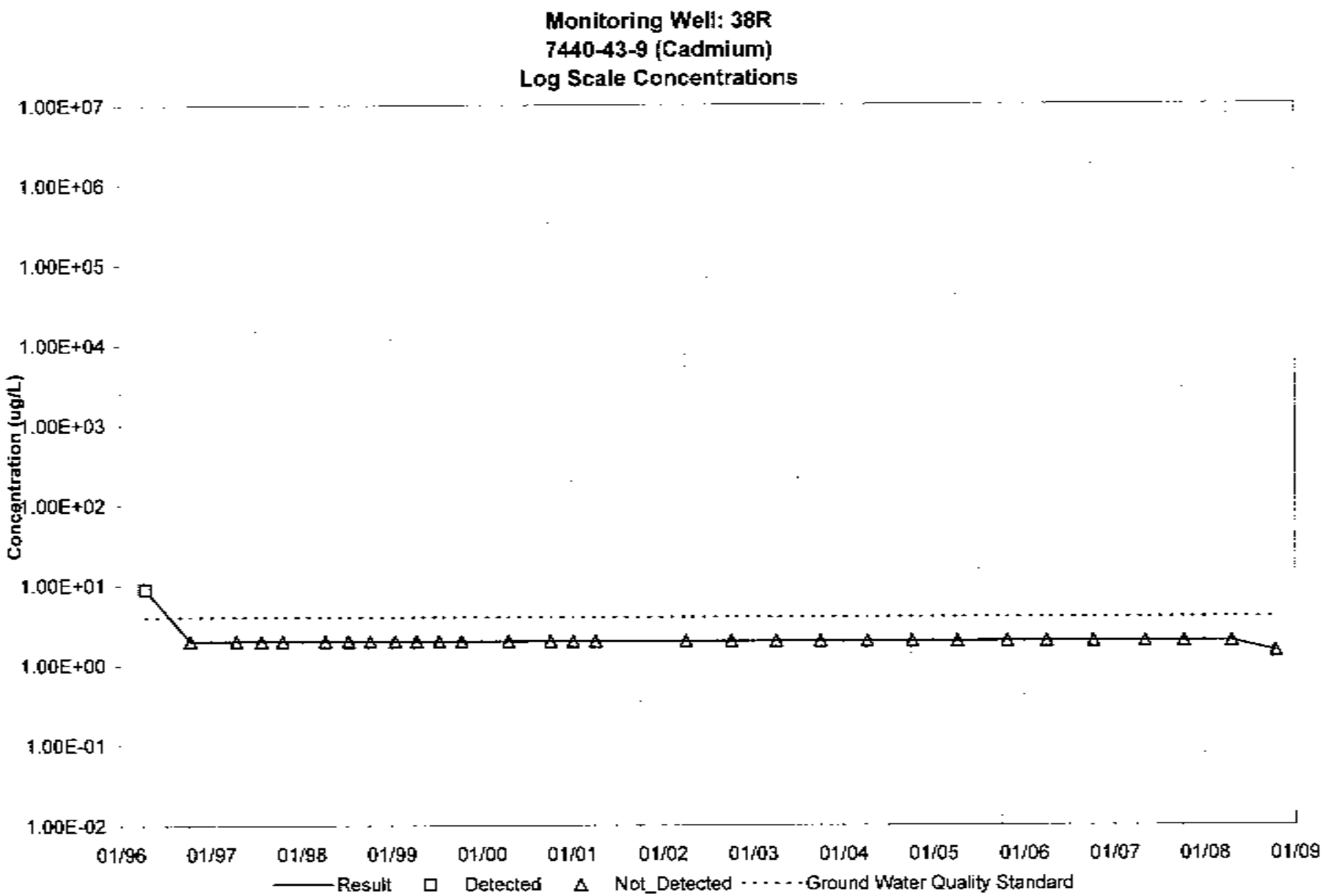

Monitoring Well: CCC-R
7440-41-7 (Beryllium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

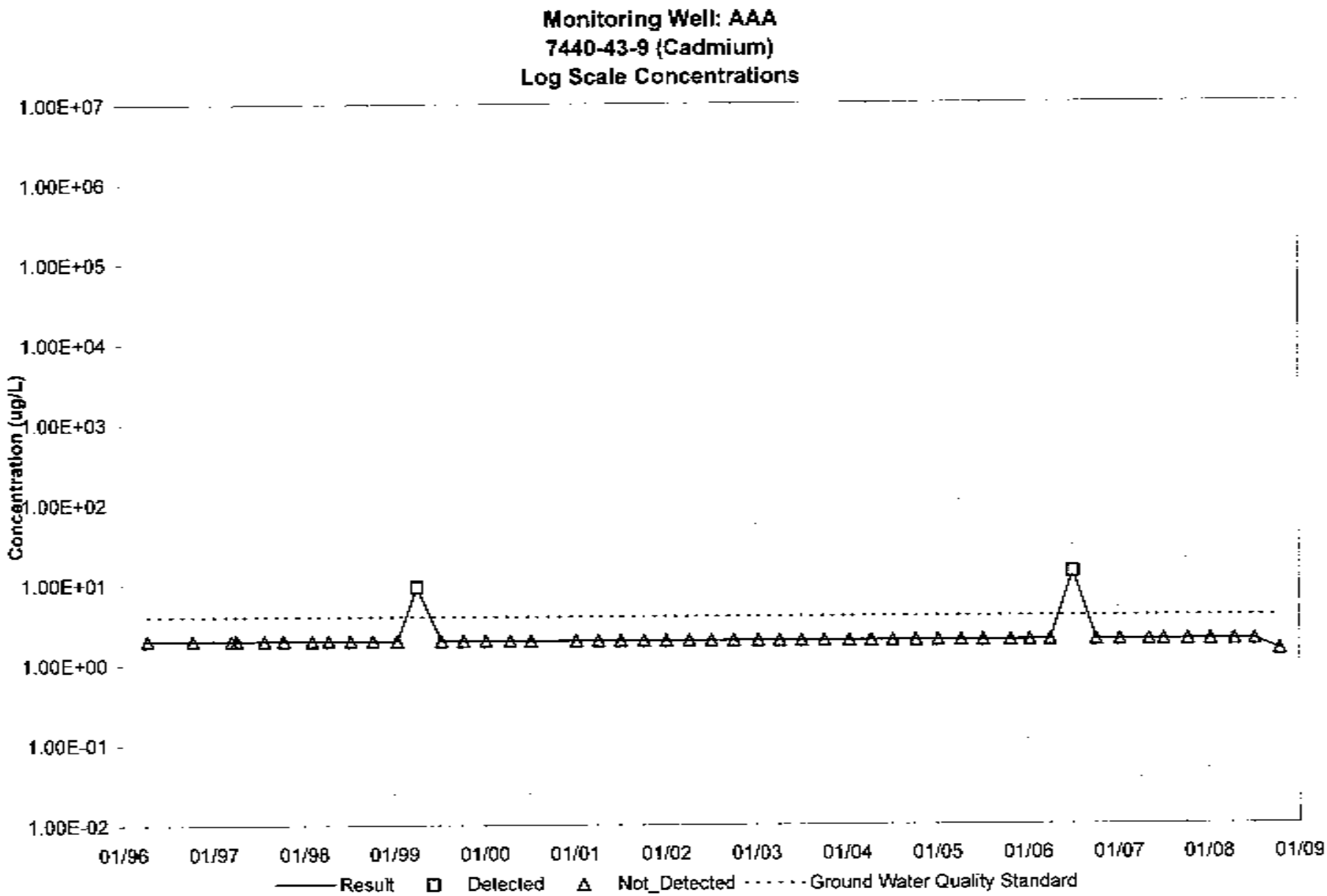

Monitoring Well: EEE-R
7440-41-7 (Beryllium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

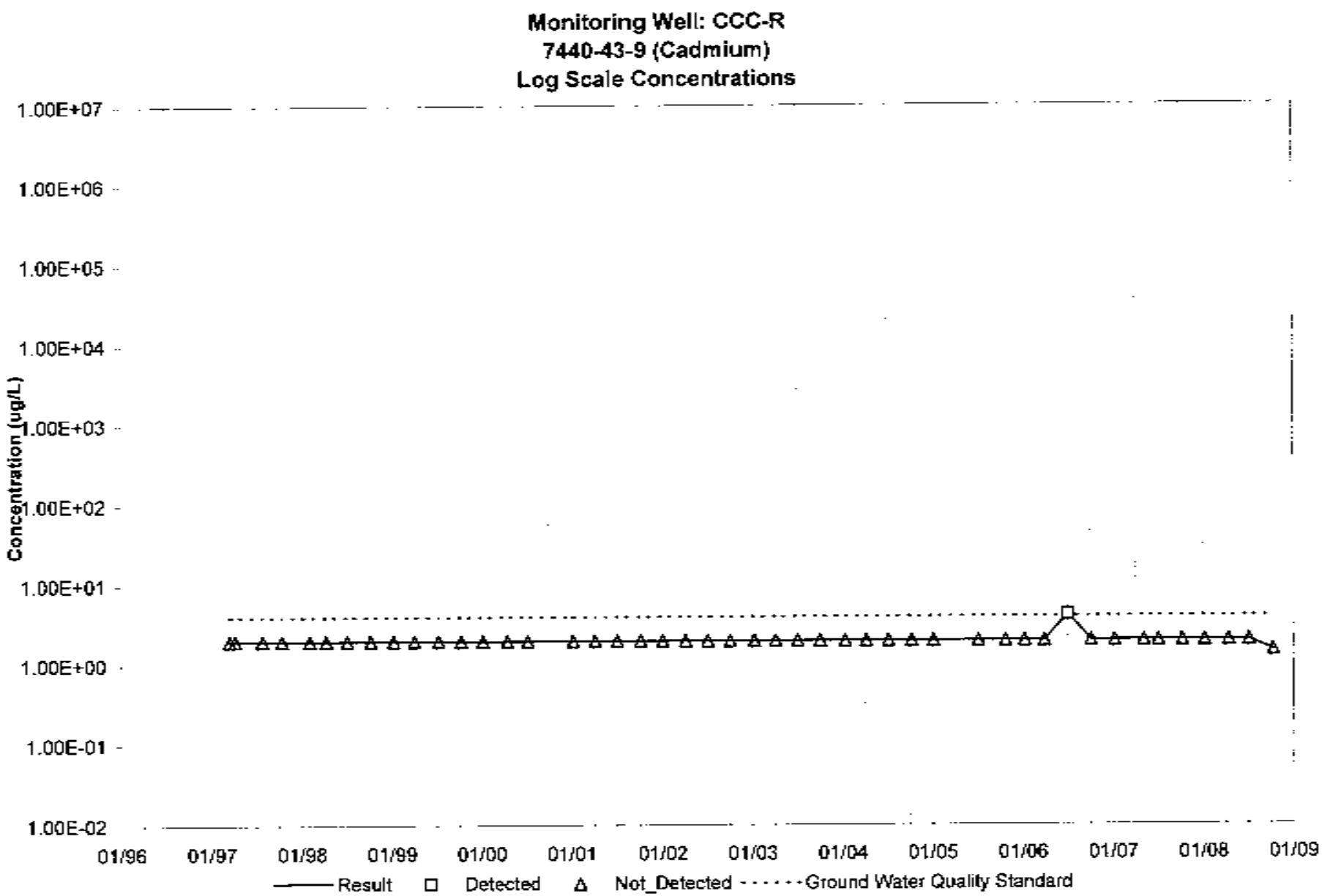

Monitoring Well: RCRA-D12
7440-41-7 (Beryllium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

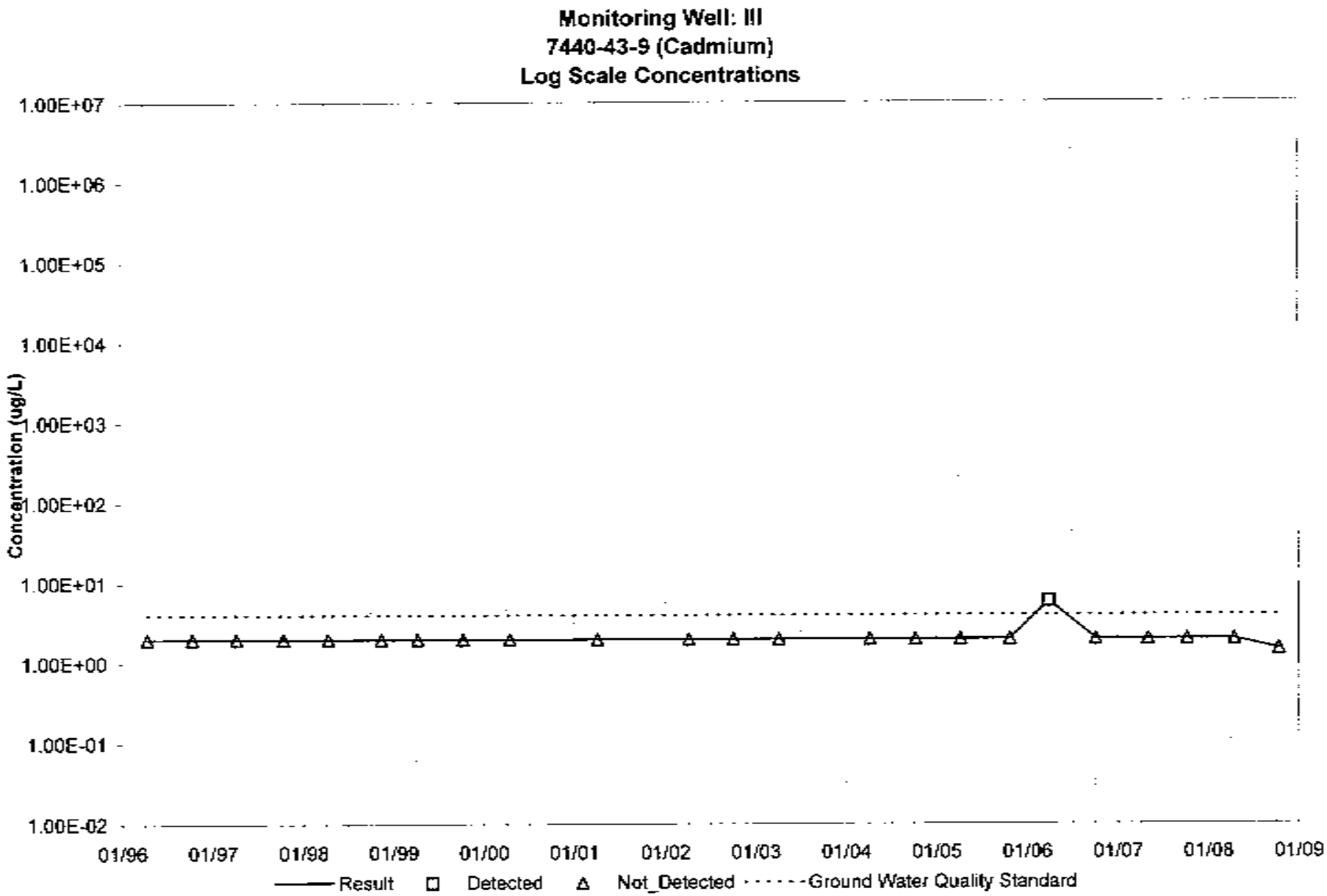

Monitoring Well: 16-MW-2
7440-43-9 (Cadmium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

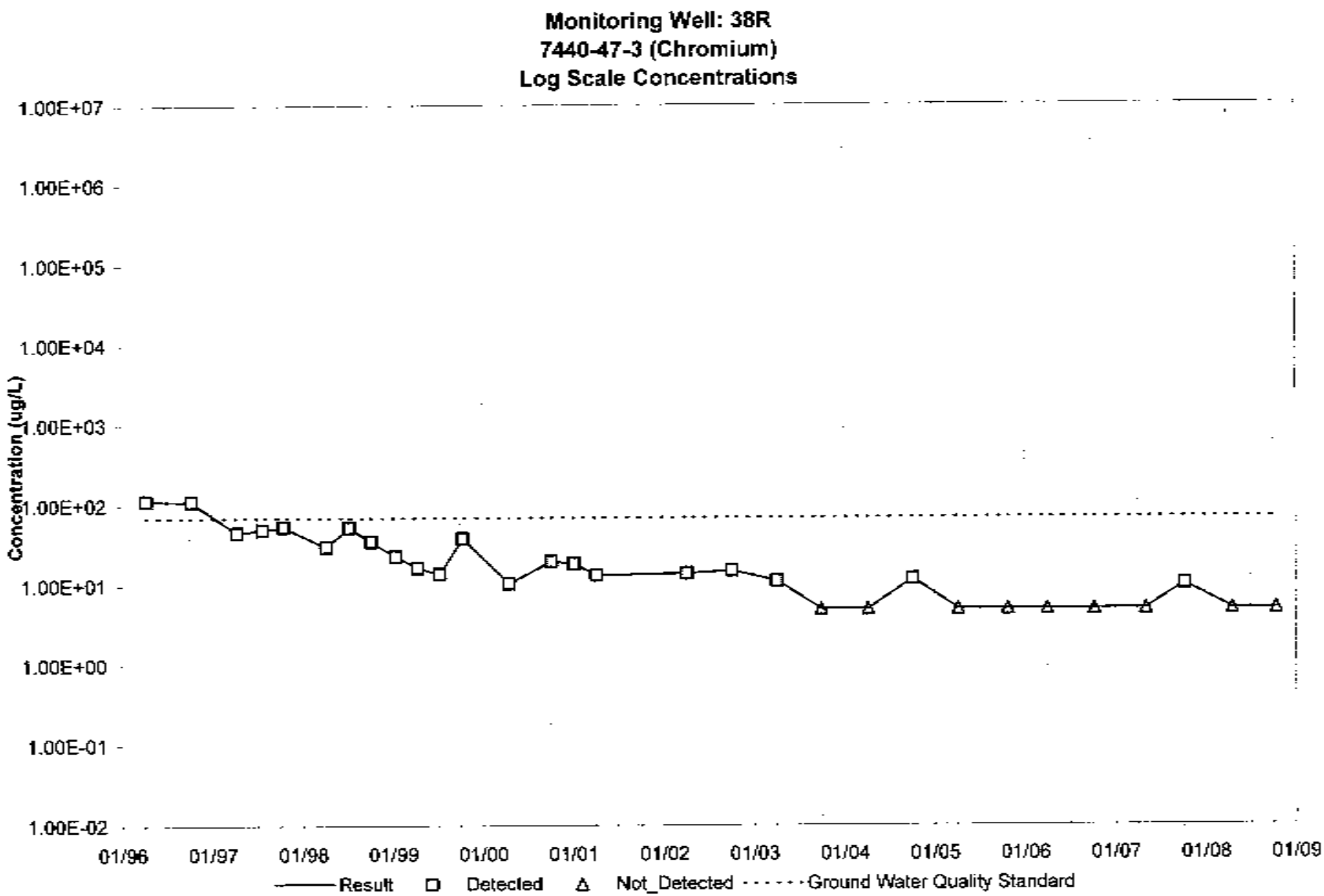

Monitoring Well: 28R
7440-43-9 (Cadmium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

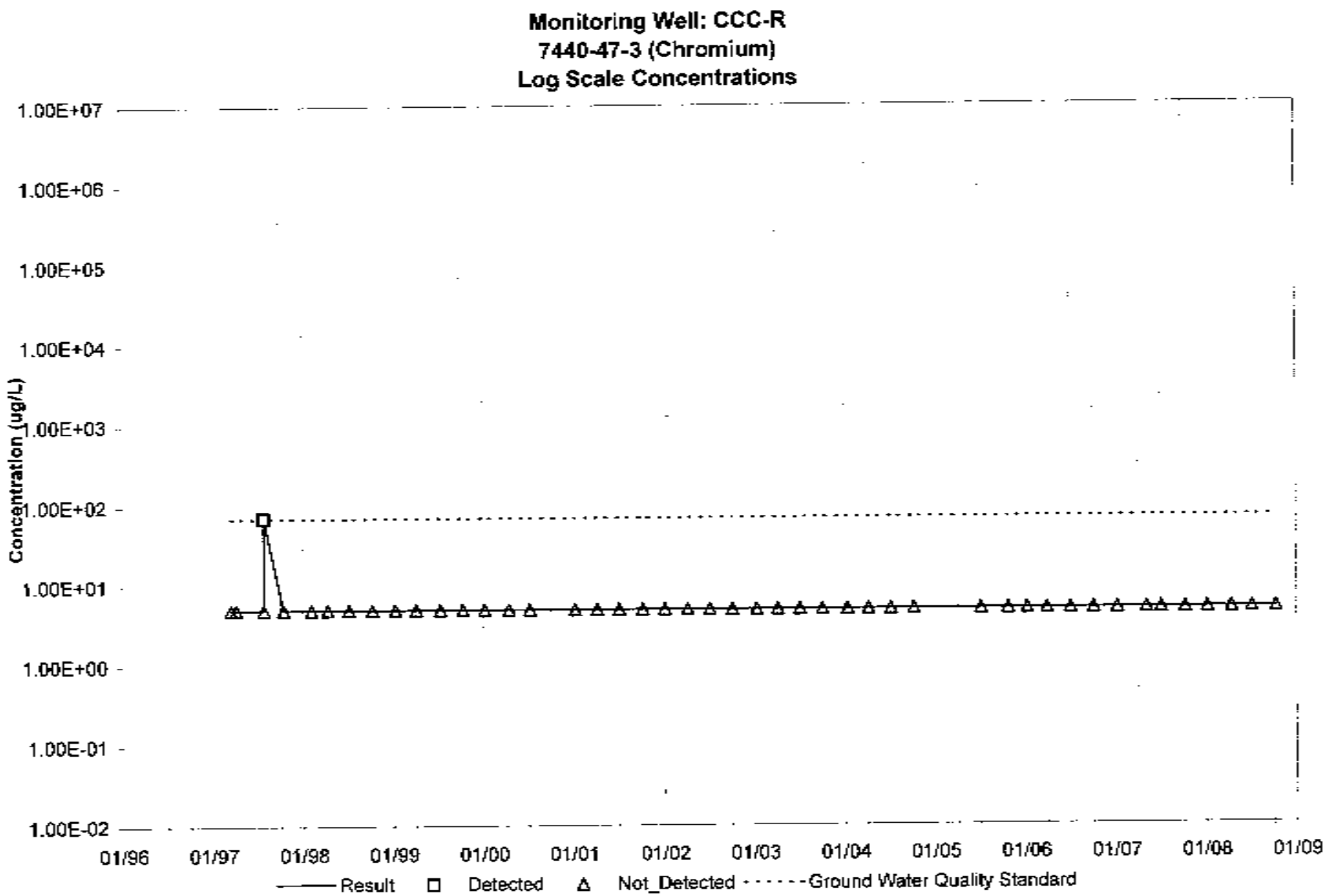

Monitoring Well: 38R
7440-43-9 (Cadmium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

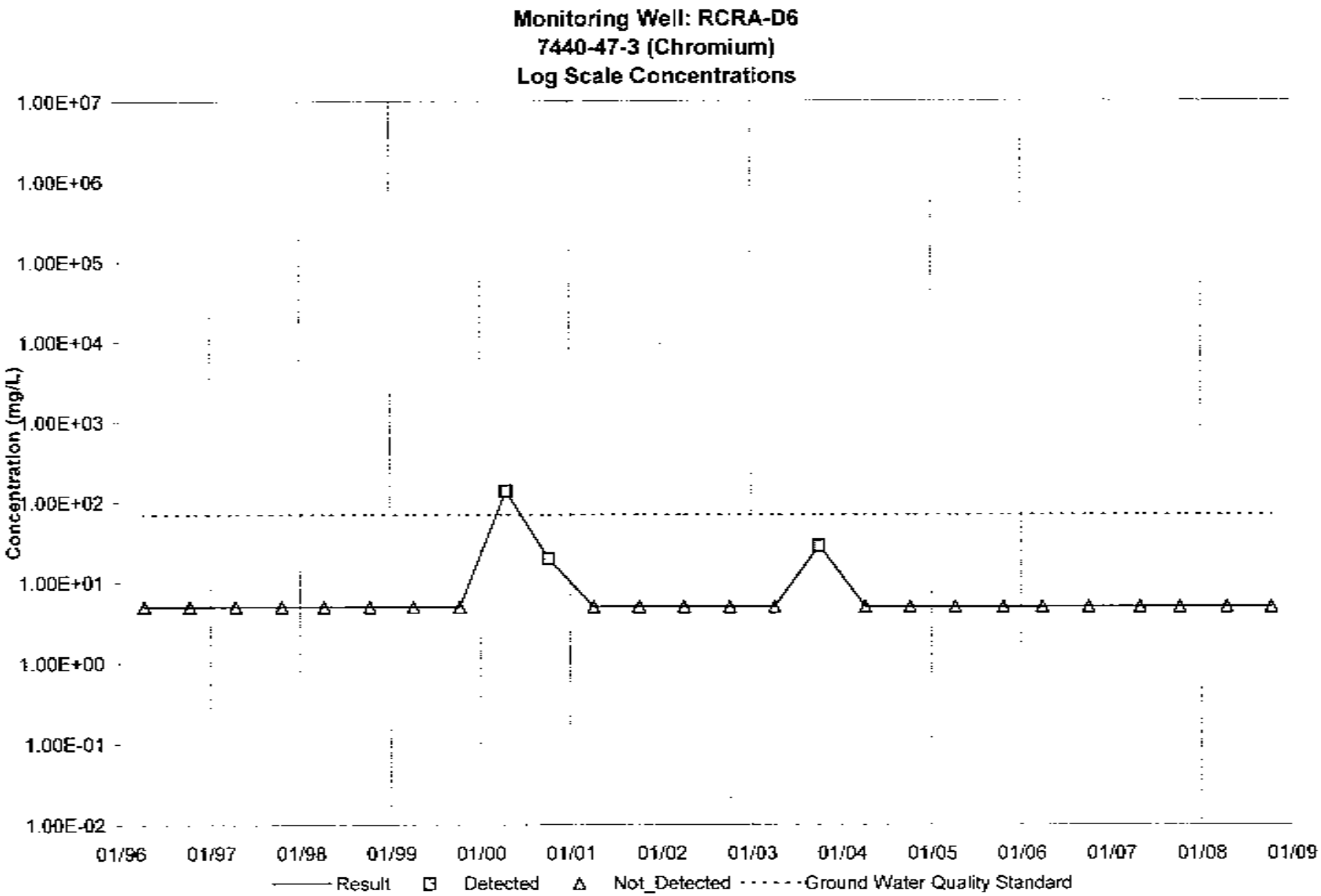

Monitoring Well: AAA
7440-43-9 (Cadmium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

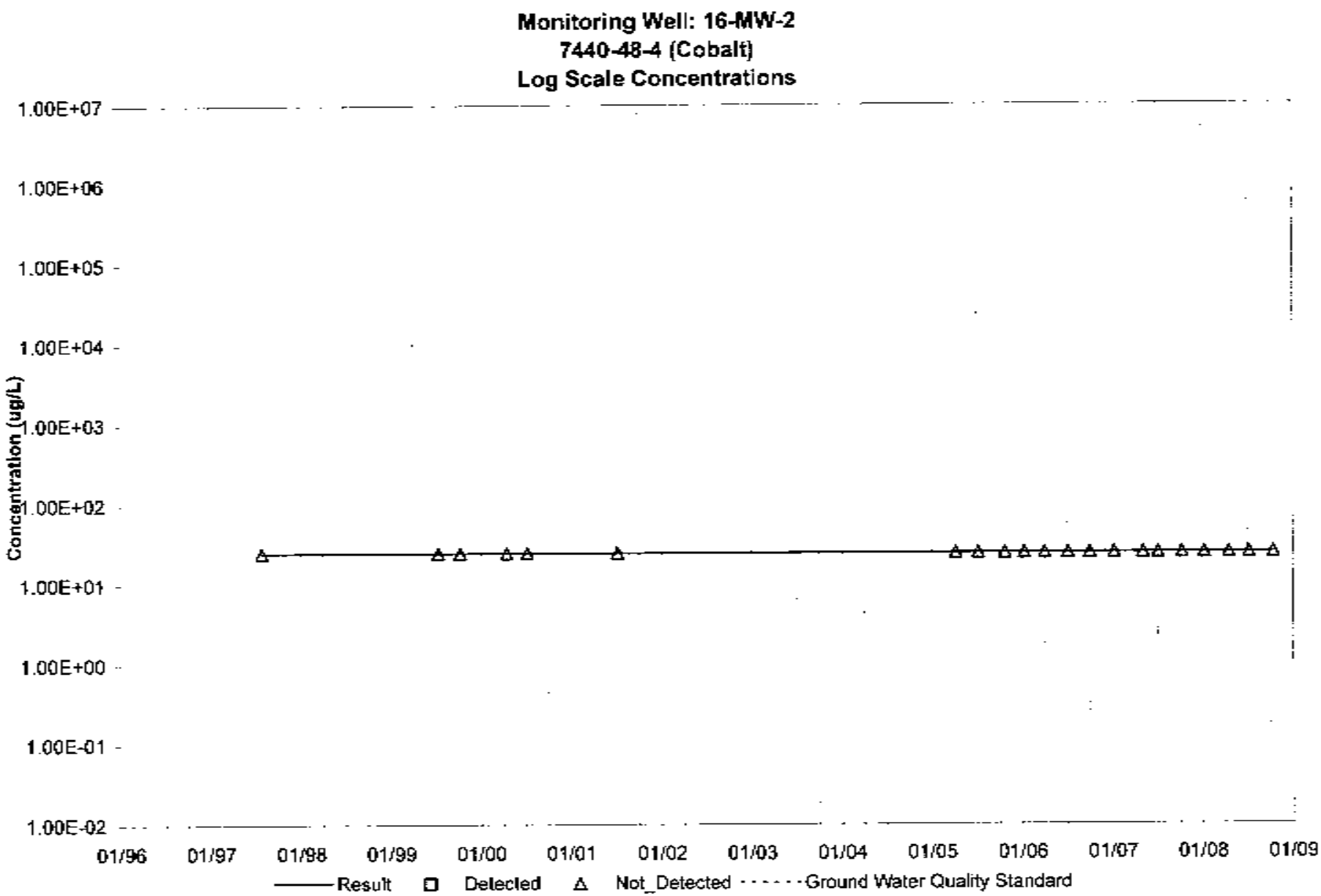

Monitoring Well: CCC-R
7440-43-9 (Cadmium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

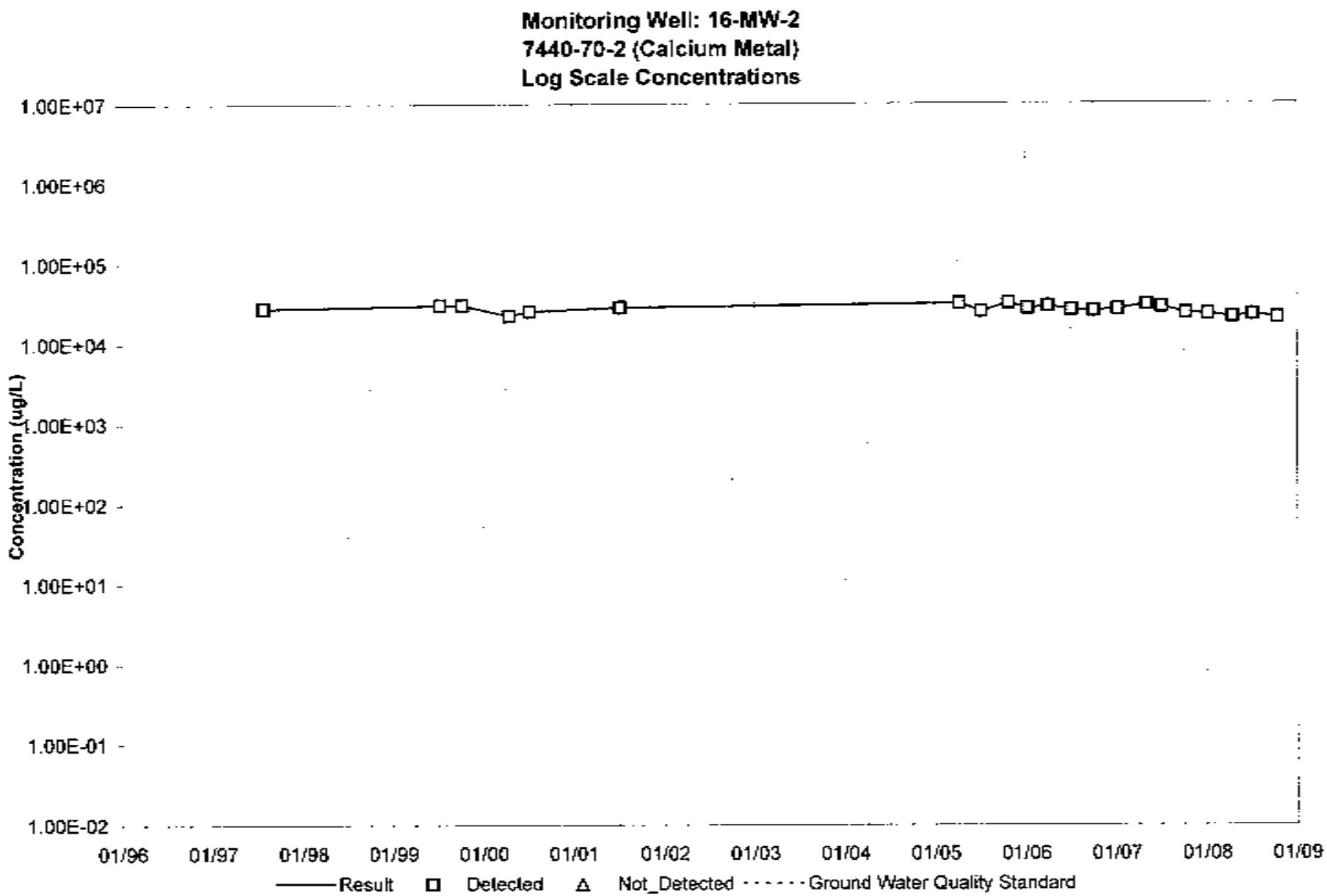

Monitoring Well: III
7440-43-9 (Cadmium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

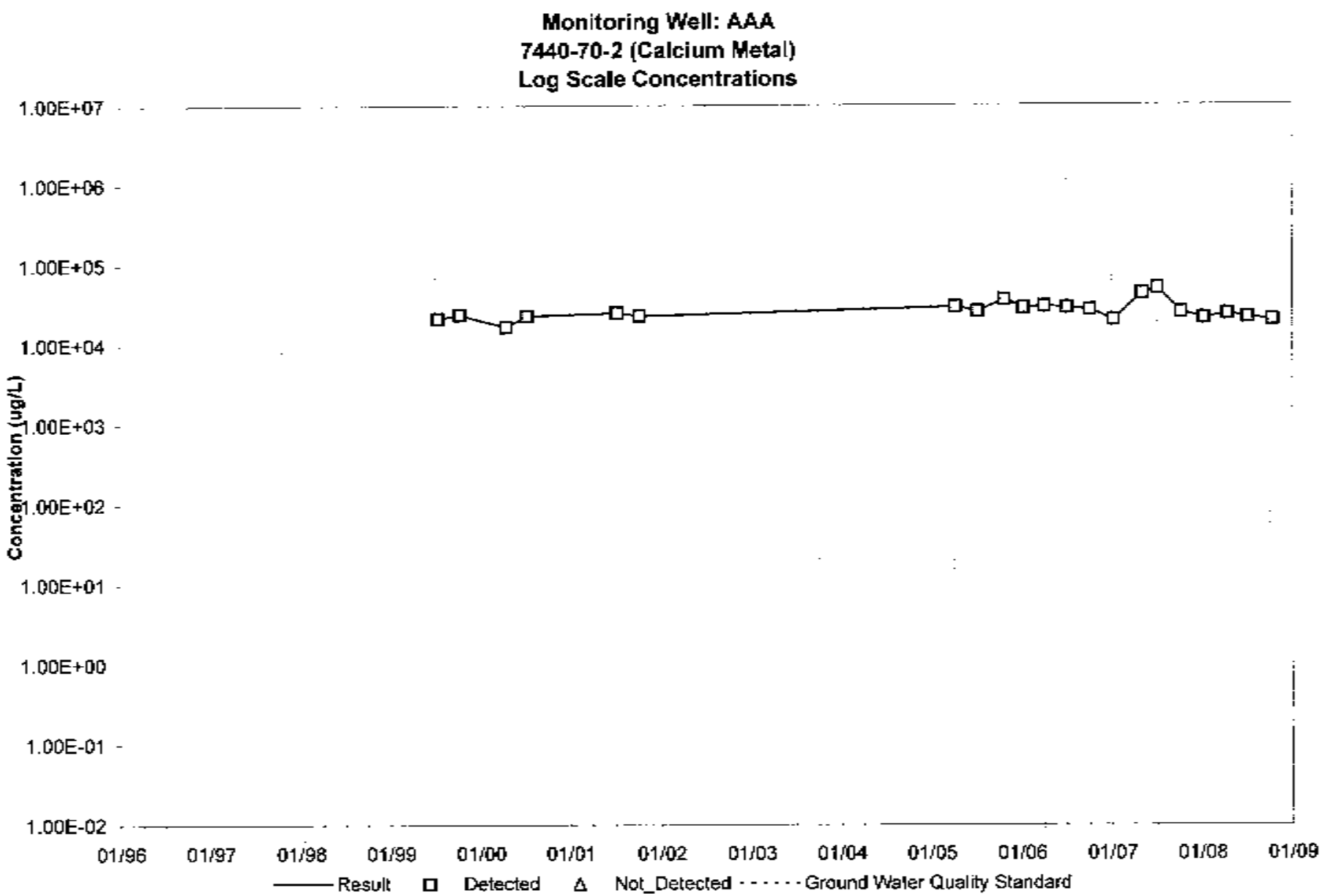

Monitoring Well: 38R
7440-47-3 (Chromium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

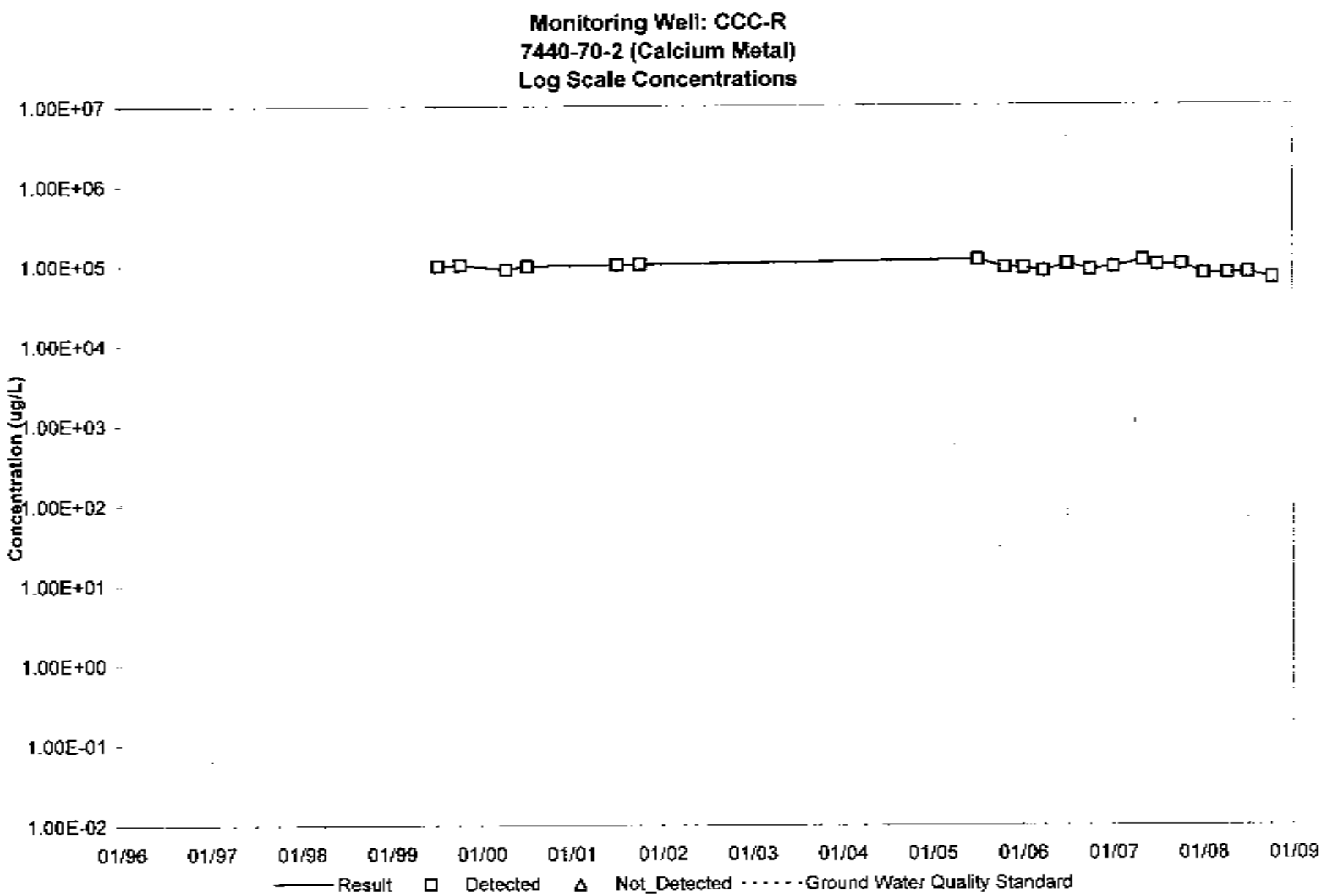

Monitoring Well: CCC-R
7440-47-3 (Chromium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

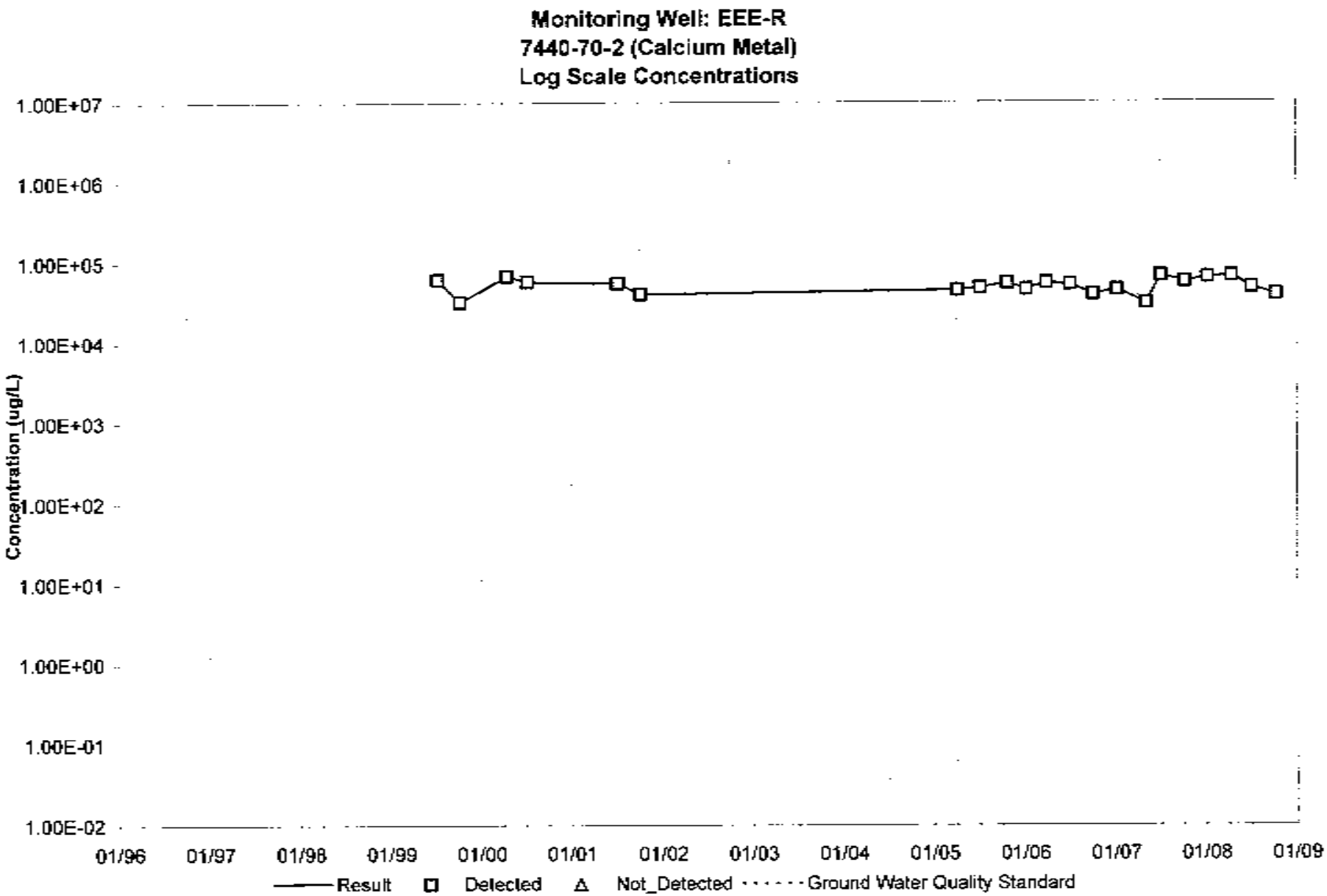

Monitoring Well: RCRA-D6
7440-47-3 (Chromium)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

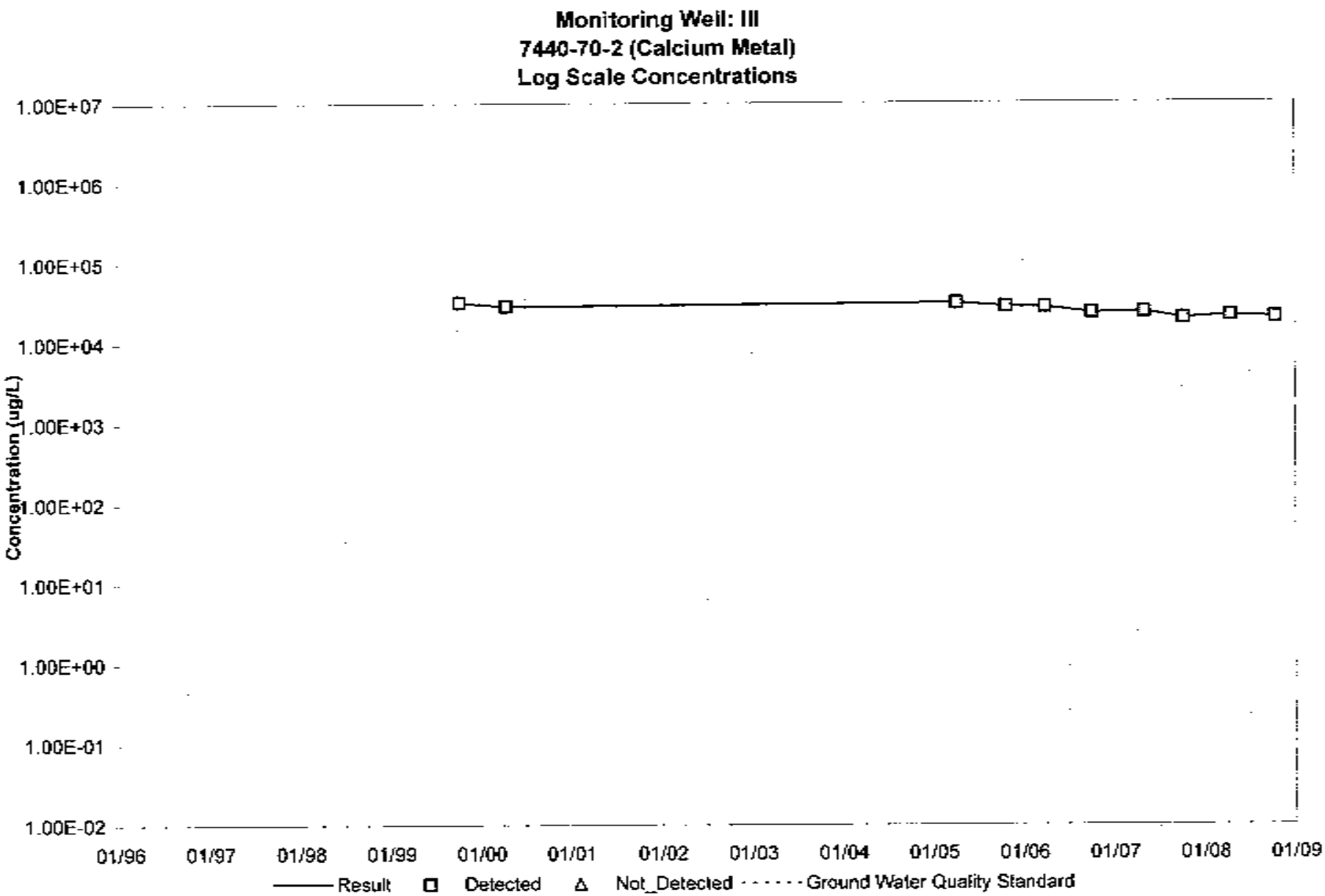

Monitoring Well: 16-MW-2
7440-48-4 (Cobalt)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

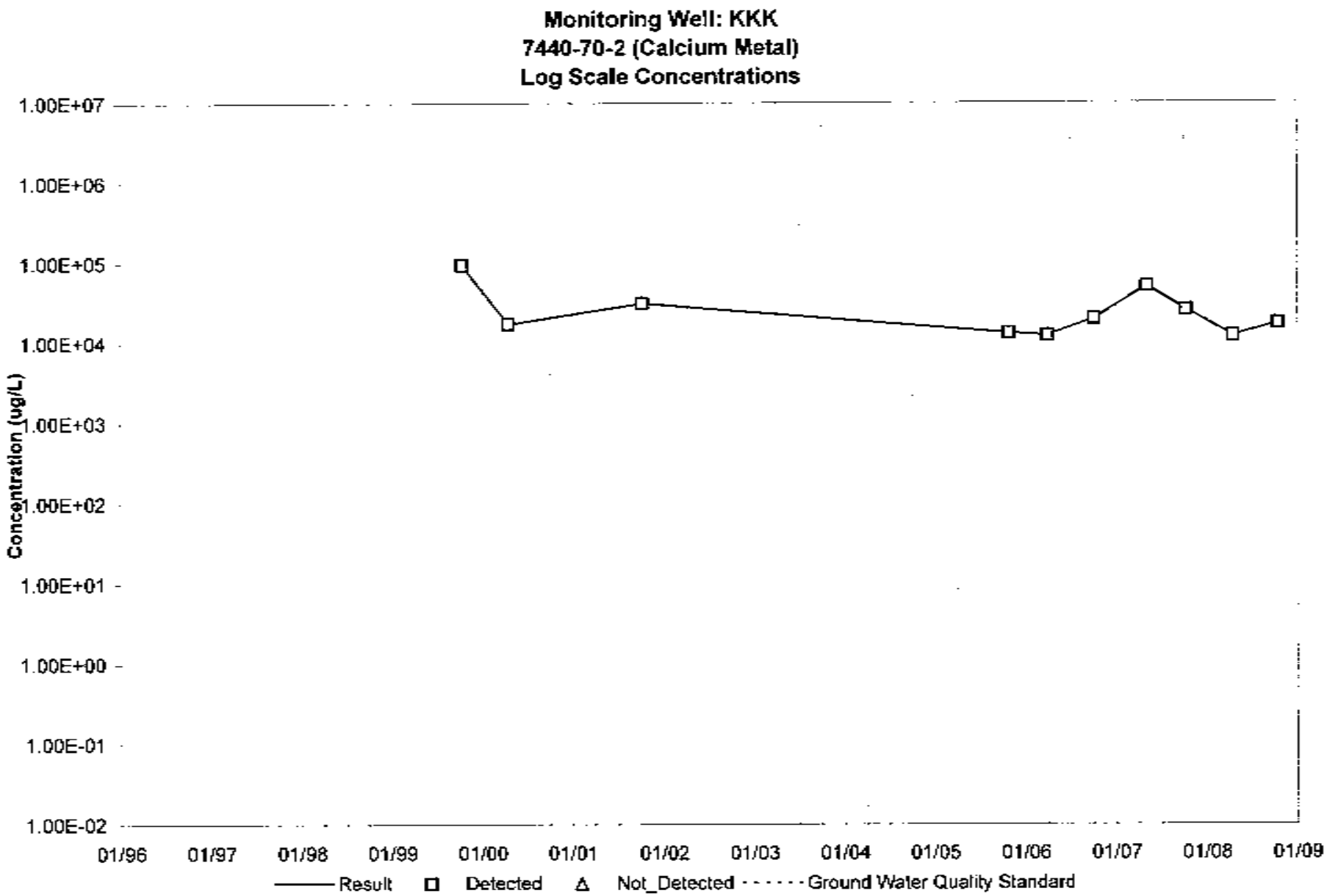

Monitoring Well: 16-MW-2
7440-70-2 (Calcium Metal)
Log Scale Concentrations
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
Concentration (ug/L)
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

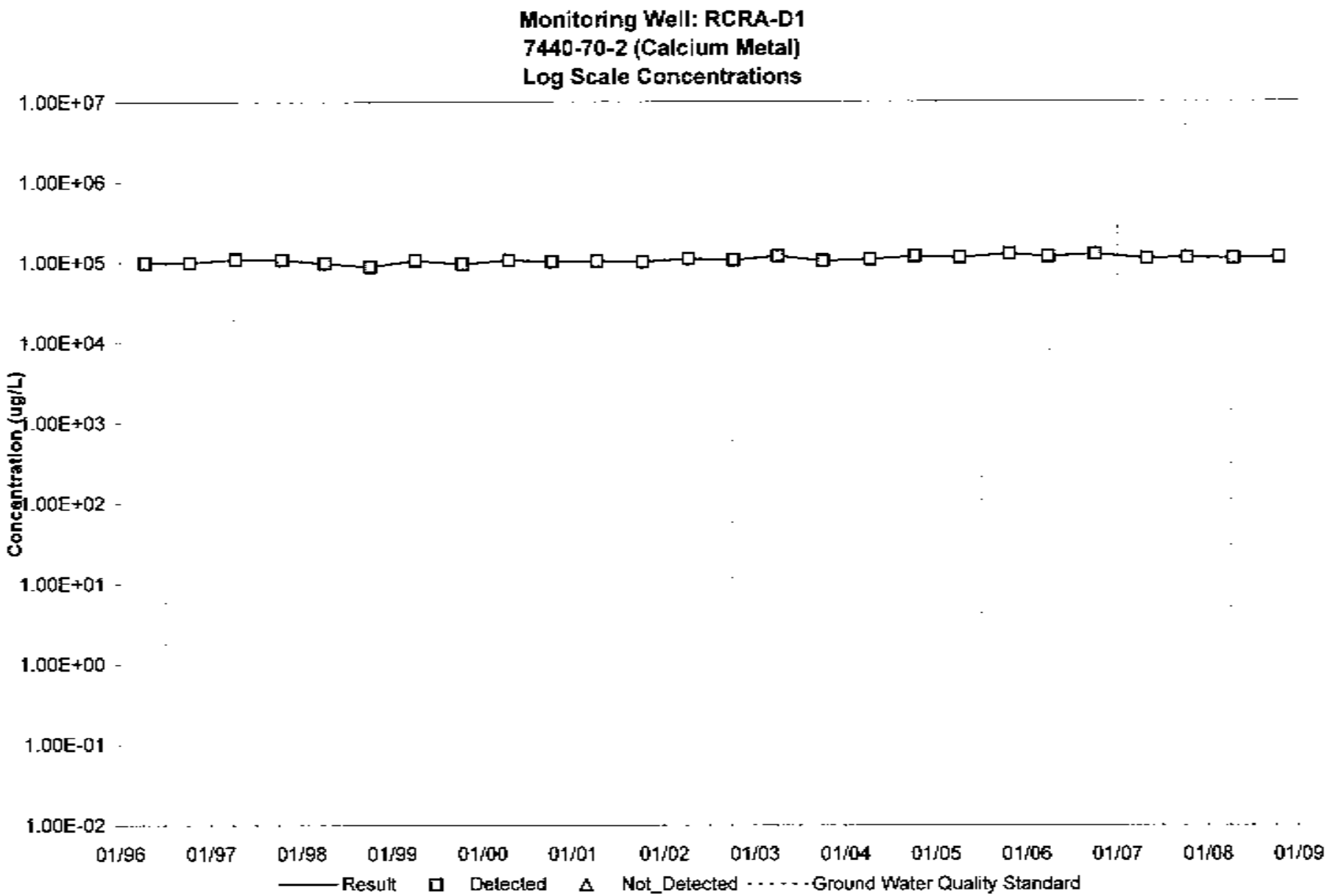

Monitoring Well: AAA
7440-70-2 (Calcium Metal)
Log Scale Concentrations
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
Concentration (ug/L)
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

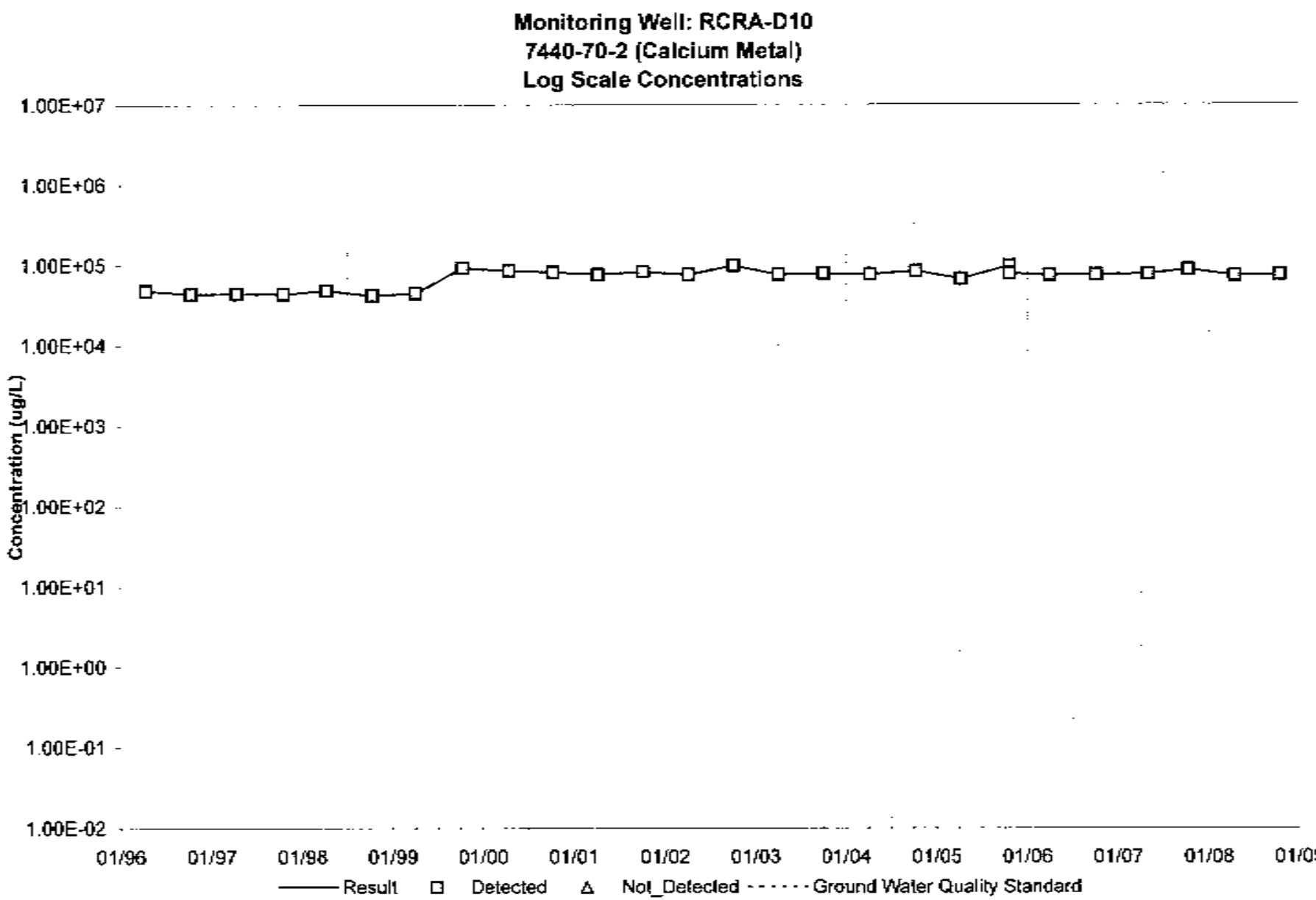

Monitoring Well: CCC-R
7440-70-2 (Calcium Metal)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

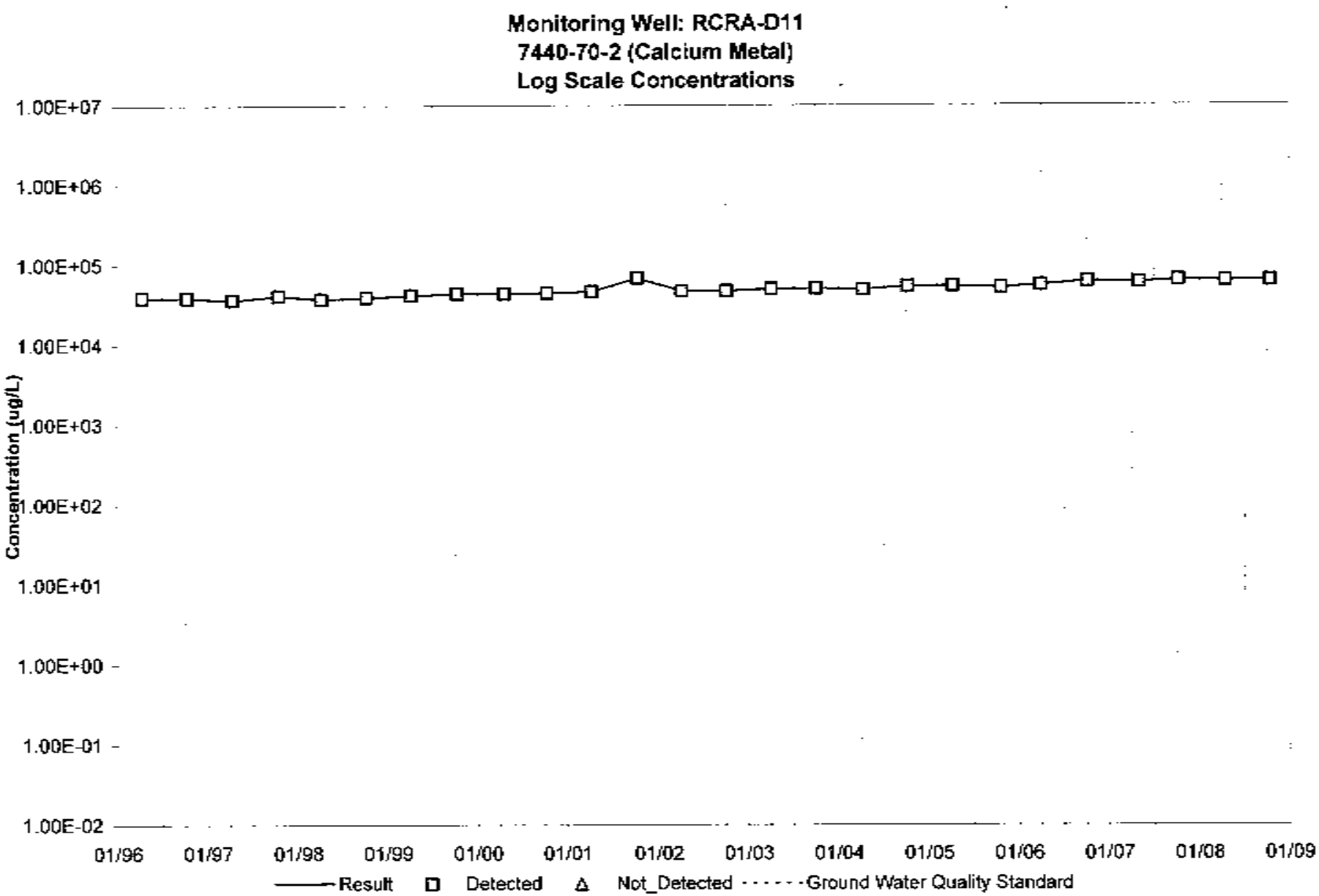

Monitoring Well: EEE-R
7440-70-2 (Calcium Metal)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

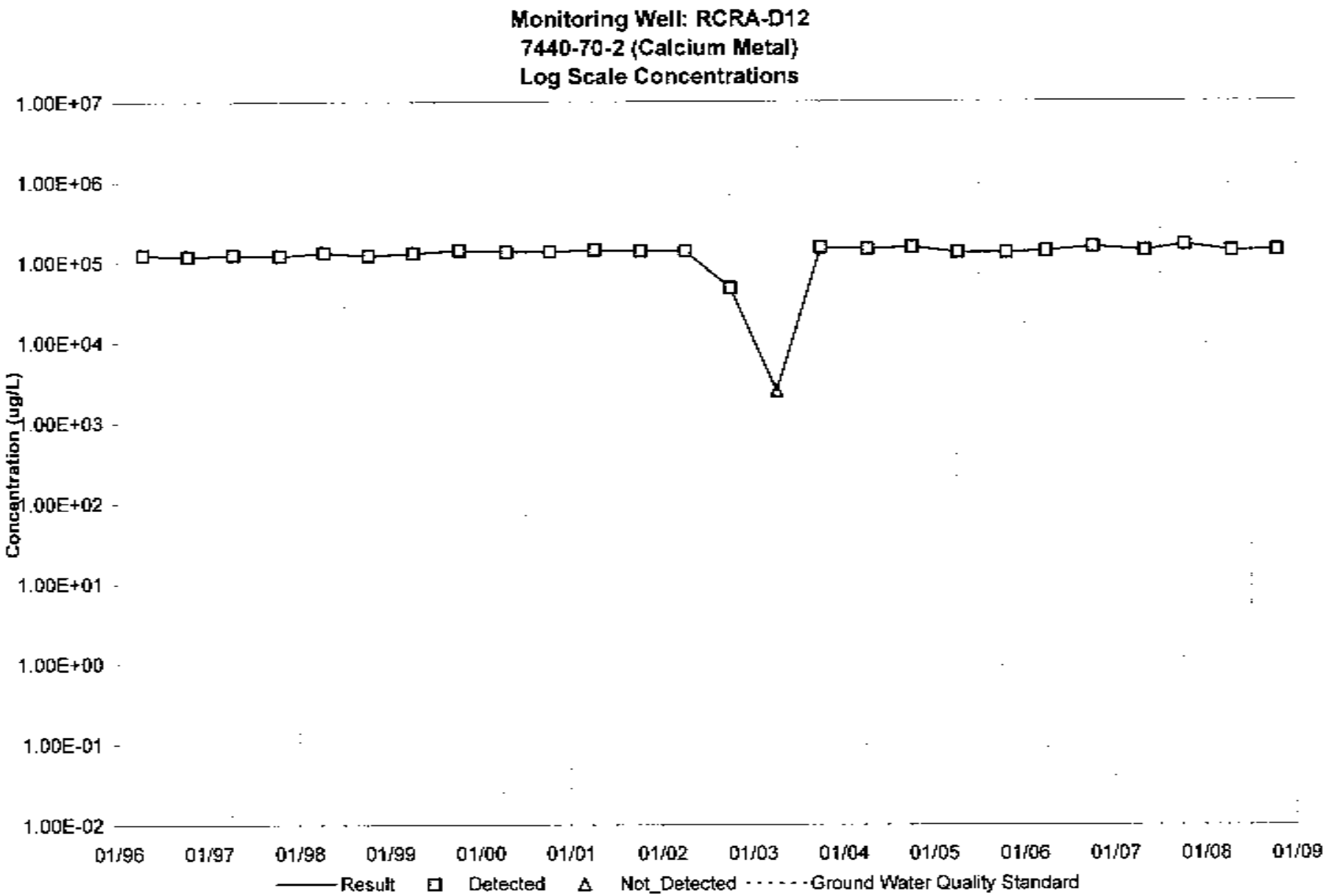

Monitoring Well: III
7440-70-2 (Calcium Metal)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

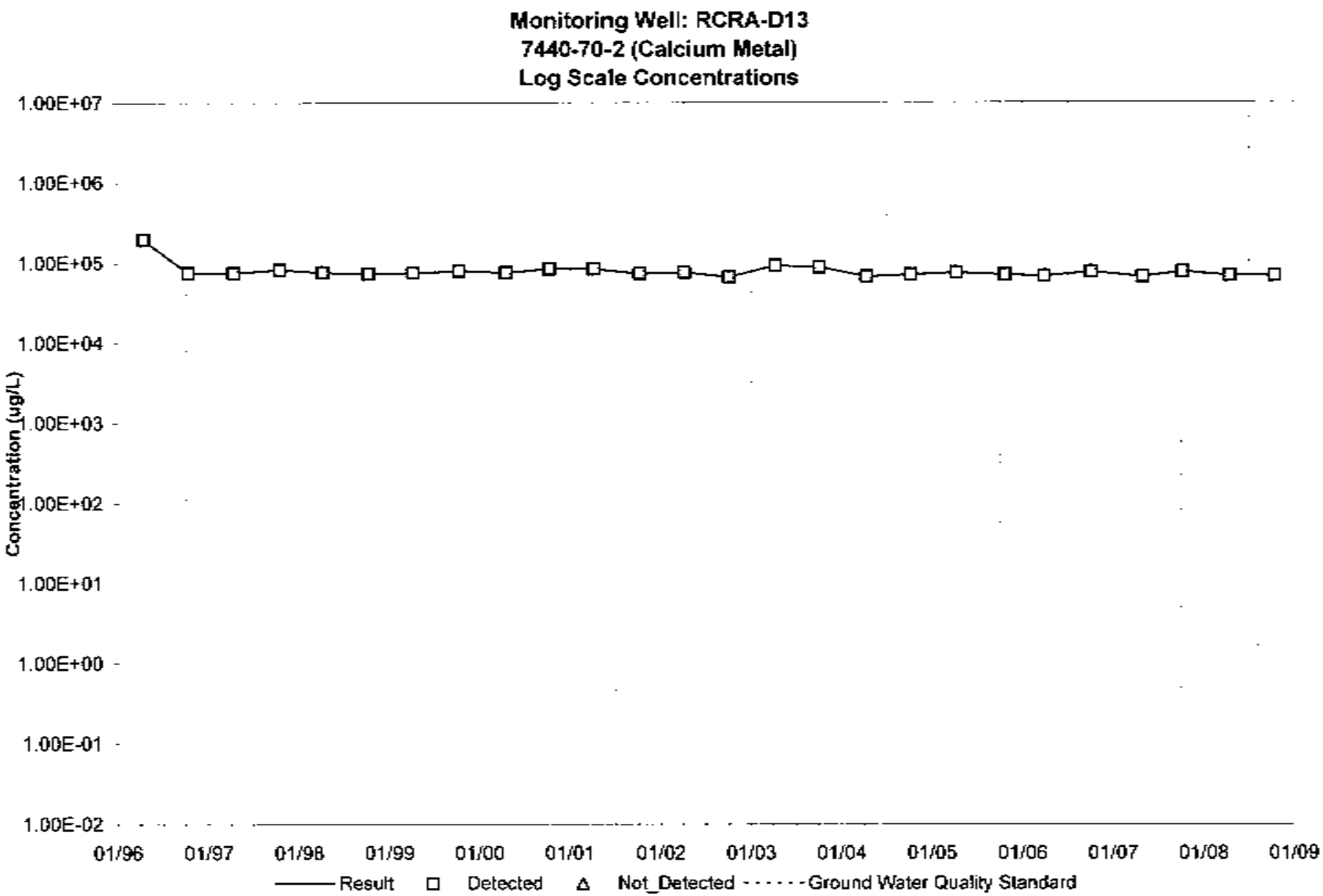

Monitoring Well: KKK
7440-70-2 (Calcium Metal)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

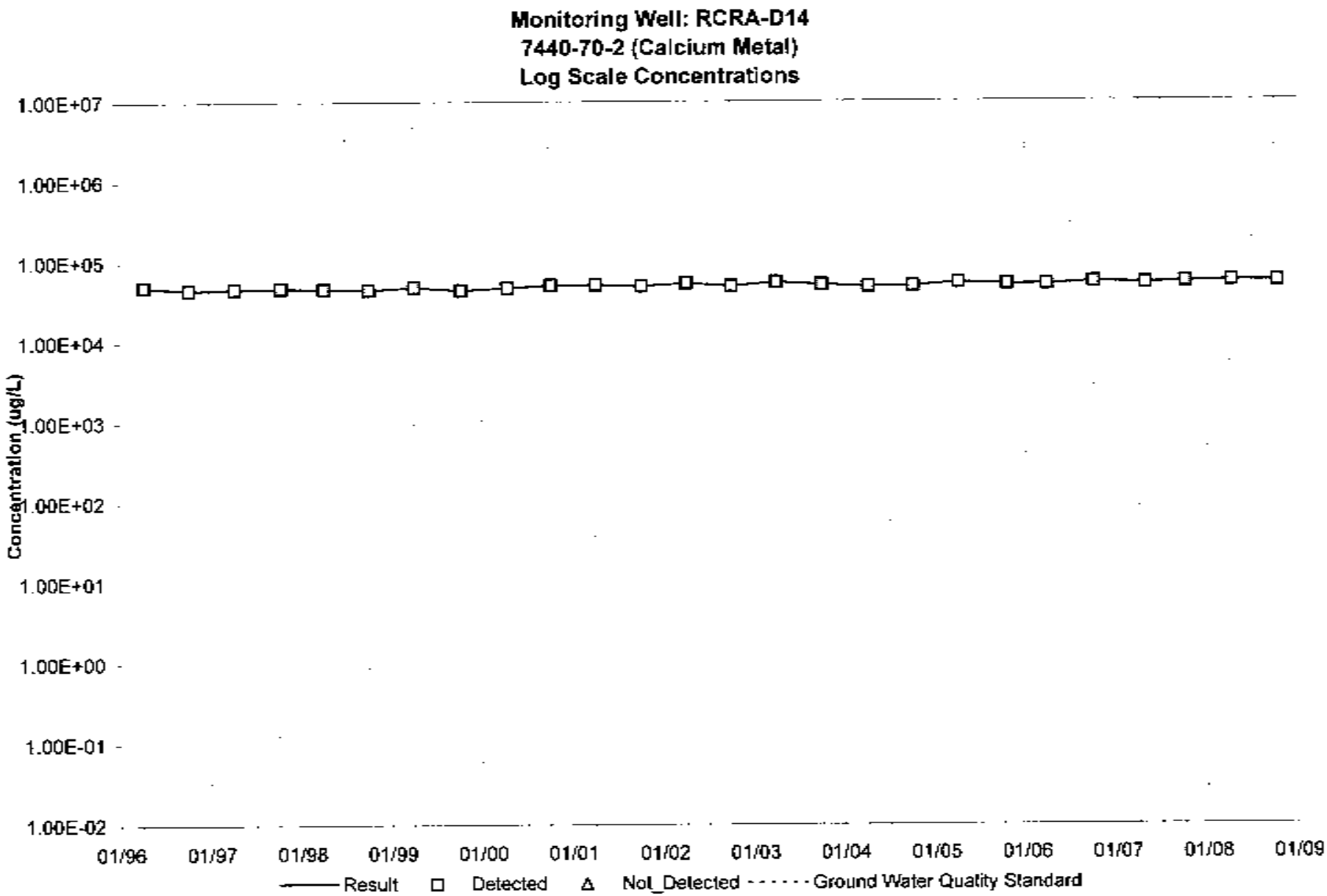

Monitoring Well: RCRA-D1
7440-70-2 (Calcium Metal)
Log Scale Concentrations
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
Concentration (ug/L)
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

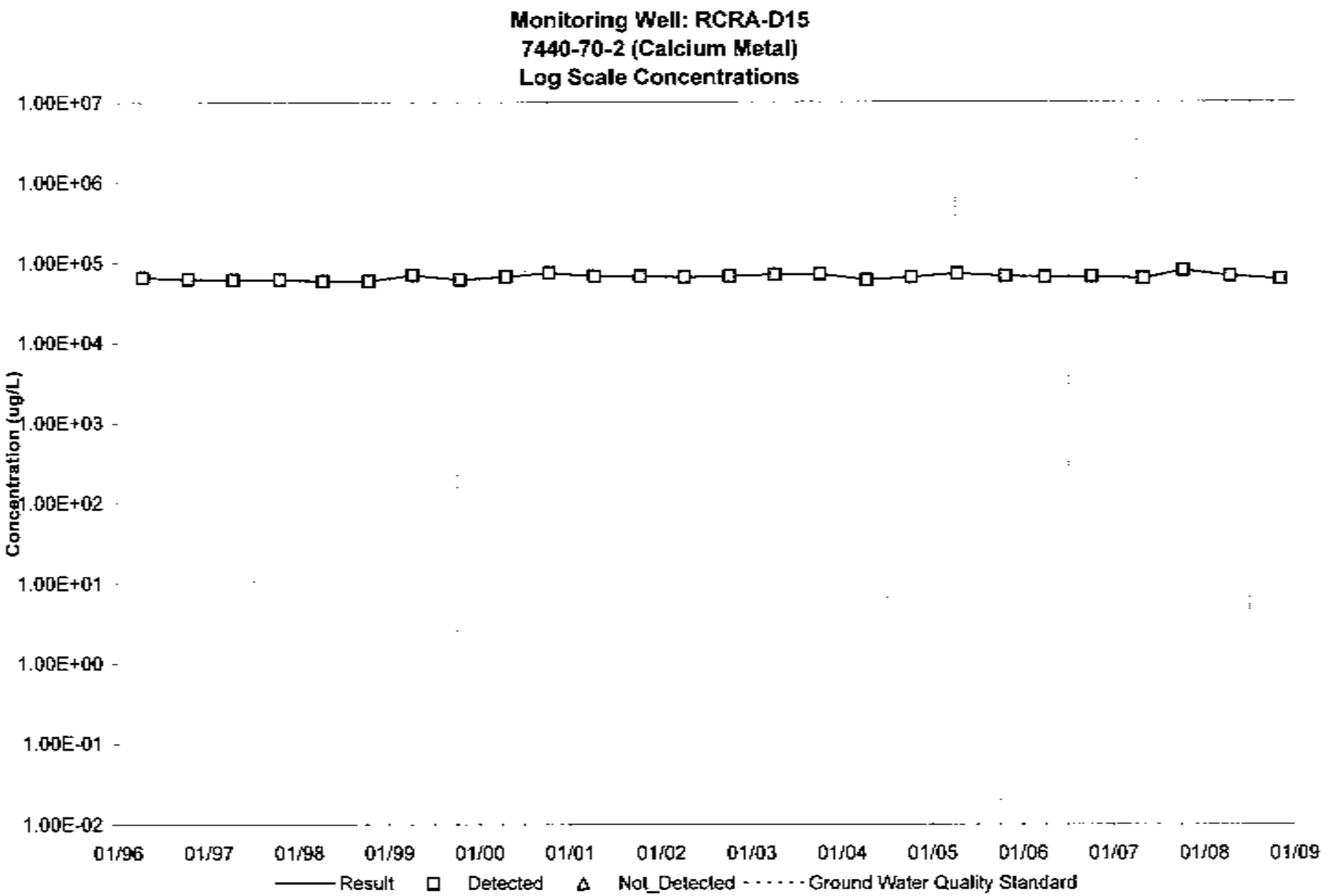

Monitoring Well: RCRA-D10
7440-70-2 (Calcium Metal)
Log Scale Concentrations
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
Concentration (ug/L)
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

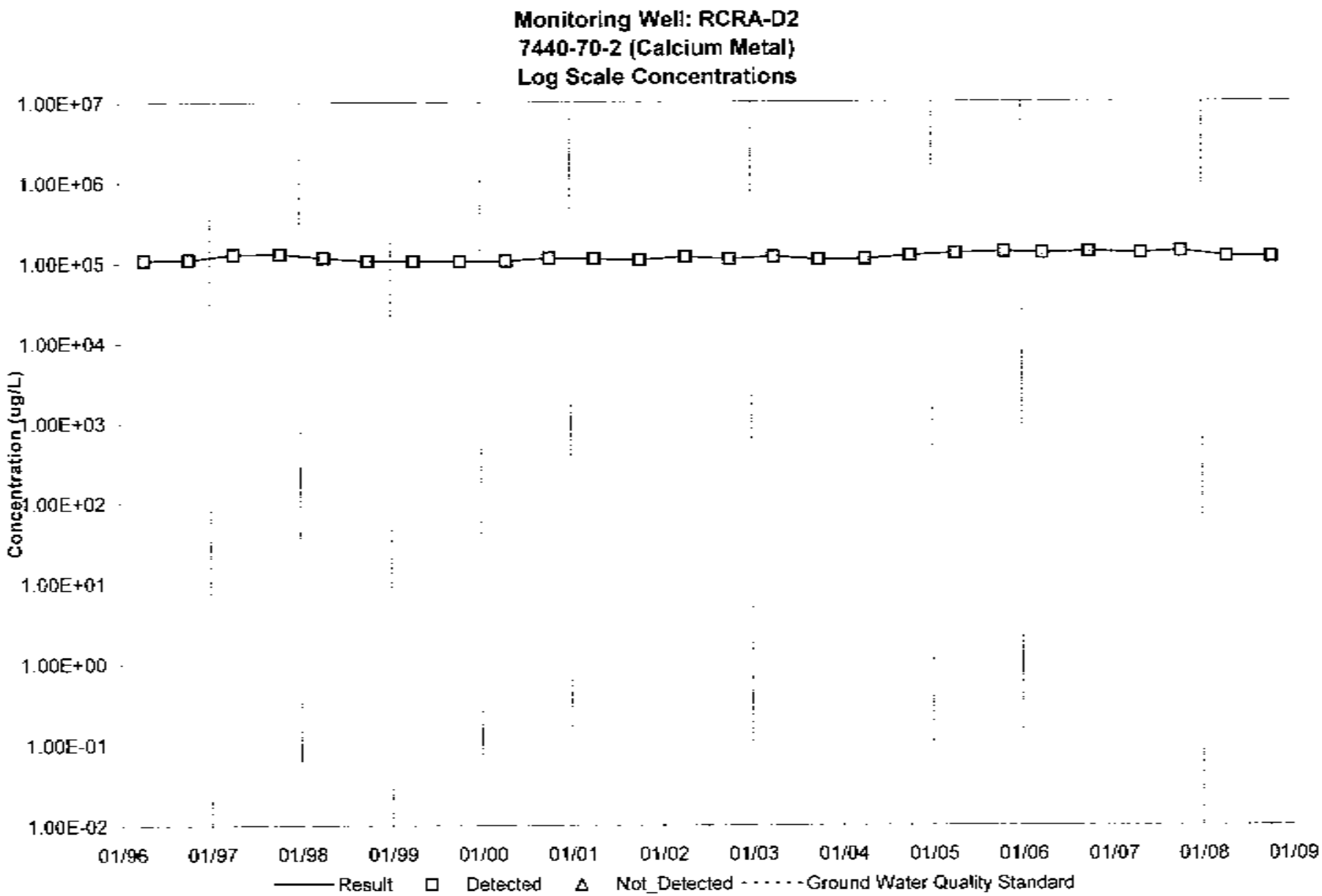

Monitoring Well: RCRA-D11
7440-70-2 (Calcium Metal)
Log Scale Concentrations
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
Concentration (ug/L)
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

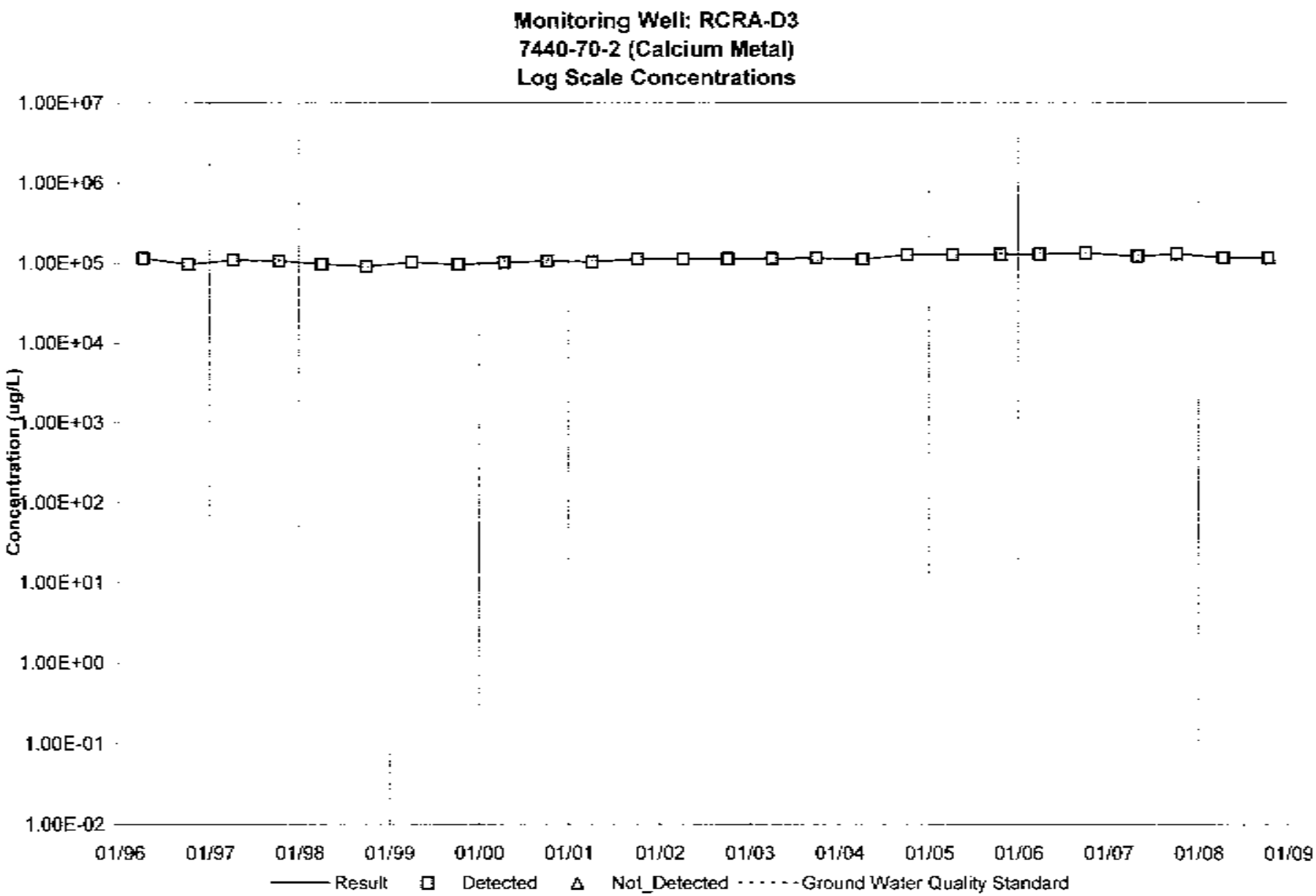

Monitoring Well: RCRA-D12
7440-70-2 (Calcium Metal)
Log Scale Concentrations
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
Concentration (ug/L)
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

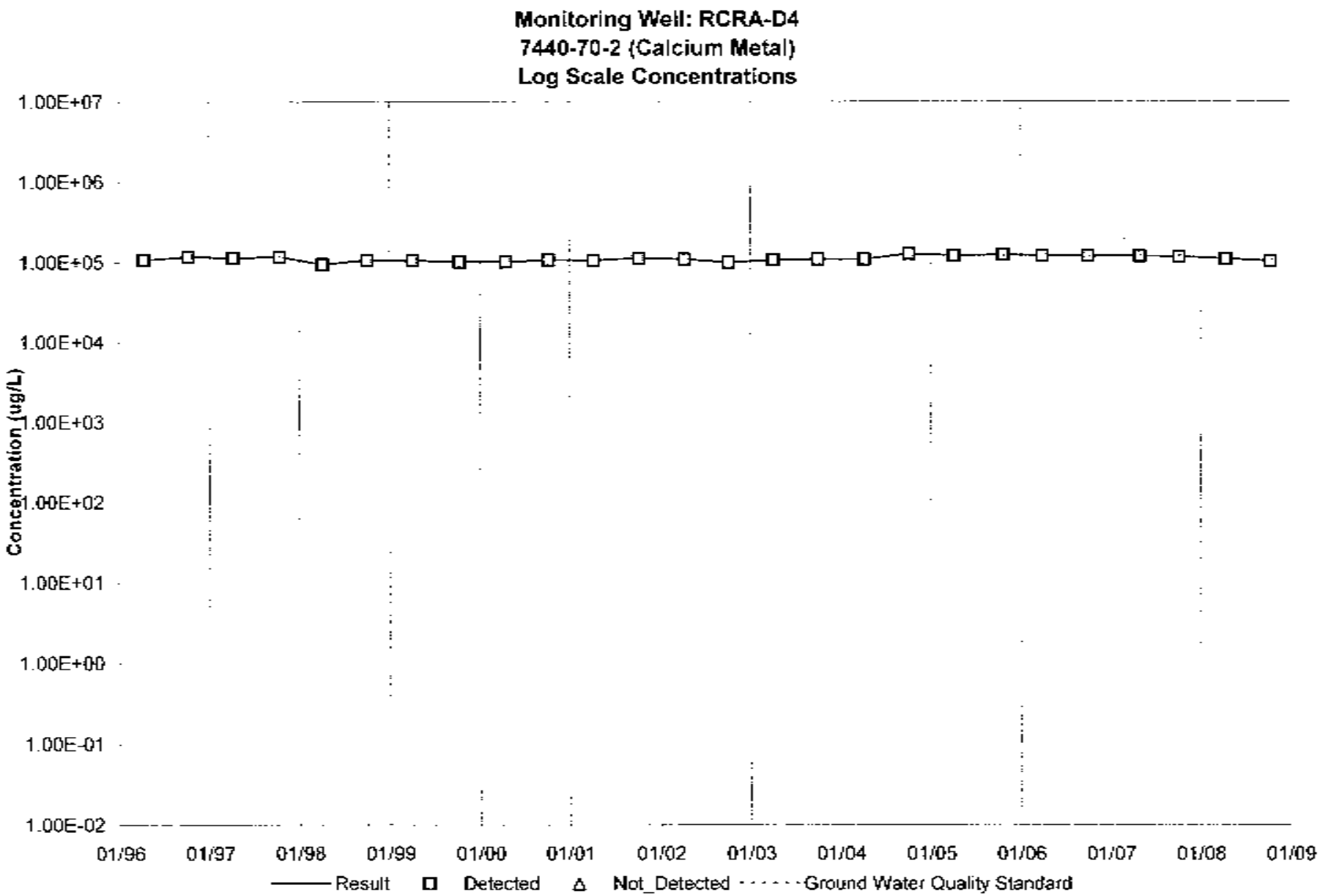

Monitoring Well: RCRA-D13
7440-70-2 (Calcium Metal)
Log Scale Concentrations
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
Concentration (ug/L)
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

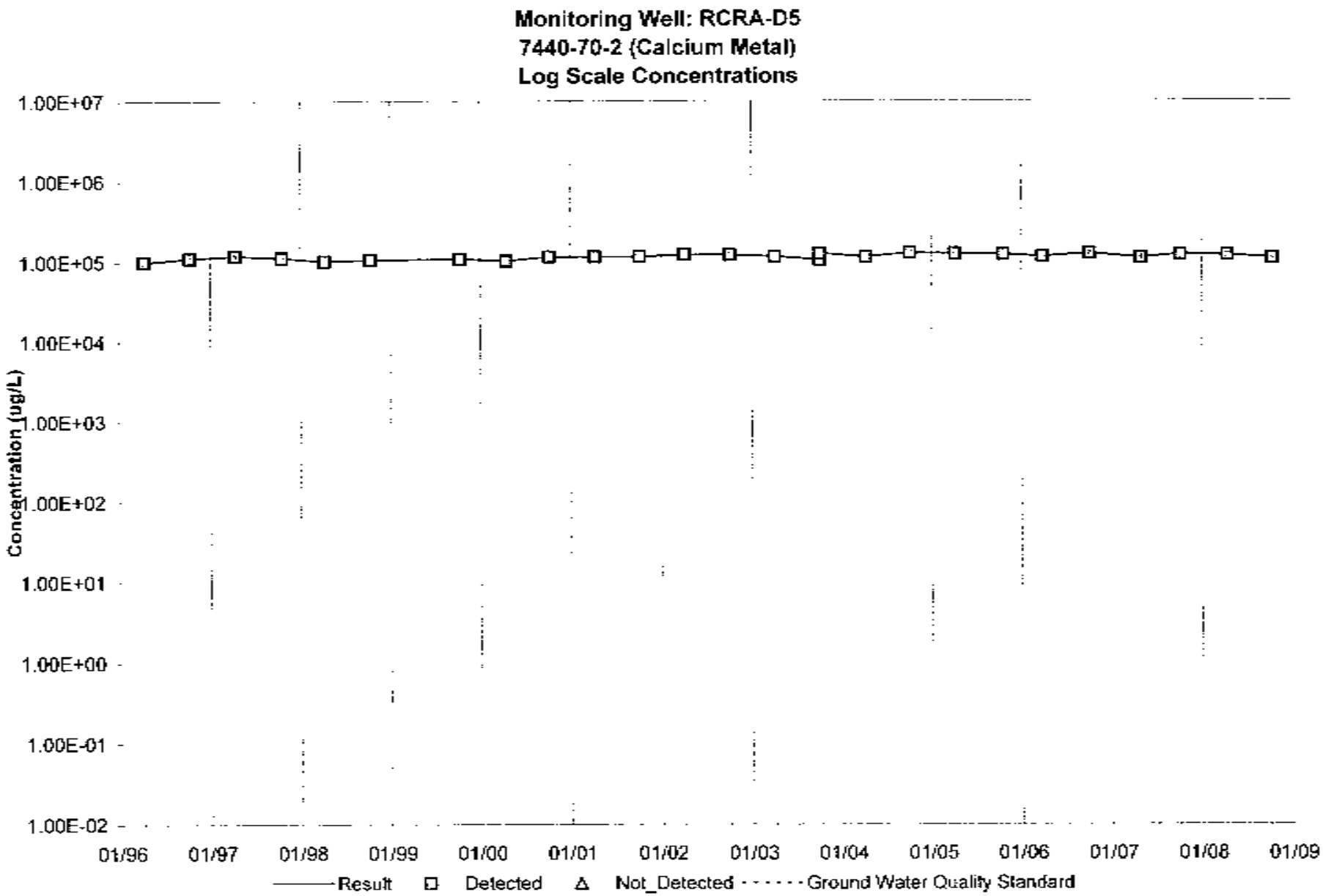

Monitoring Well: RCRA-D14
7440-70-2 (Calcium Metal)
Log Scale Concentrations
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
Concentration (ug/L)
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

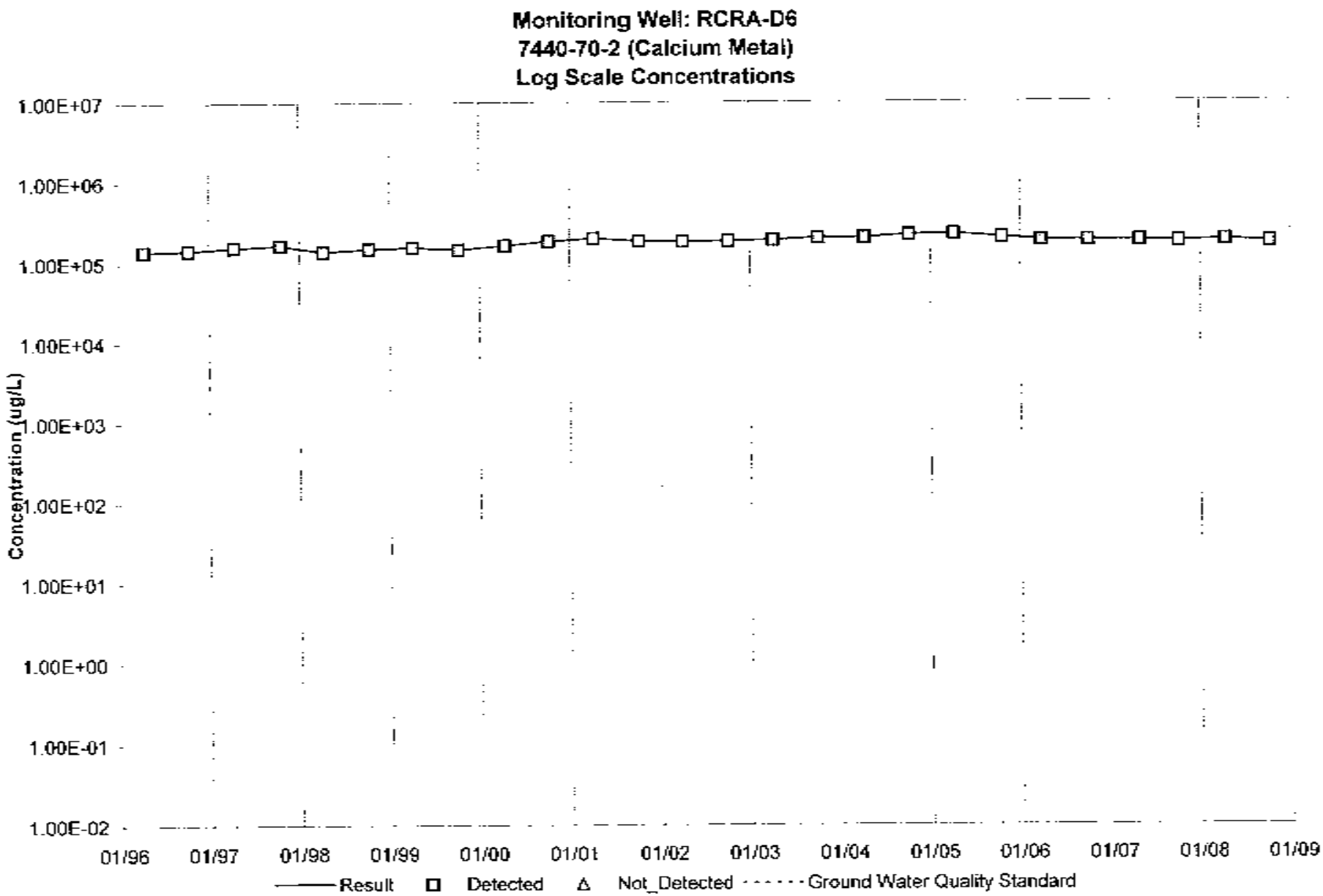

Monitoring Well: RCRA-D15
7440-70-2 (Calcium Metal)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

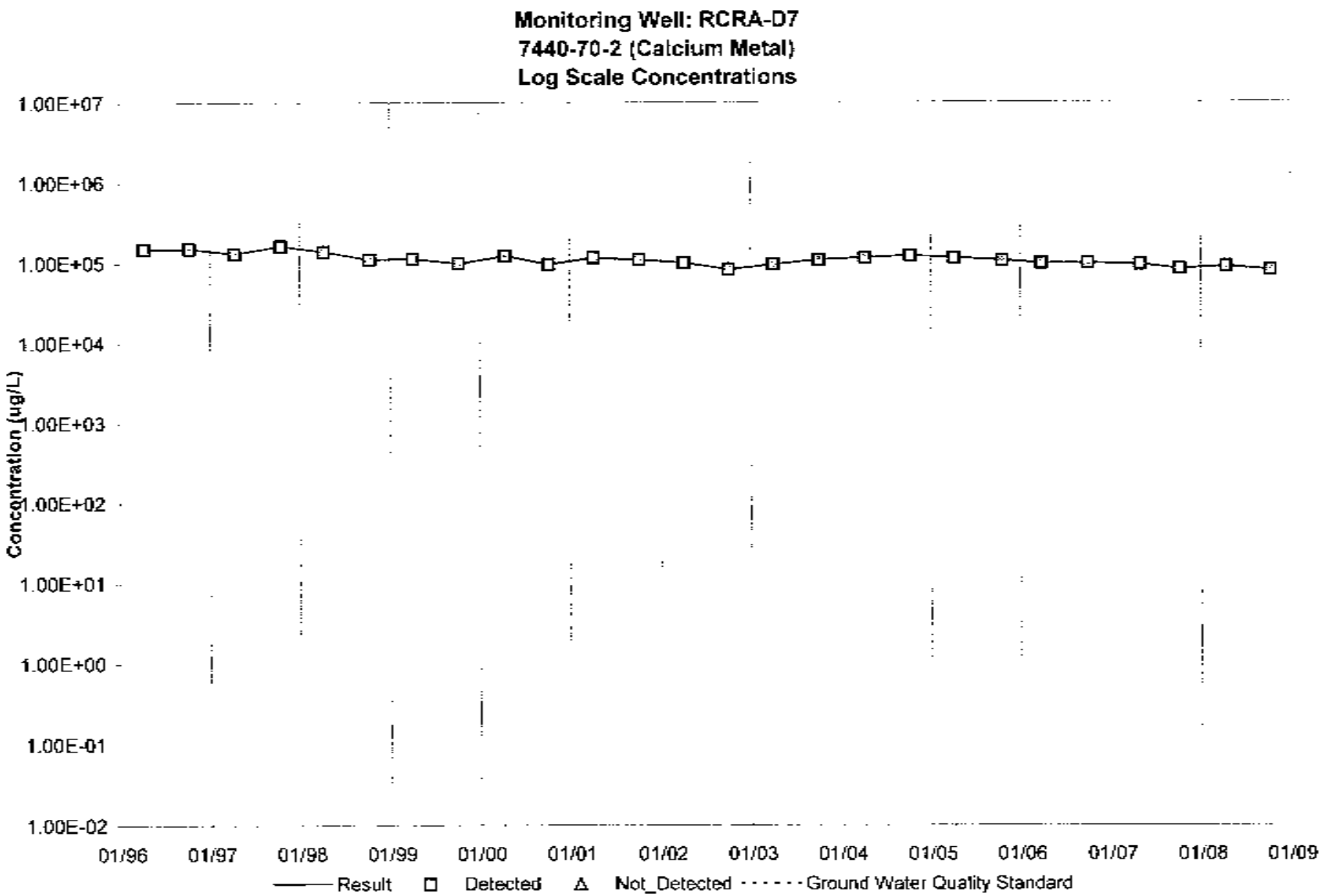

Monitoring Well: RCRA-D2
7440-70-2 (Calcium Metal)
Log Scale Concentrations
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
Concentration (ug/L)
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

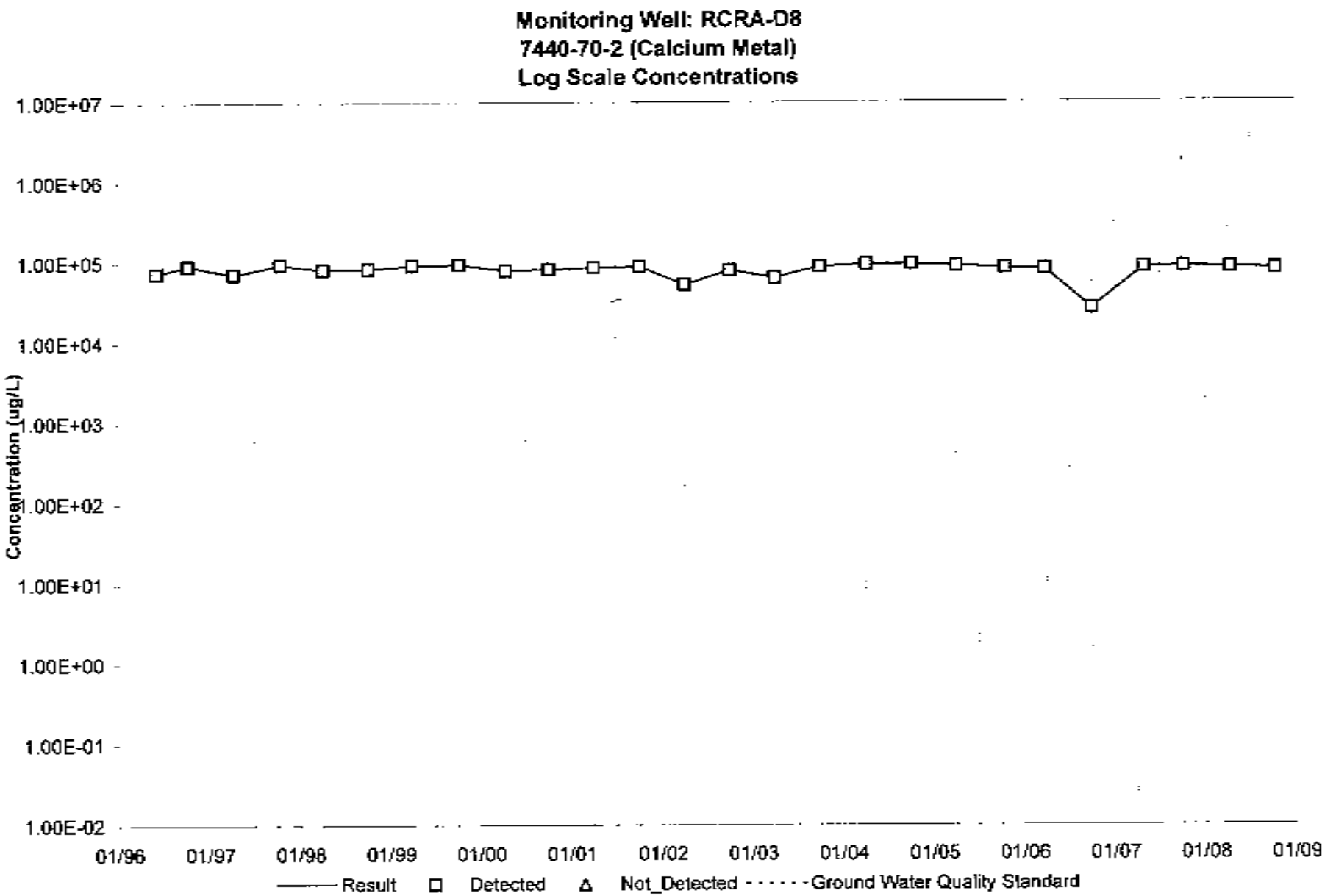

Monitoring Well: RCRA-D3
7440-70-2 (Calcium Metal)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

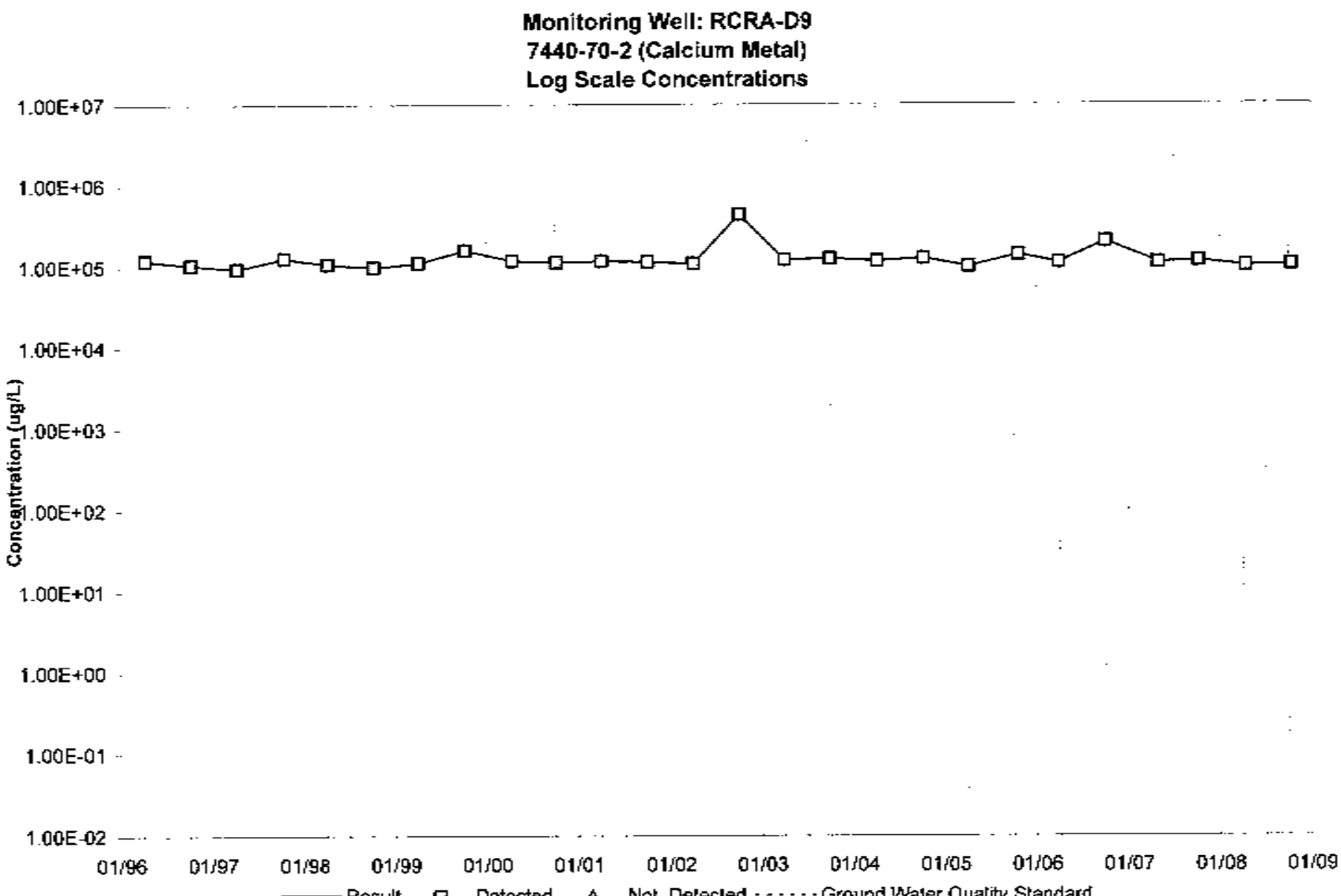

Monitoring Well: RCRA-D4
7440-70-2 (Calcium Metal)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

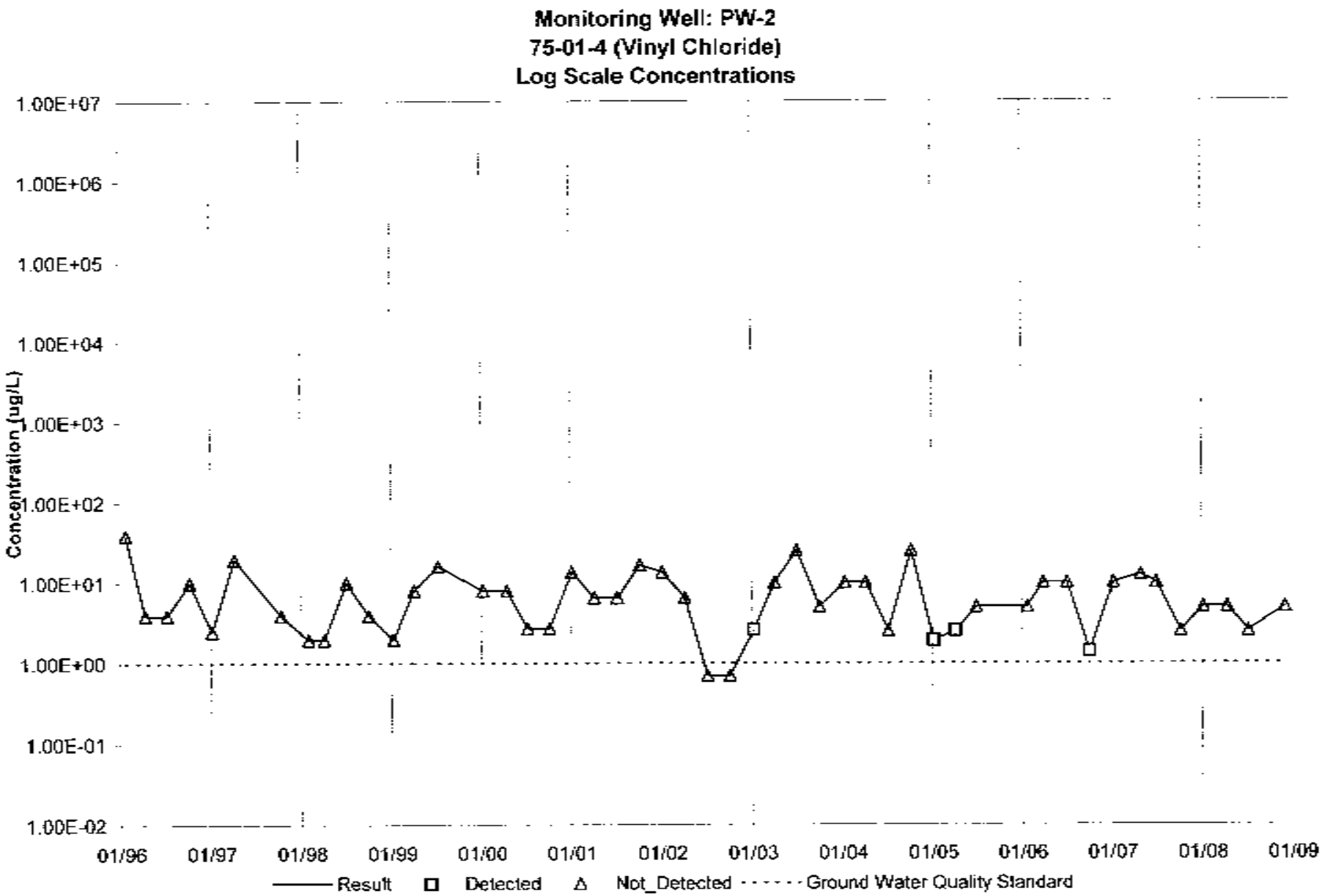

Monitoring Well: RCRA-D5
7440-70-2 (Calcium Metal)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

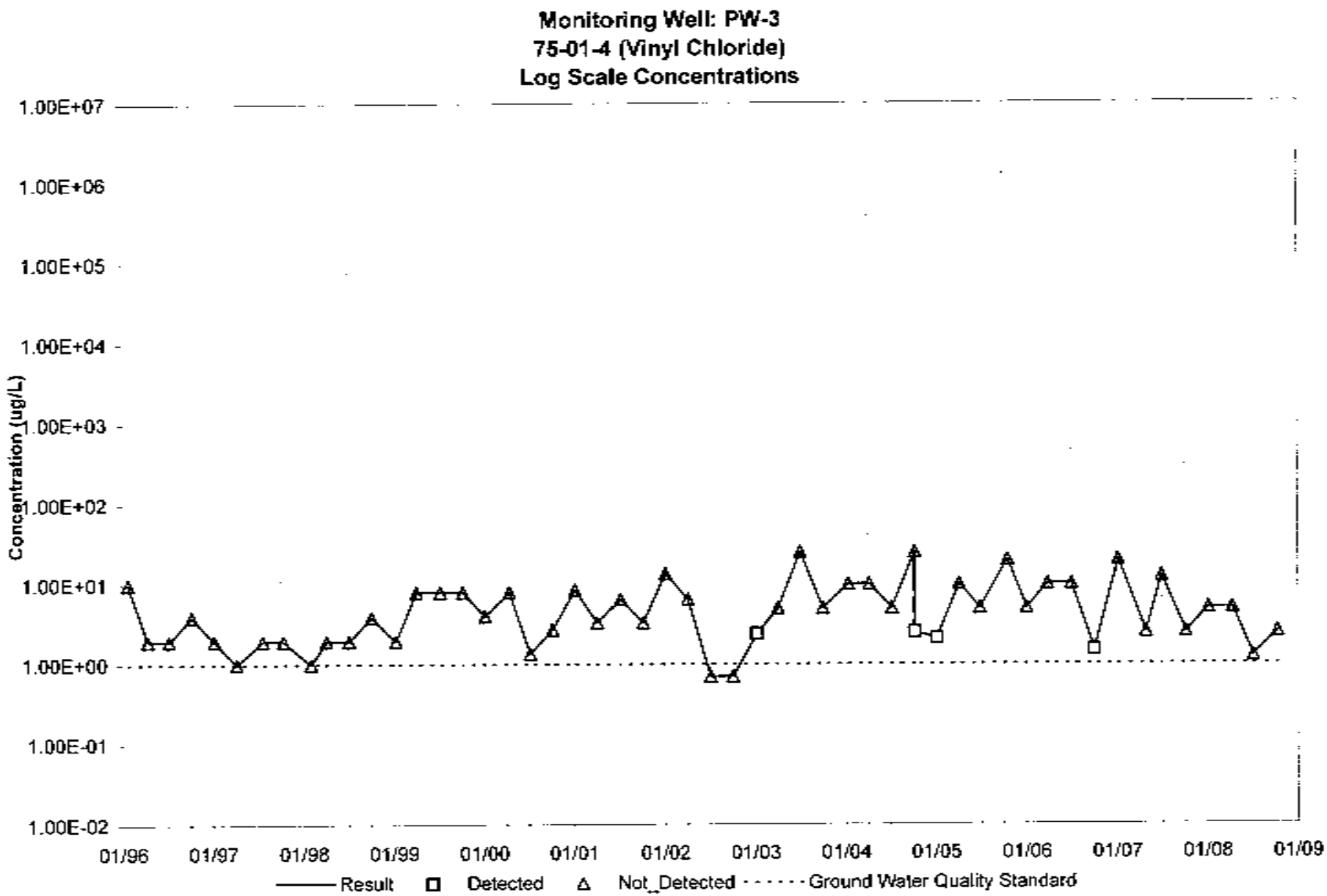

Monitoring Well: RCRA-D6
7440-70-2 (Calcium Metal)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard


Monitoring Well: RCRA-D7
7440-70-2 (Calcium Metal)
Log Scale Concentrations
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
Concentration (ug/L)
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

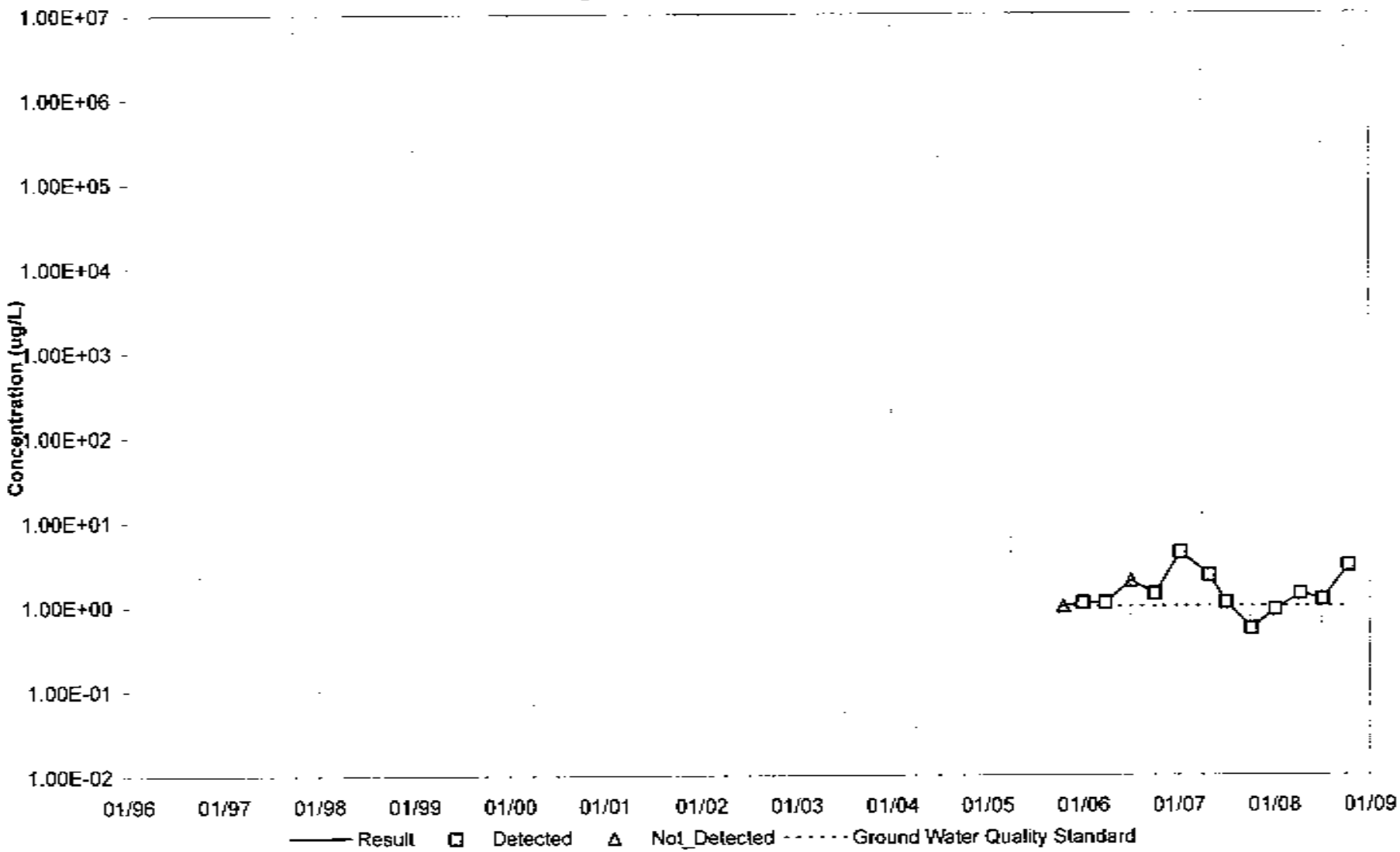

Monitoring Well: RCRA-D8
7440-70-2 (Calcium Metal)
Log Scale Concentrations
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
Concentration (ug/L)
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

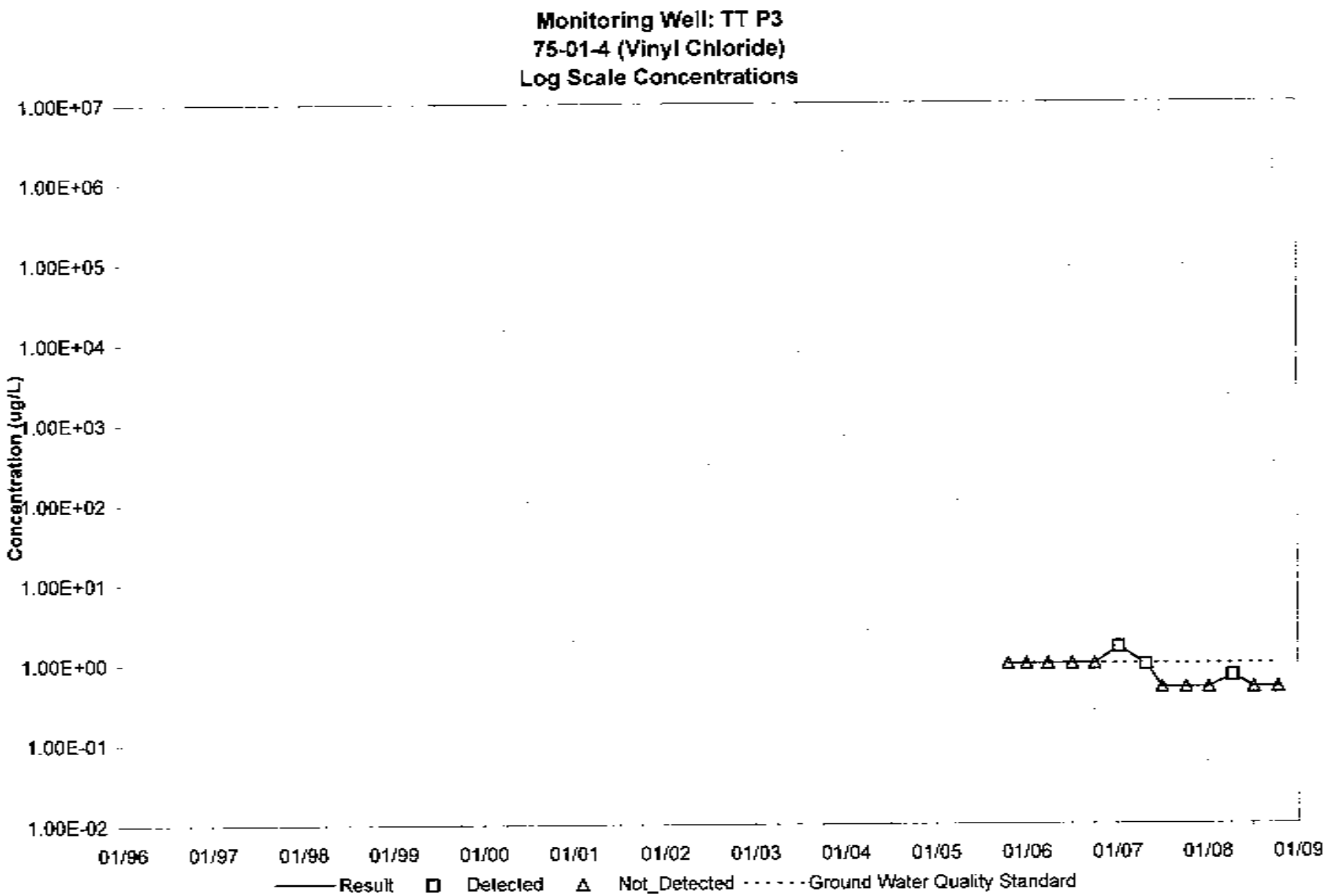

Monitoring Well: RCRA-D9
7440-70-2 (Calcium Metal)
Log Scale Concentrations
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
Concentration (ug/L)
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

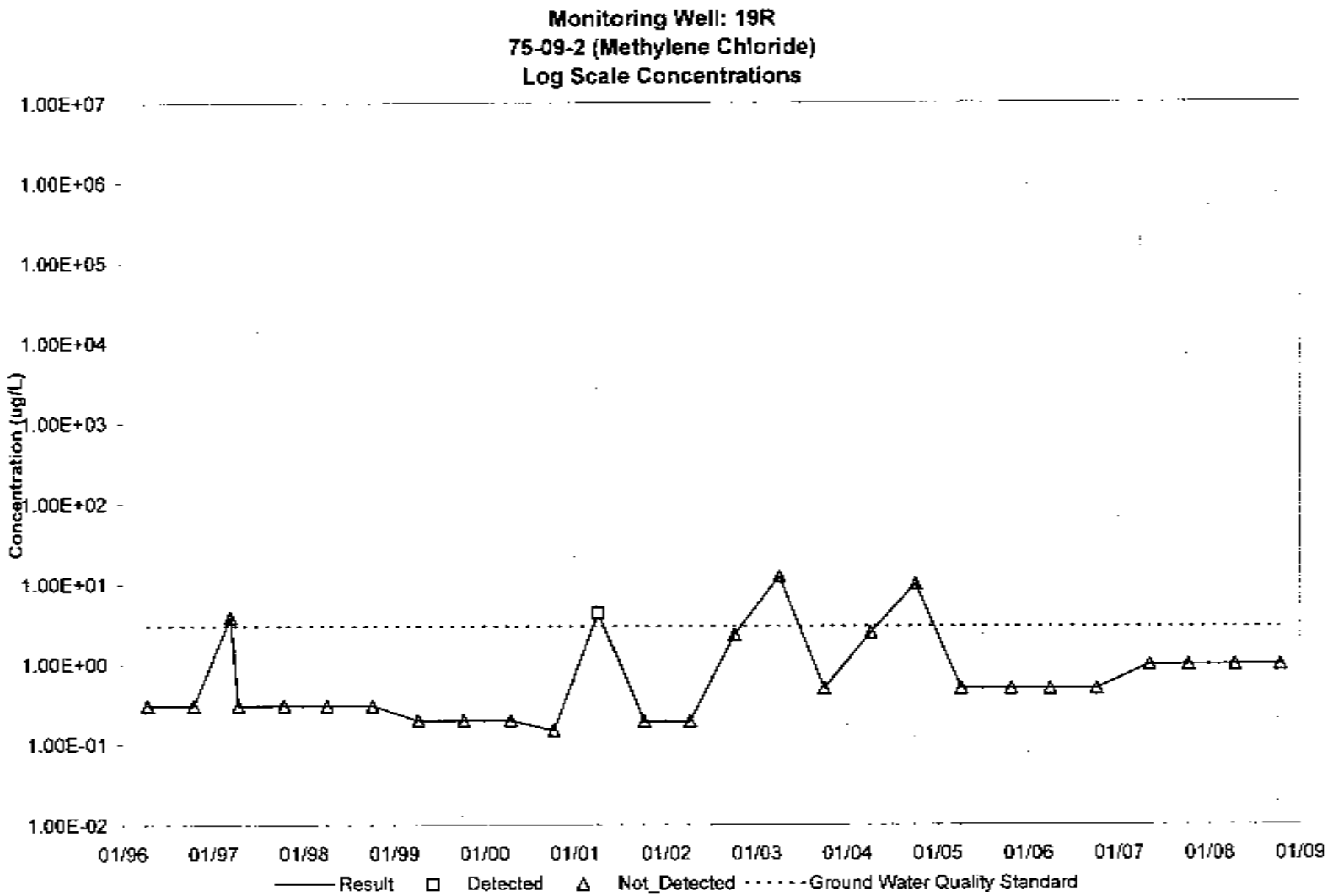

Monitoring Well: PW-2
75-01-4 (Vinyl Chloride)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

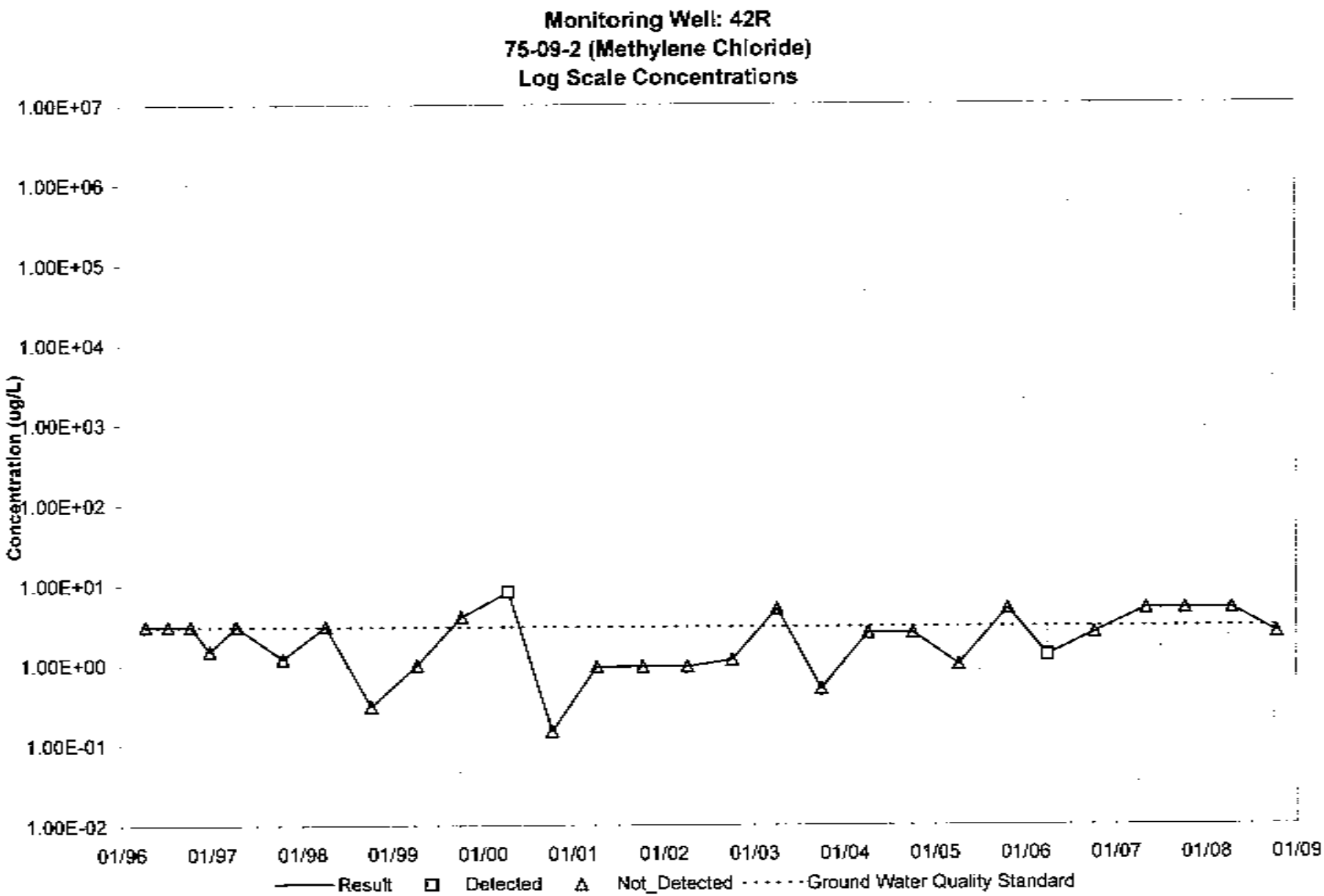

Monitoring Well: PW-3
75-01-4 (Vinyl Chloride)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

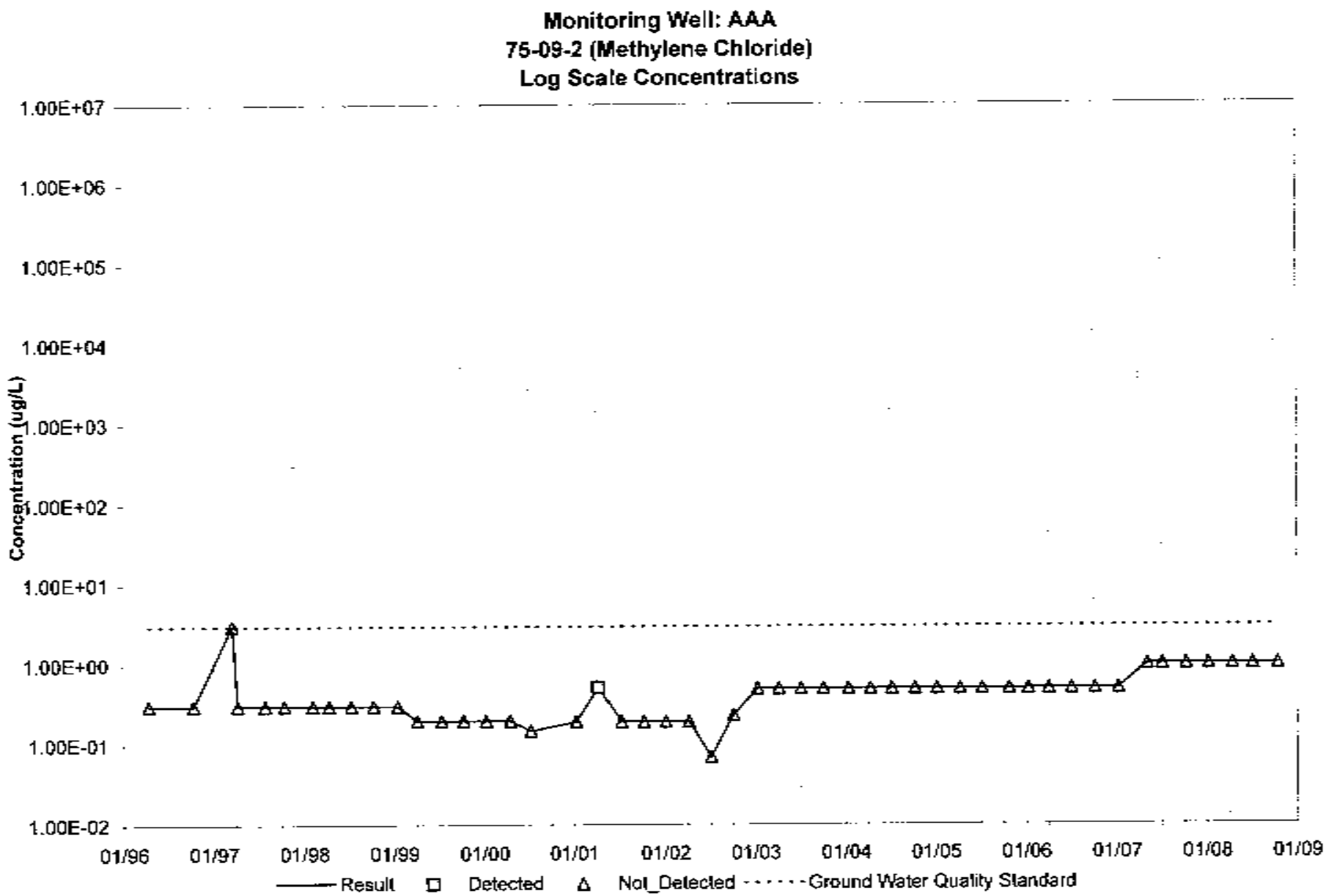
Monitoring Well: TT P1
75-01-4 (Vinyl Chloride)
Log Scale Concentrations

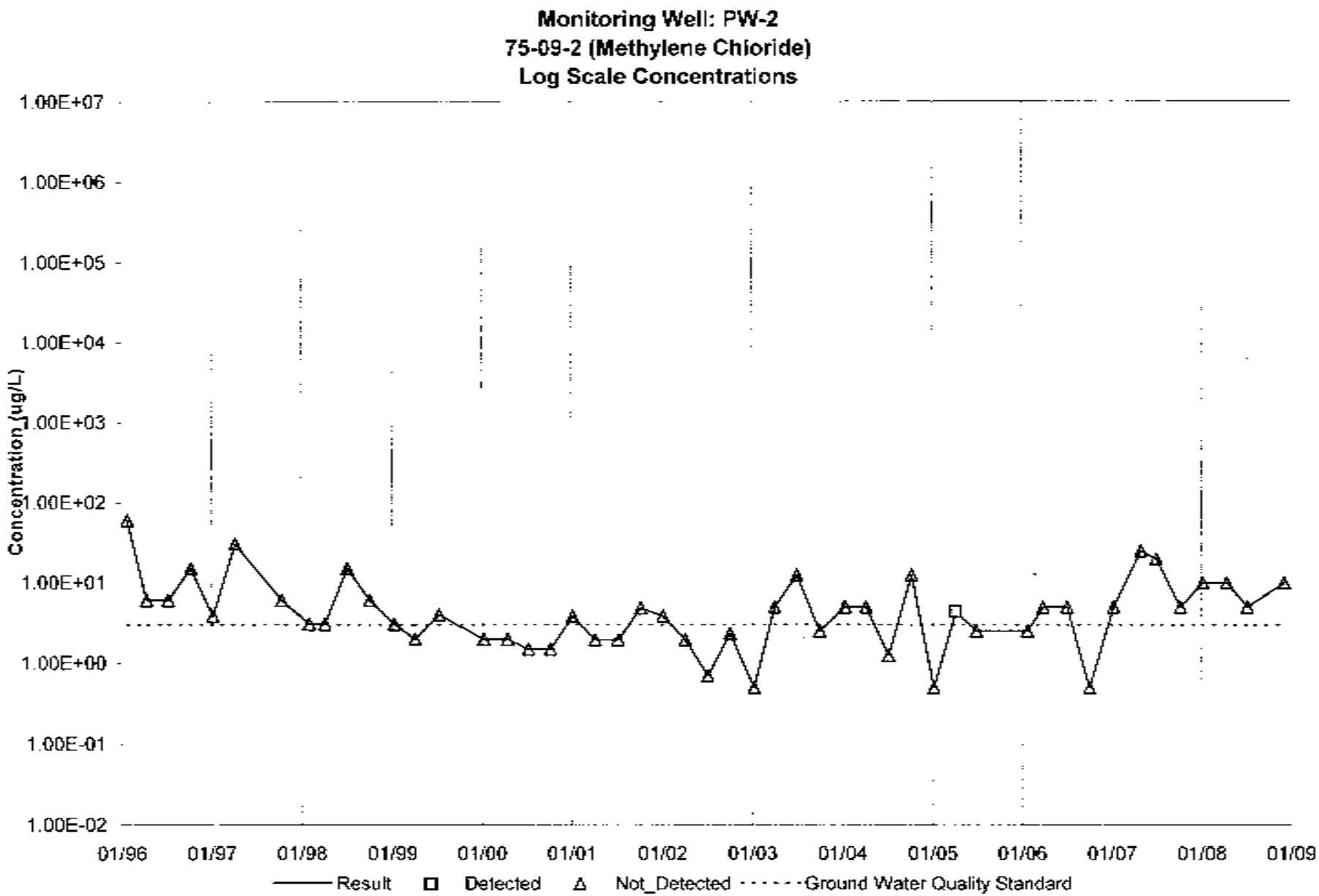


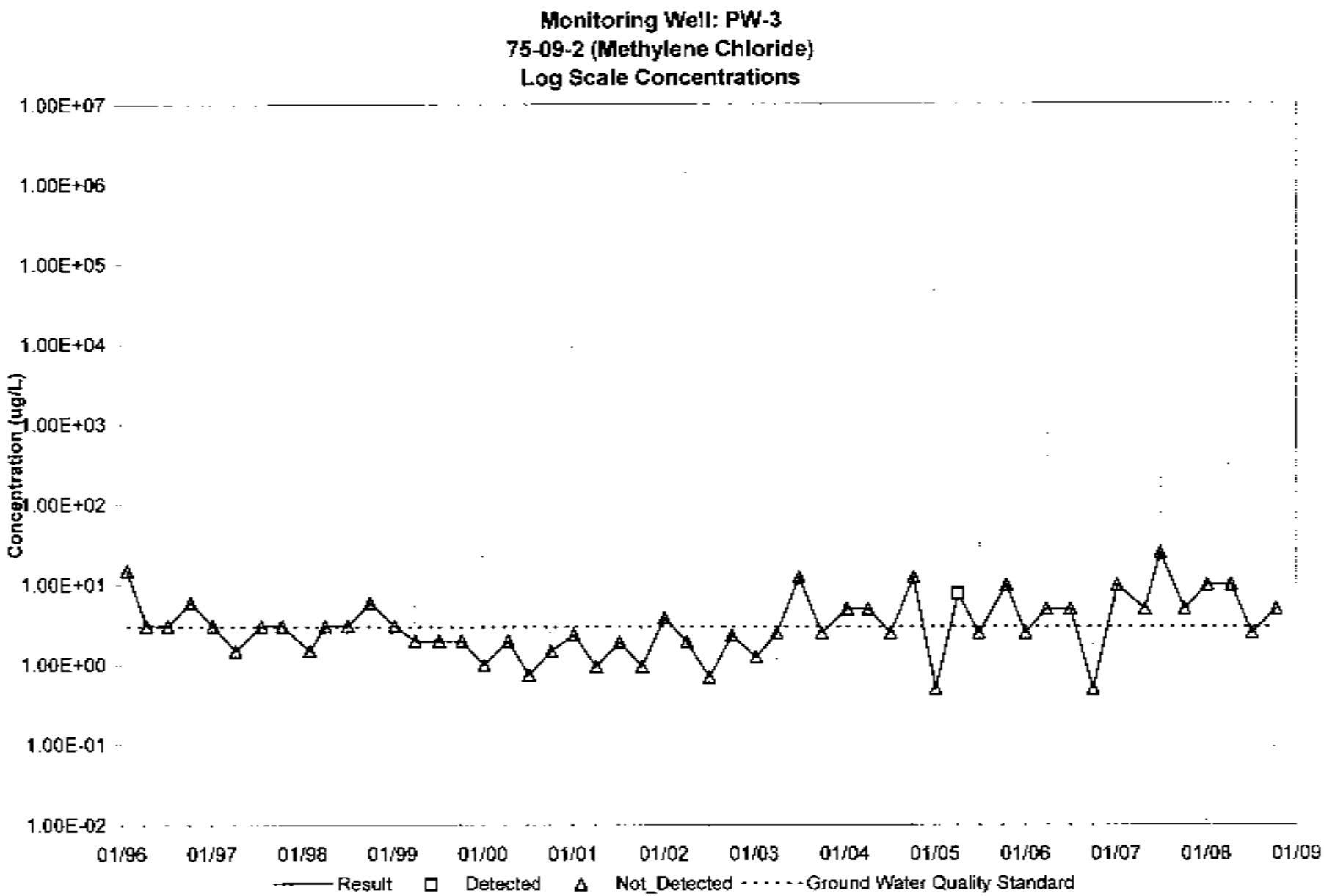

Monitoring Well: TT P3
75-01-4 (Vinyl Chloride)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

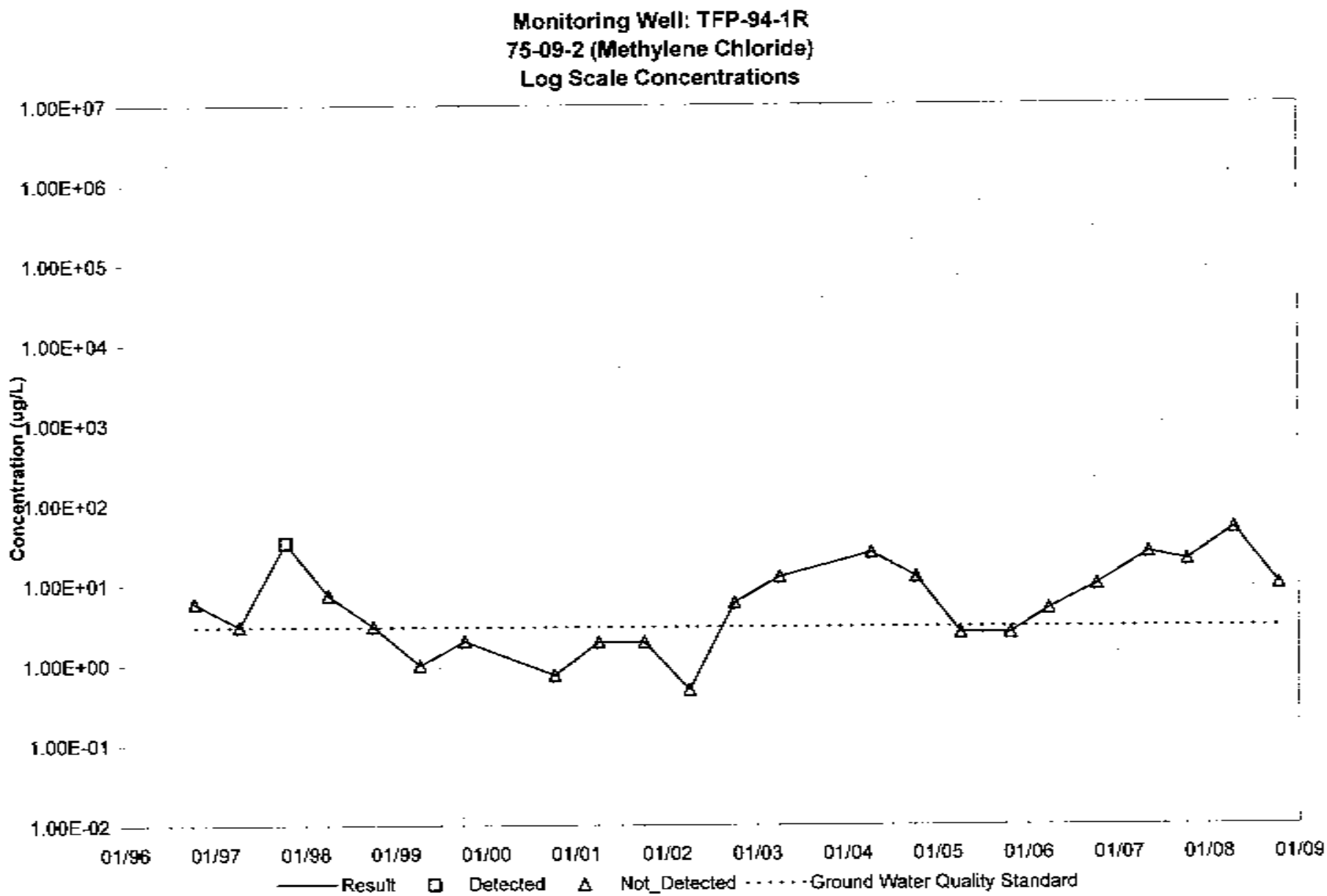

Monitoring Well: 19R
75-09-2 (Methylene Chloride)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

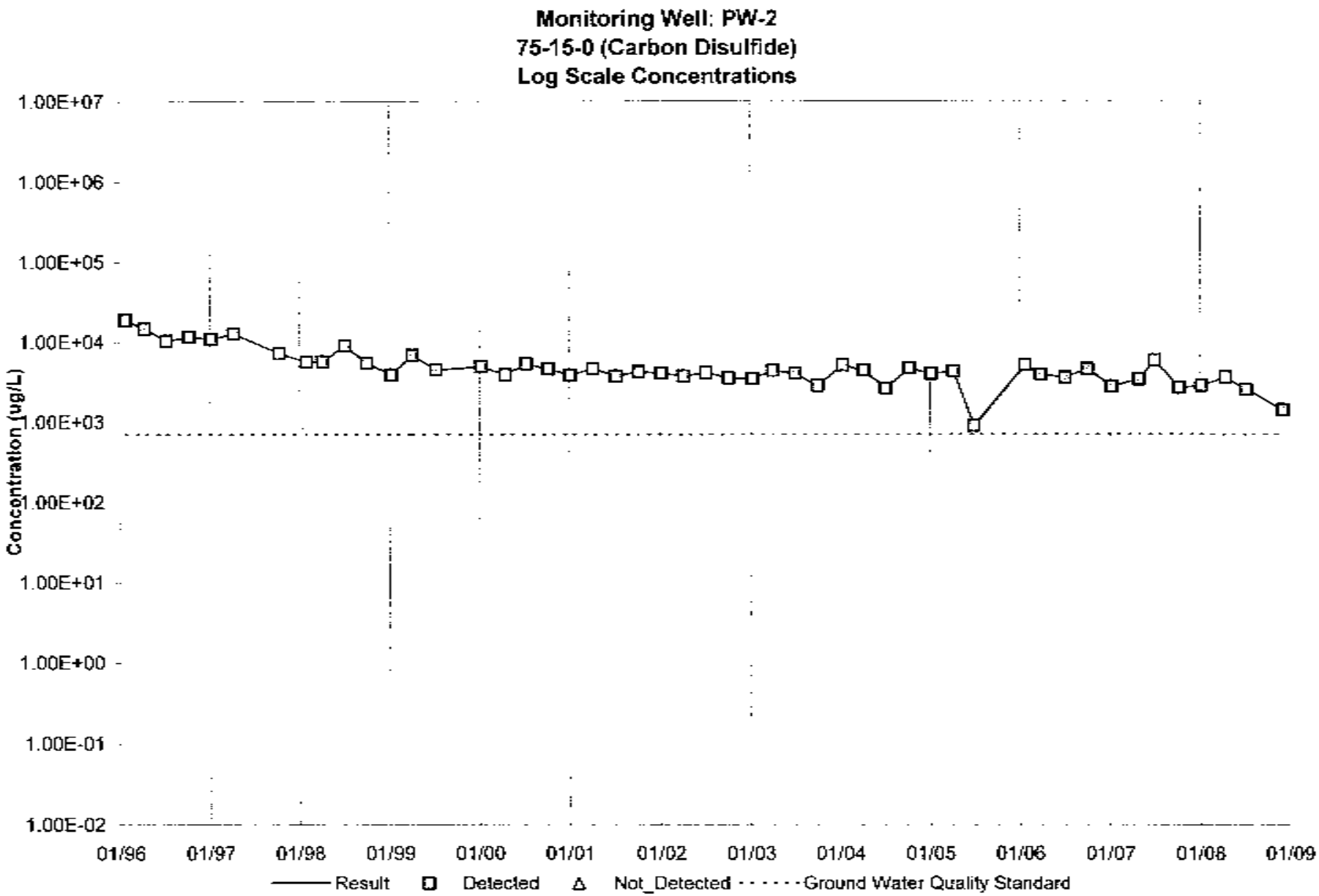

Monitoring Well: 42R
75-09-2 (Methylene Chloride)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

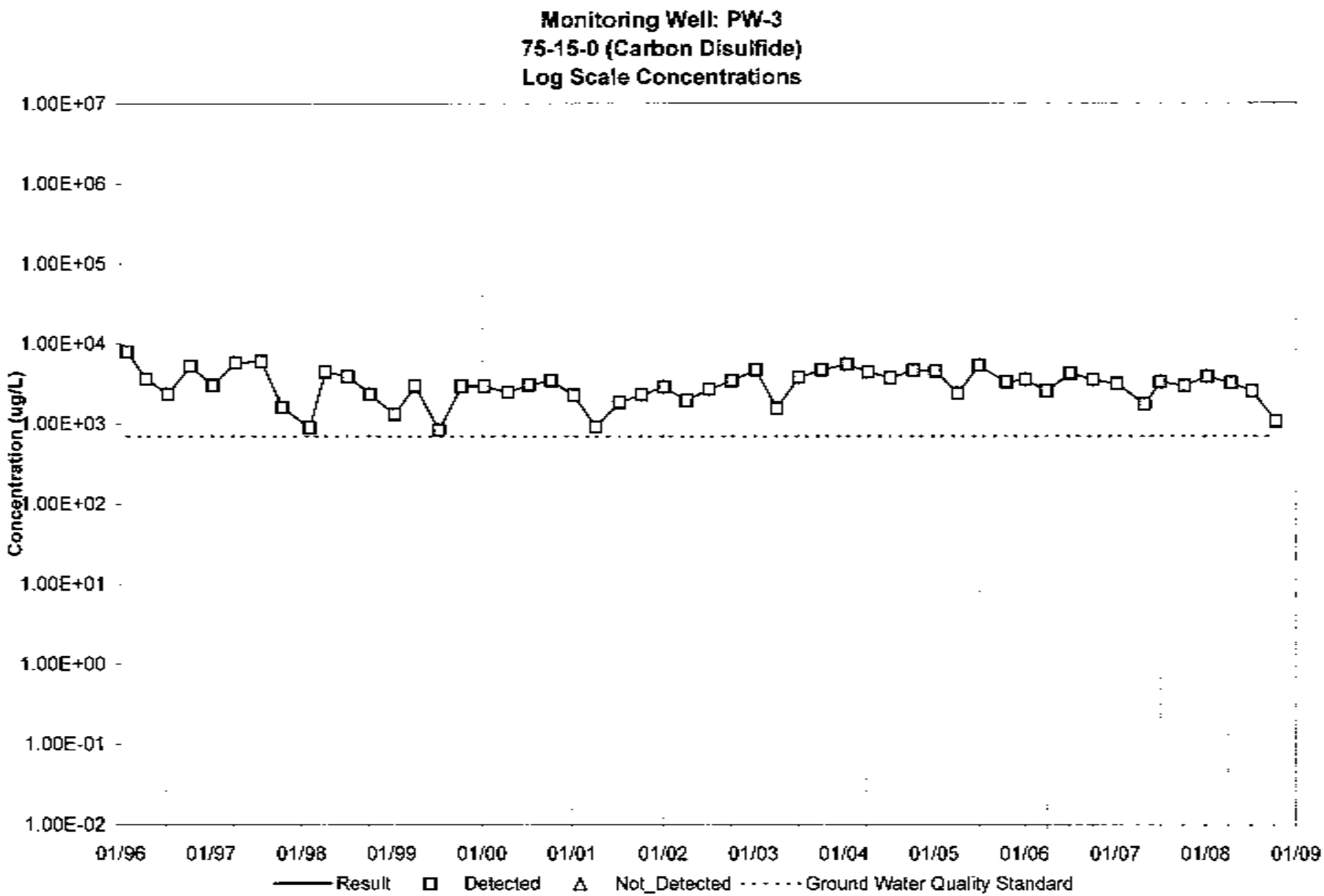

Monitoring Well: AAA
75-09-2 (Methylene Chloride)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

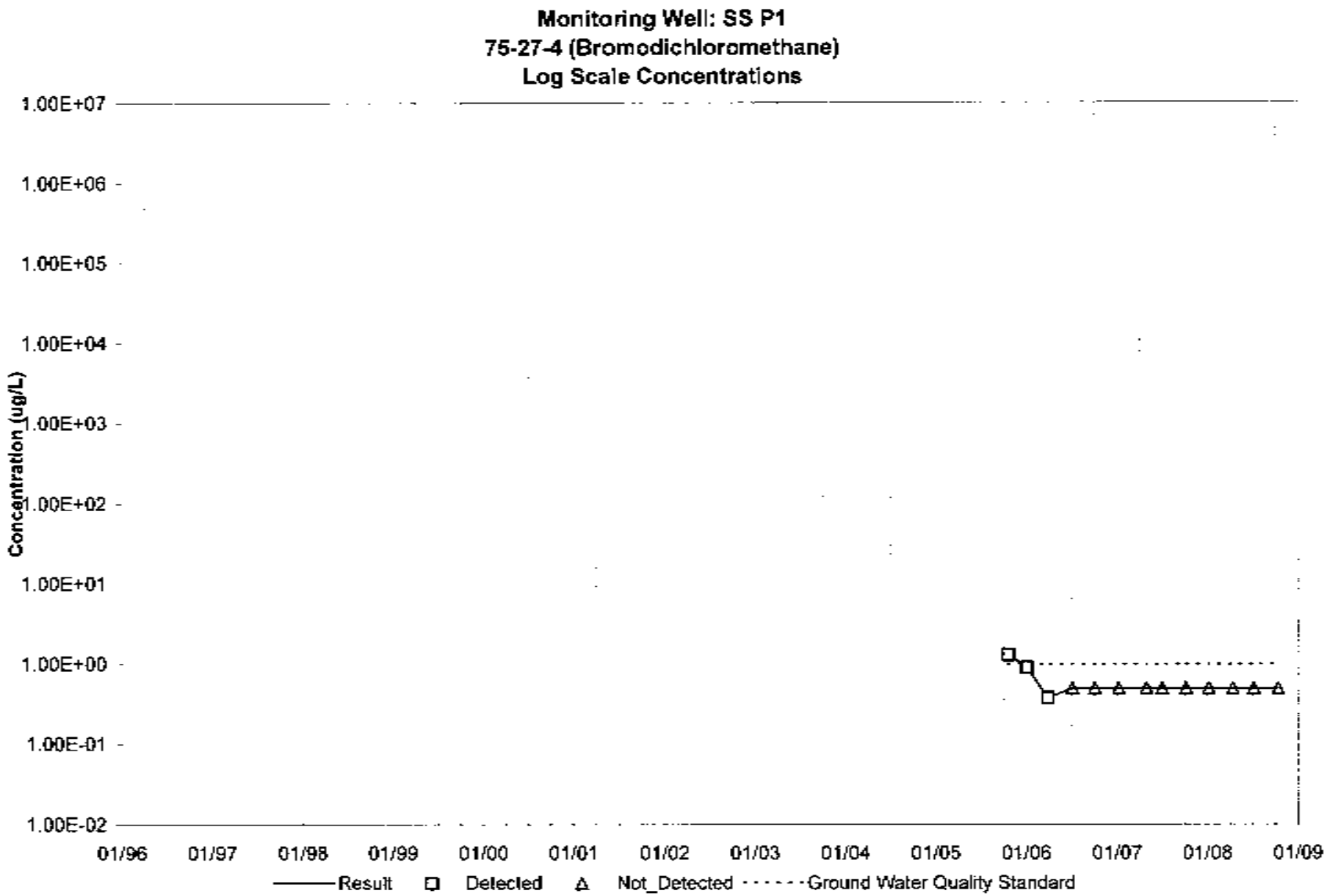

Monitoring Well: PW-2
75-09-2 (Methylene Chloride)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard


Monitoring Well: PW-3
75-09-2 (Methylene Chloride)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

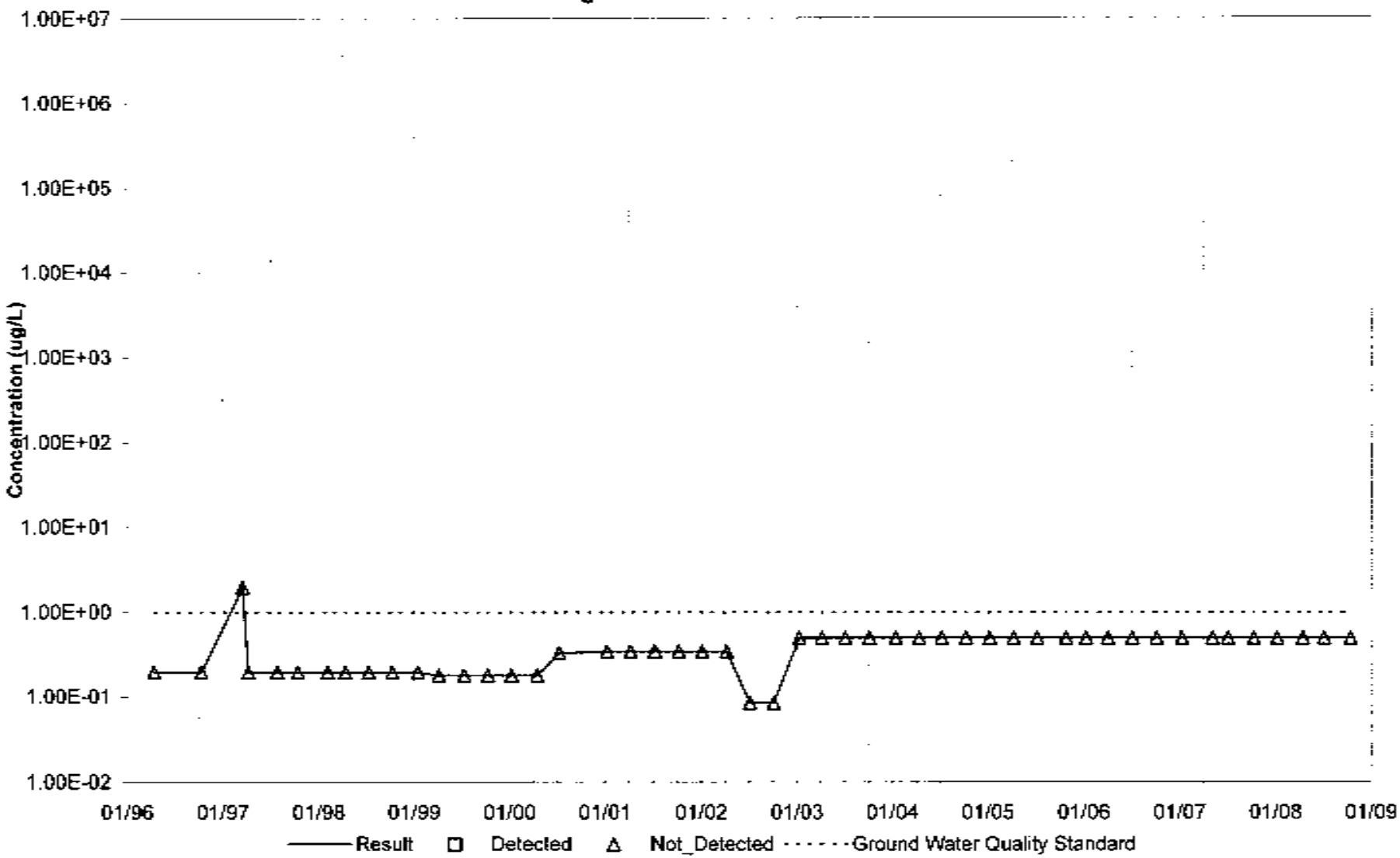

Monitoring Well: TFP-94-1R
75-09-2 (Methylene Chloride)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

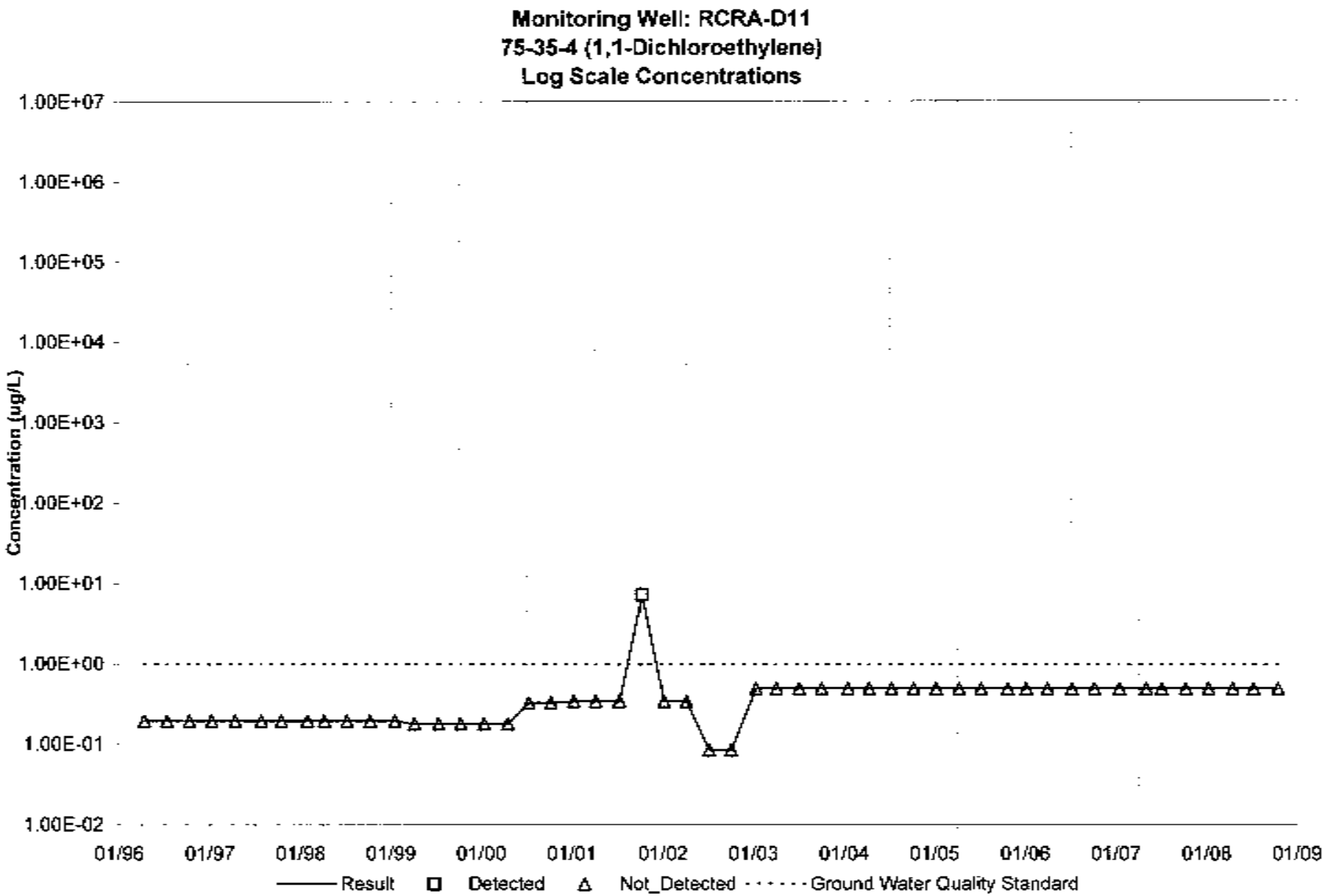

Monitoring Well: PW-2
75-15-0 (Carbon Disulfide)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

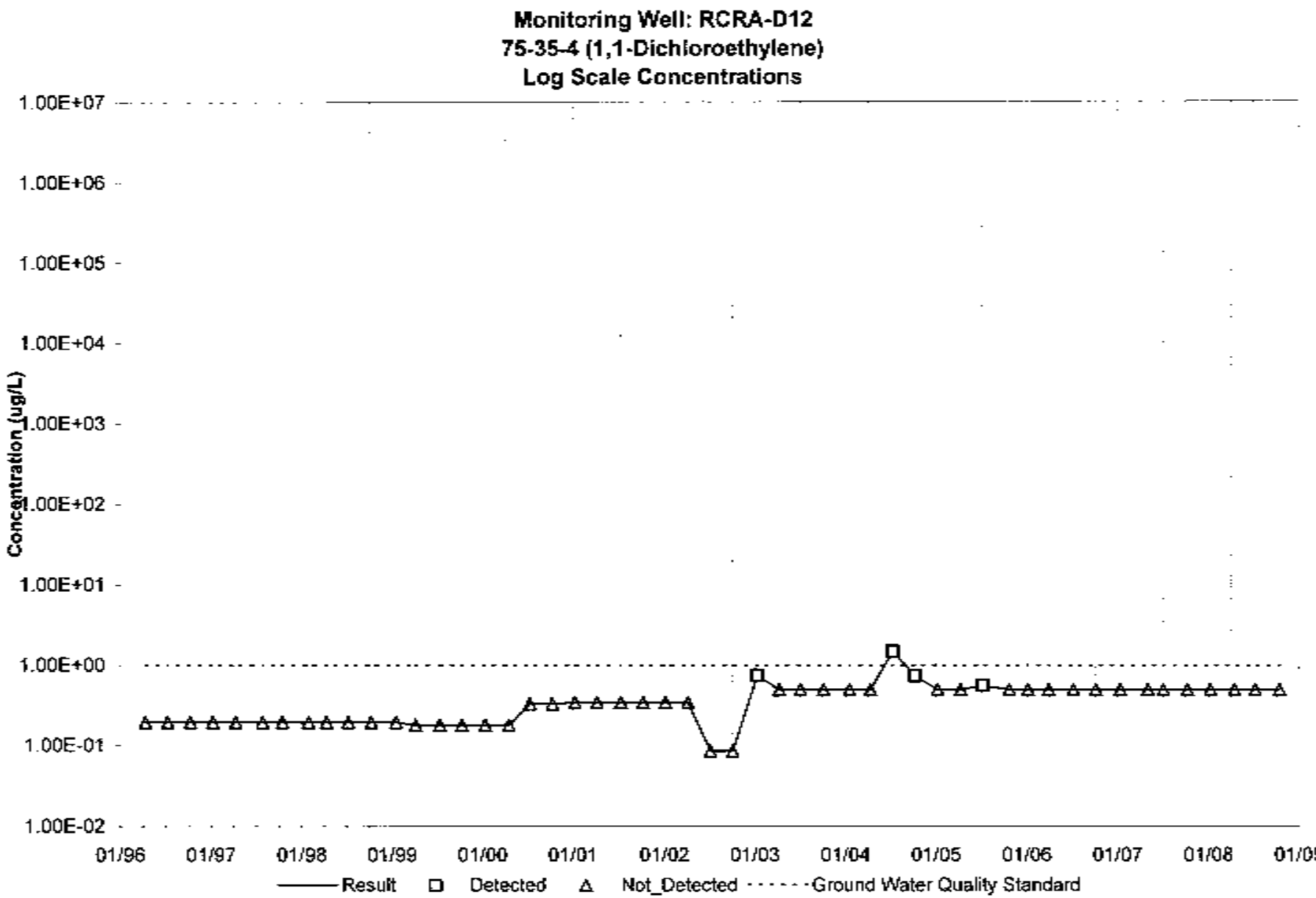

Monitoring Well: PW-3
75-15-0 (Carbon Disulfide)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

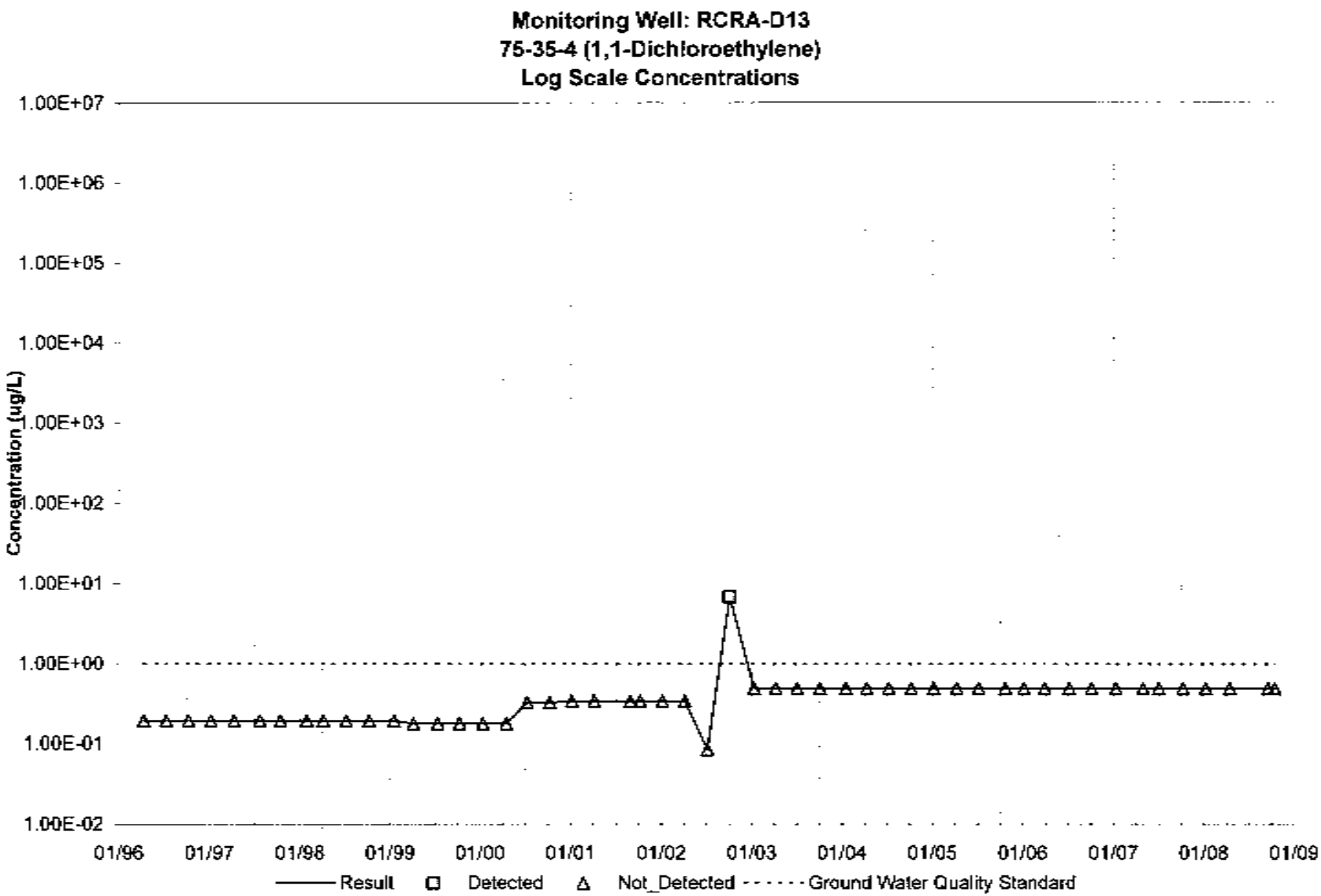

Monitoring Well: SS P1
75-27-4 (Bromodichloromethane)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

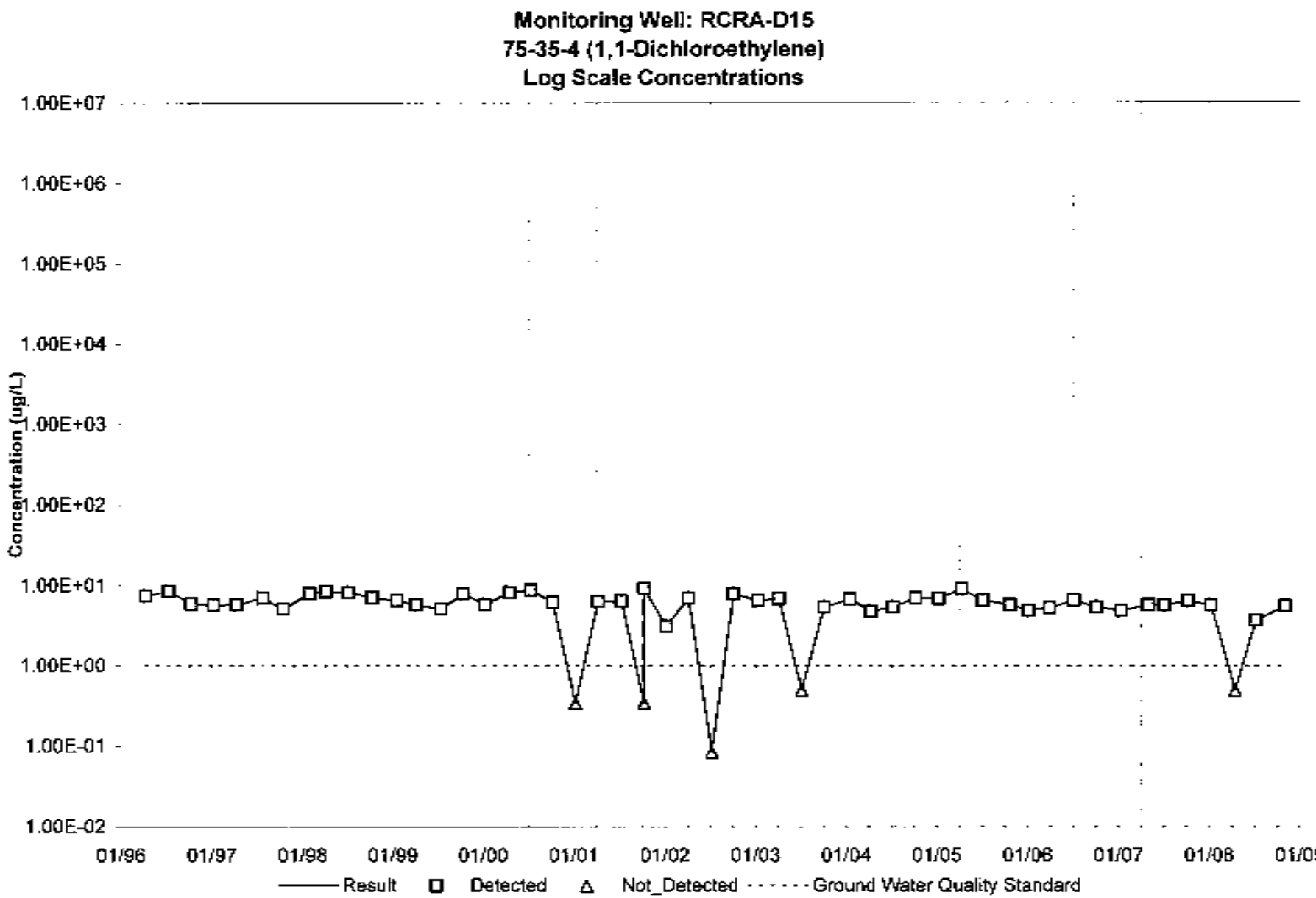
Monitoring Well: AAA
75-35-4 (1,1-Dichloroethylene)
Log Scale Concentrations

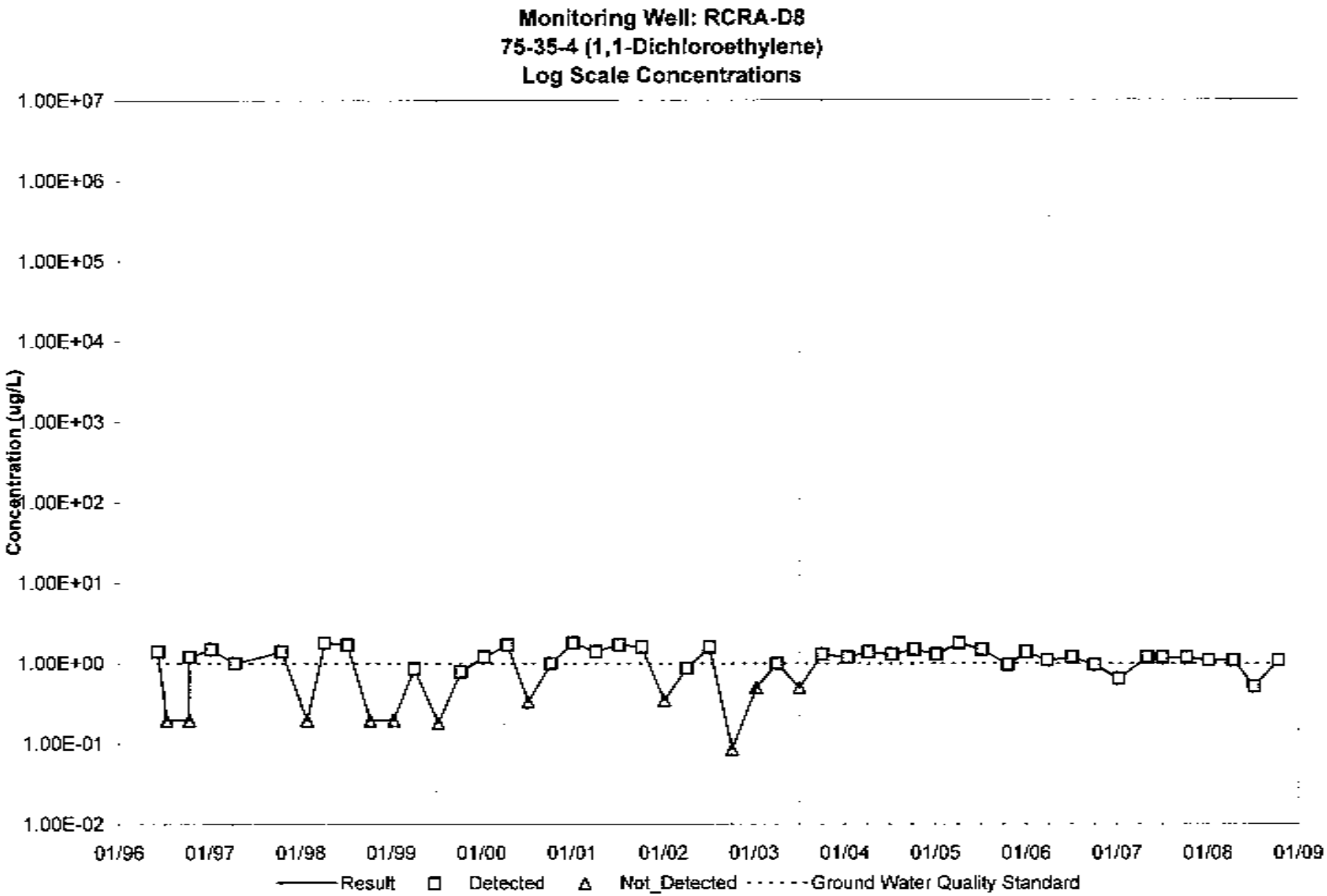


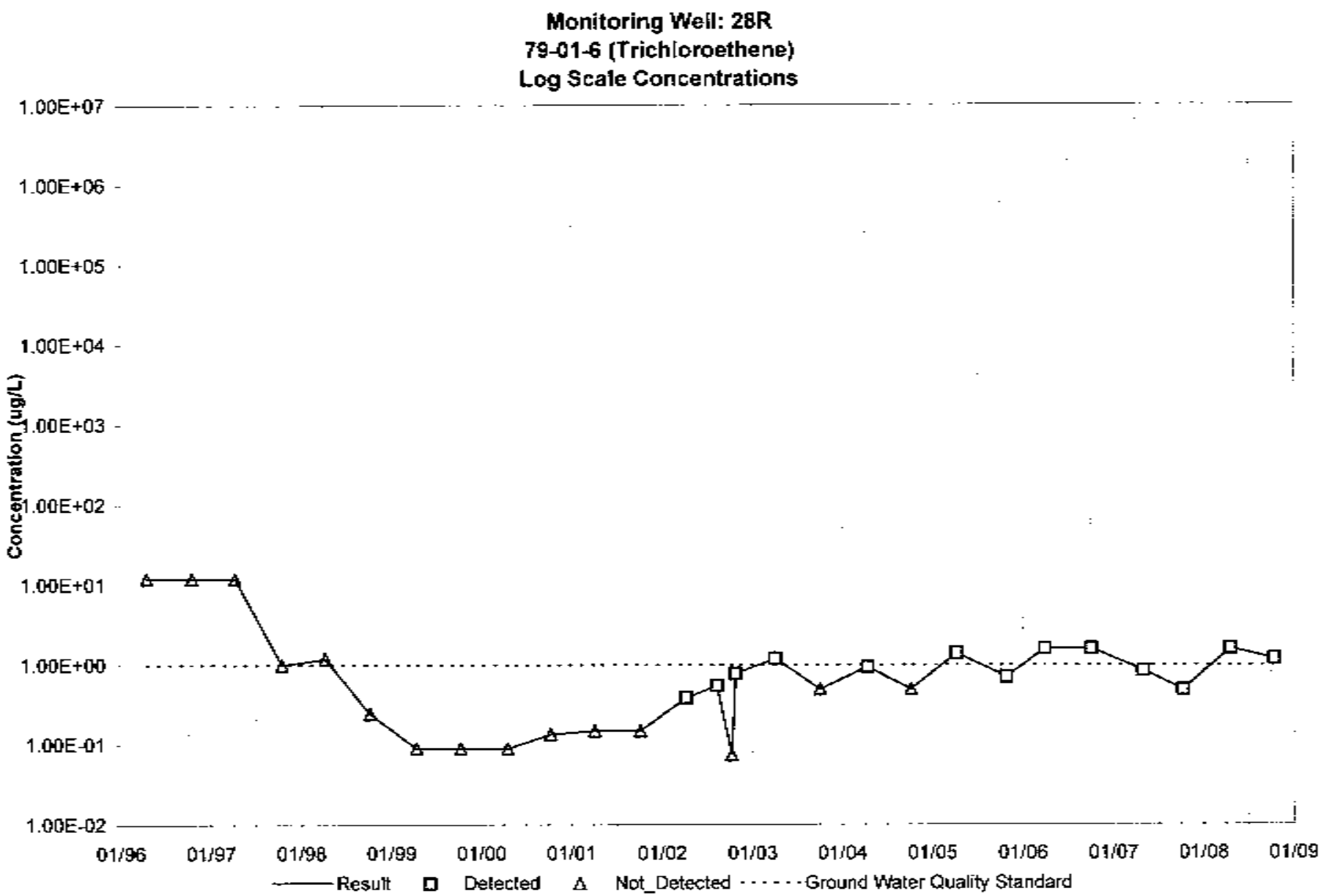

Monitoring Well: RCRA-D11
75-35-4 (1,1-Dichloroethylene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

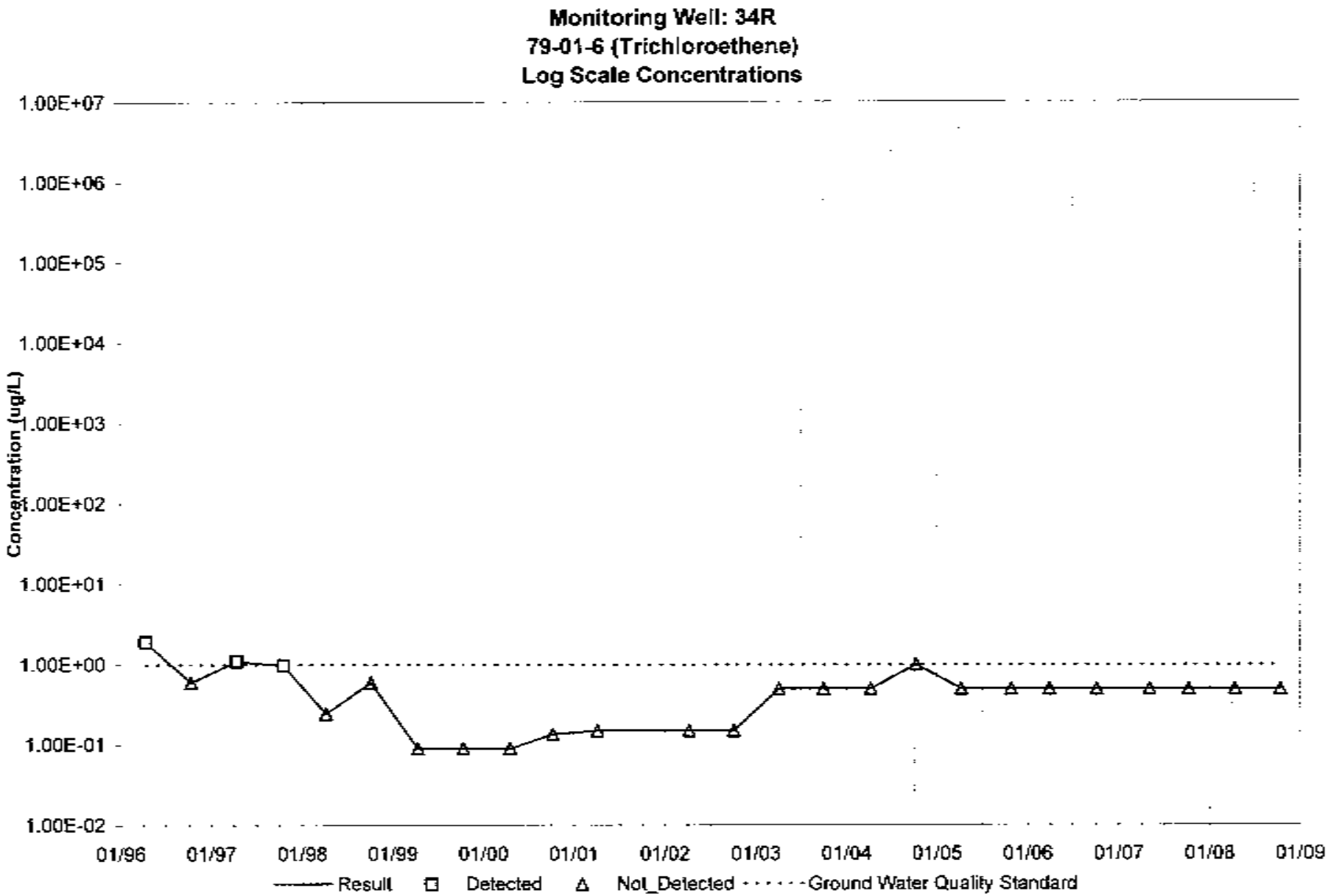

Monitoring Well: RCRA-D12
75-35-4 (1,1-Dichloroethylene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

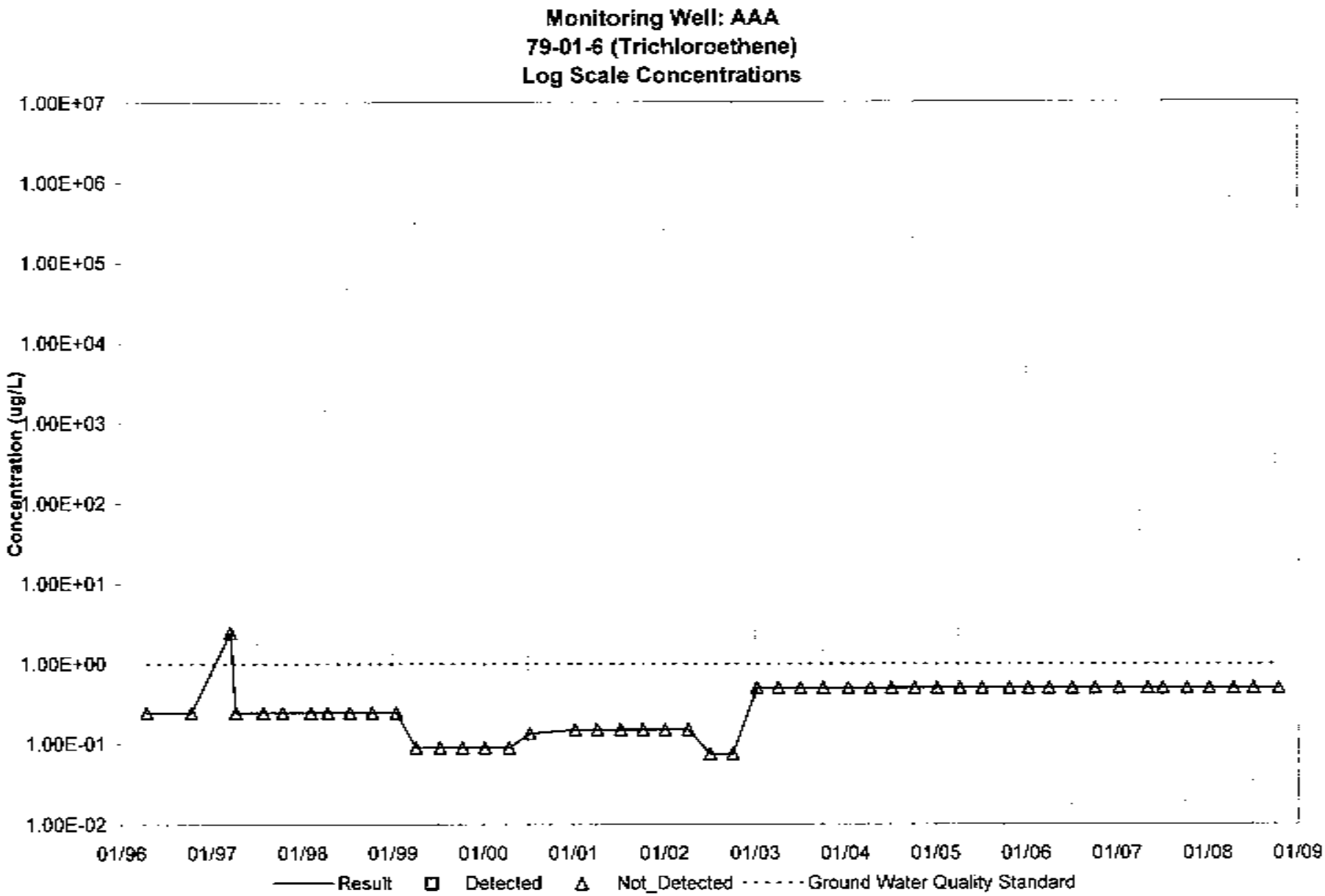

Monitoring Well: RCRA-D13
75-35-4 (1,1-Dichloroethylene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

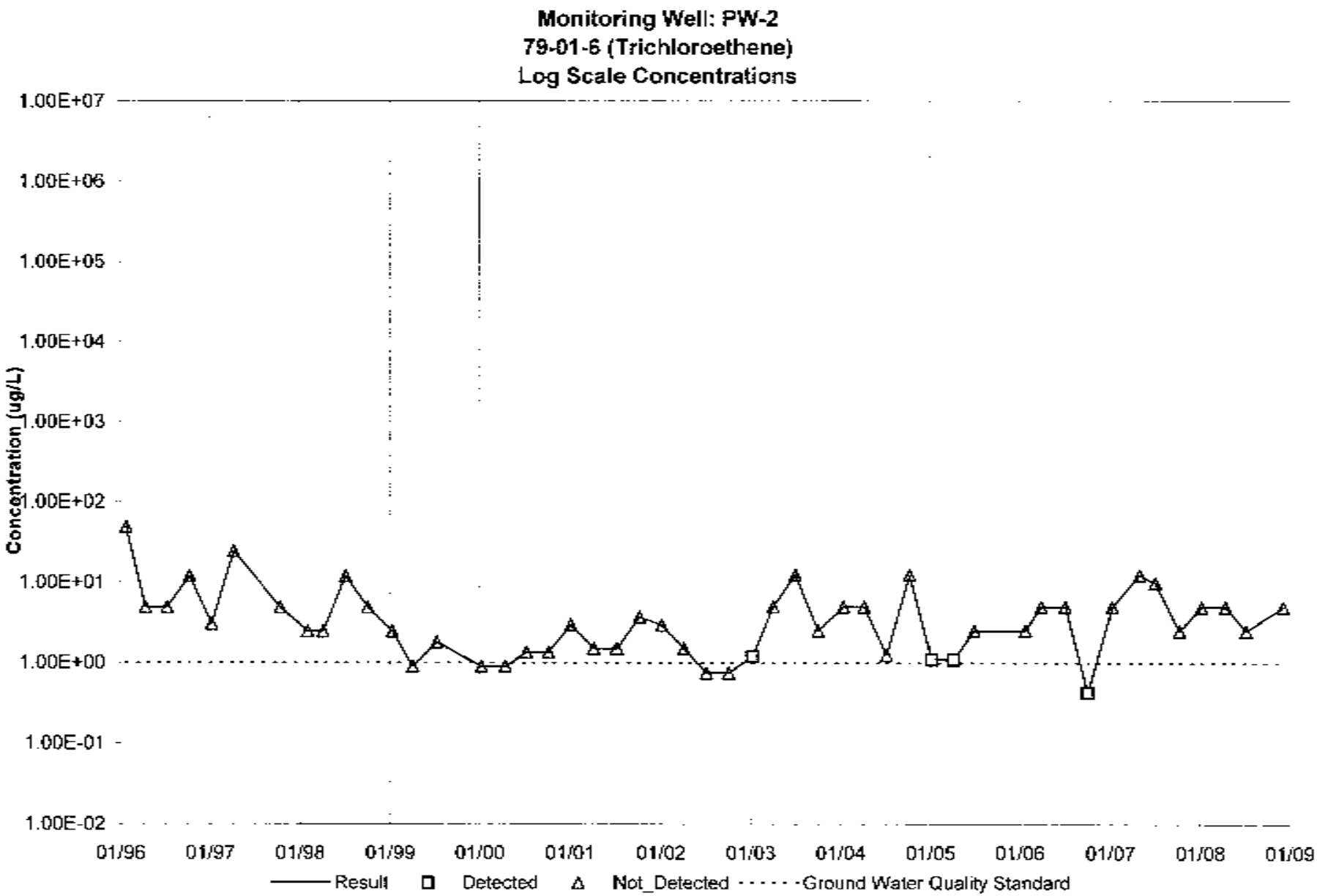

Monitoring Well: RCRA-D15
75-35-4 (1,1-Dichloroethylene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

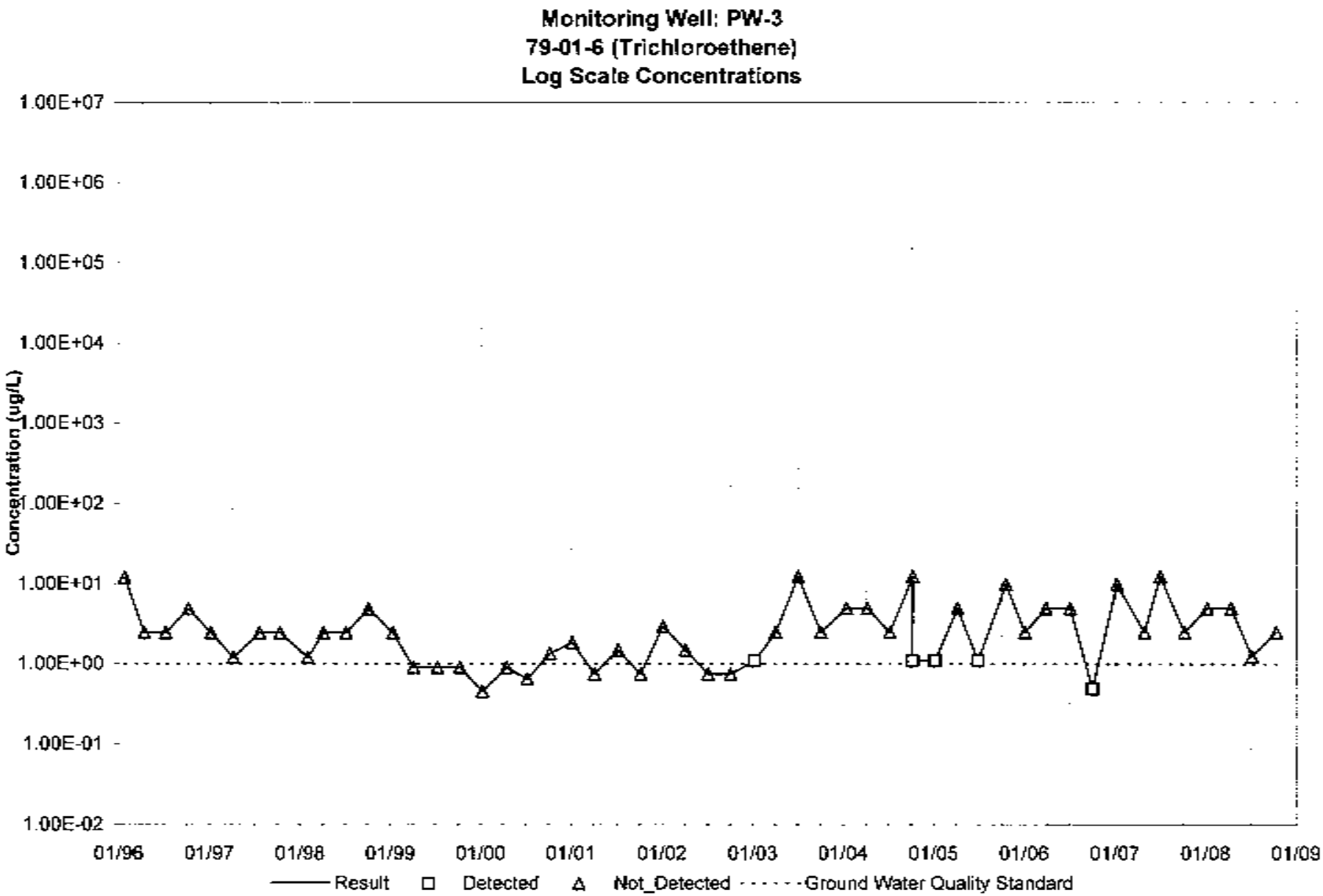

Monitoring Well: RCRA-D8
75-35-4 (1,1-Dichloroethylene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

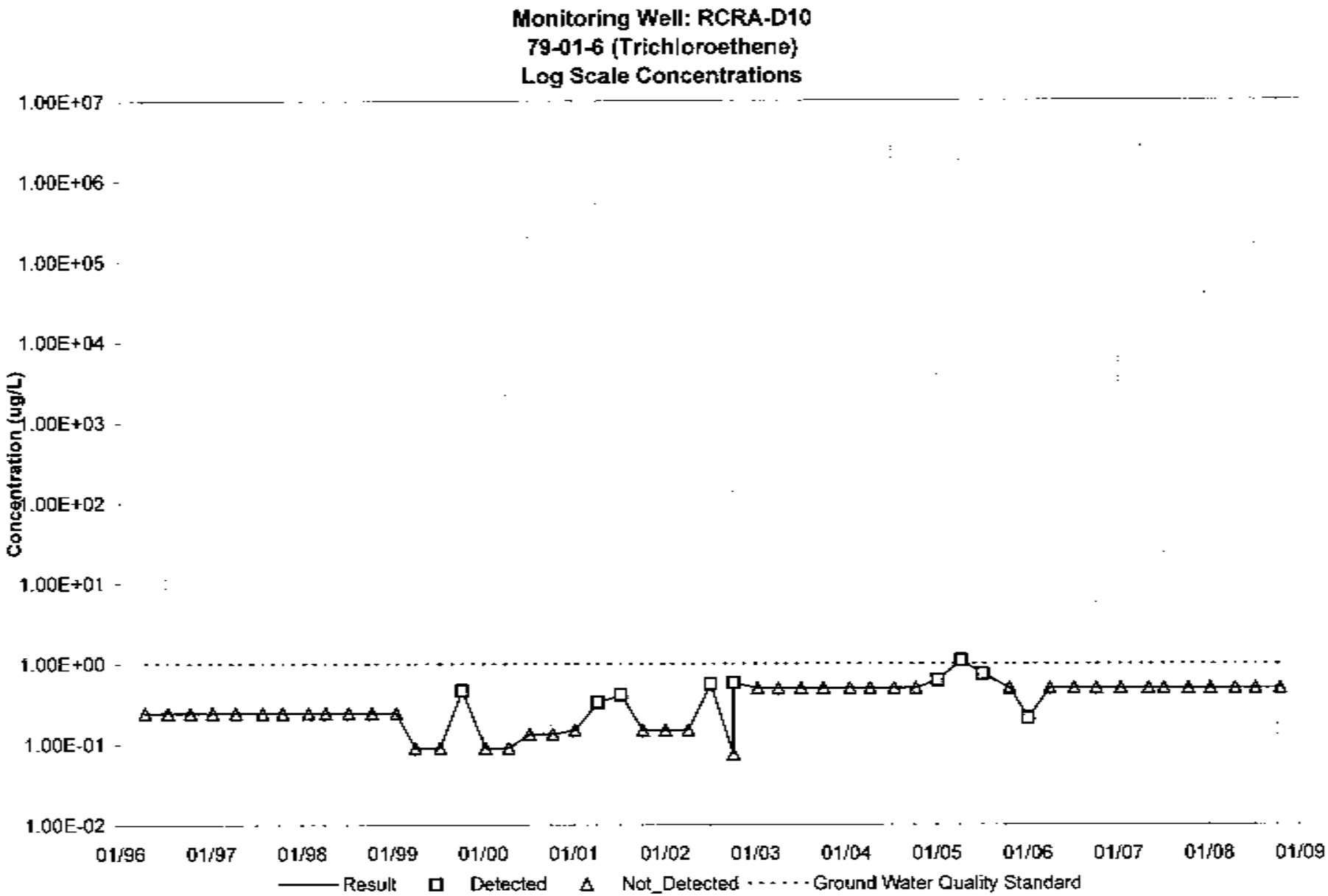

Monitoring Well: 28R
79-01-6 (Trichloroethene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

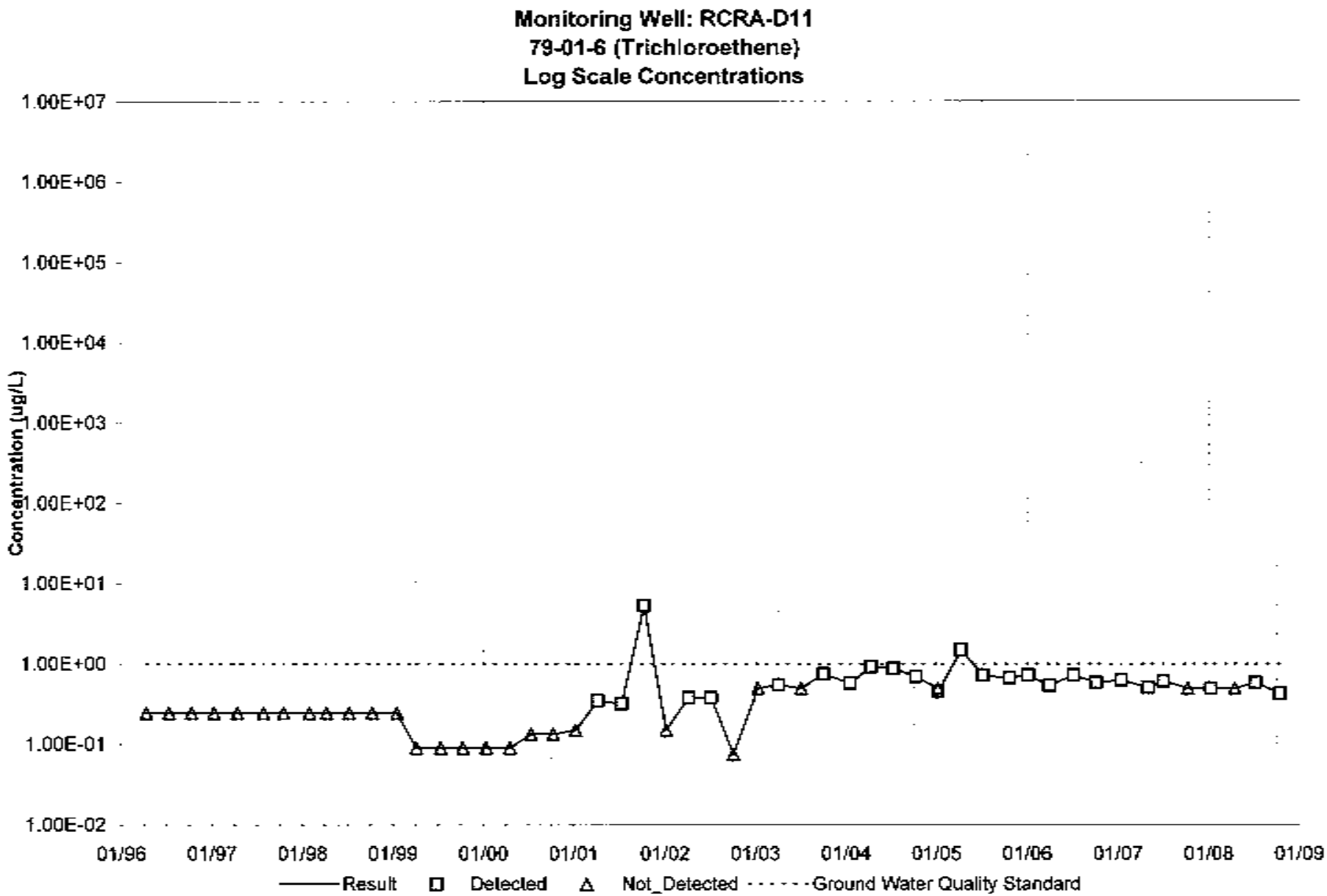

Monitoring Well: 34R
79-01-6 (Trichloroethene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

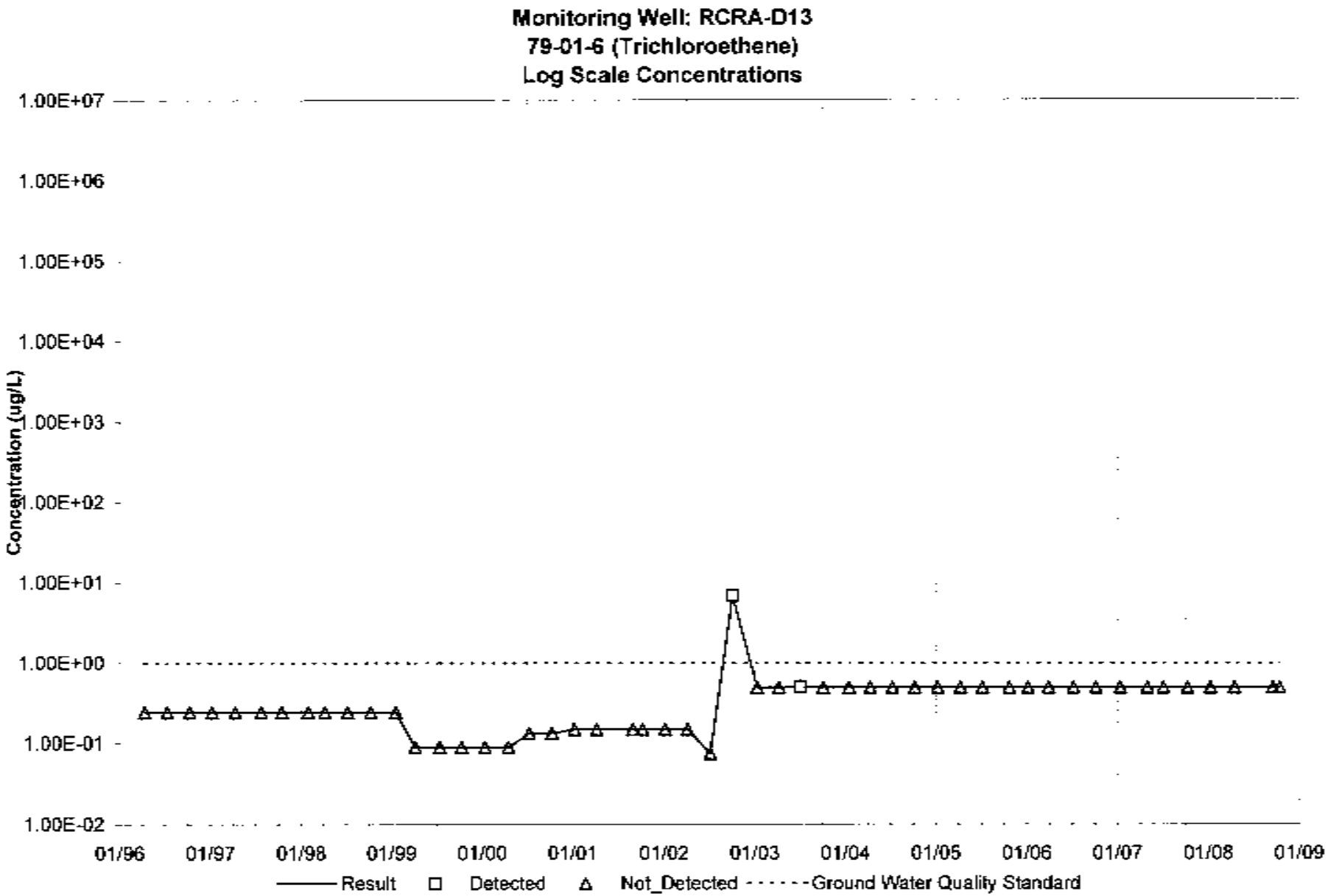

Monitoring Well: AAA
79-01-6 (Trichloroethene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

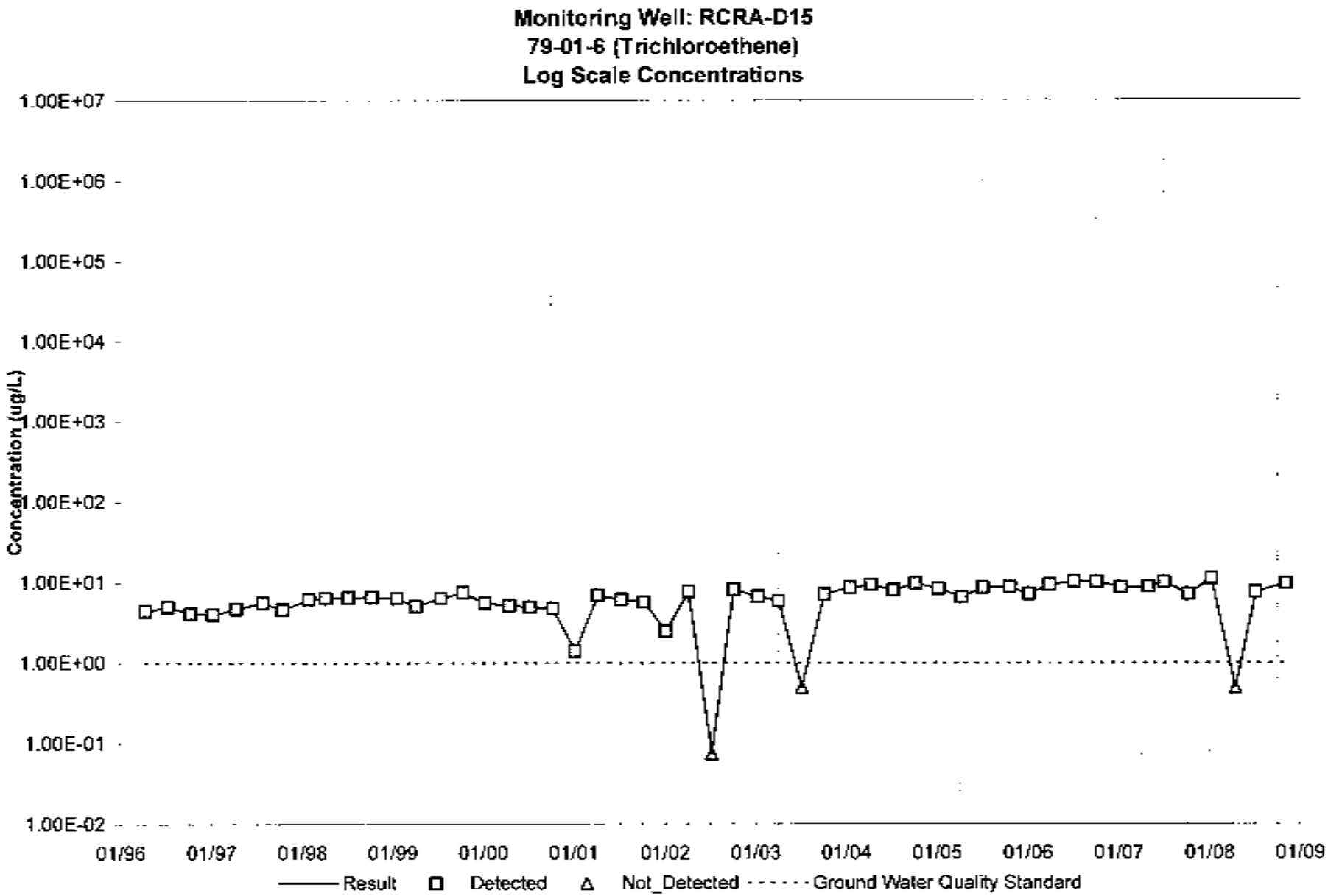

Monitoring Well: PW-2
79-01-6 (Trichloroethene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

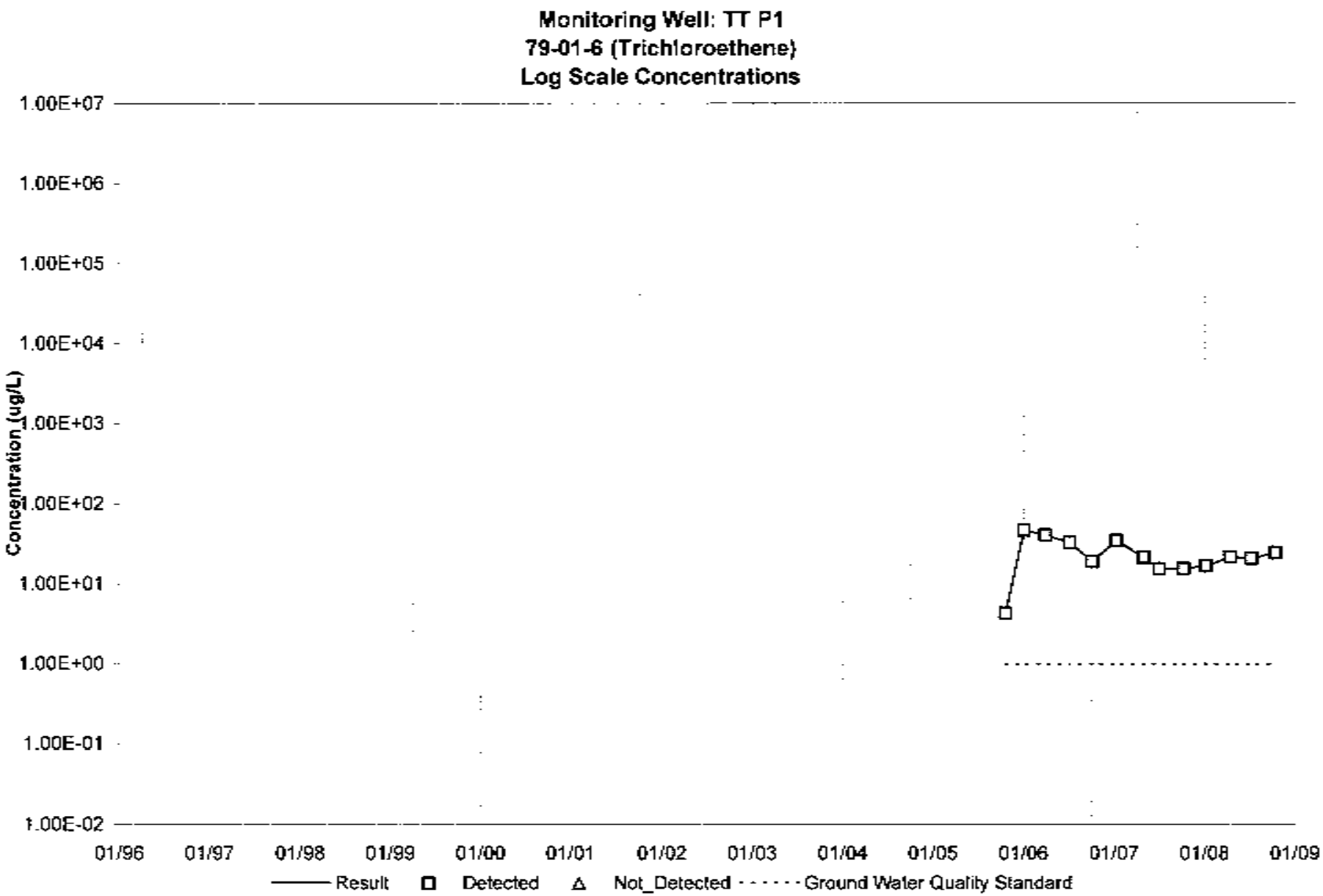

Monitoring Well: PW-3
79-01-6 (Trichloroethene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

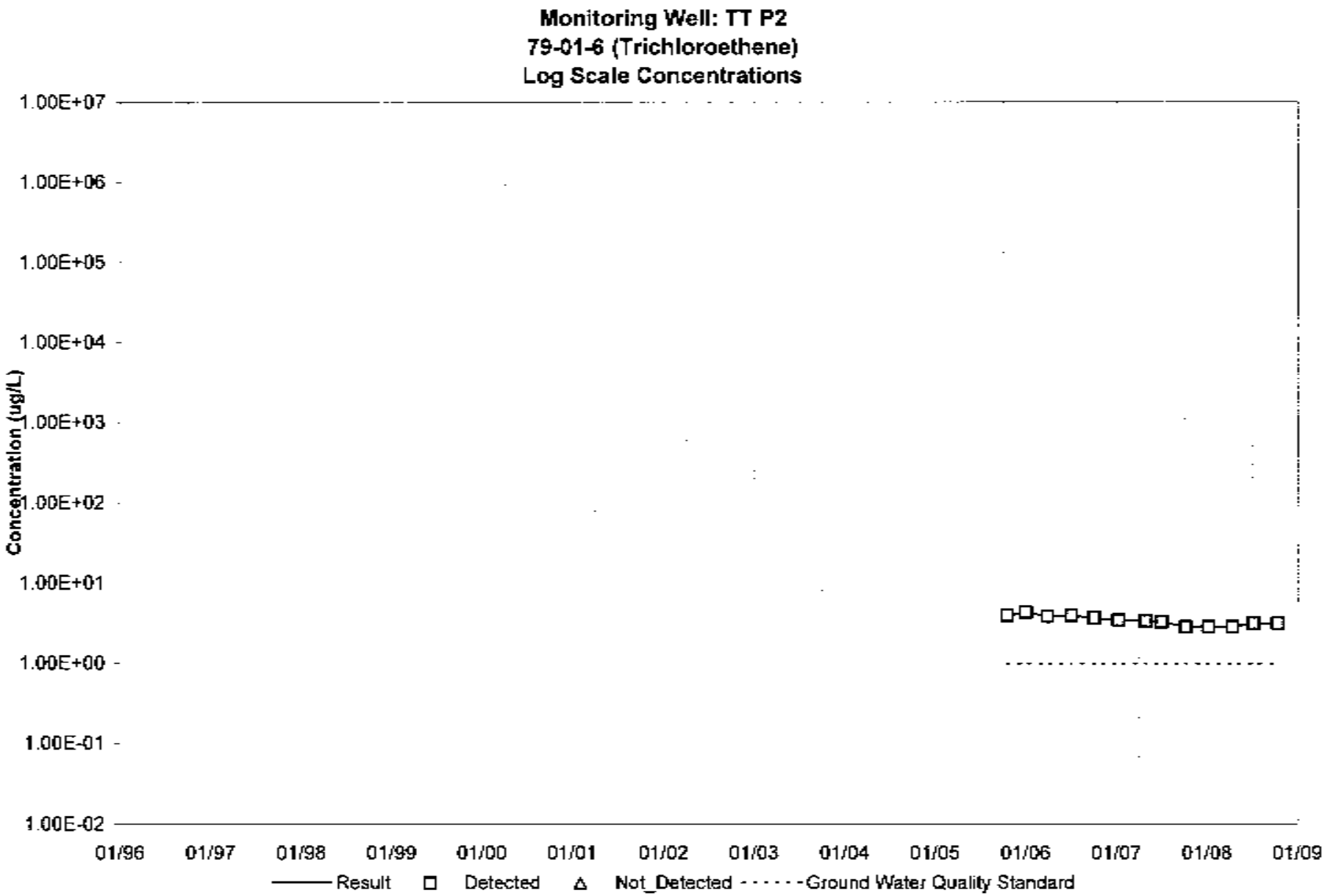

Monitoring Well: RCRA-D10
79-01-6 (Trichloroethene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

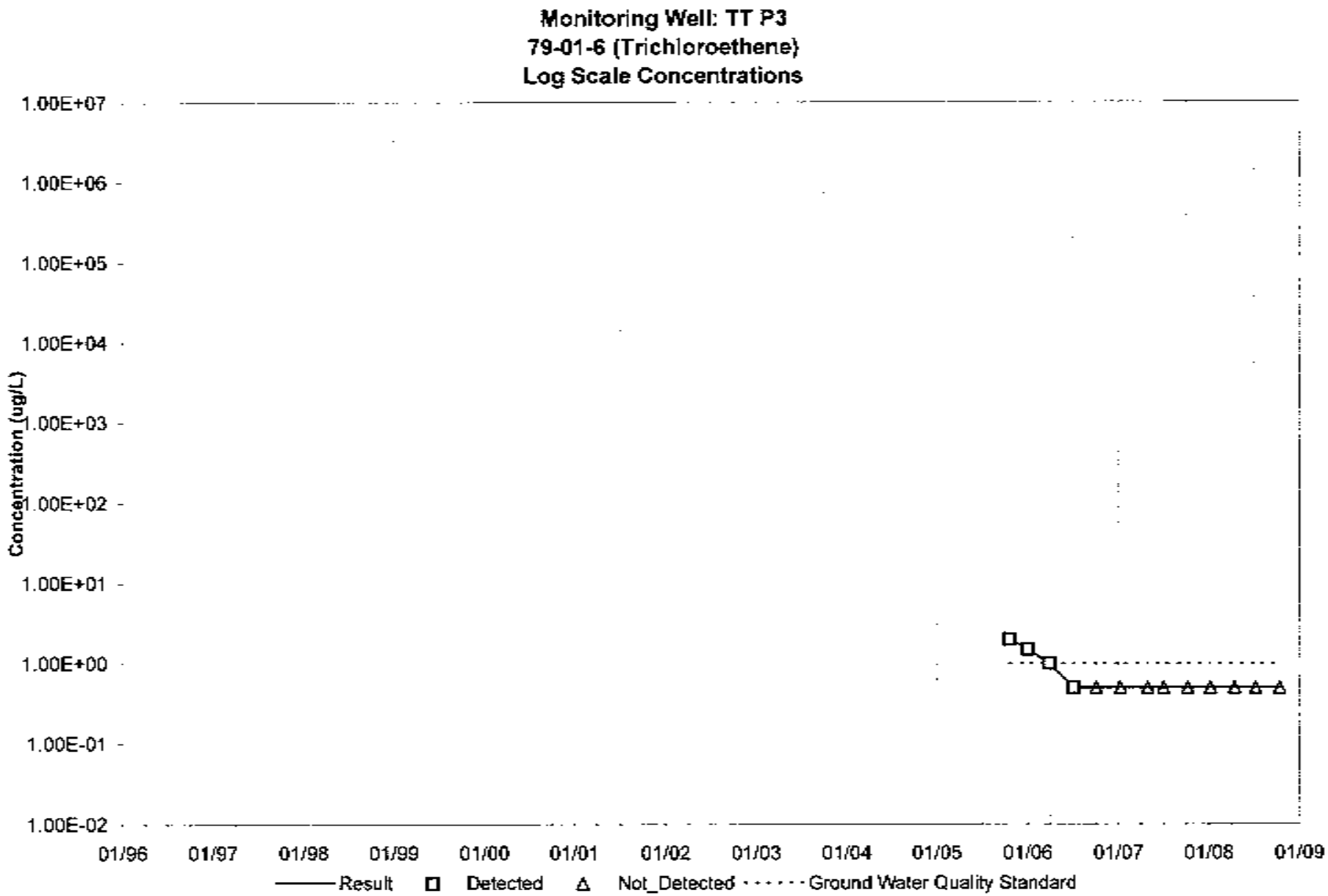

Monitoring Well: RCRA-D11
79-01-6 (Trichloroethene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

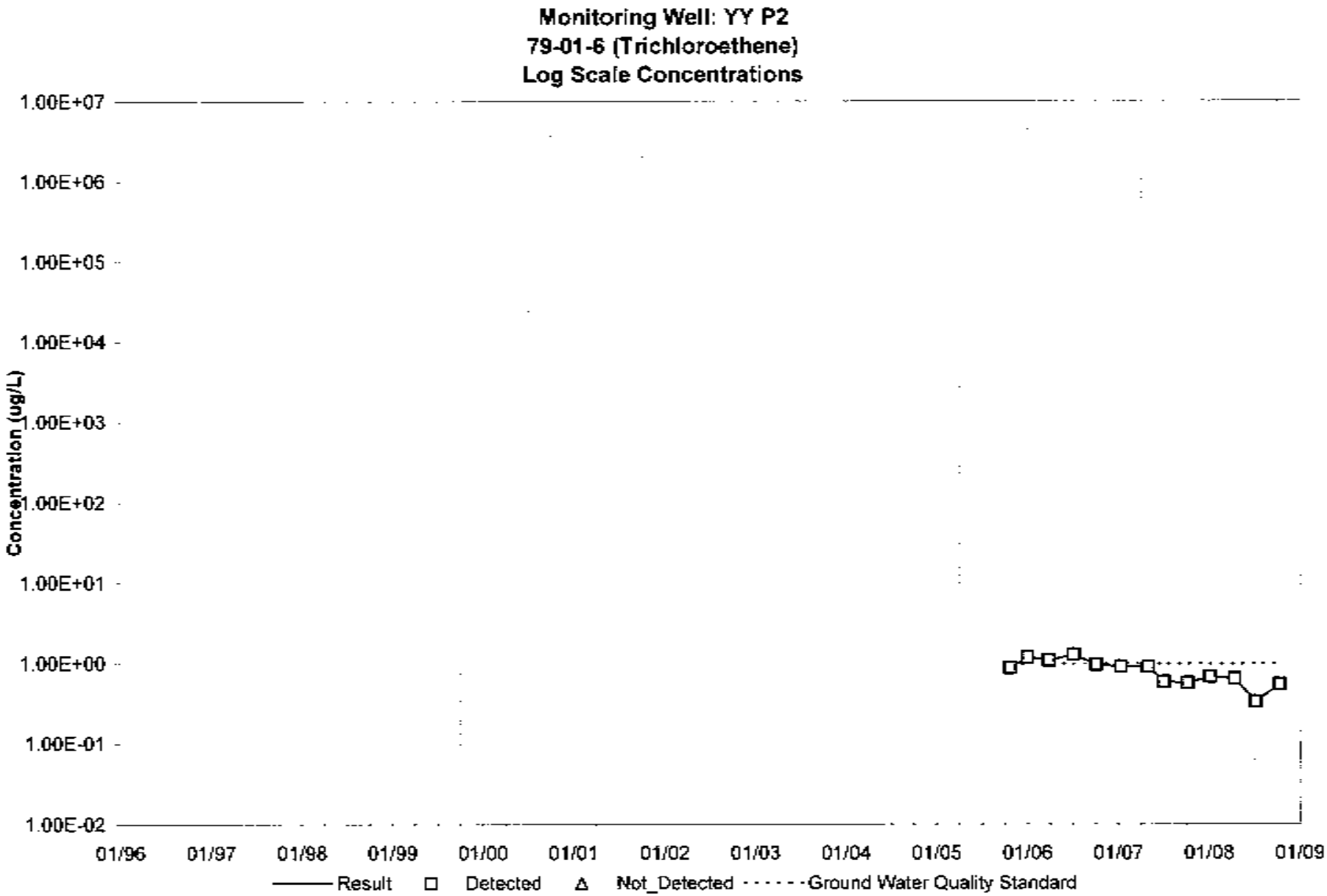

Monitoring Well: RCRA-D13
79-01-6 (Trichloroethene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

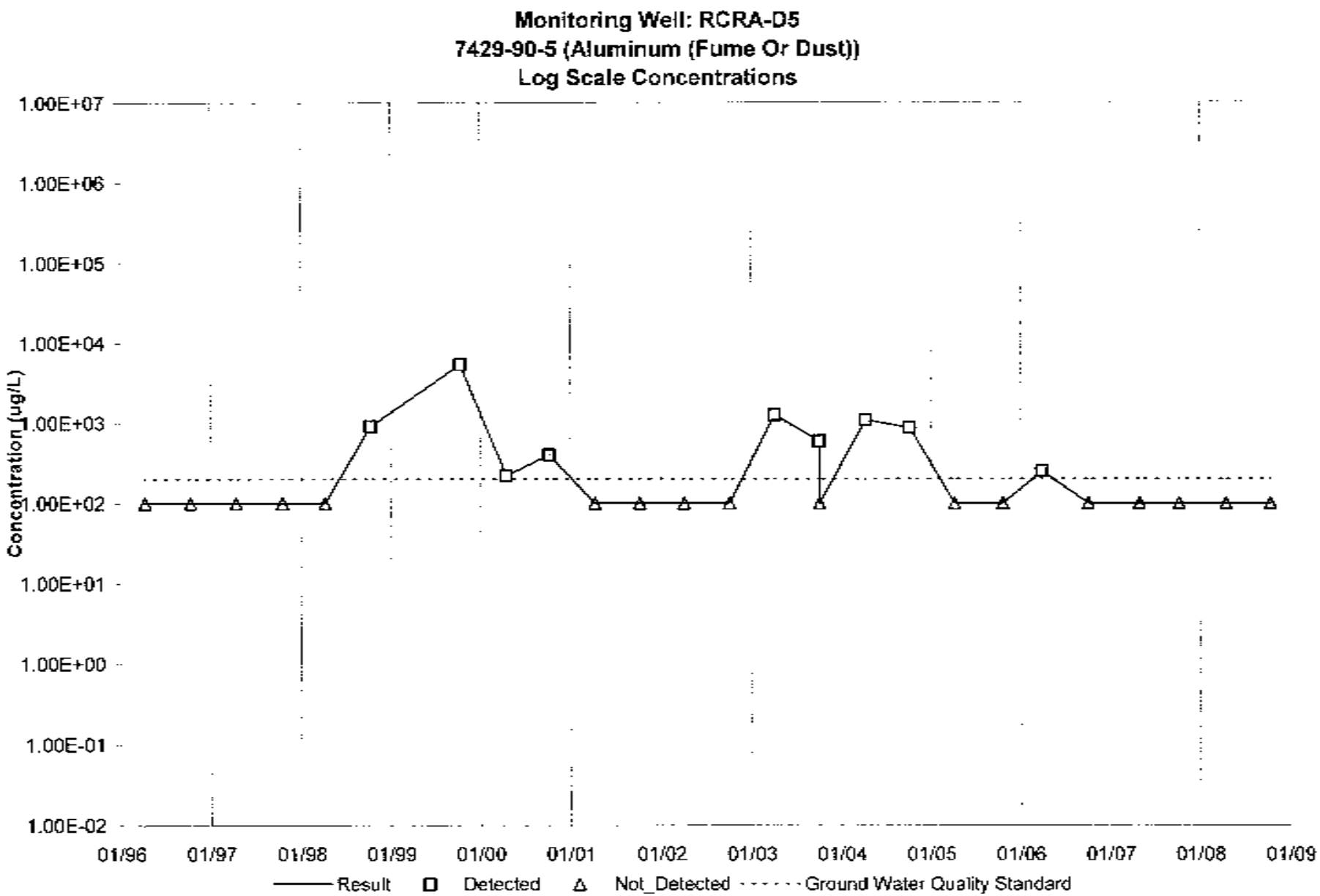

Monitoring Well: RCRA-D15
79-01-6 (Trichloroethene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

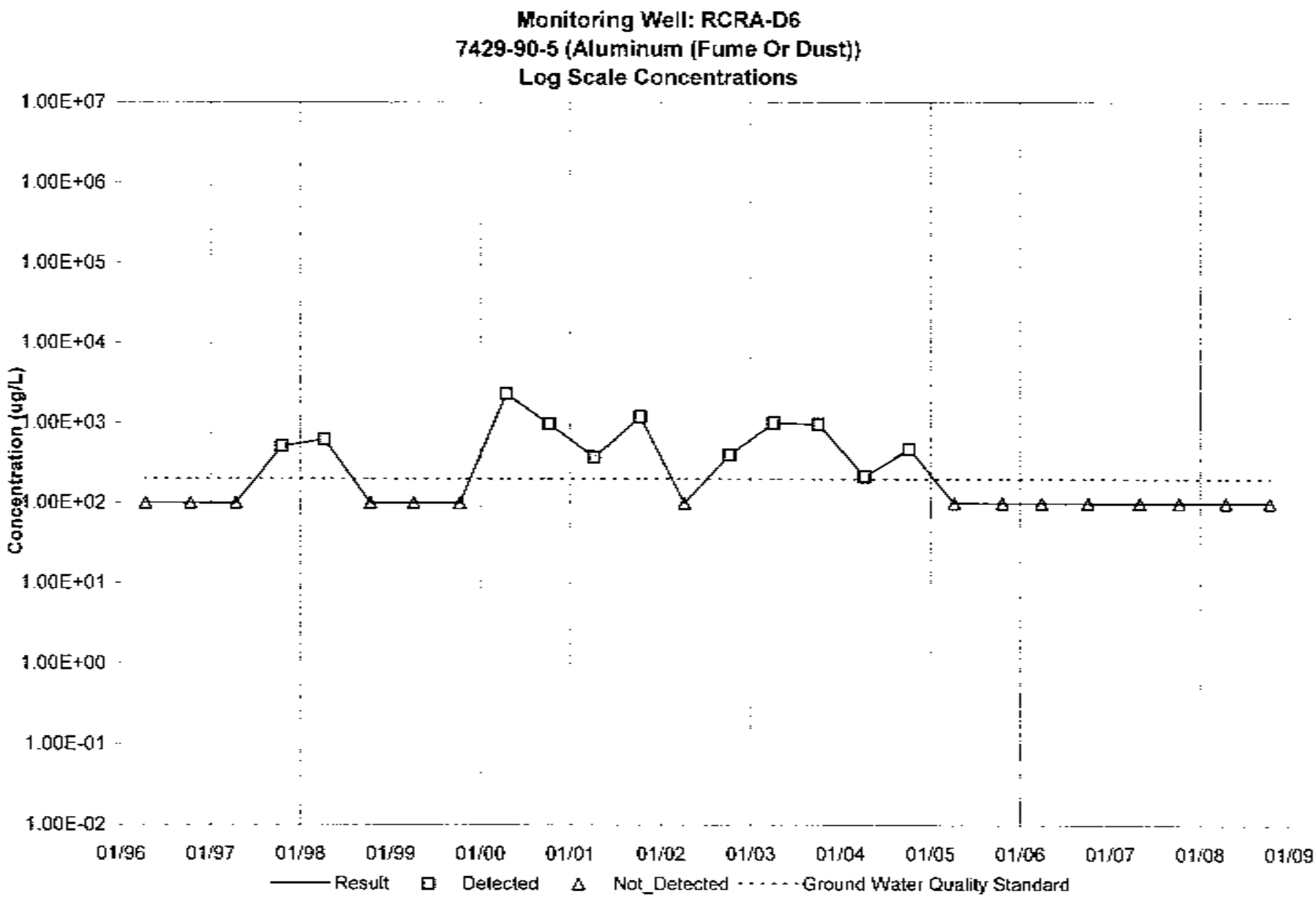

Monitoring Well: TT P1
79-01-6 (Trichloroethene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

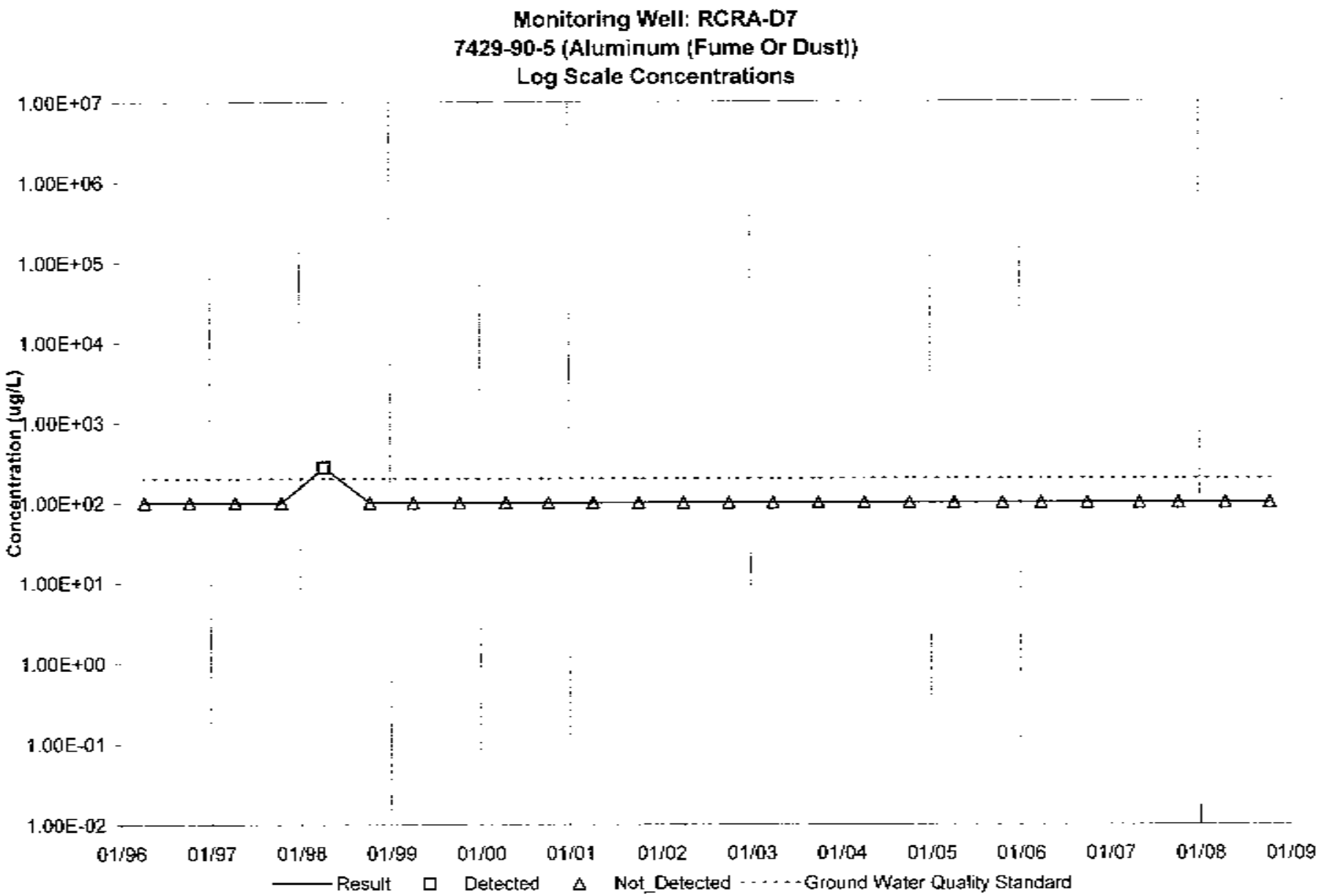

Monitoring Well: TT P2
79-01-6 (Trichloroethene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

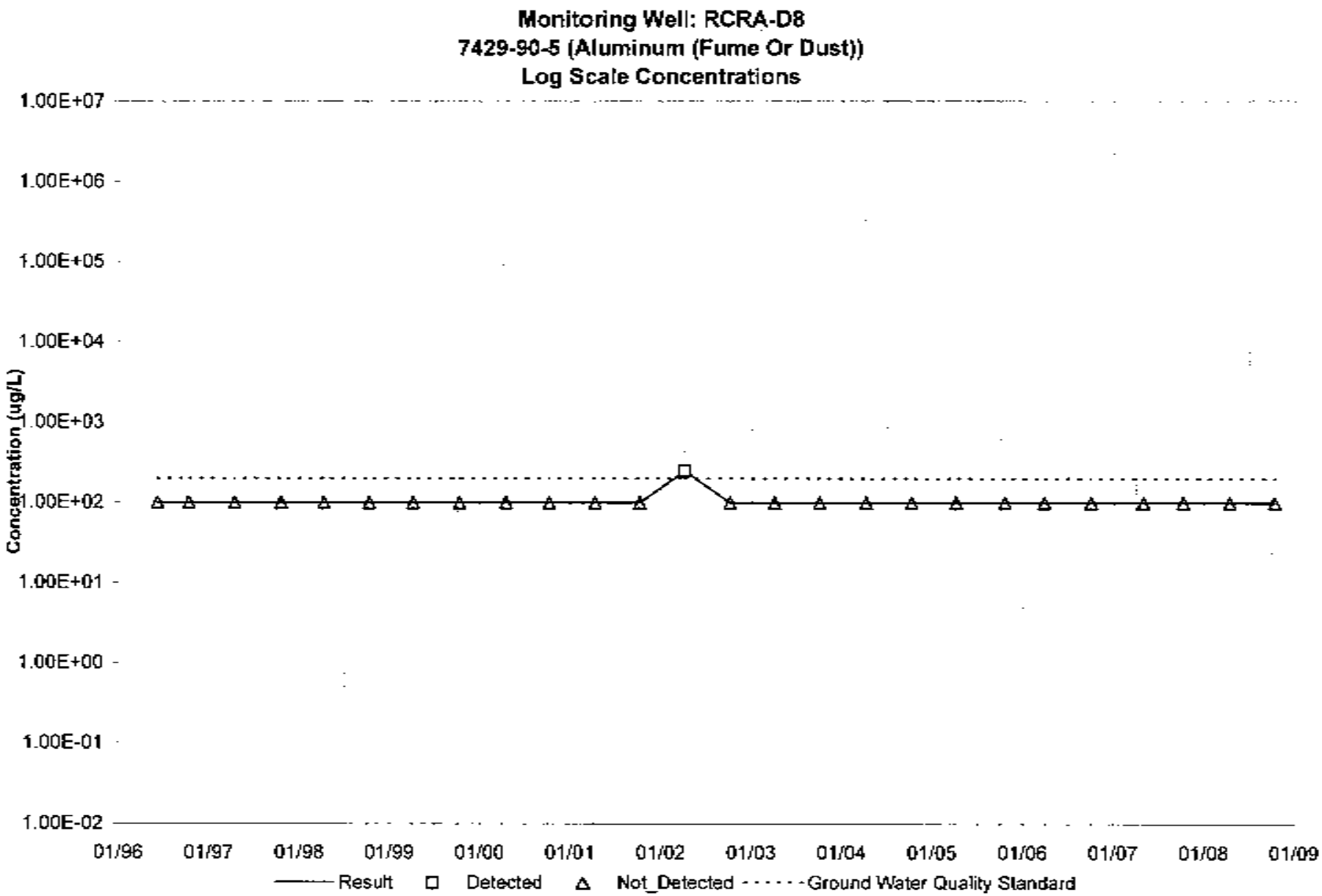

Monitoring Well: TT P3
79-01-6 (Trichloroethene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

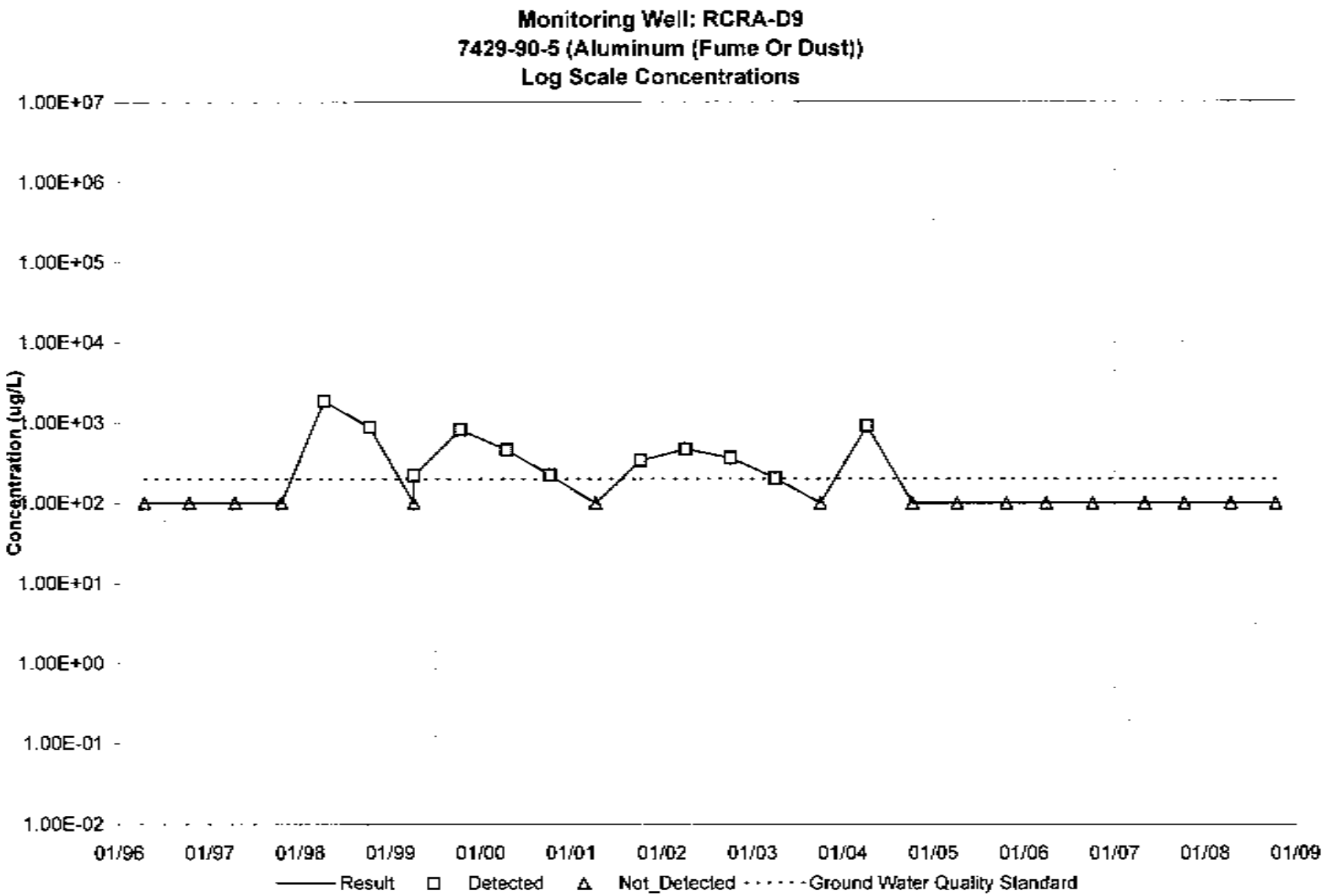

Monitoring Well: YY P2
79-01-6 (Trichloroethene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

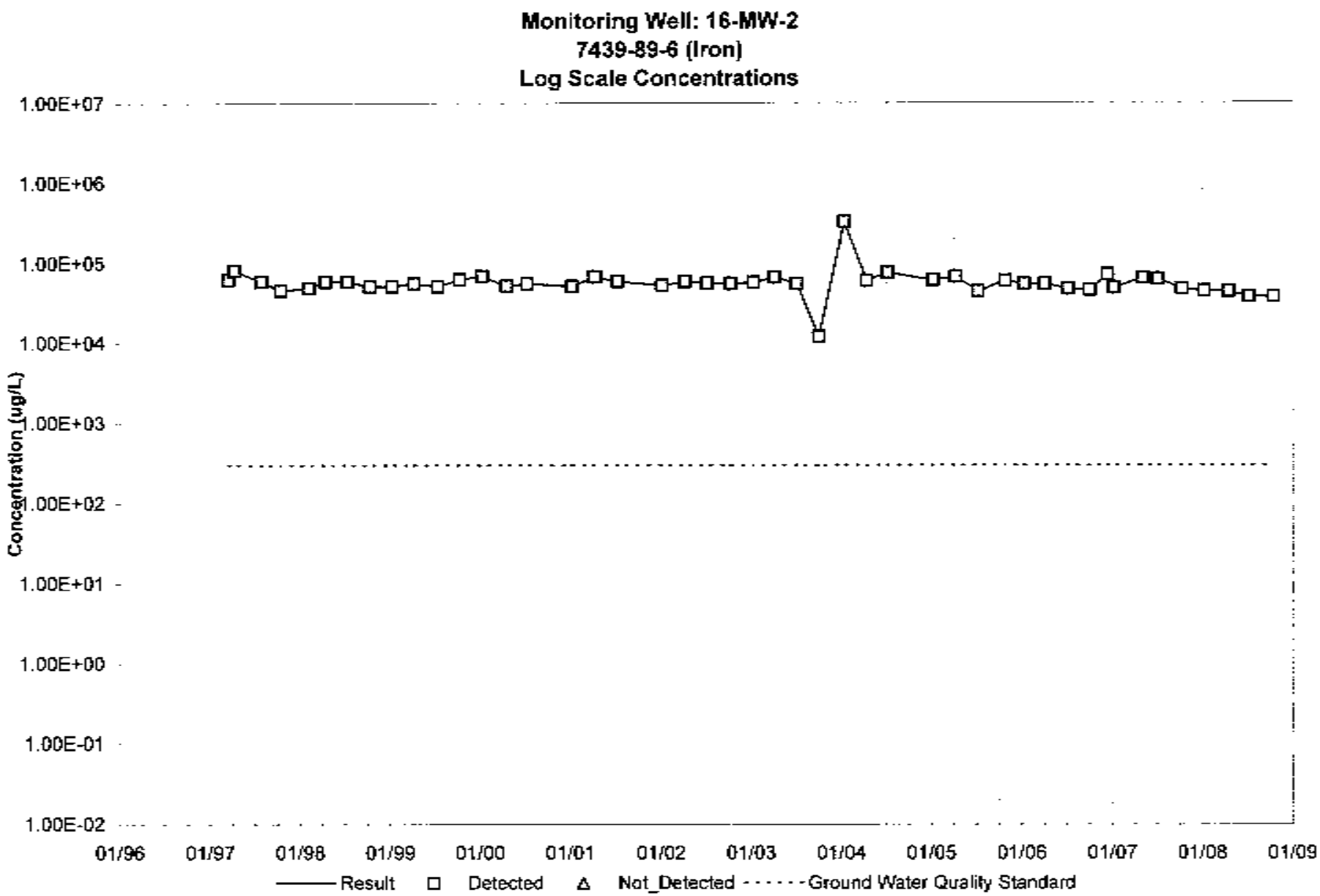

Monitoring Well: RCRA-D5
7429-90-5 (Aluminum (Fume Or Dust))
Log Scale Concentrations
Concentration (µg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

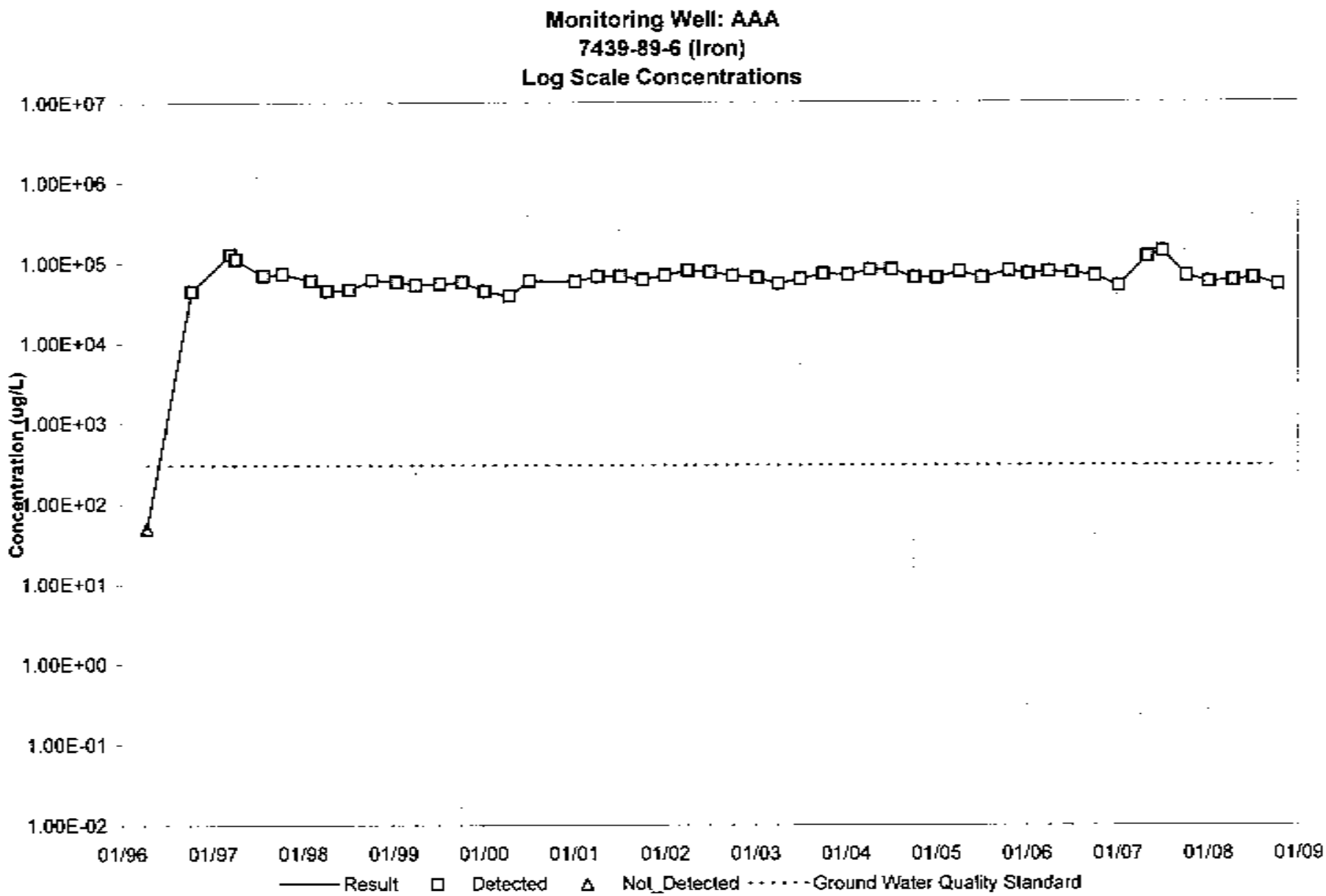

Monitoring Well: RCRA-D6
7429-90-5 (Aluminum (Fume Or Dust))
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

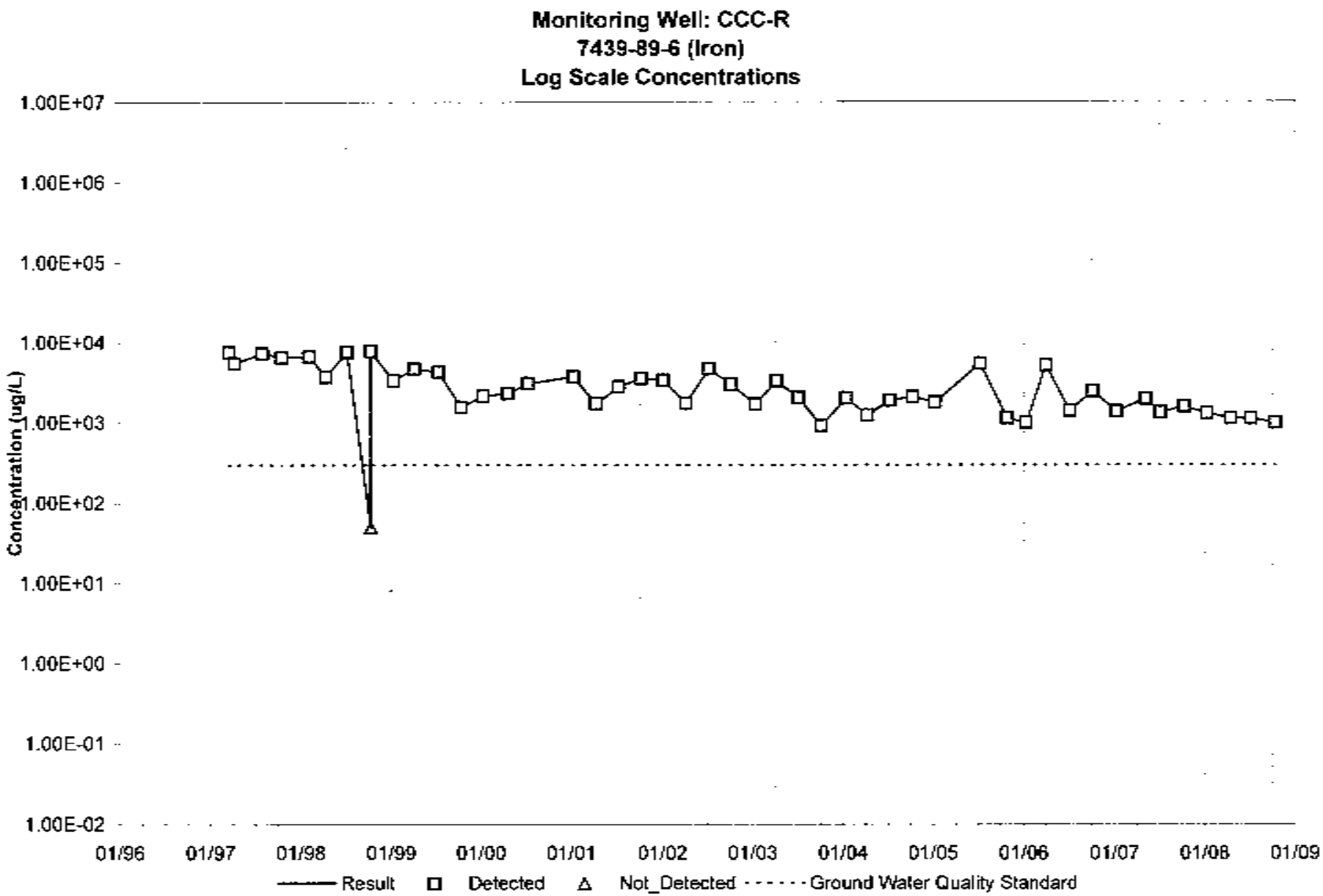

Monitoring Well: RCRA-D7
7429-90-5 (Aluminum (Fume Or Dust))
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

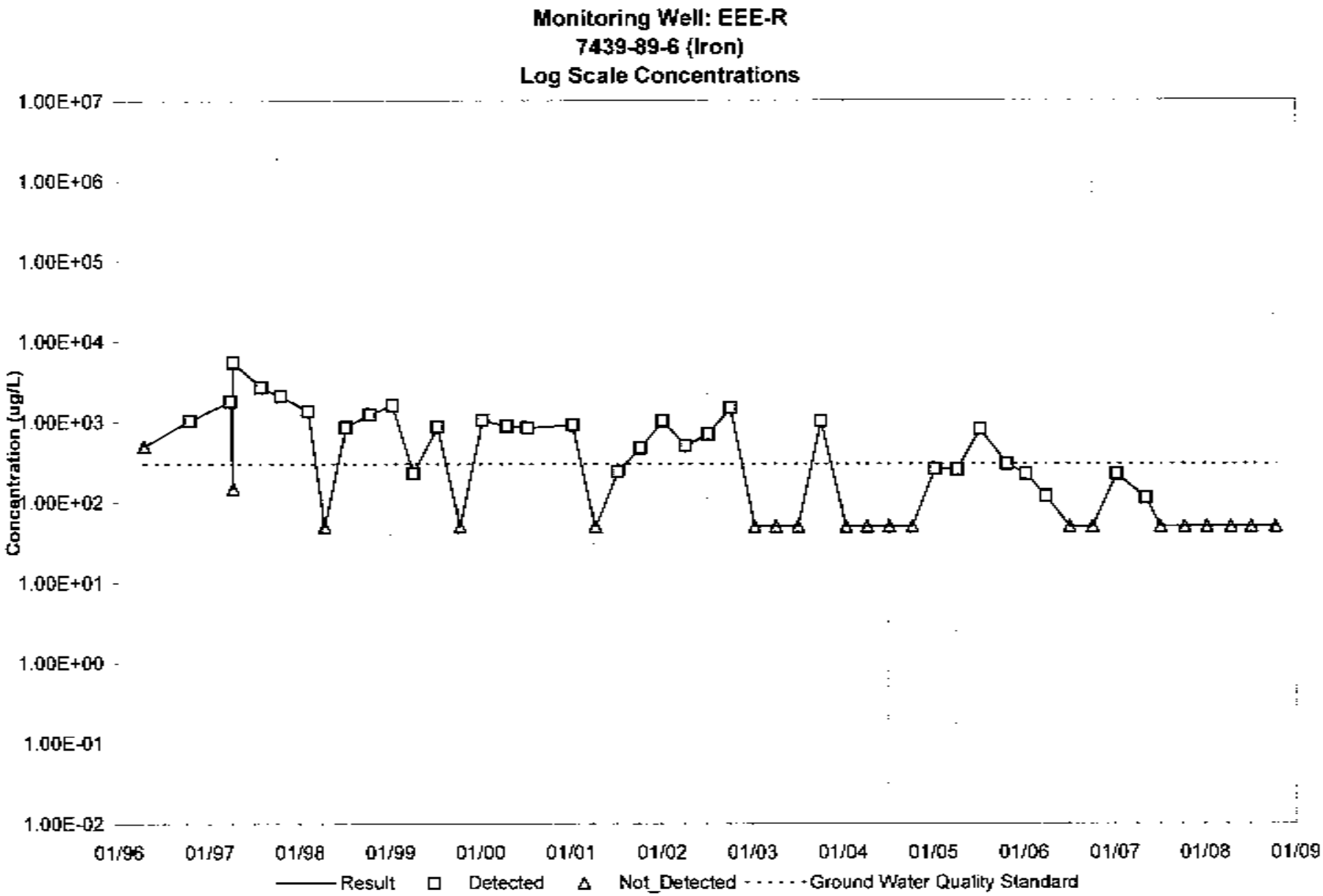

Monitoring Well: RCRA-D8
7429-90-5 (Aluminum (Fume Or Dust))
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

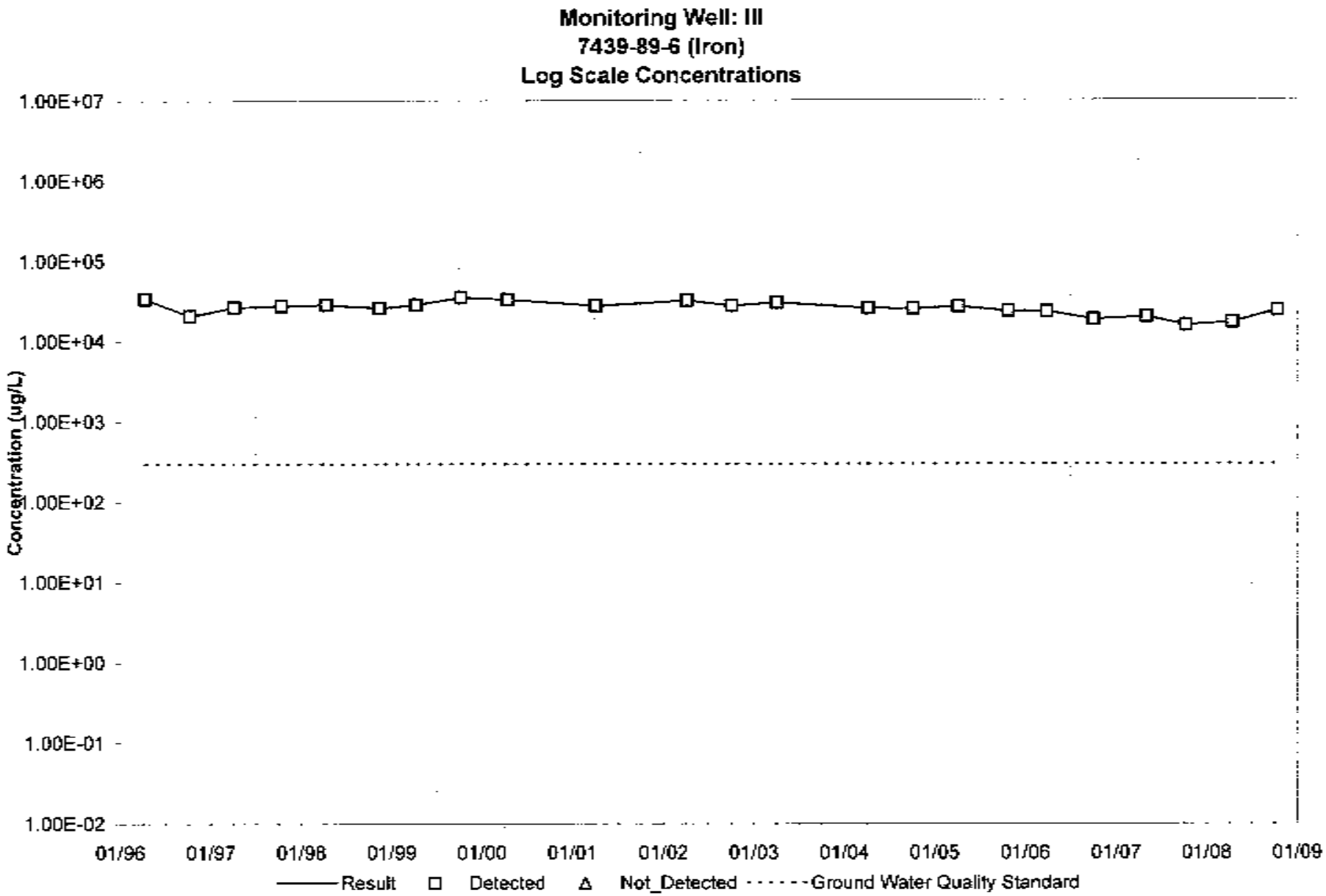

Monitoring Well: RCRA-D9
7429-90-5 (Aluminum (Fume Or Dust))
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

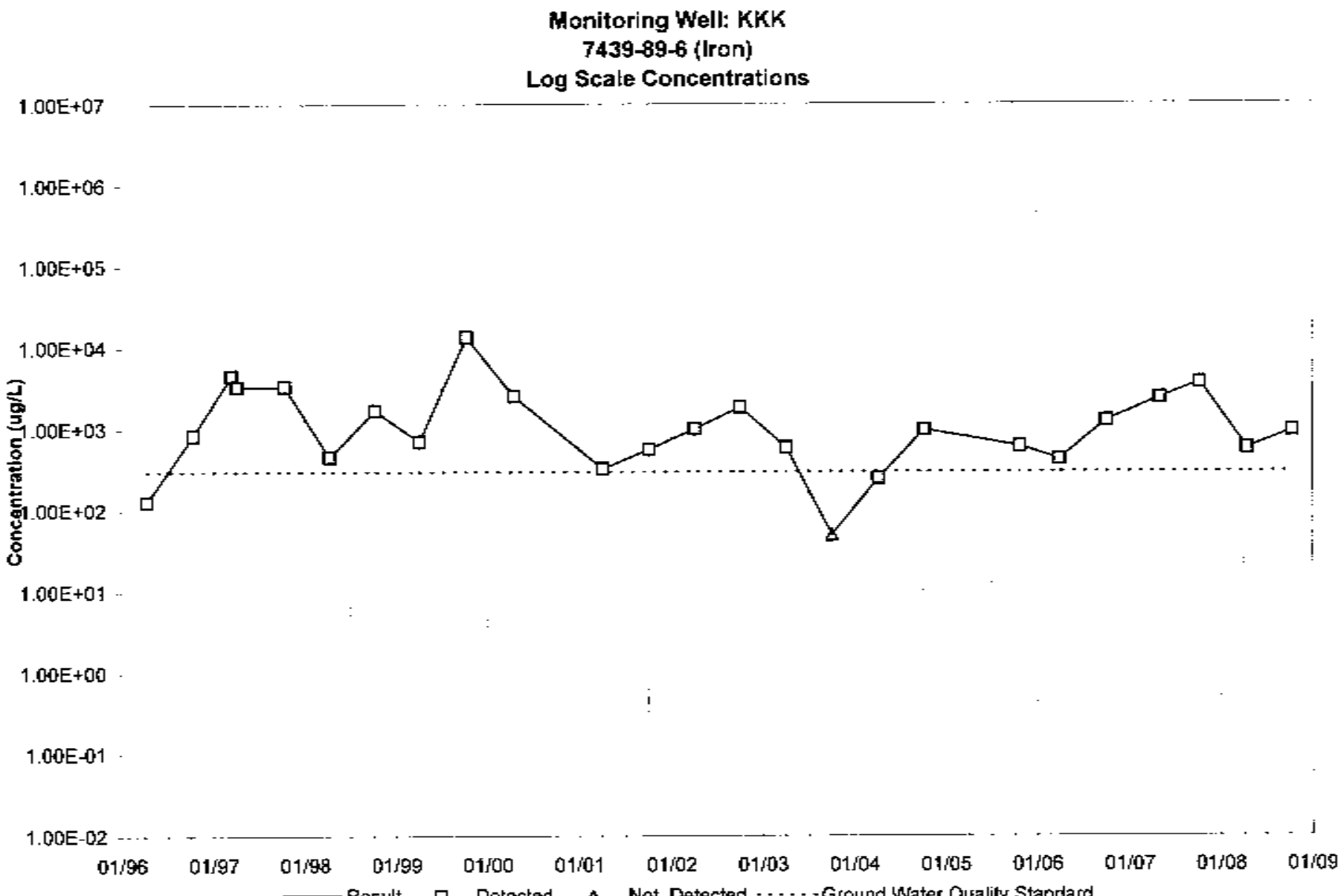

Monitoring Well: 16-MW-2
7439-89-6 (Iron)
Log Scale Concentrations
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
Concentration (ug/L)
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

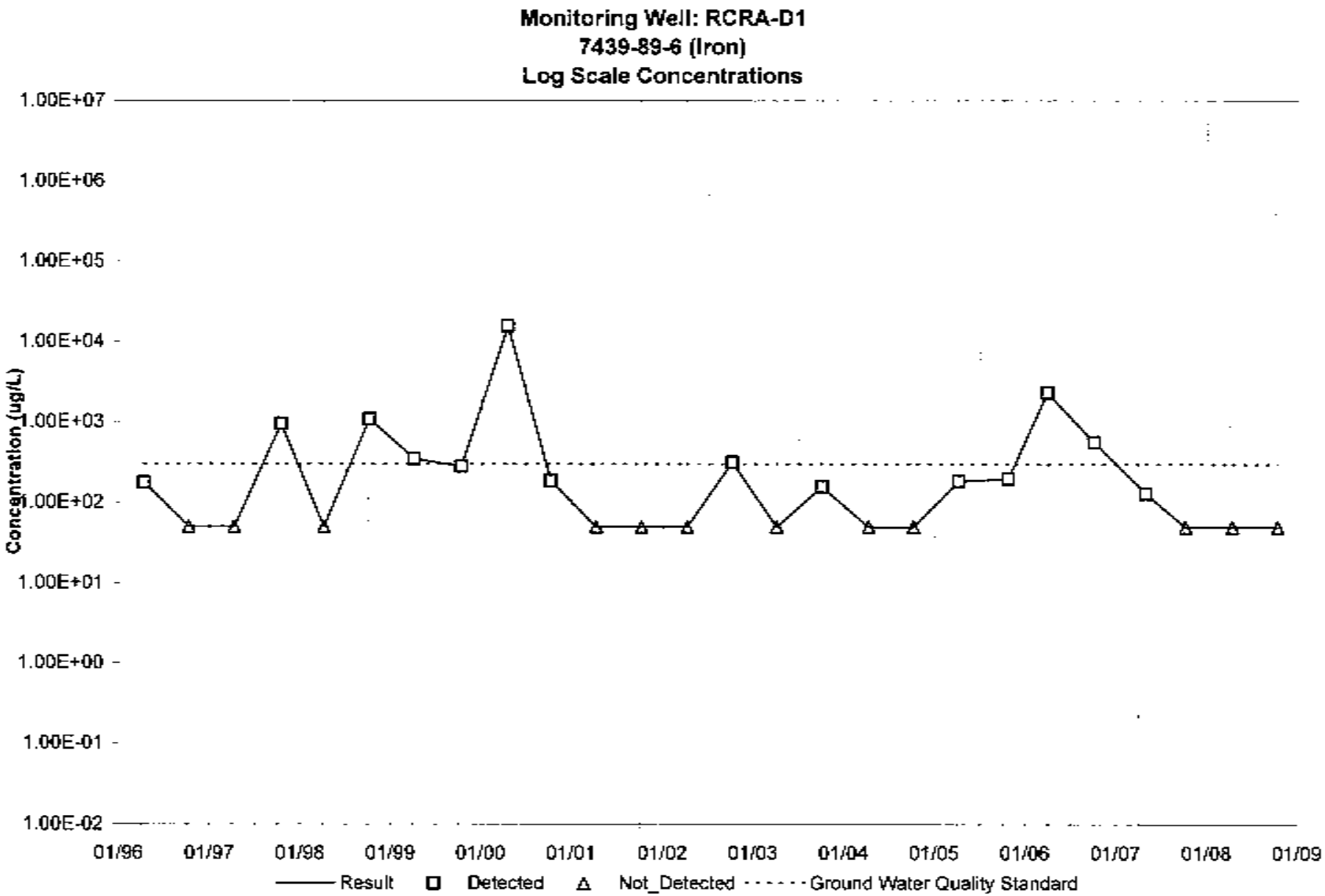

Monitoring Well: AAA
7439-89-6 (Iron)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

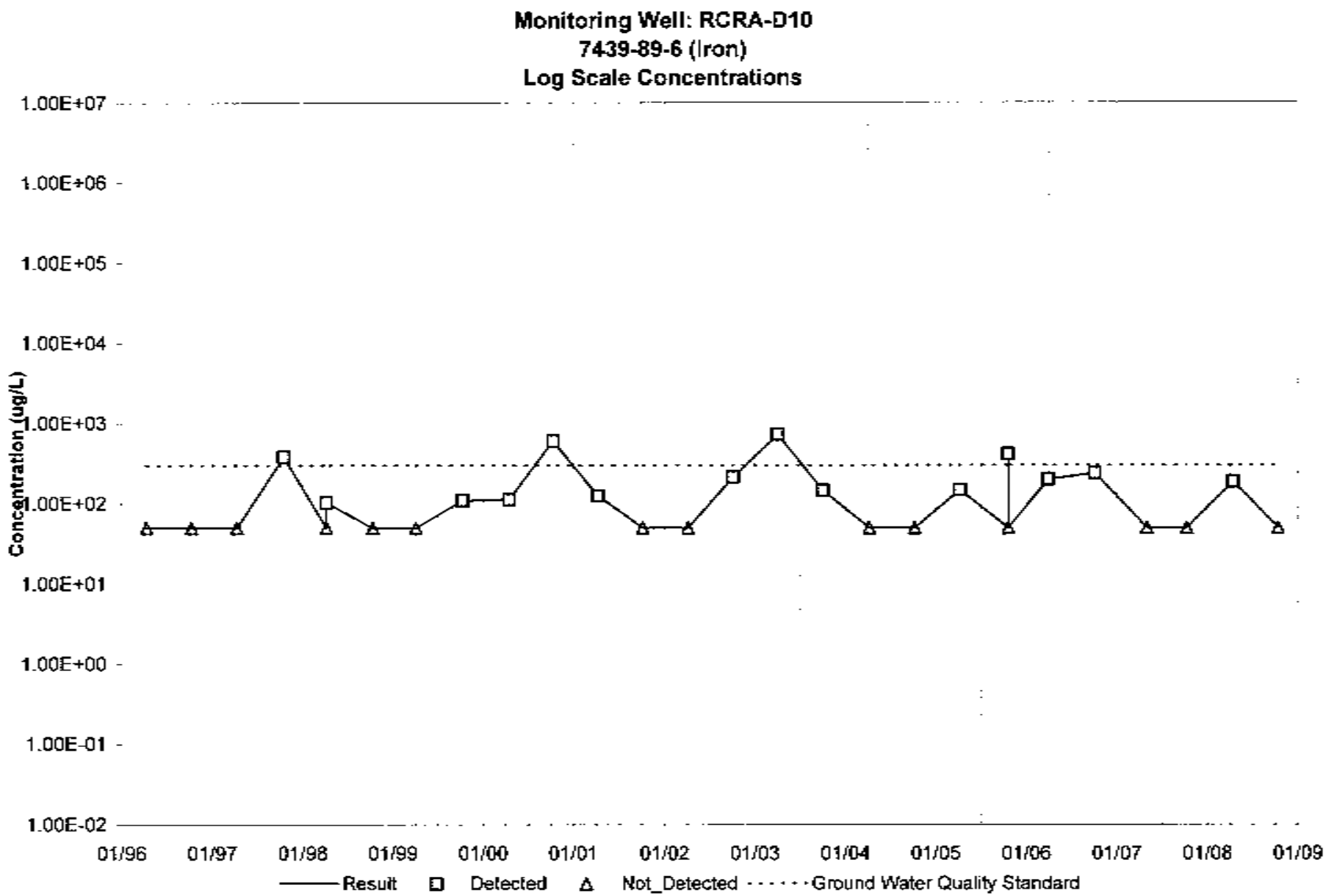

Monitoring Well: CCC-R
7439-89-6 (Iron)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

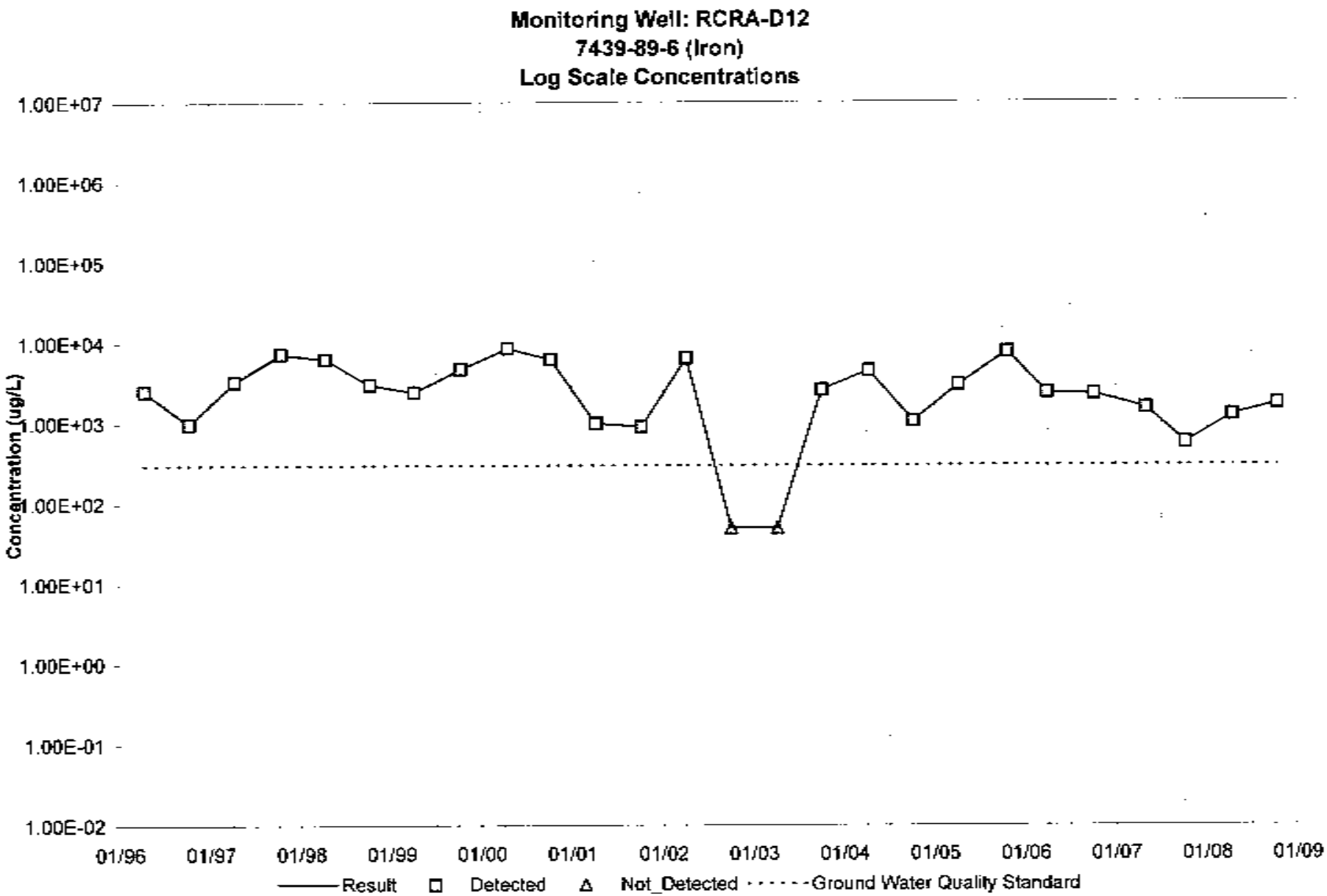

Monitoring Well: EEE-R
7439-89-6 (Iron)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

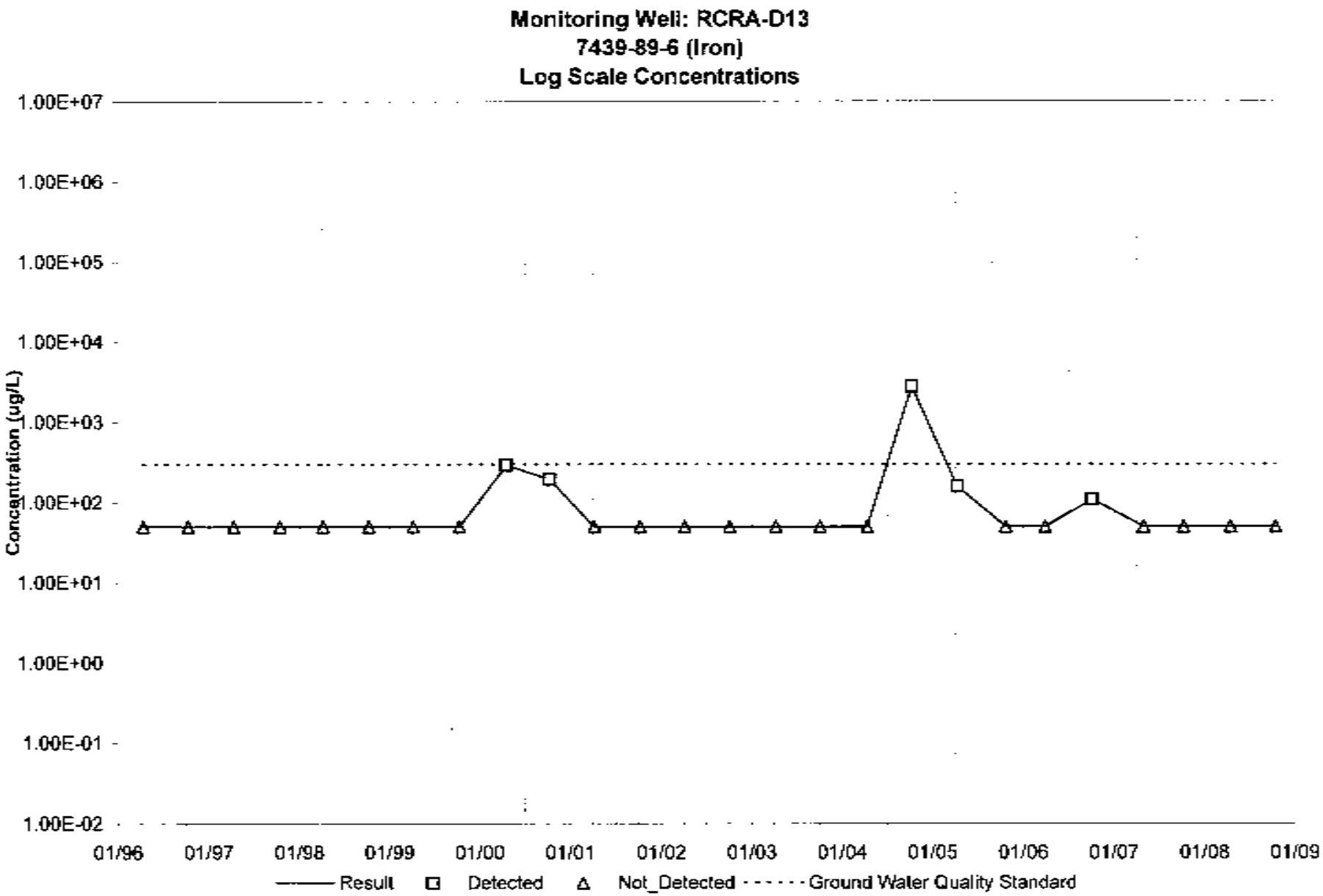

Monitoring Well: III
7439-89-6 (Iron)
Log Scale Concentrations
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
Concentration (ug/L)
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

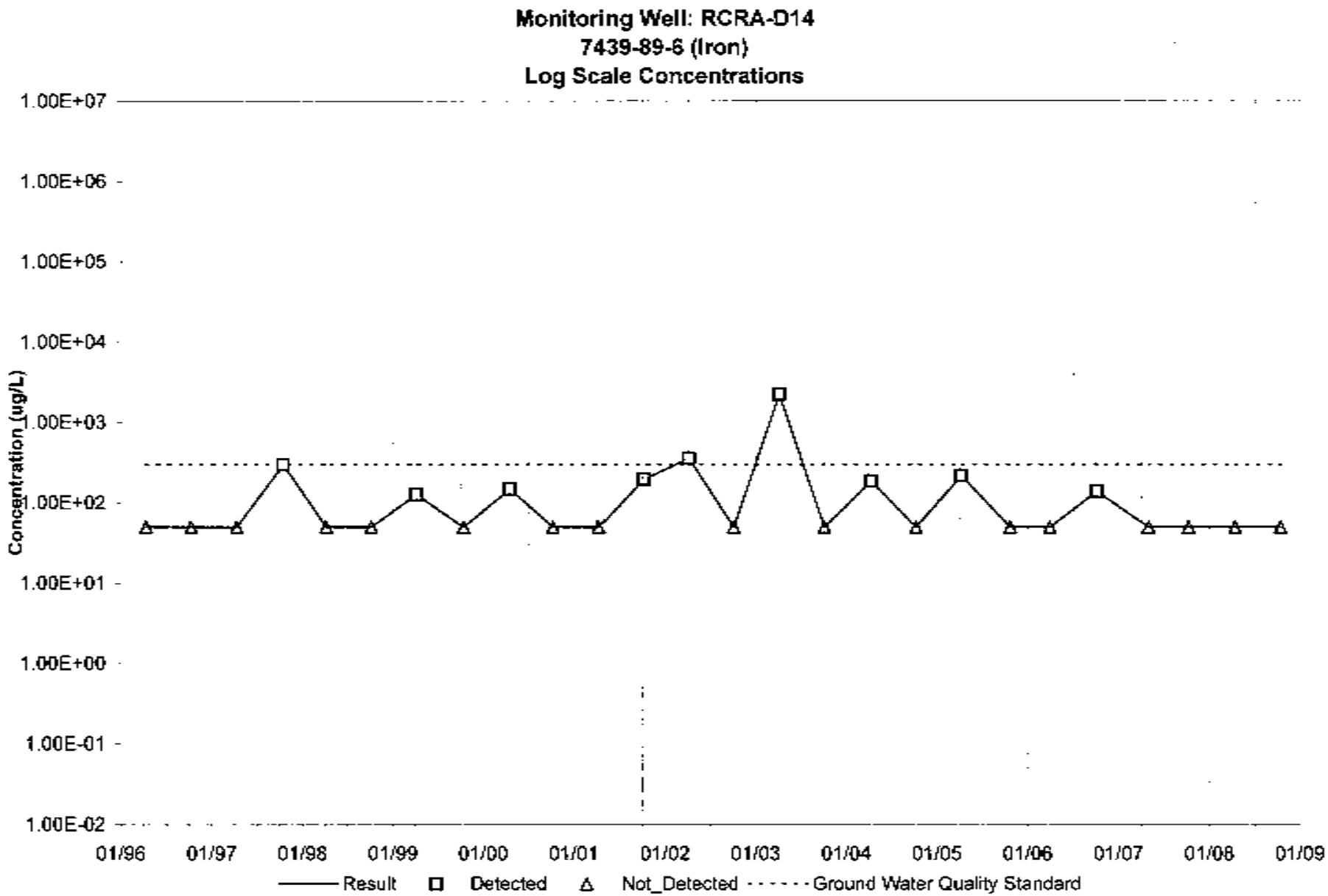

Monitoring Well: KKK
7439-89-6 (Iron)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

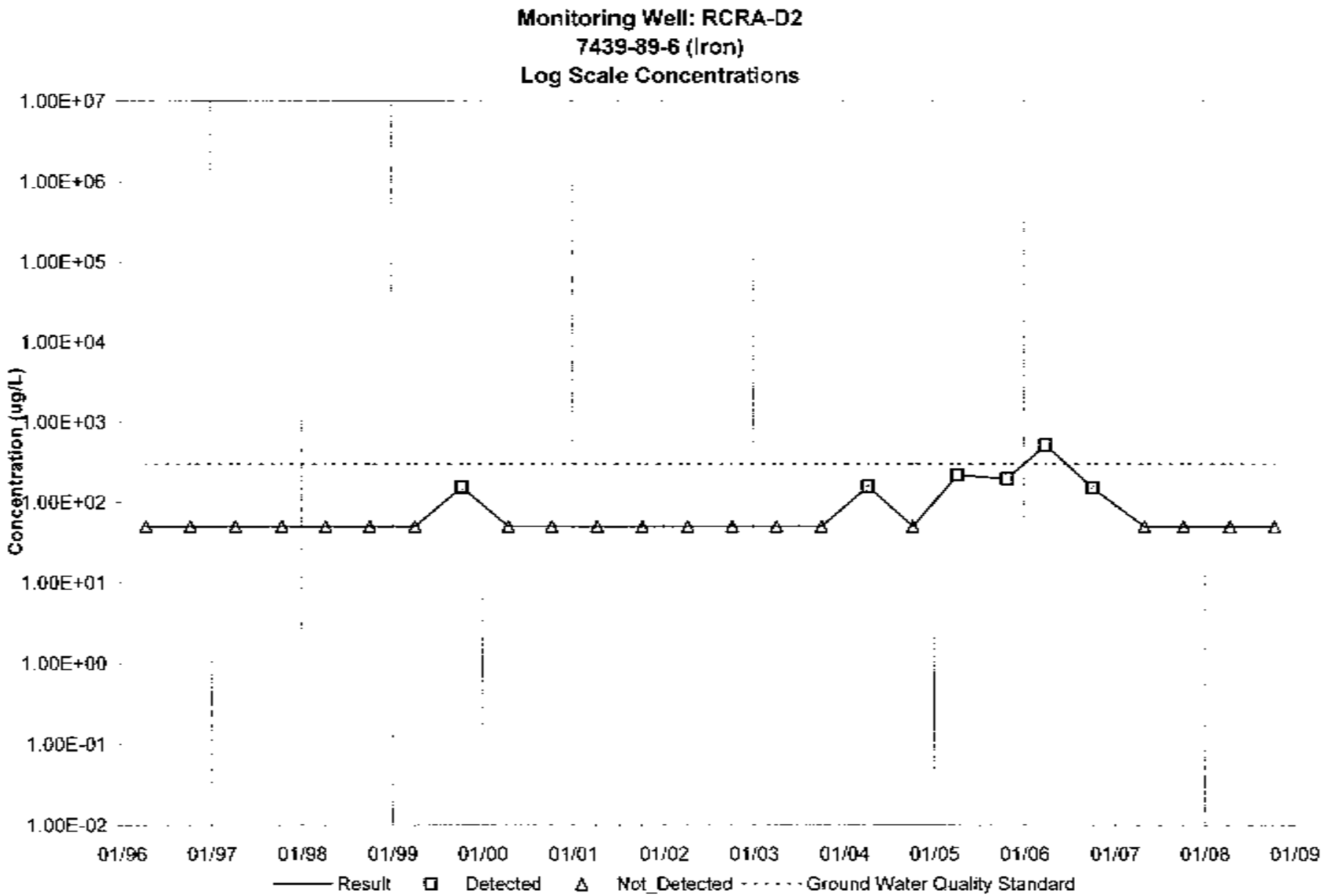

Monitoring Well: RCRA-D1
7439-89-6 (Iron)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

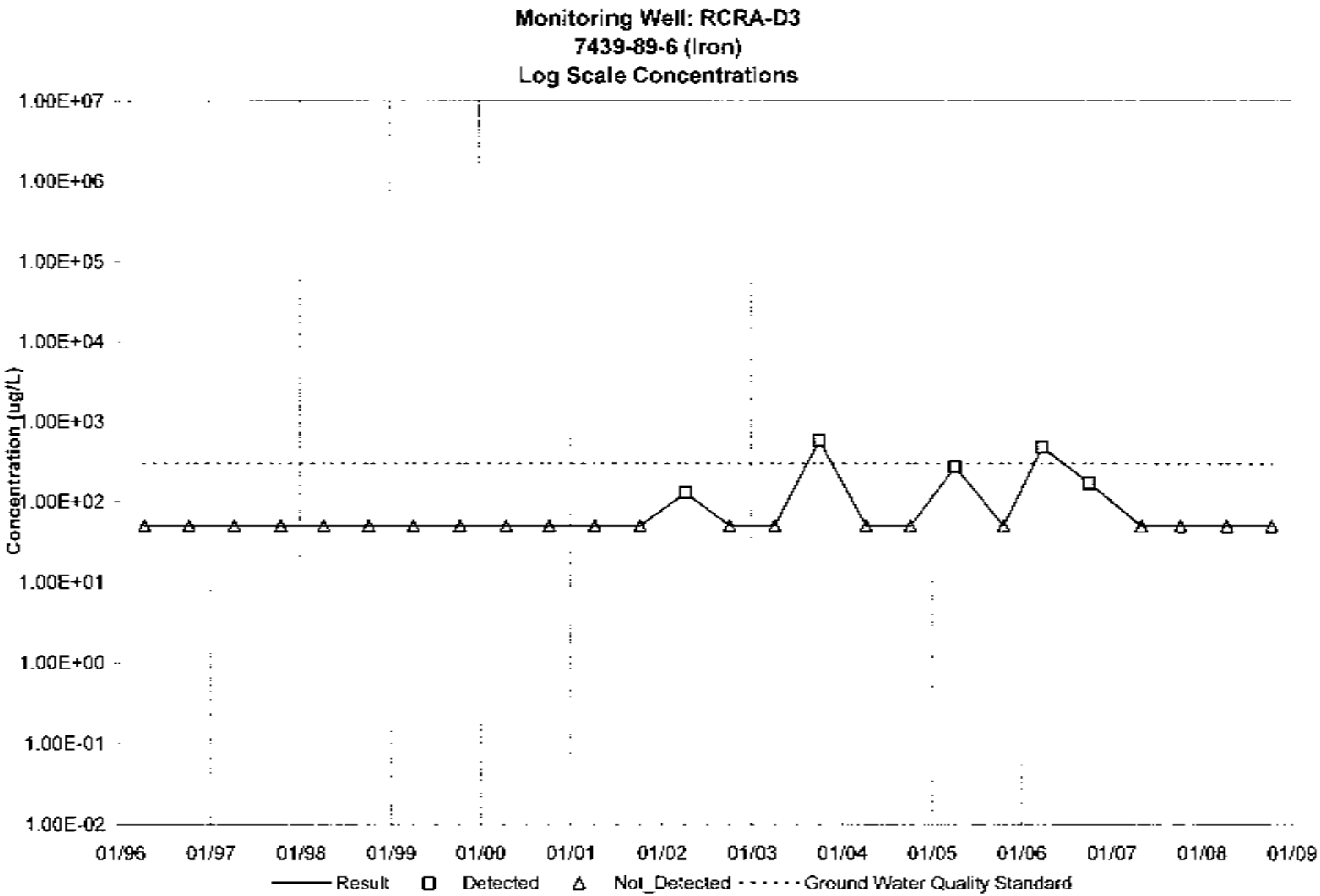

Monitoring Well: RCRA-D10
7439-89-6 (Iron)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

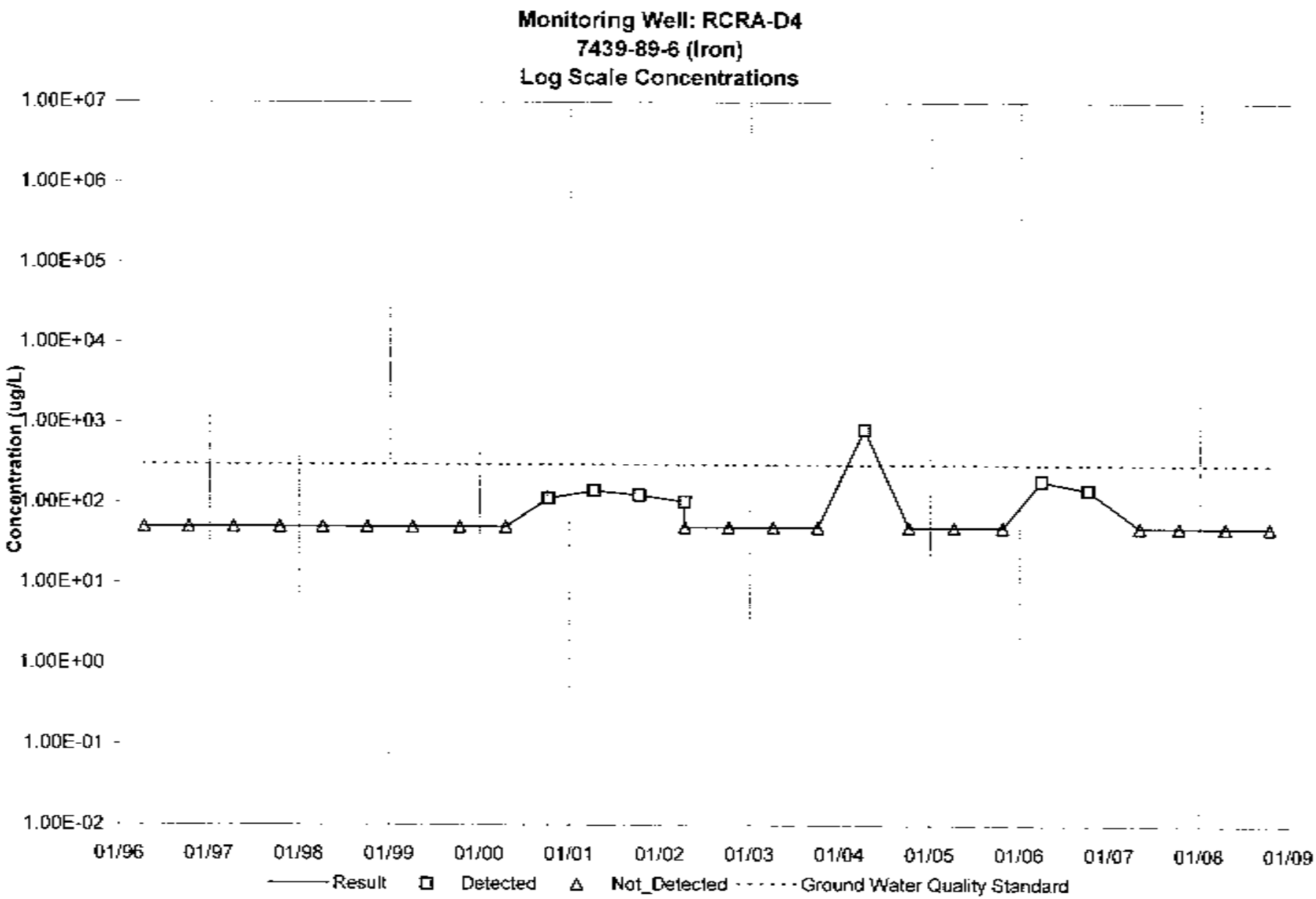

Monitoring Well: RCRA-D12
7439-89-6 (Iron)
Log Scale Concentrations
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
Concentration (ug/L)
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

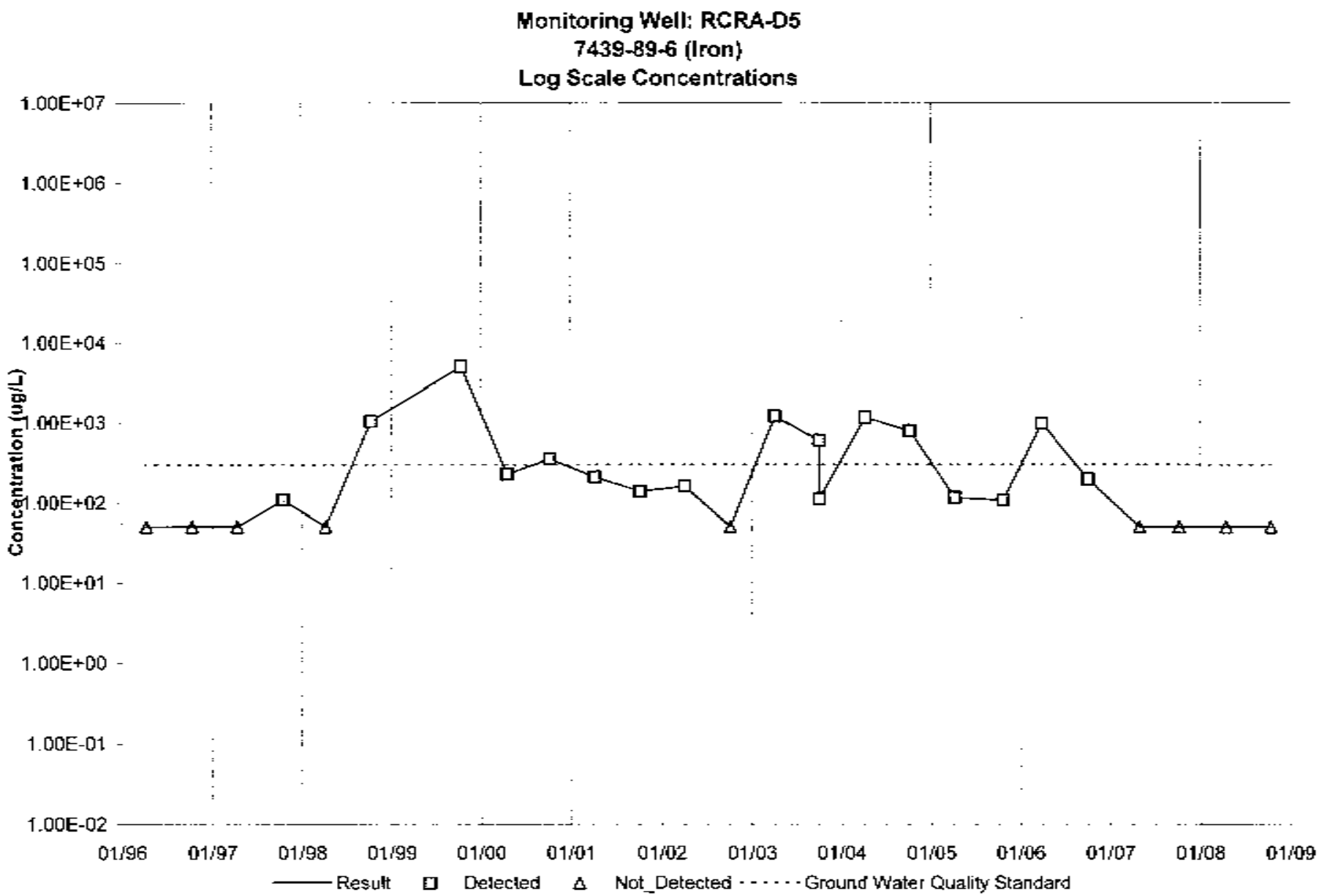

Monitoring Well: RCRA-D13
7439-89-6 (Iron)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

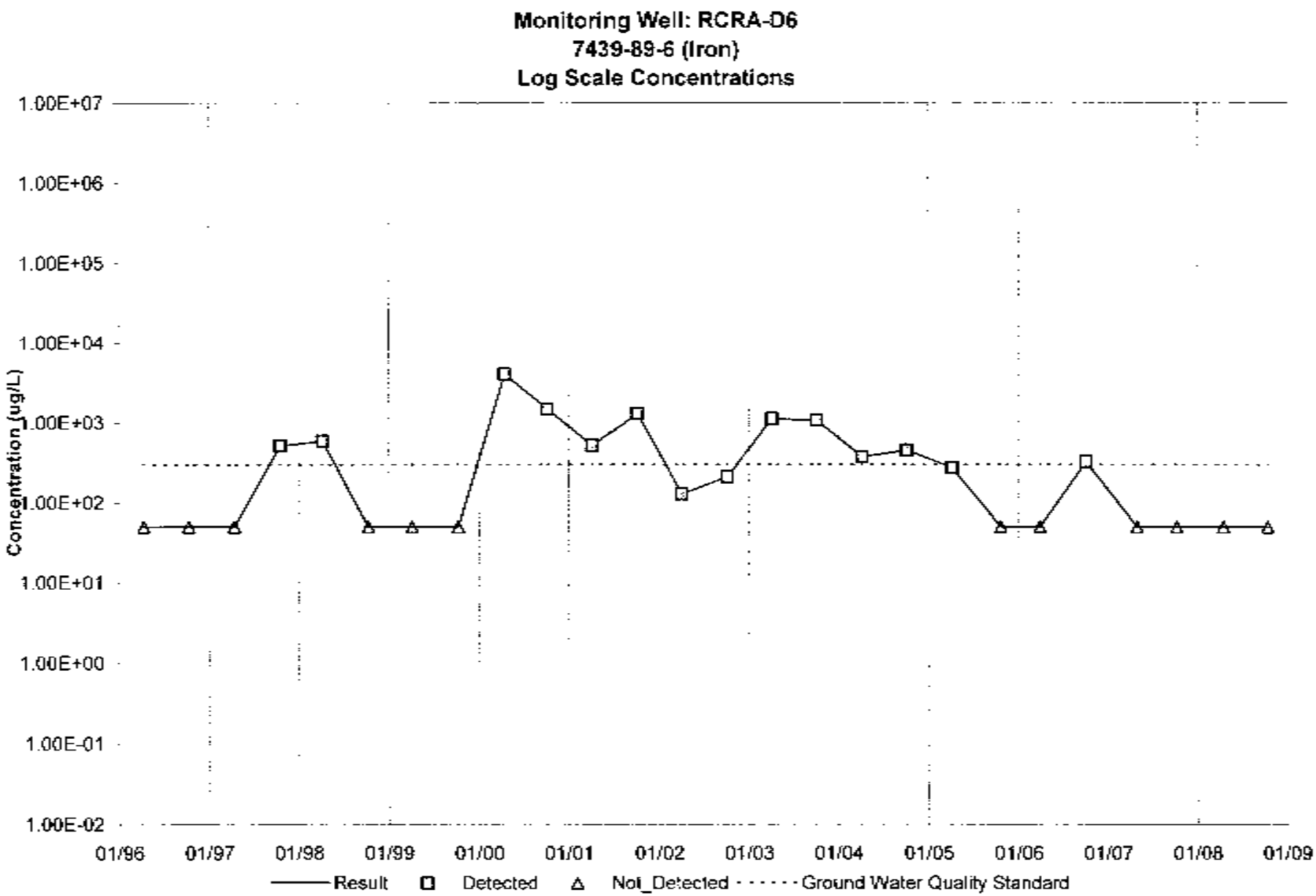

Monitoring Well: RCRA-D14
7439-89-6 (Iron)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

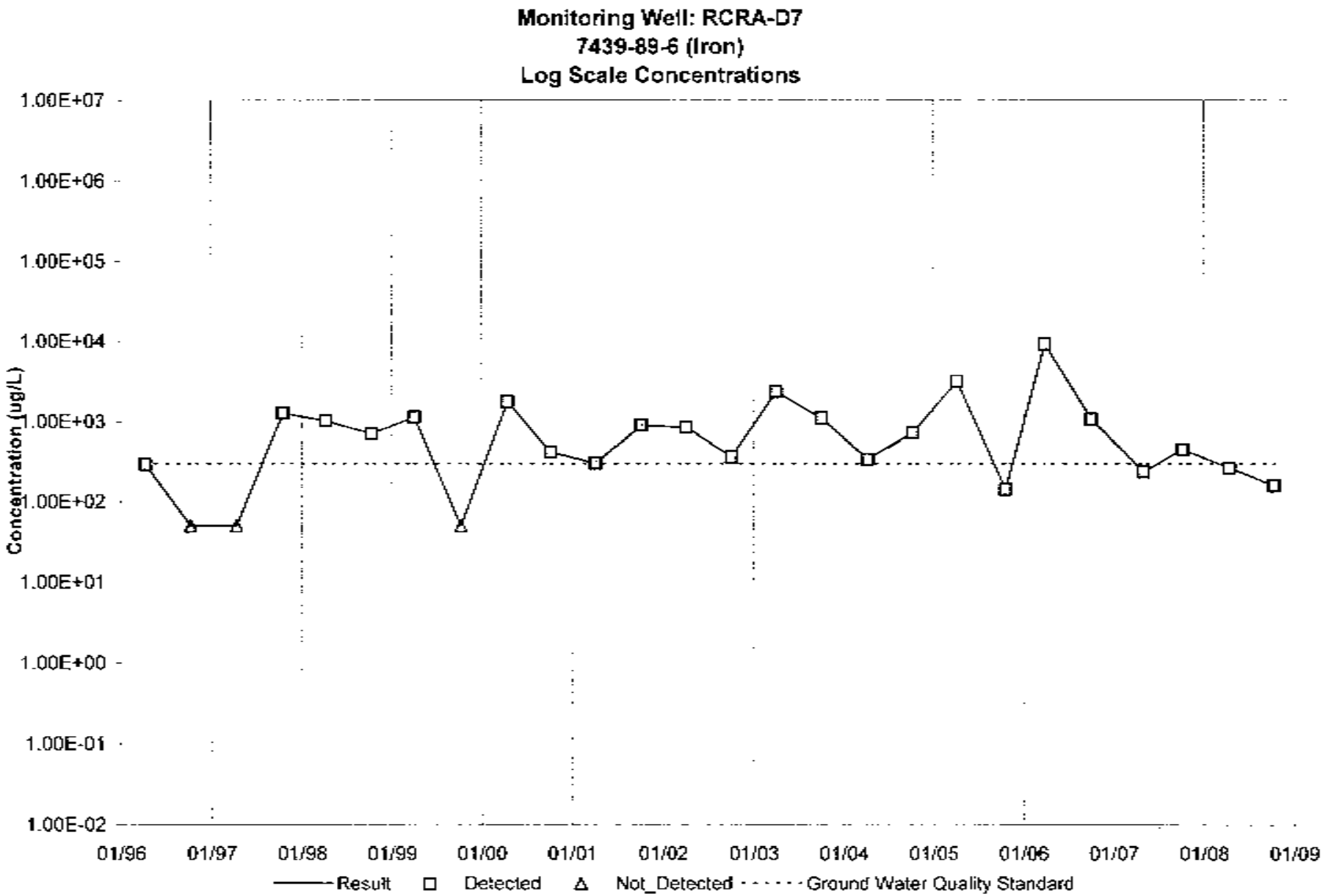

Monitoring Well: RCRA-D2
7439-89-6 (Iron)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

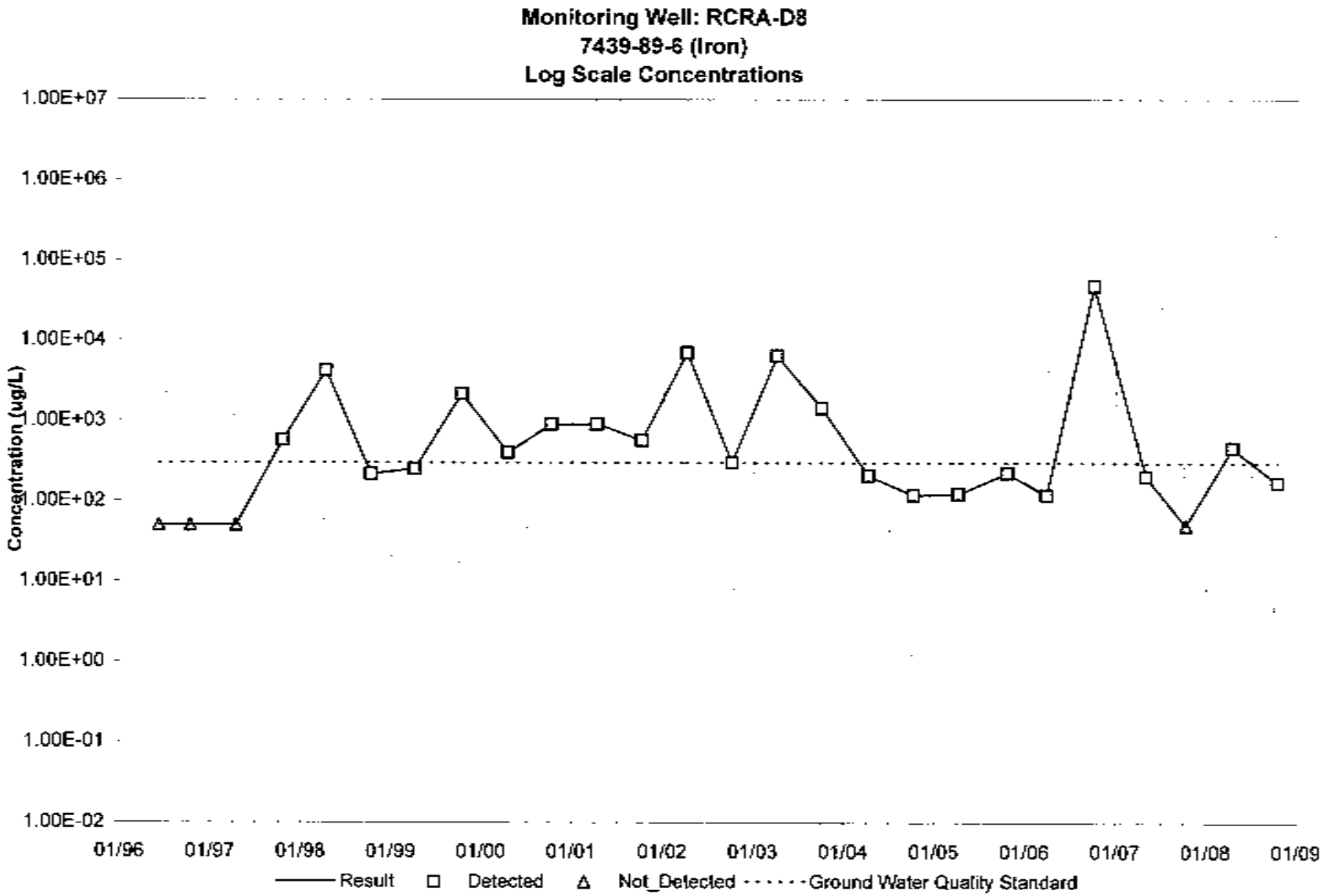

Monitoring Well: RCRA-D3
7439-89-6 (Iron)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

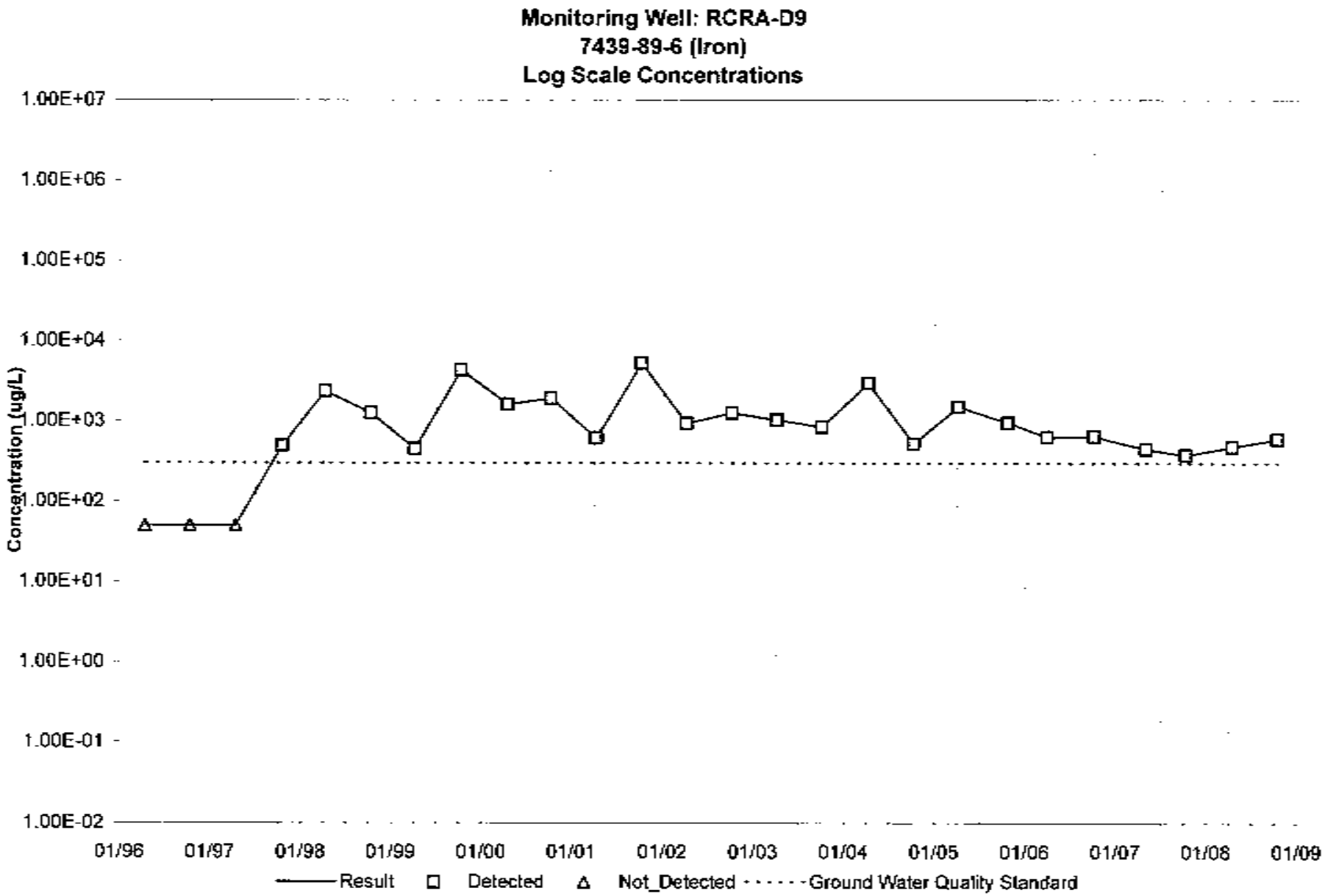

Monitoring Well: RCRA-D4
7439-89-6 (Iron)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

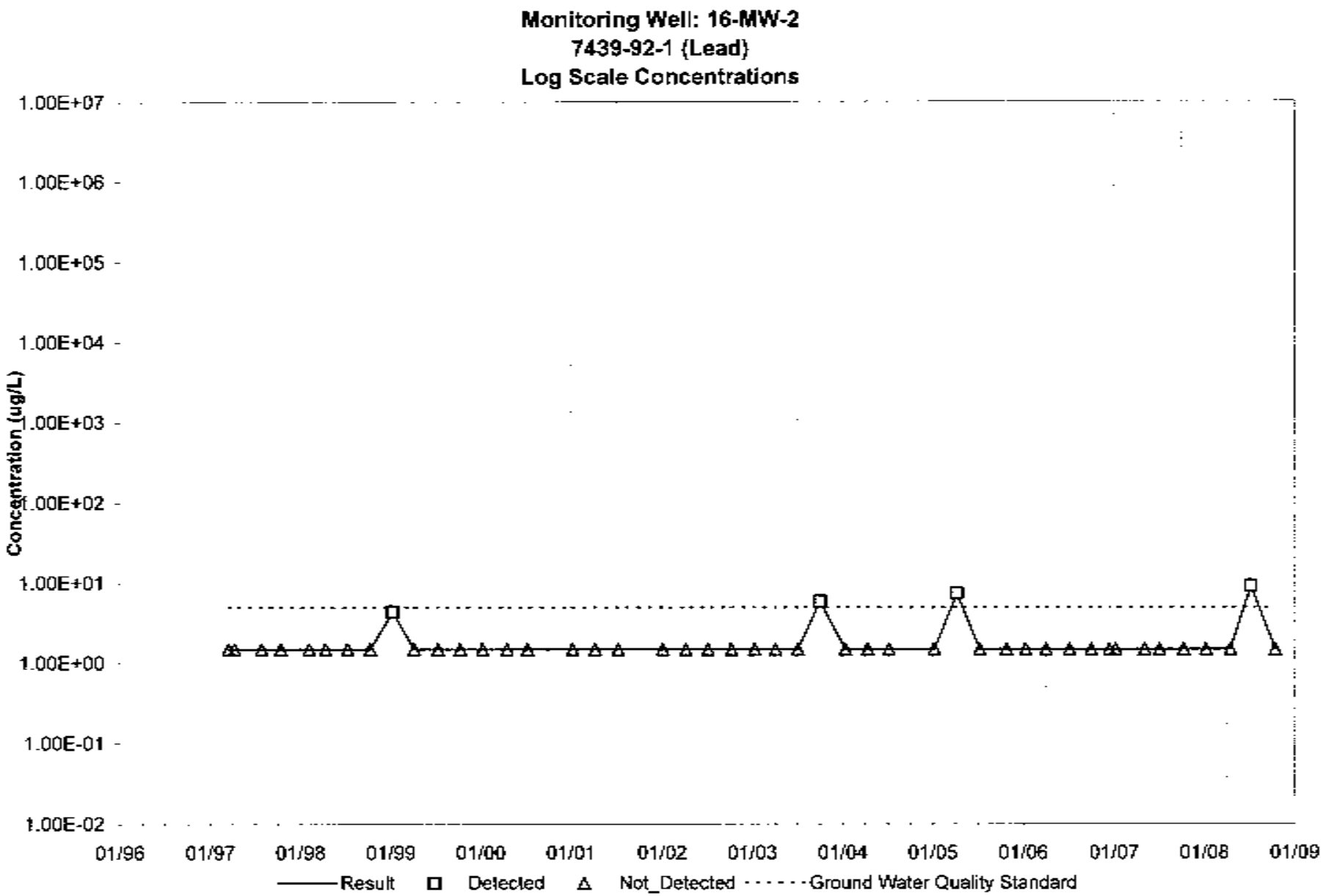

Monitoring Well: RCRA-D5
7439-89-6 (Iron)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

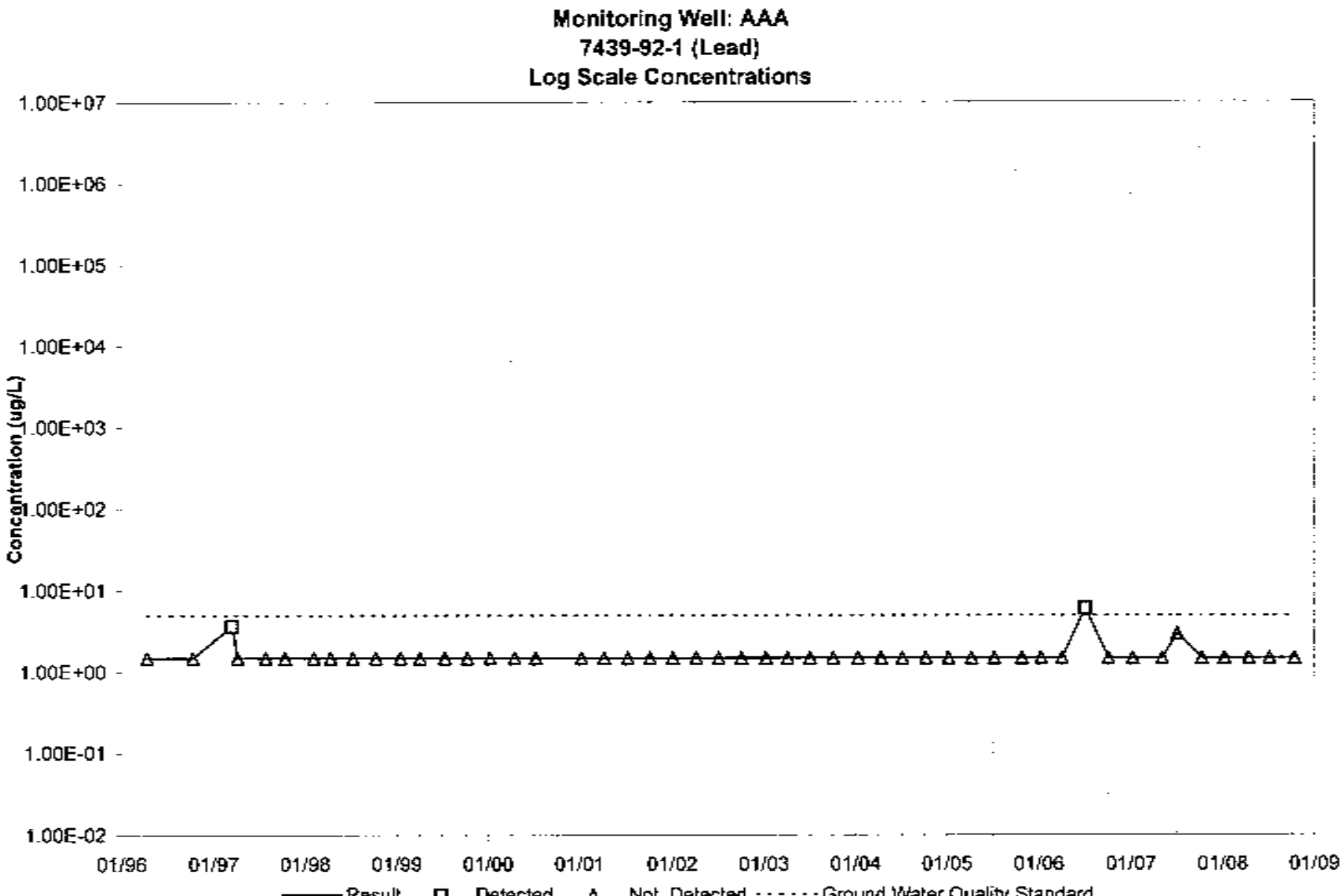

Monitoring Well: RCRA-D6
7439-89-6 (Iron)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

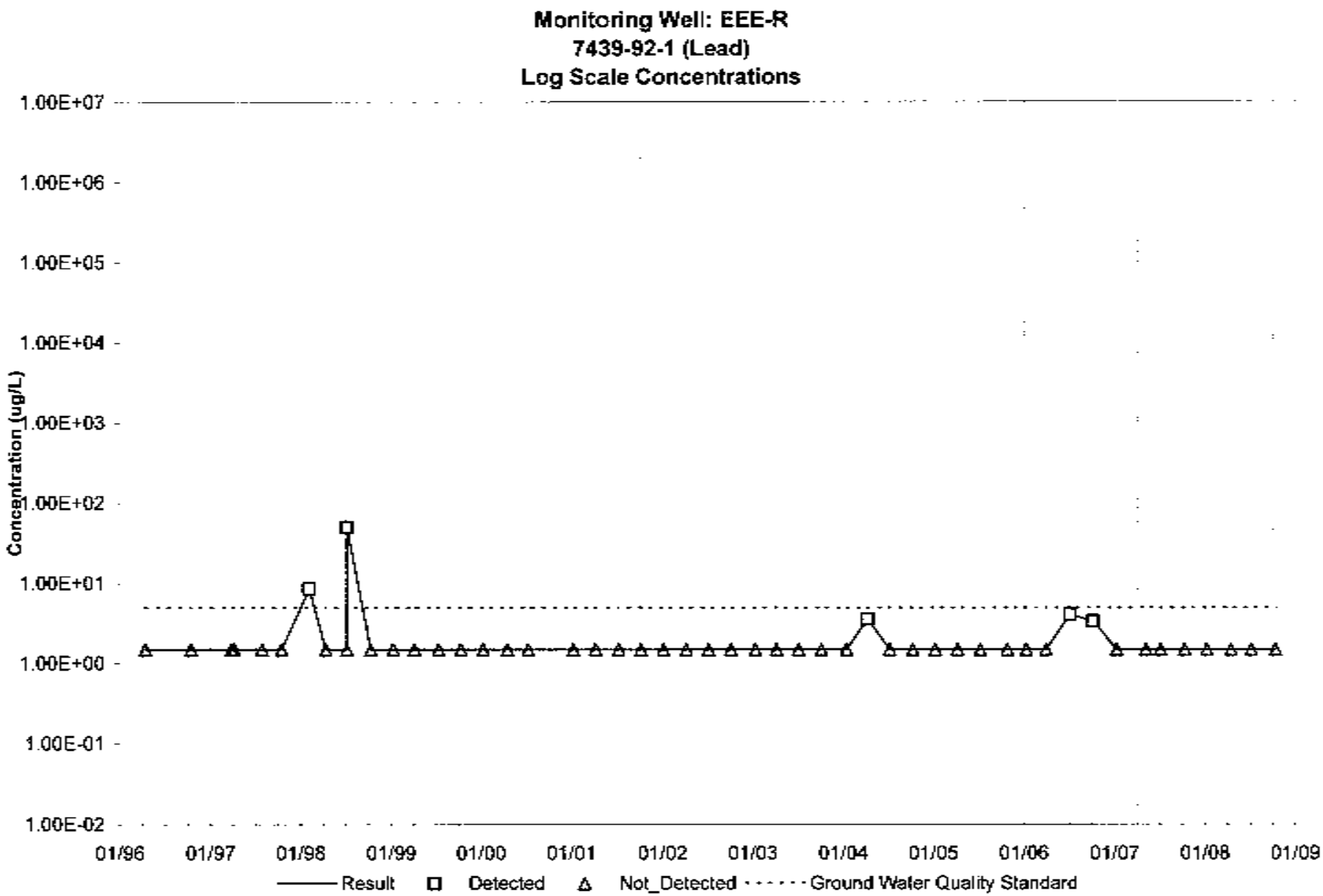

Monitoring Well: RCRA-D7
7439-89-6 (Iron)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

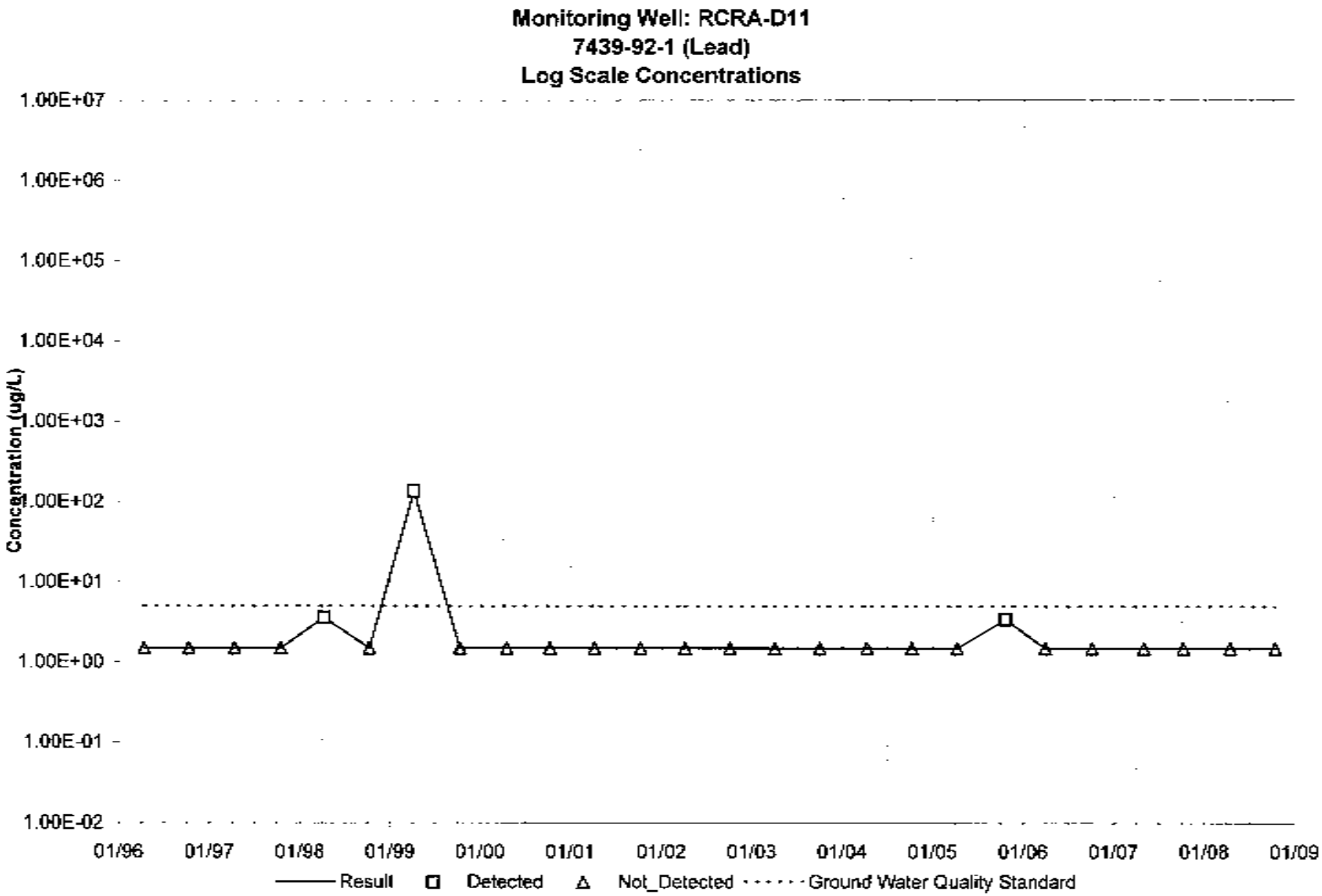

Monitoring Well: RCRA-D8
7439-89-6 (Iron)
Log Scale Concentrations
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
Concentration (ug/L)
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

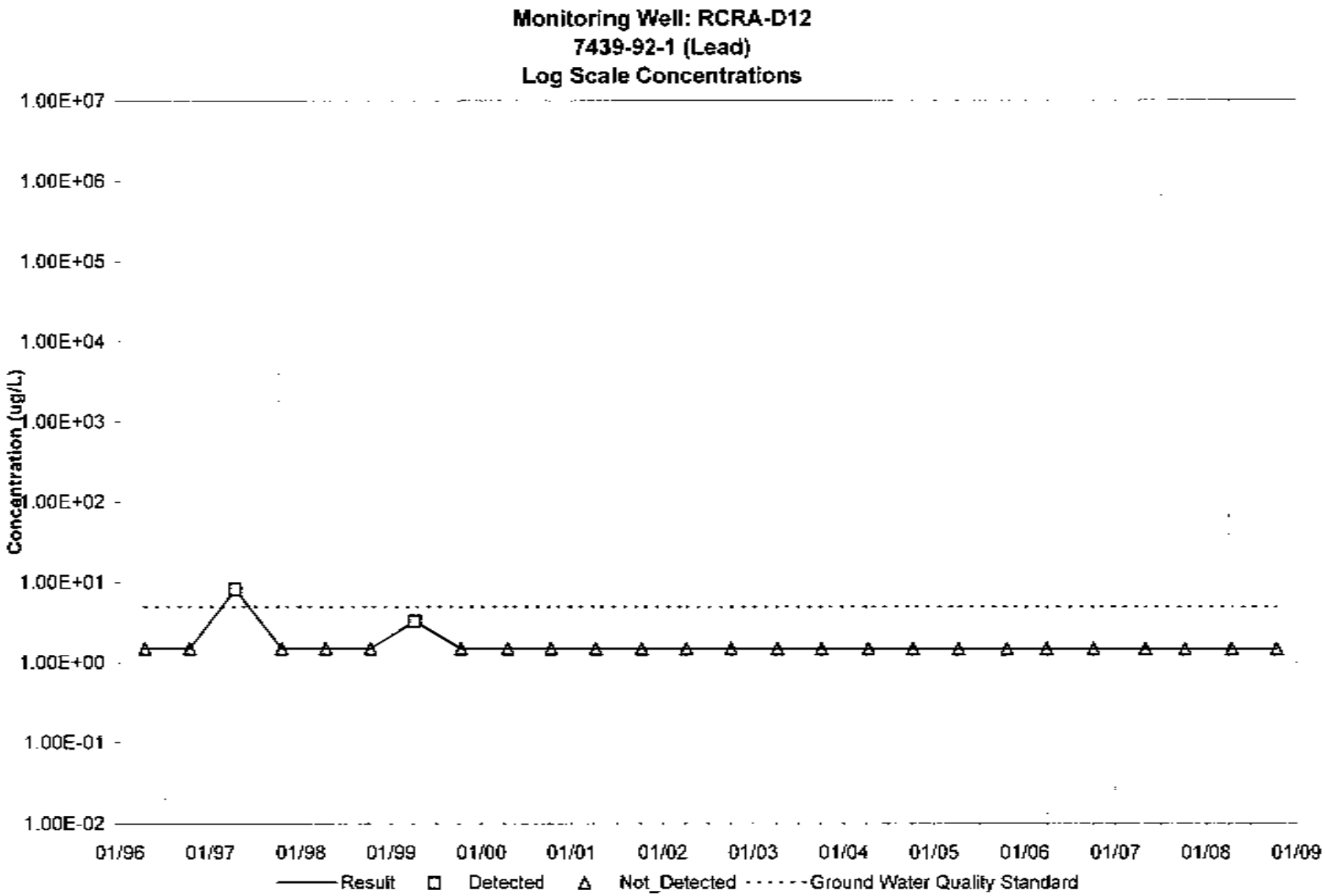

Monitoring Well: RCRA-D9
7439-89-6 (Iron)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

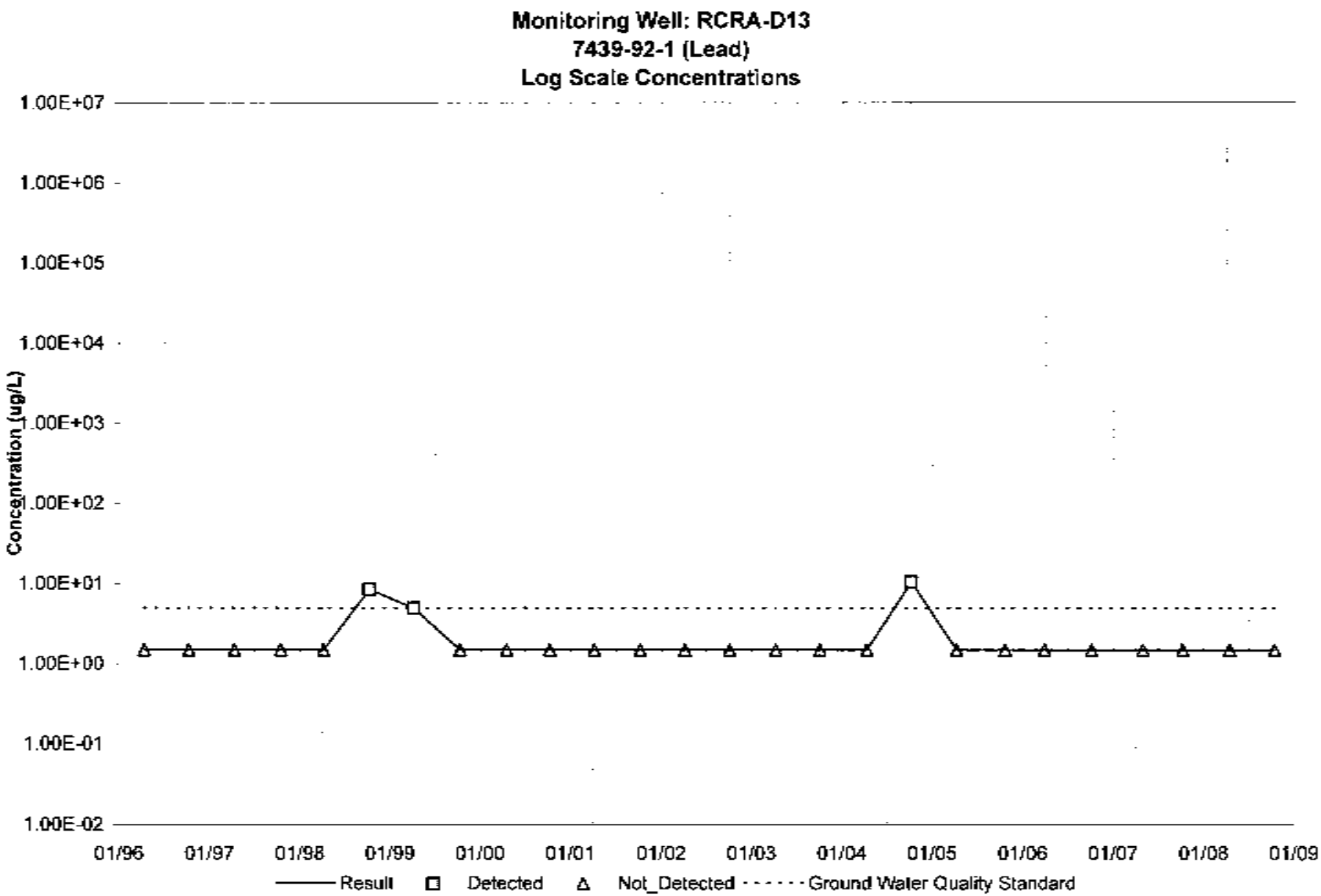

Monitoring Well: 16-MW-2
7439-92-1 (Lead)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

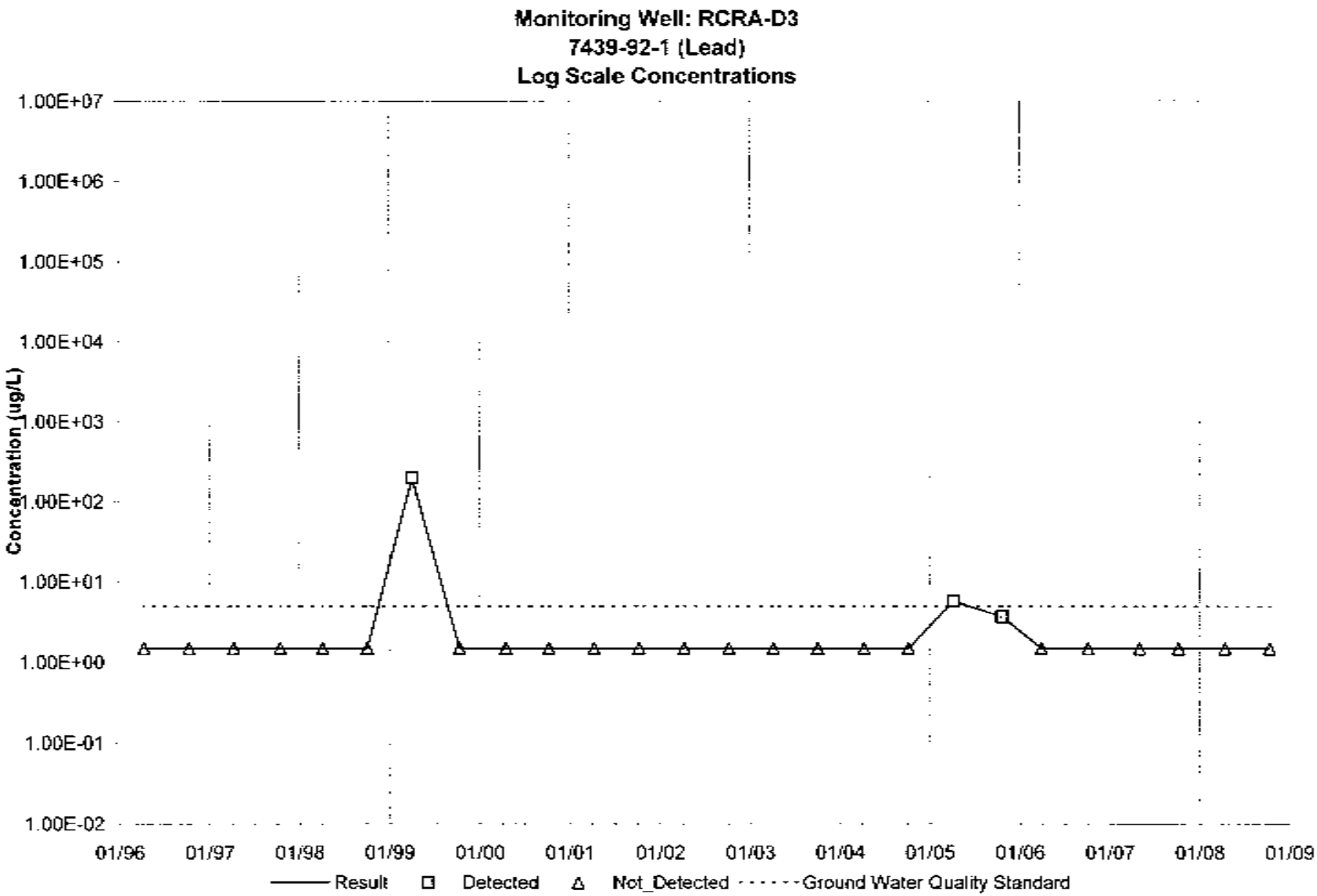

Monitoring Well: AAA
7439-92-1 (Lead)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

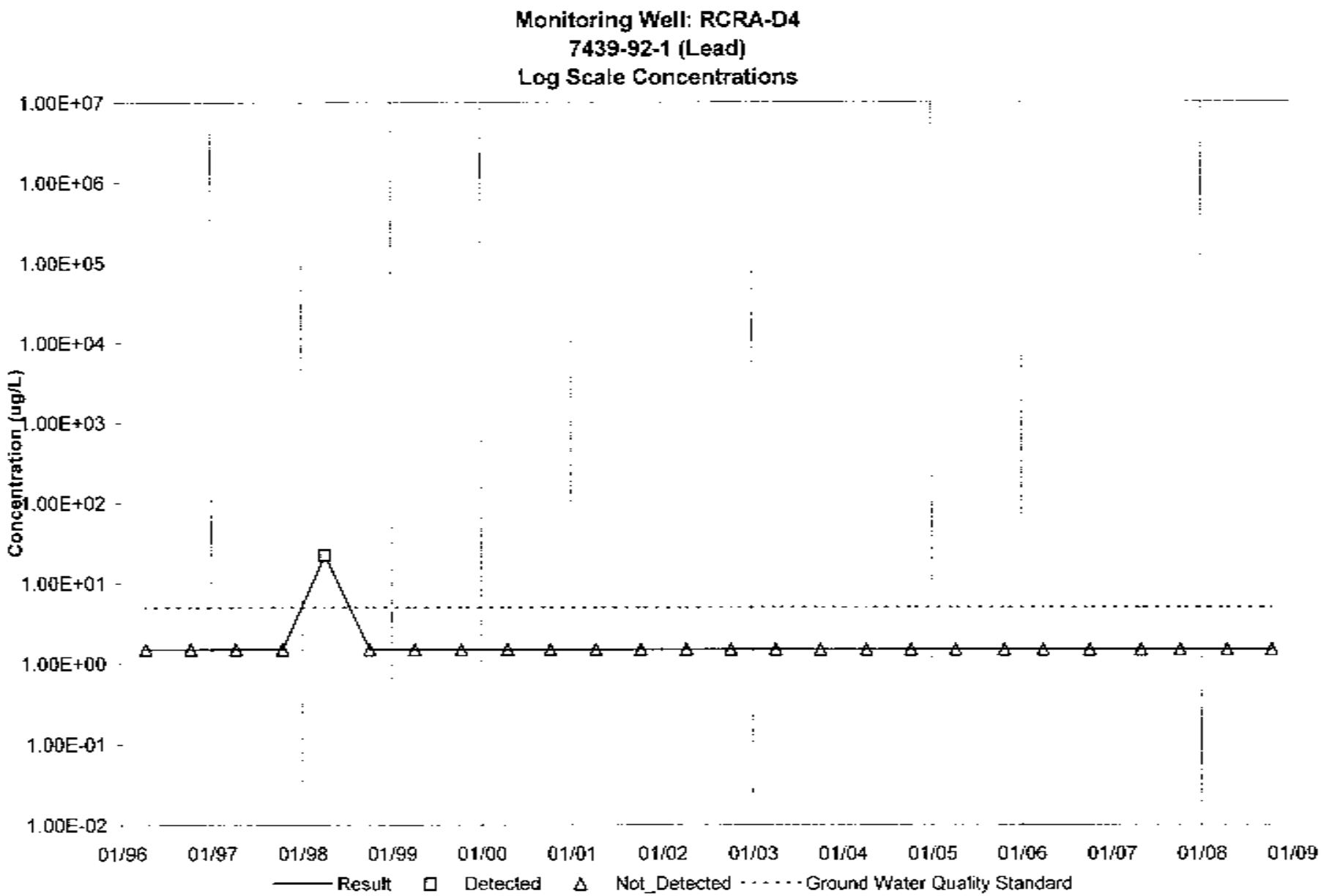

Monitoring Well: EEE-R
7439-92-1 (Lead)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

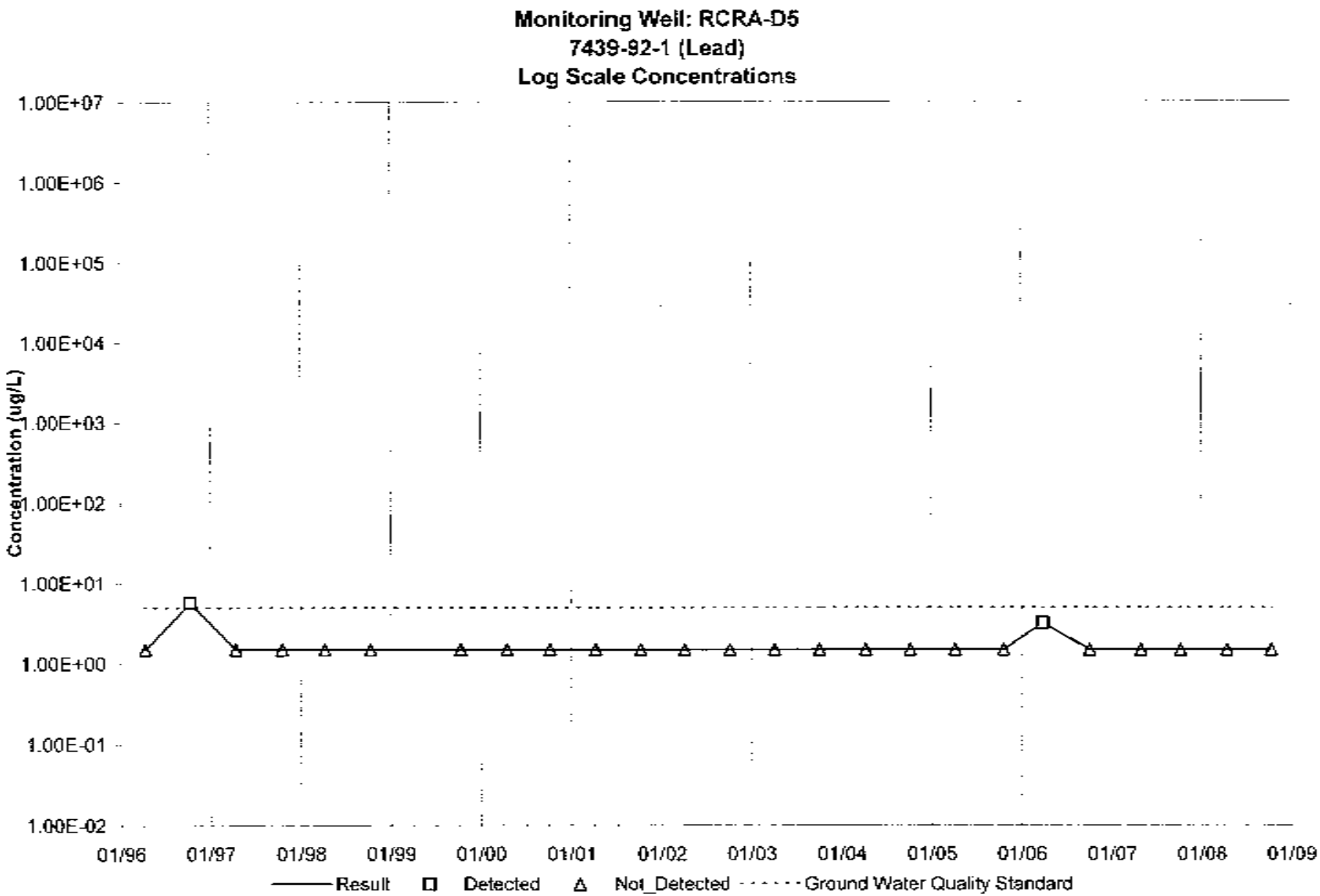

Monitoring Well: RCRA-D11
7439-92-1 (Lead)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

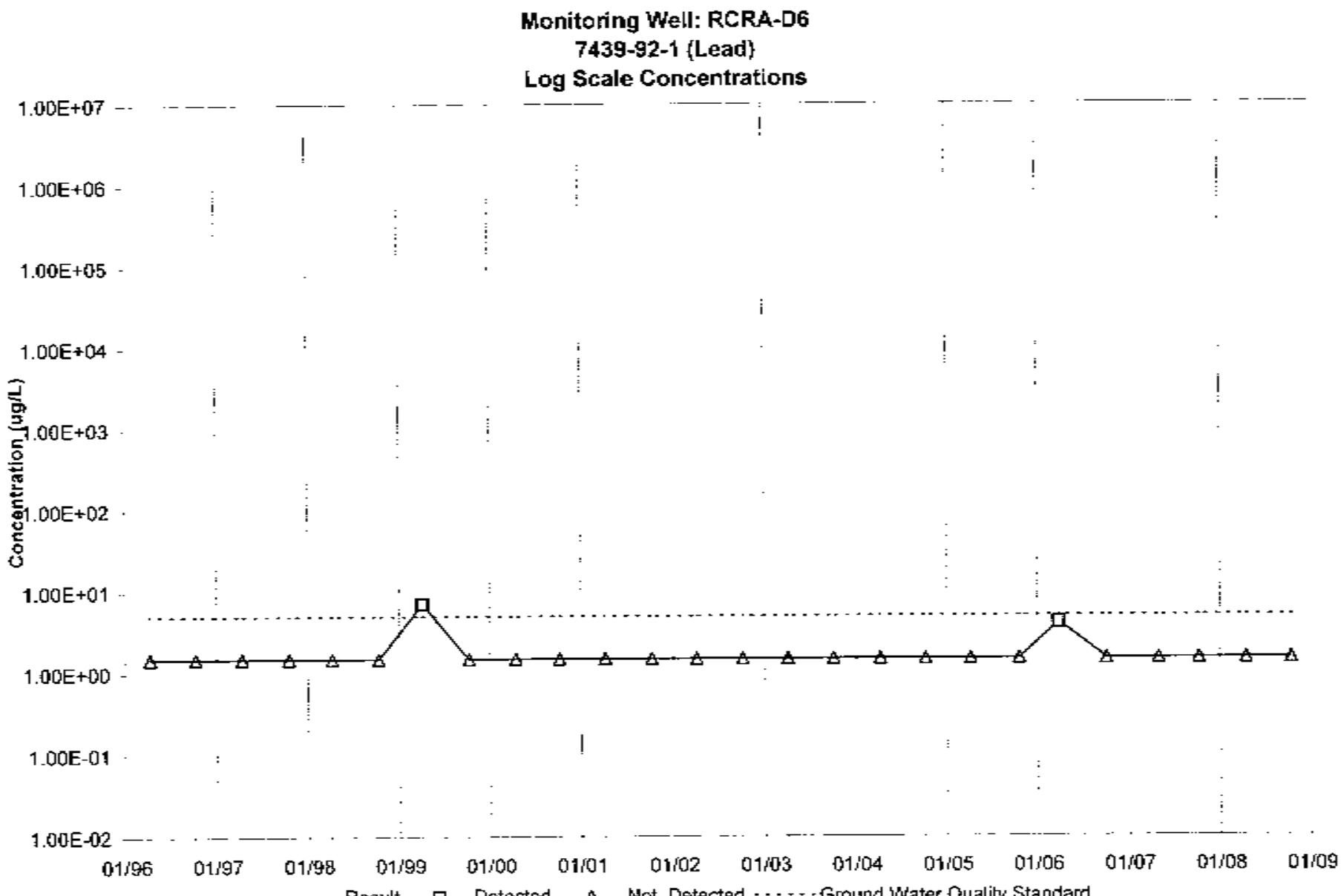

Monitoring Well: RCRA-D12
7439-92-1 (Lead)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

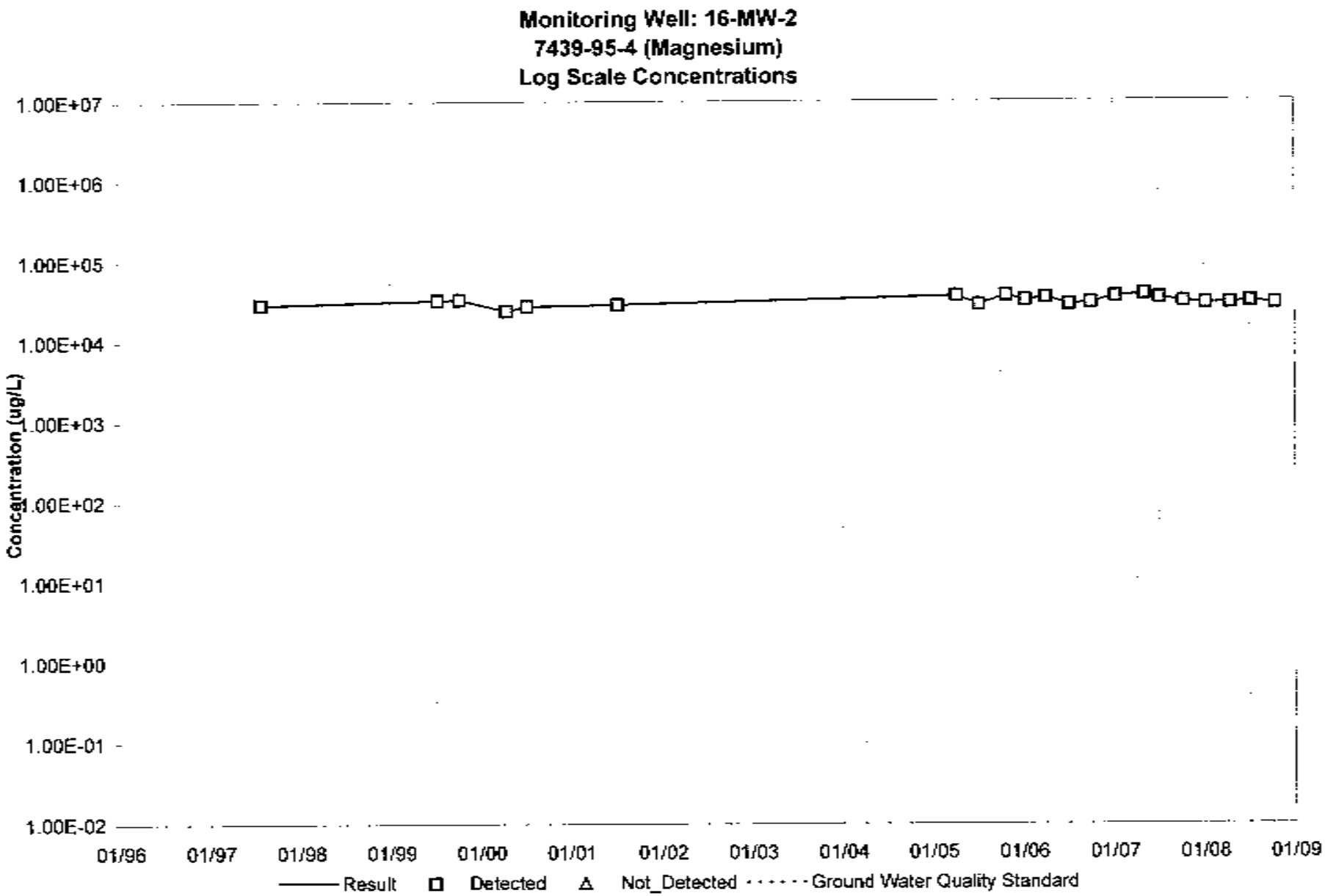

Monitoring Well: RCRA-D13
7439-92-1 (Lead)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

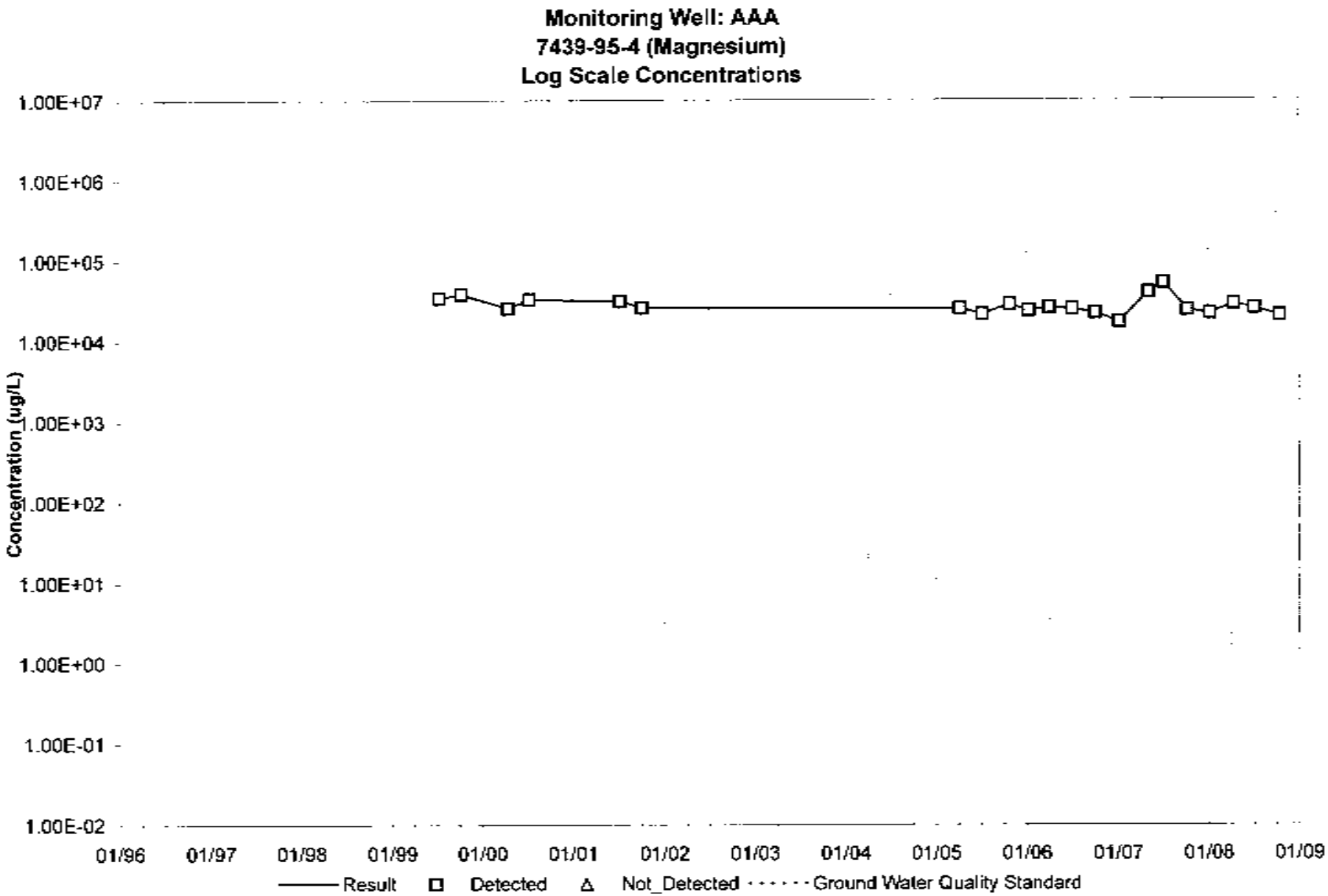

Monitoring Well: RCRA-D3
7439-92-1 (Lead)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

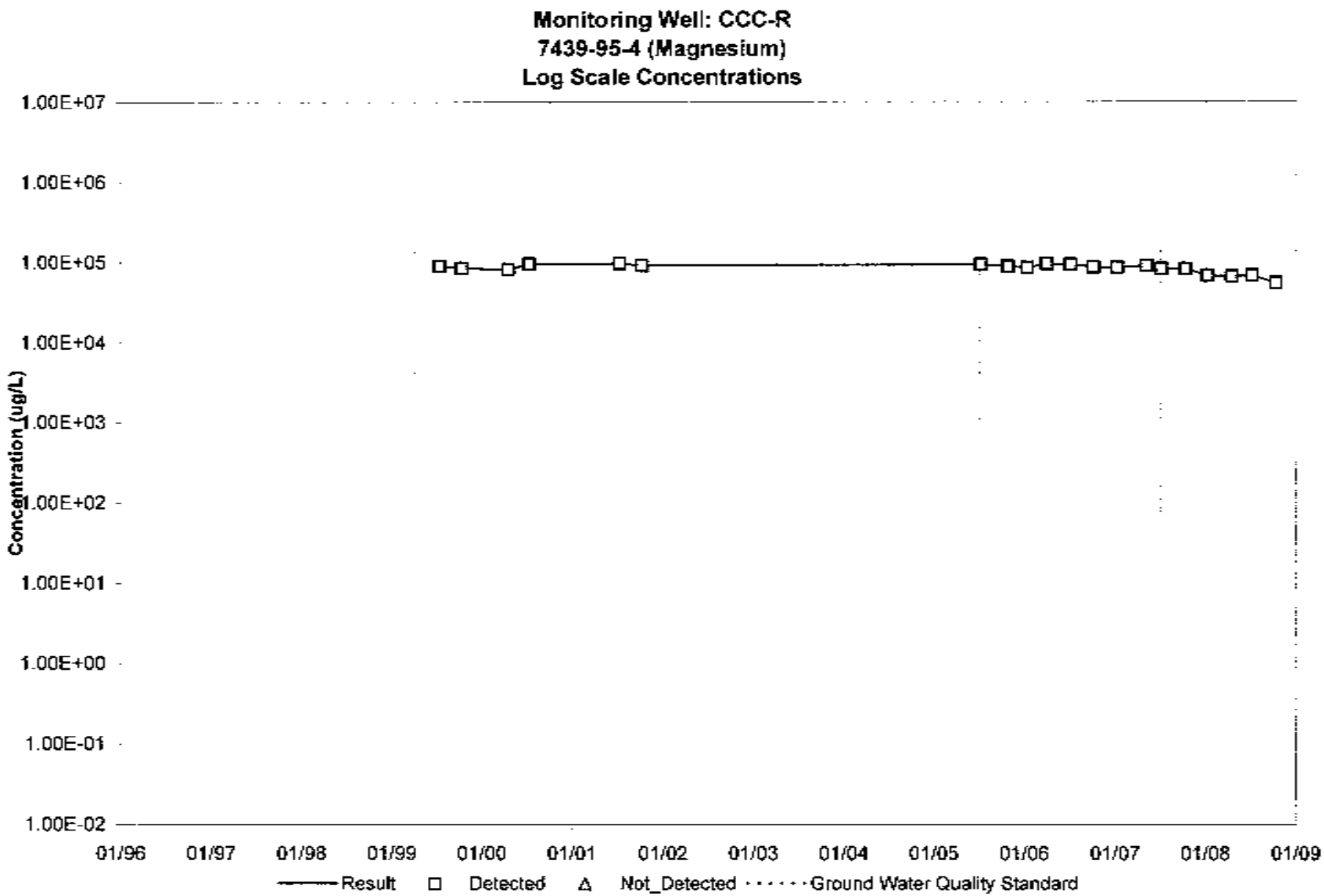

Monitoring Well: RCRA-D4
7439-92-1 (Lead)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

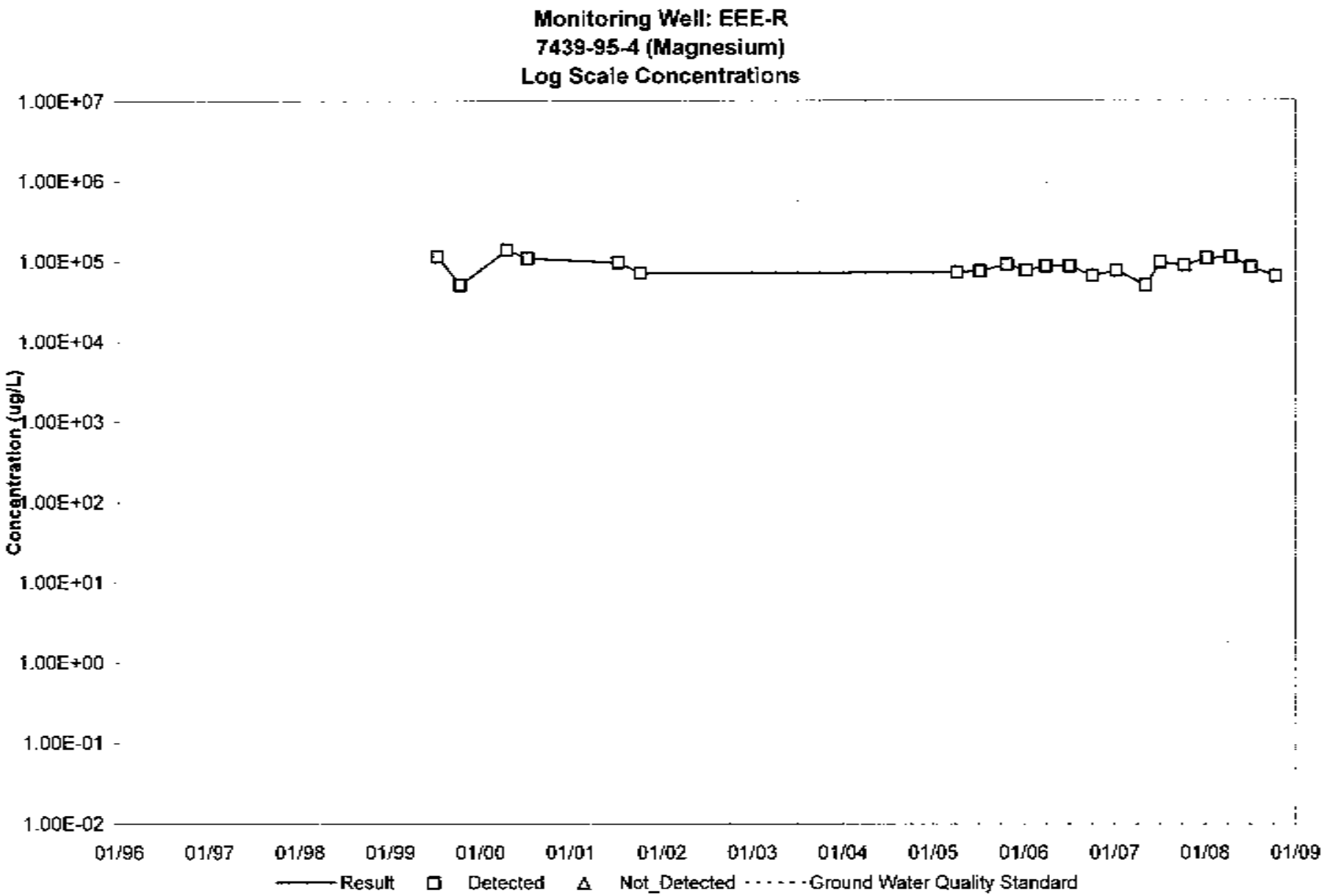

Monitoring Well: RCRA-D5
7439-92-1 (Lead)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

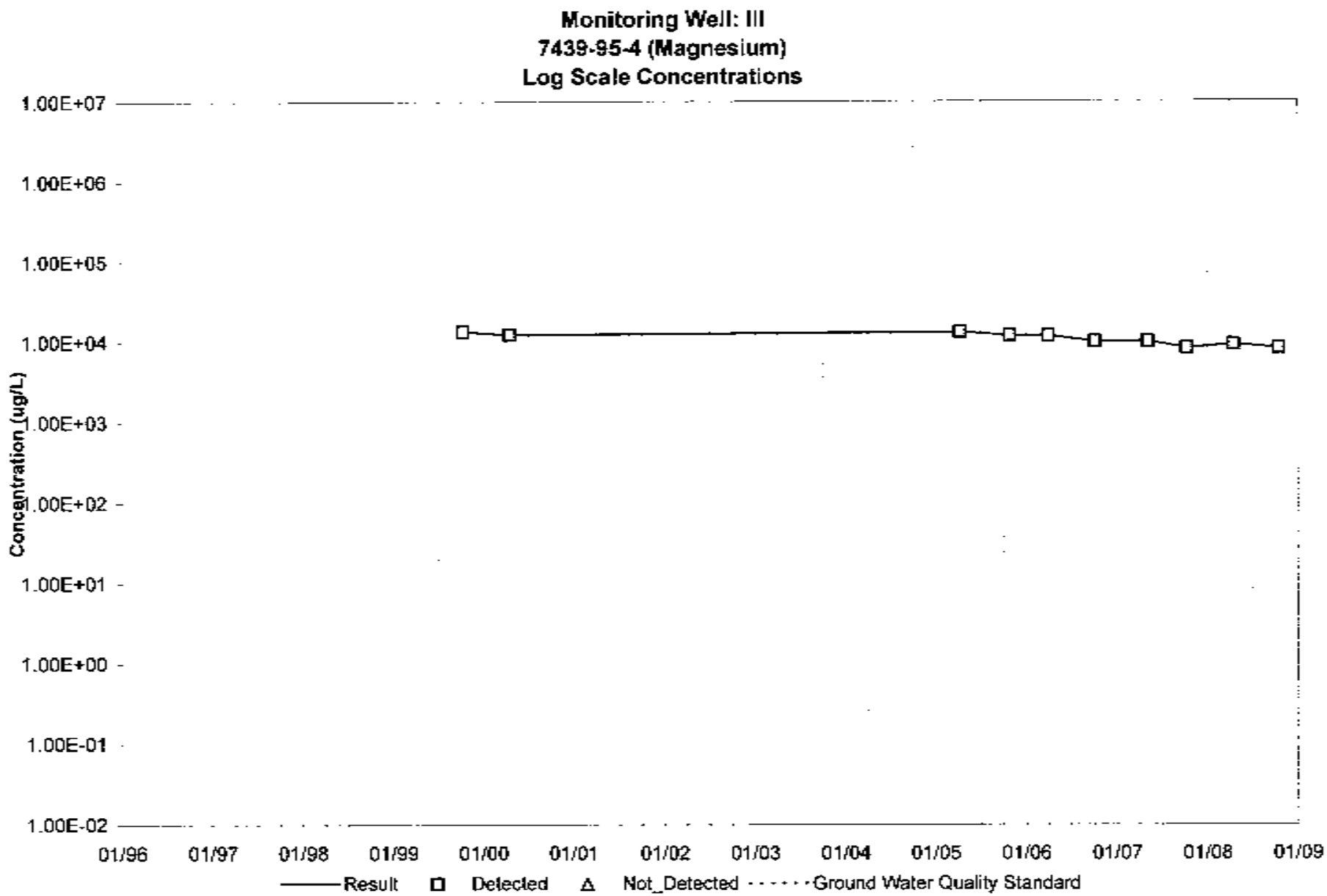

Monitoring Well: RCRA-D6
7439-92-1 (Lead)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

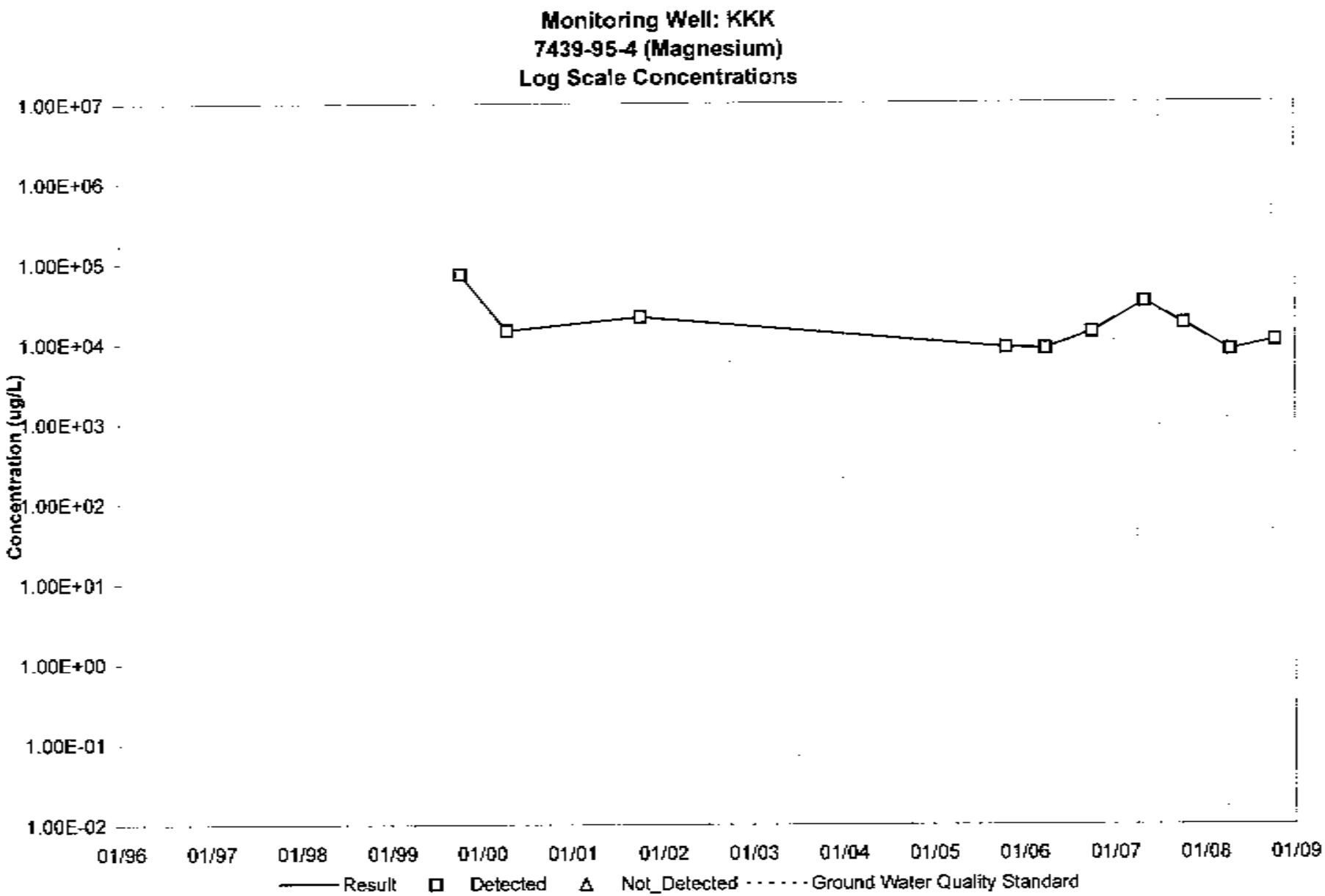

Monitoring Well: 16-MW-2
7439-95-4 (Magnesium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

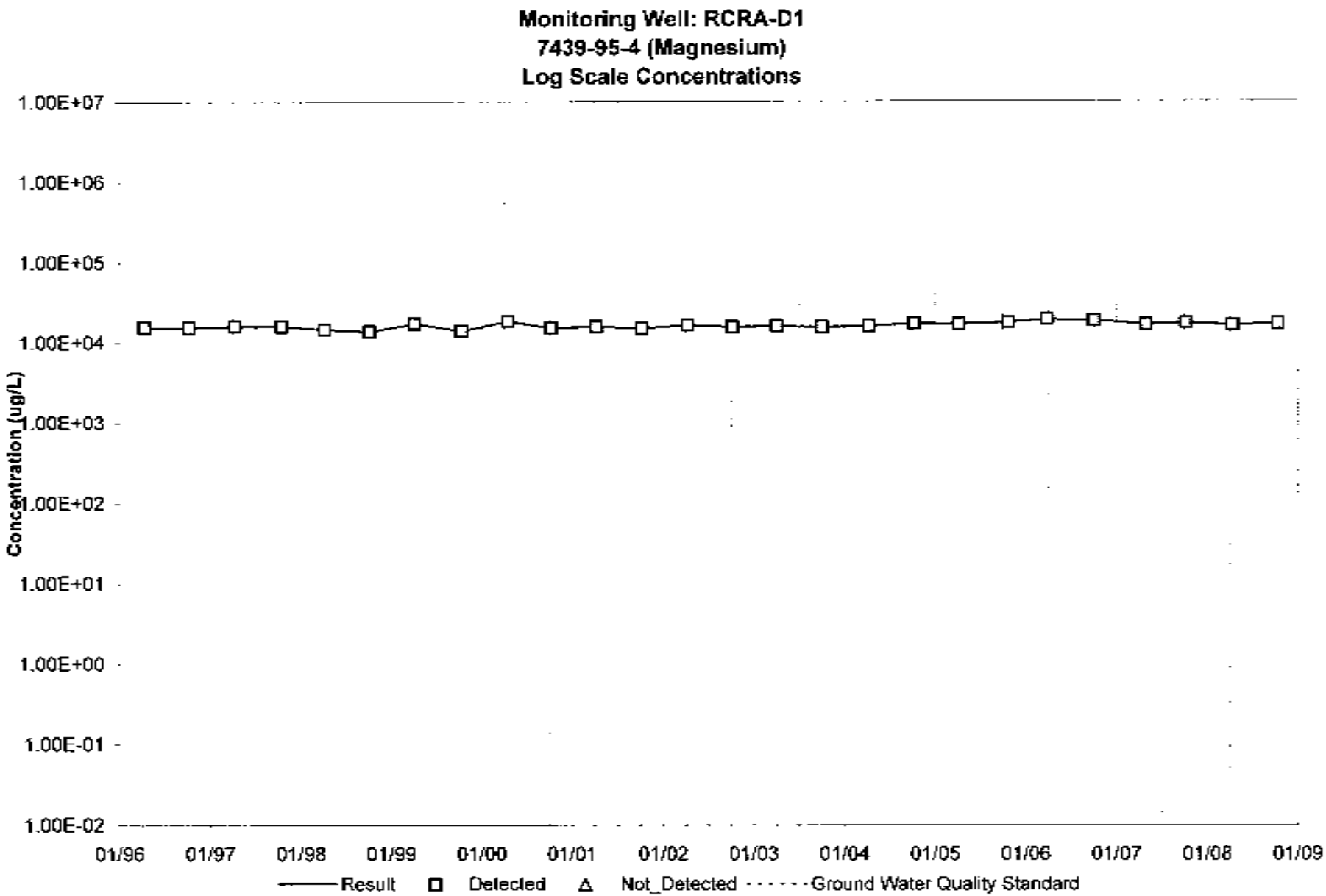

Monitoring Well: AAA
7439-95-4 (Magnesium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

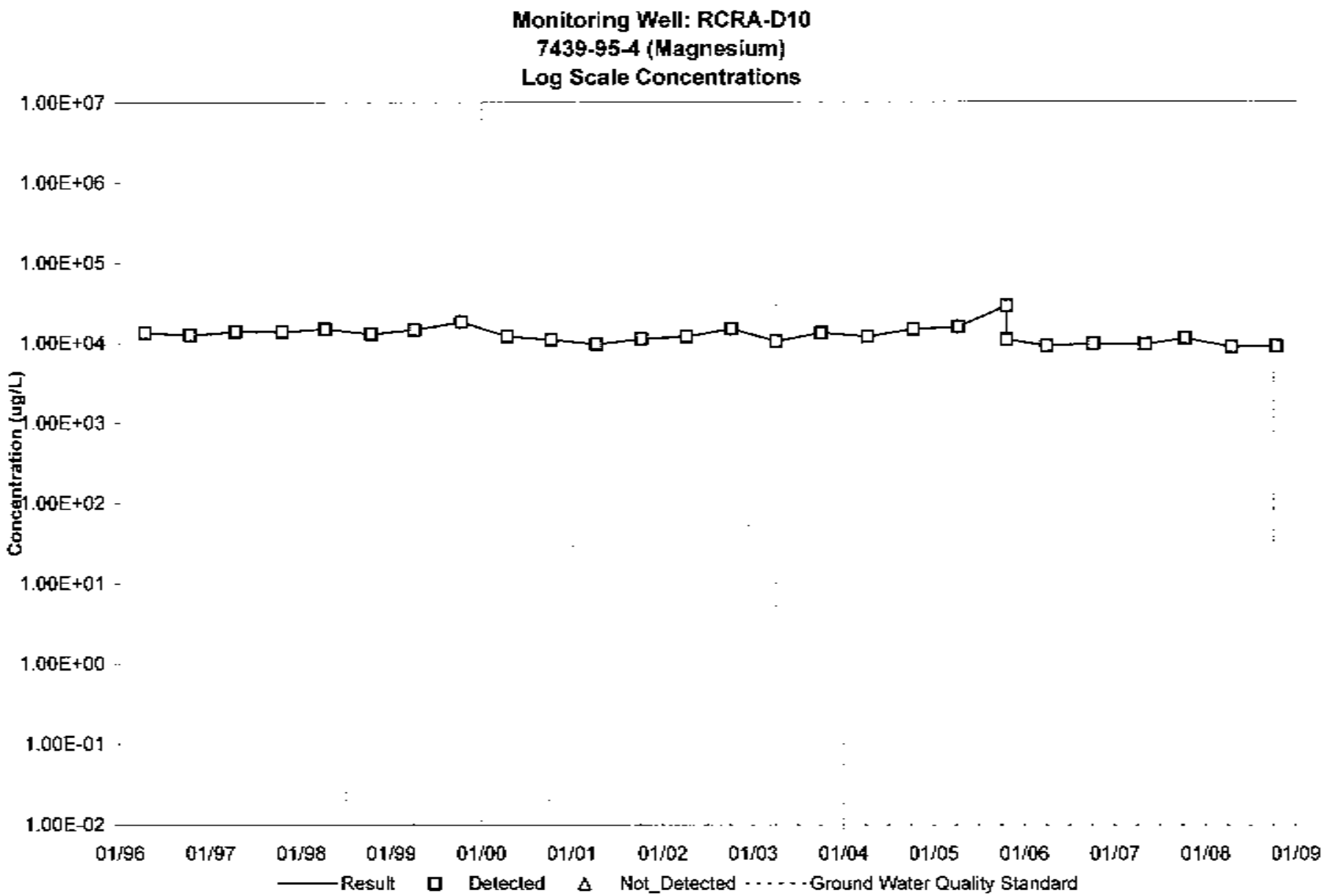

Monitoring Well: CCC-R
7439-95-4 (Magnesium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

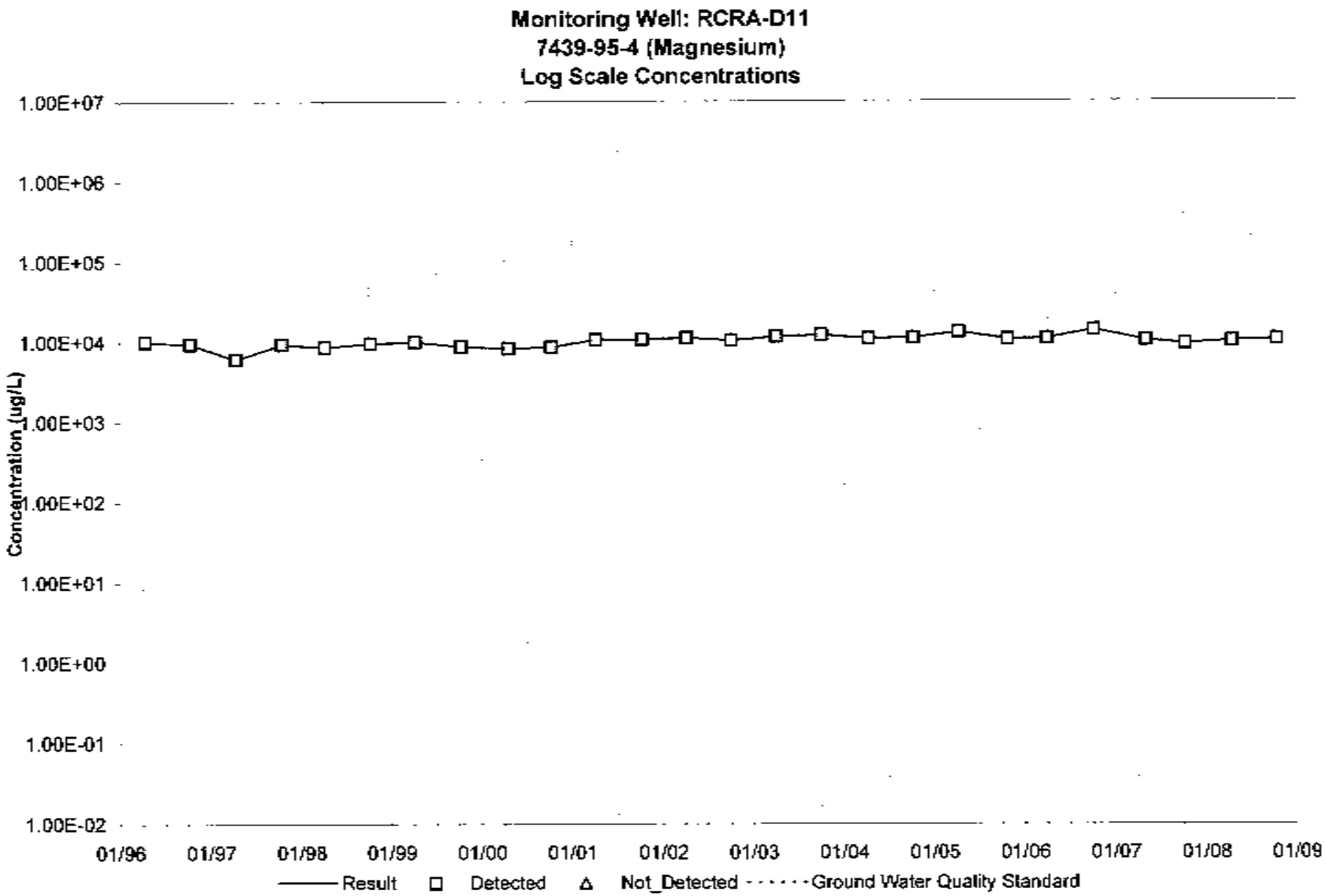

Monitoring Well: EEE-R
7439-95-4 (Magnesium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

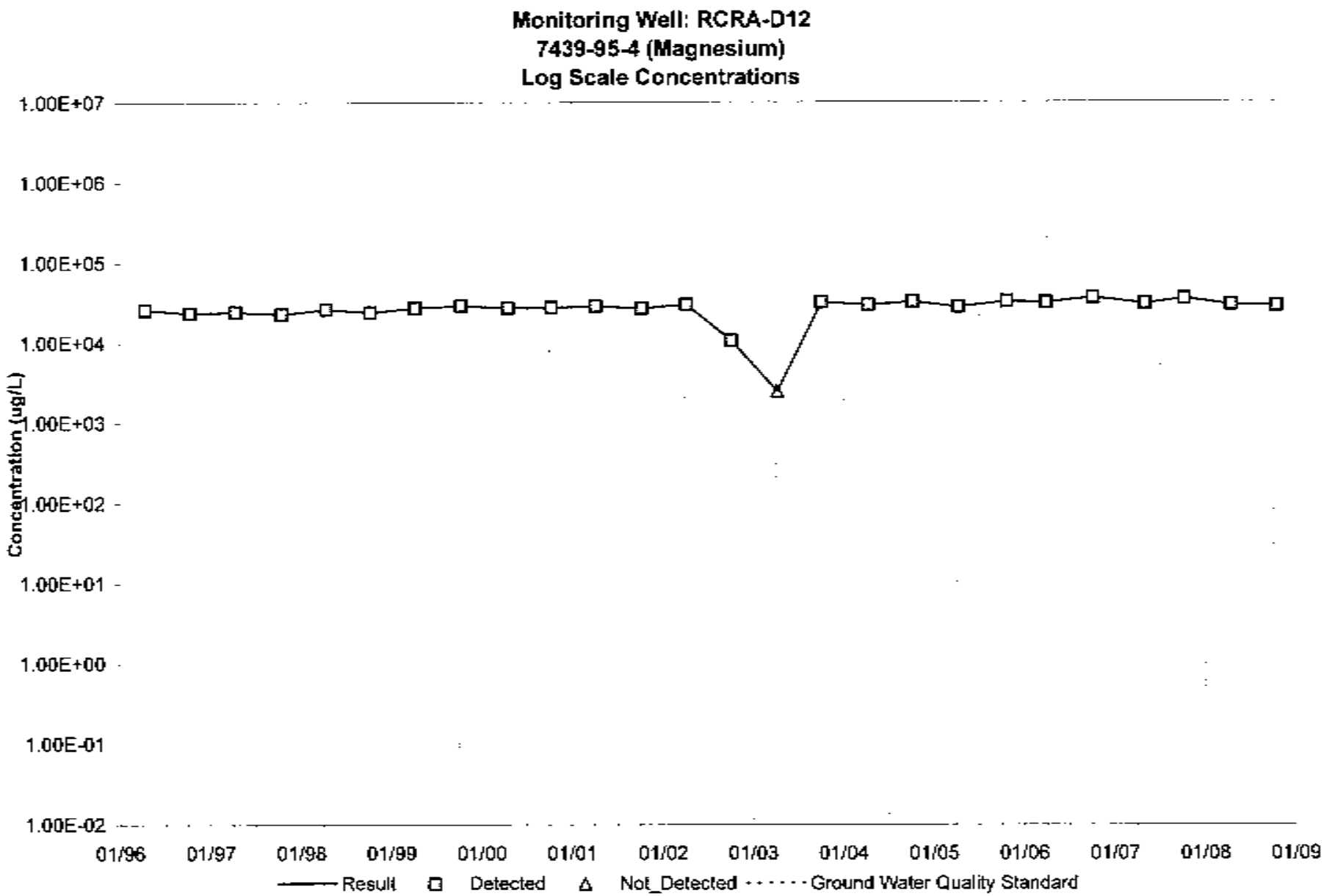

Monitoring Well: III
7439-95-4 (Magnesium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

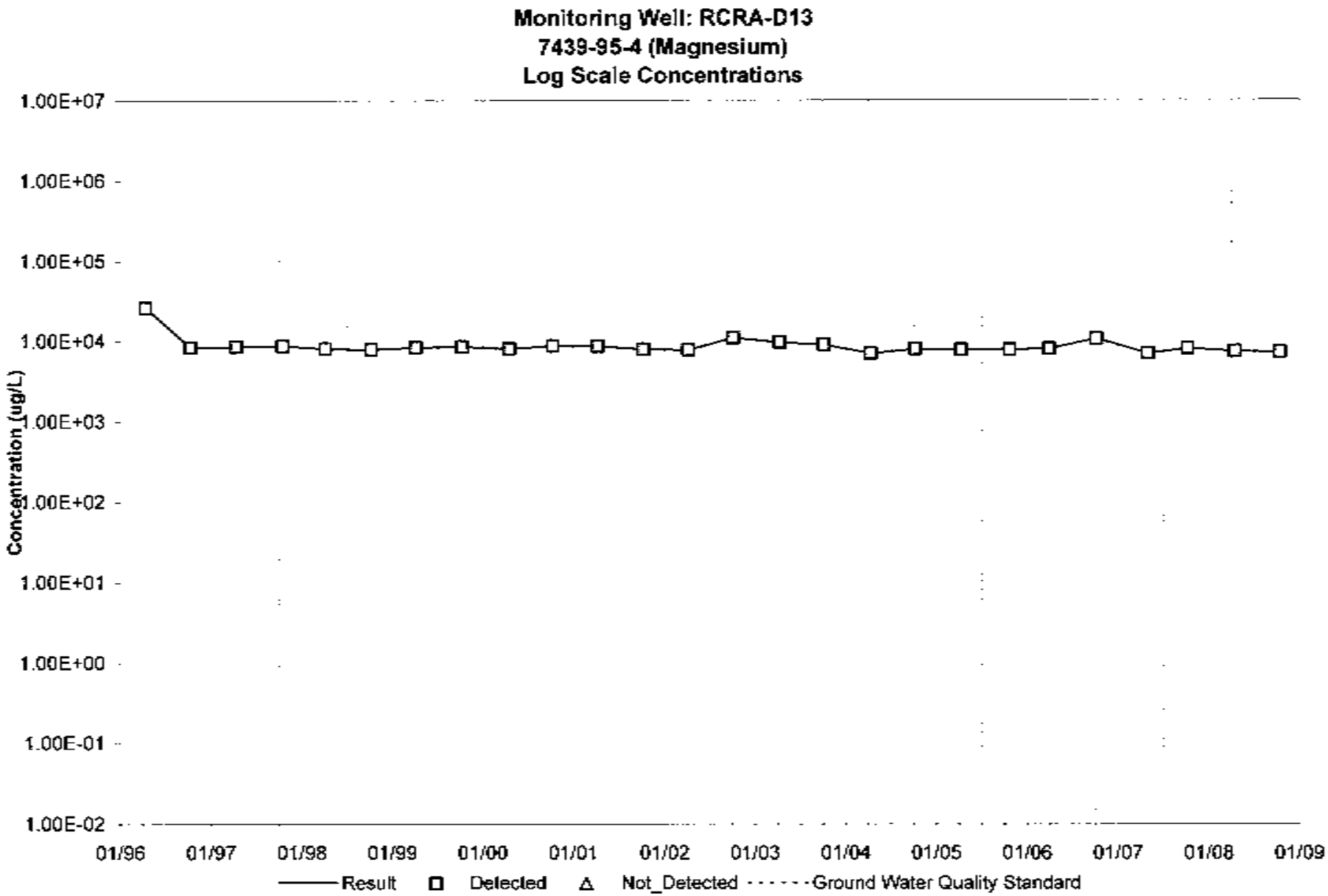

Monitoring Well: KKK
7439-95-4 (Magnesium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

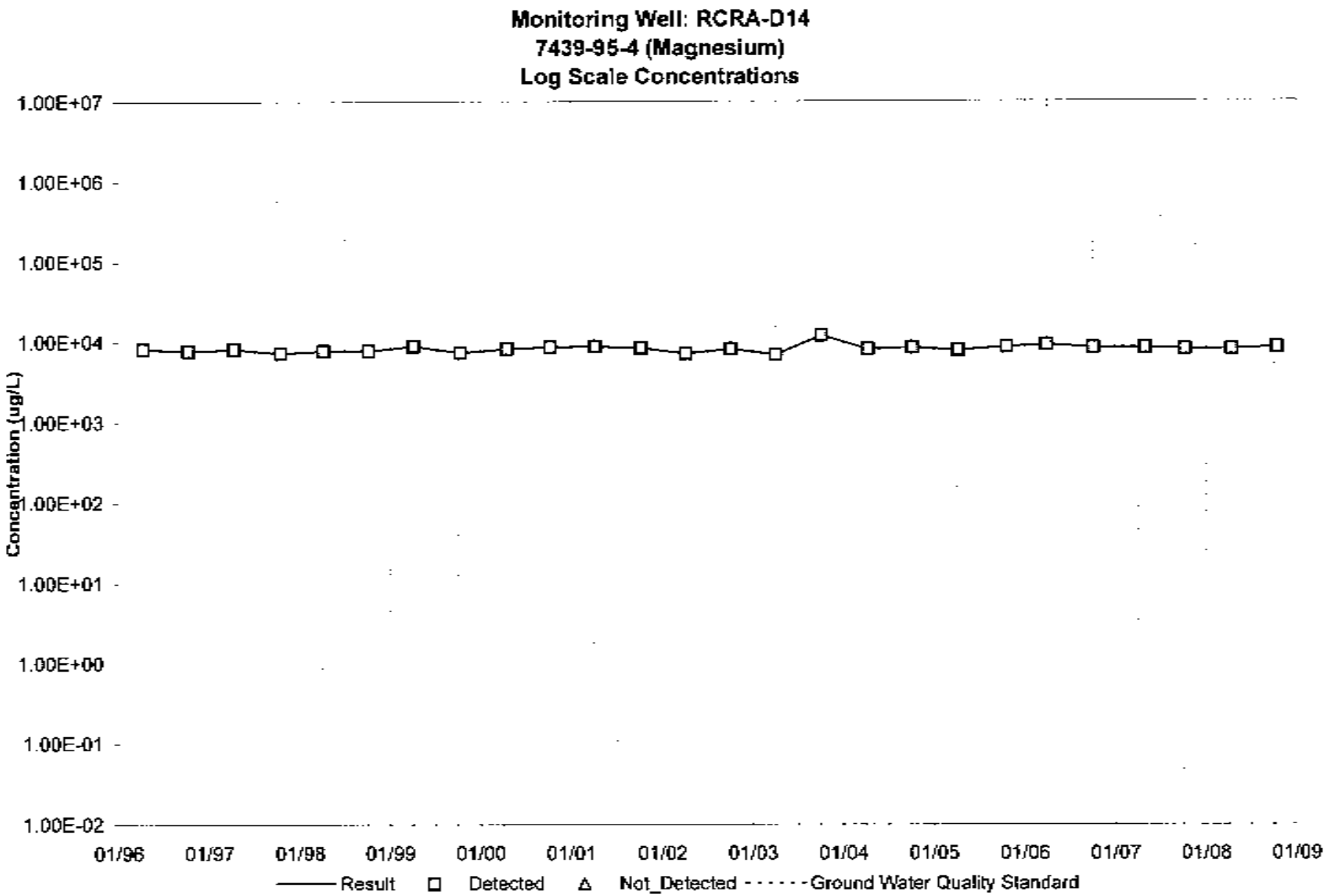

Monitoring Well: RCRA-D1
7439-95-4 (Magnesium)
Log Scale Concentrations
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
Concentration (ug/L)
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

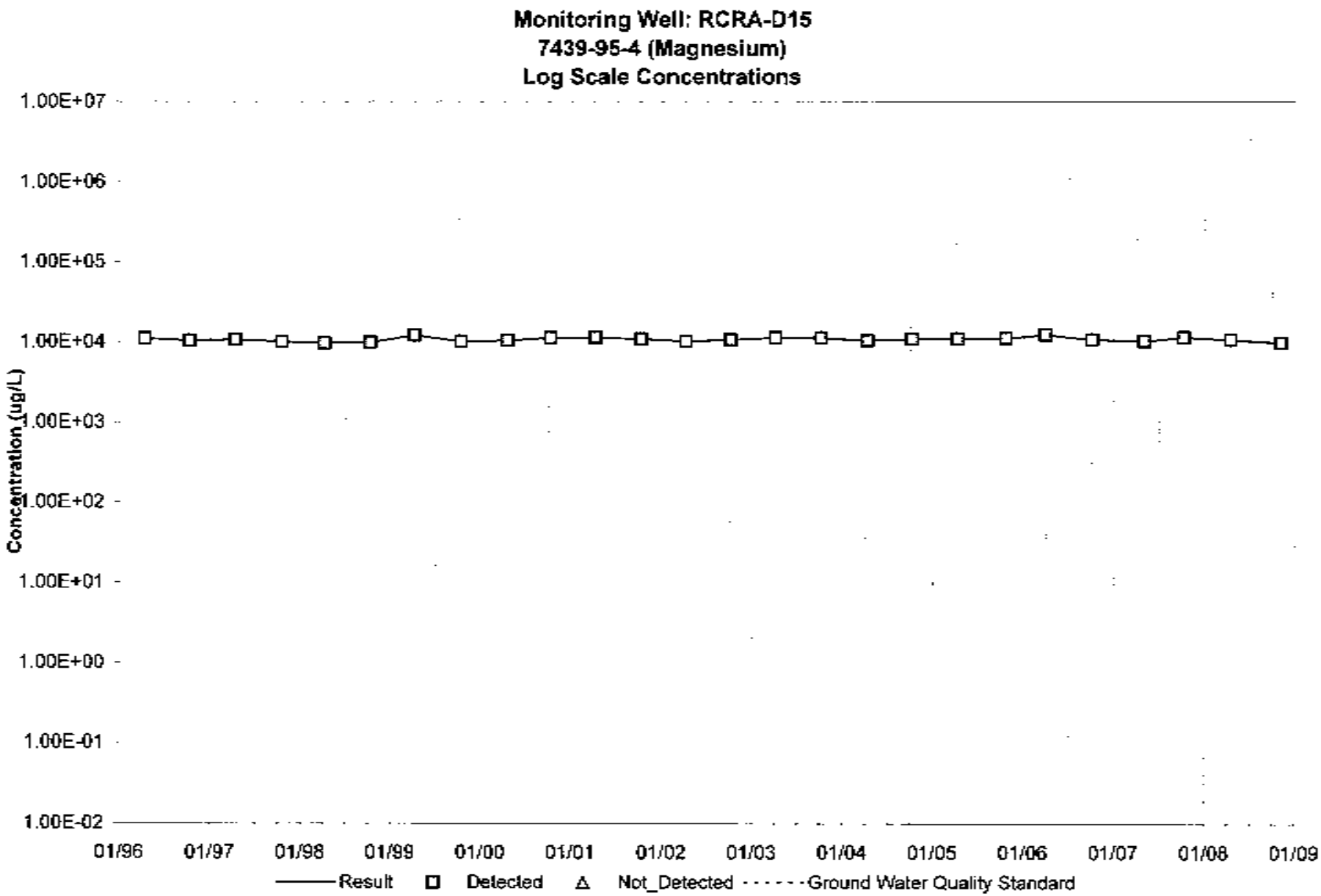

Monitoring Well: RCRA-D10
7439-95-4 (Magnesium)
Log Scale Concentrations
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
Concentration (ug/L)
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

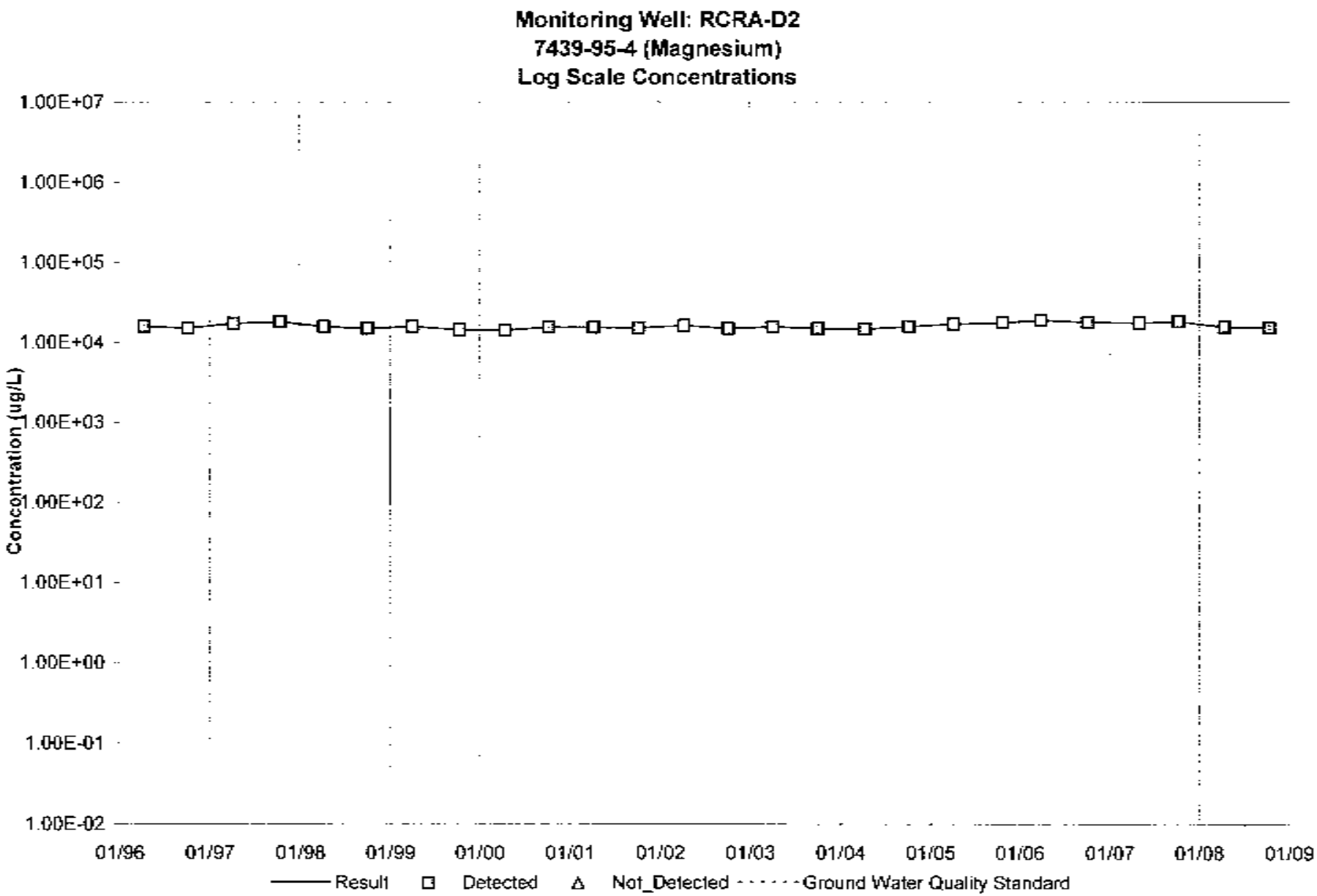

Monitoring Well: RCRA-D11
7439-95-4 (Magnesium)
Log Scale Concentrations
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
Concentration (ug/L)
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

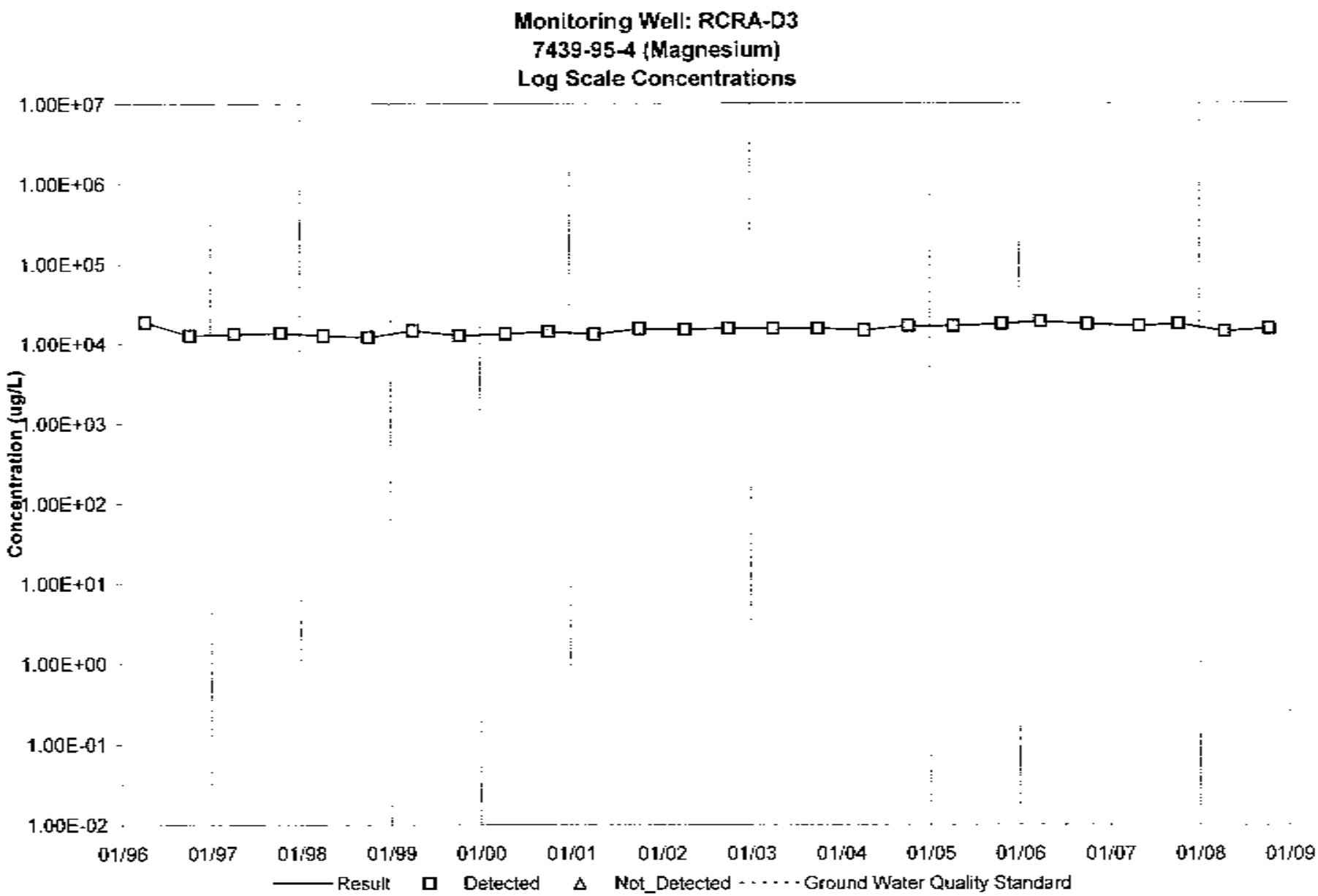

Monitoring Well: RCRA-D12
7439-95-4 (Magnesium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

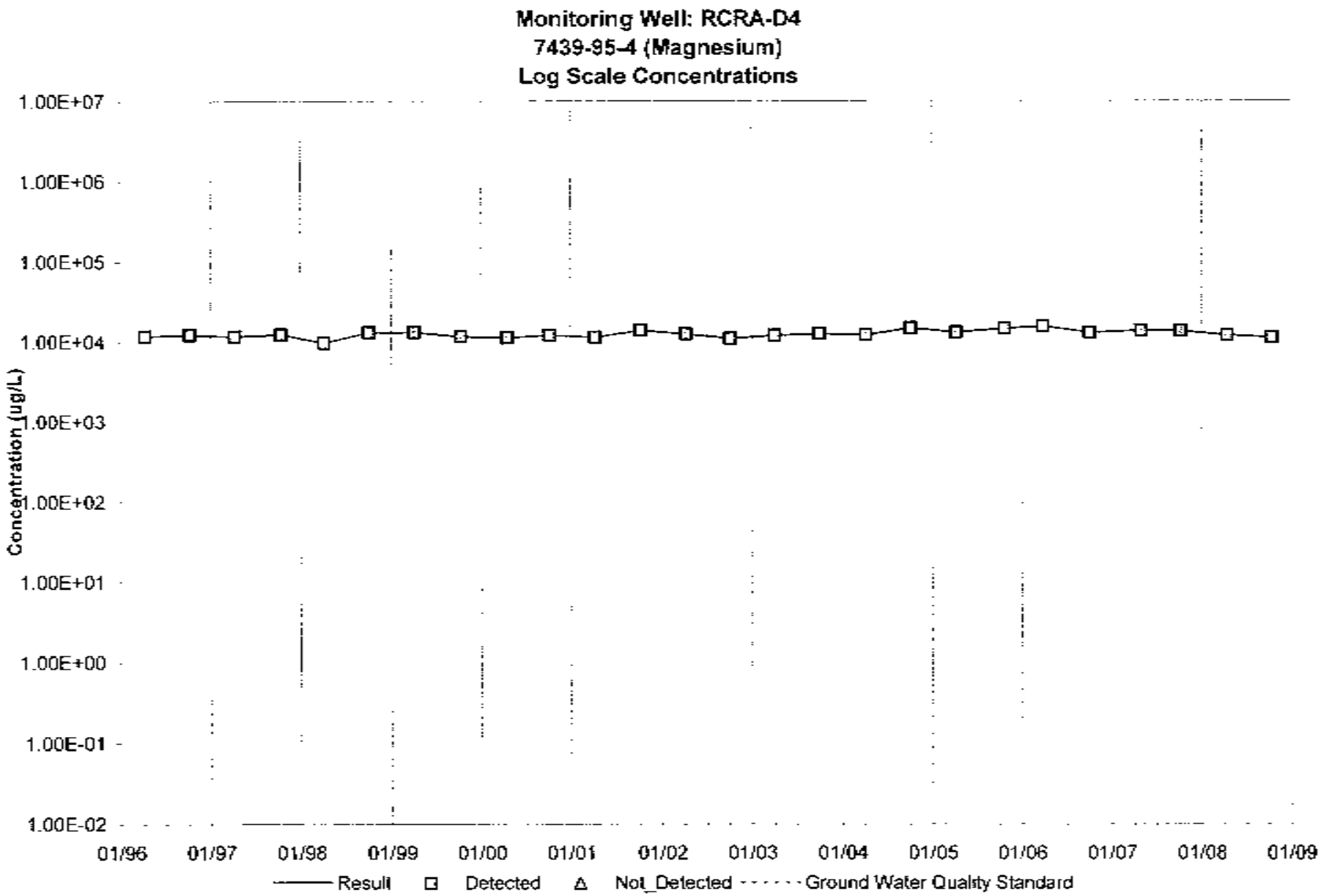

Monitoring Well: RCRA-D13
7439-95-4 (Magnesium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

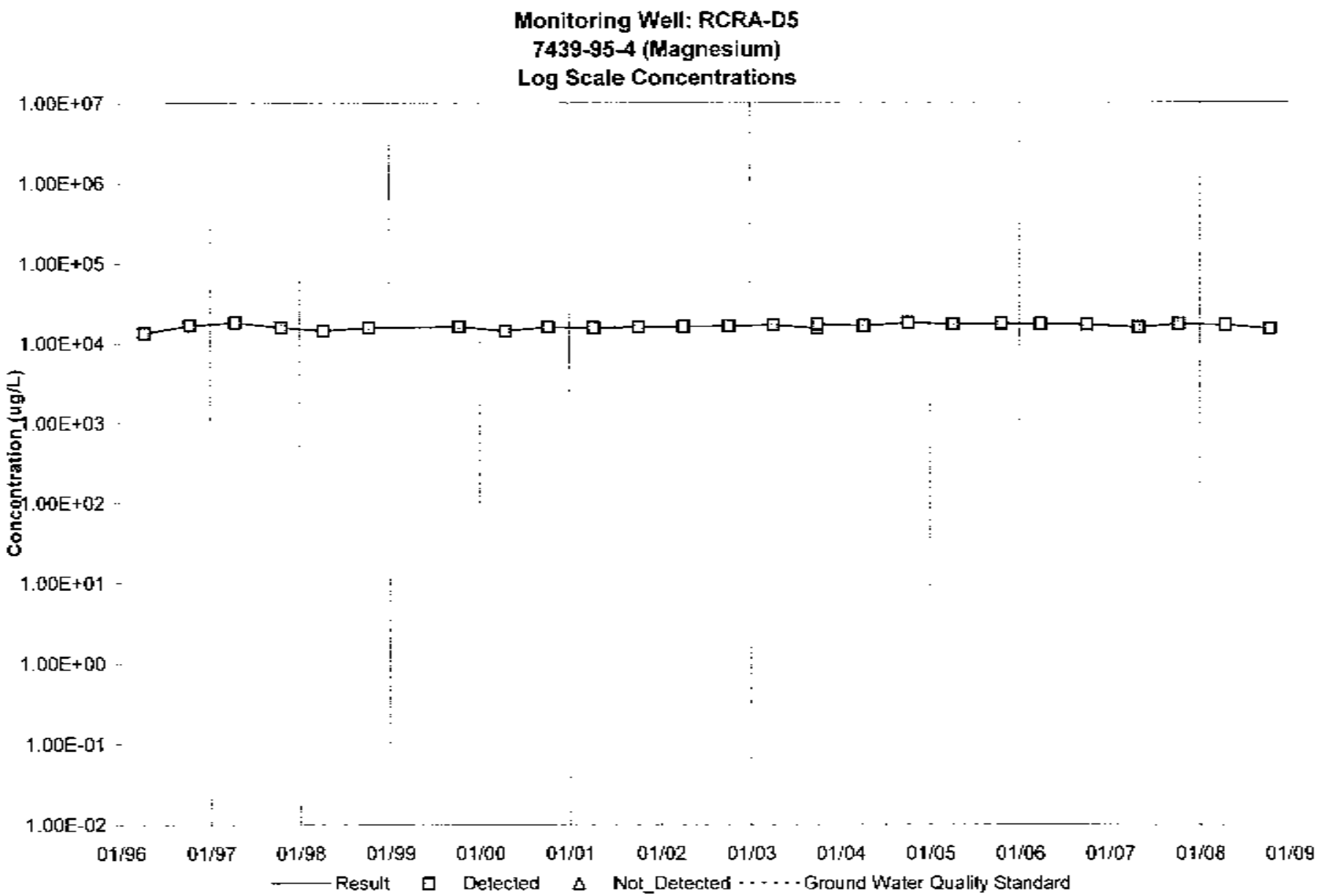

Monitoring Well: RCRA-D14
7439-95-4 (Magnesium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

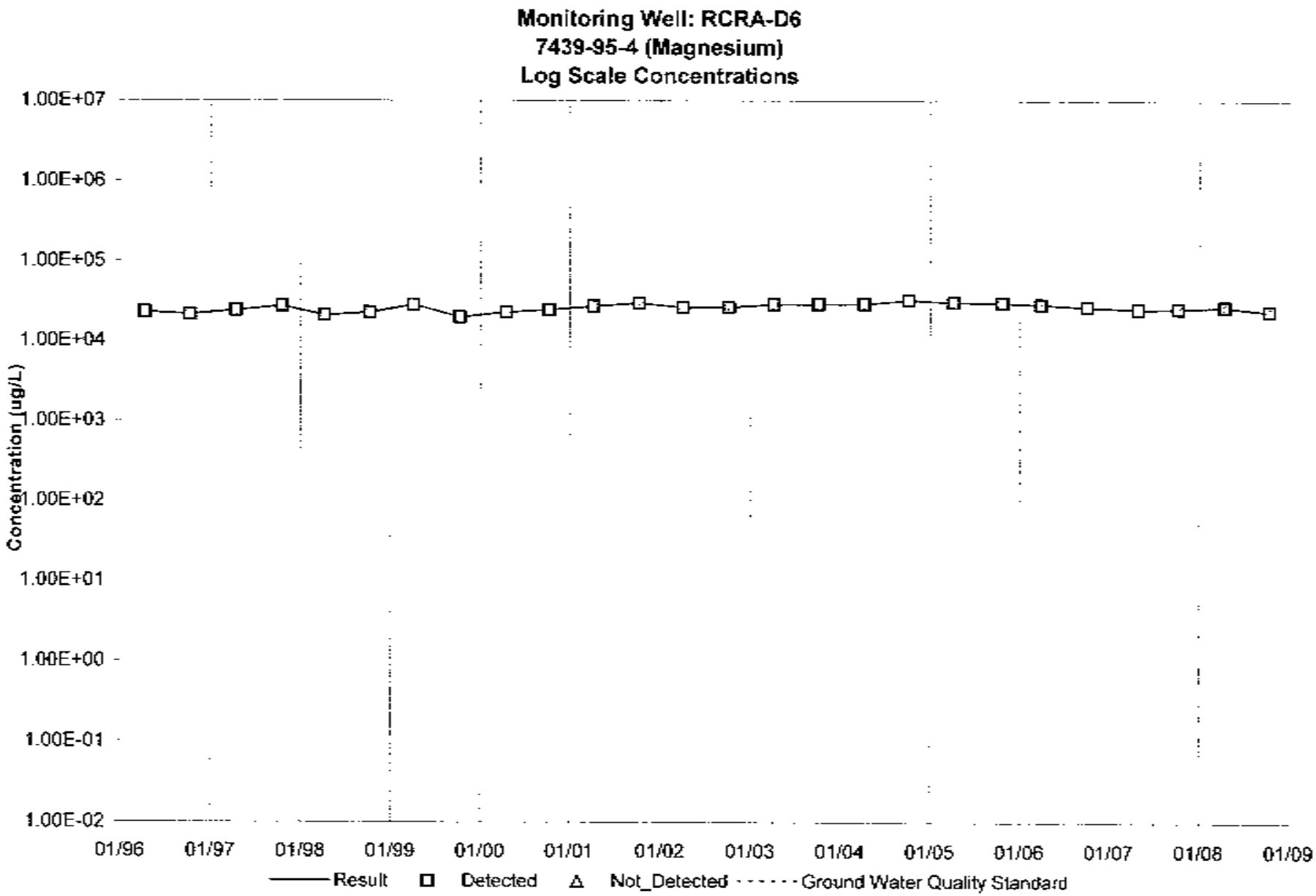

Monitoring Well: RCRA-D15
7439-95-4 (Magnesium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

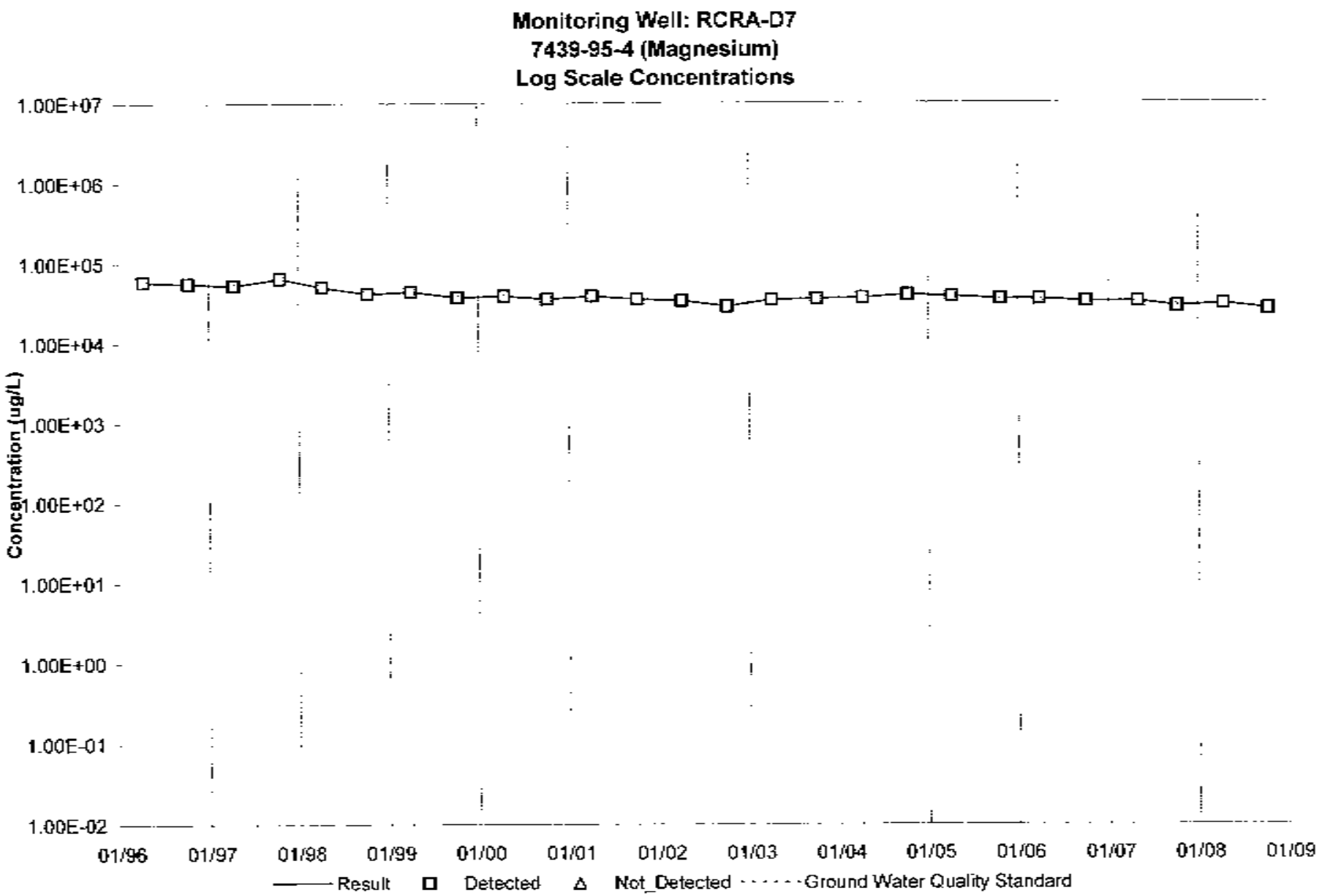

Monitoring Well: RCRA-D2
7439-95-4 (Magnesium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

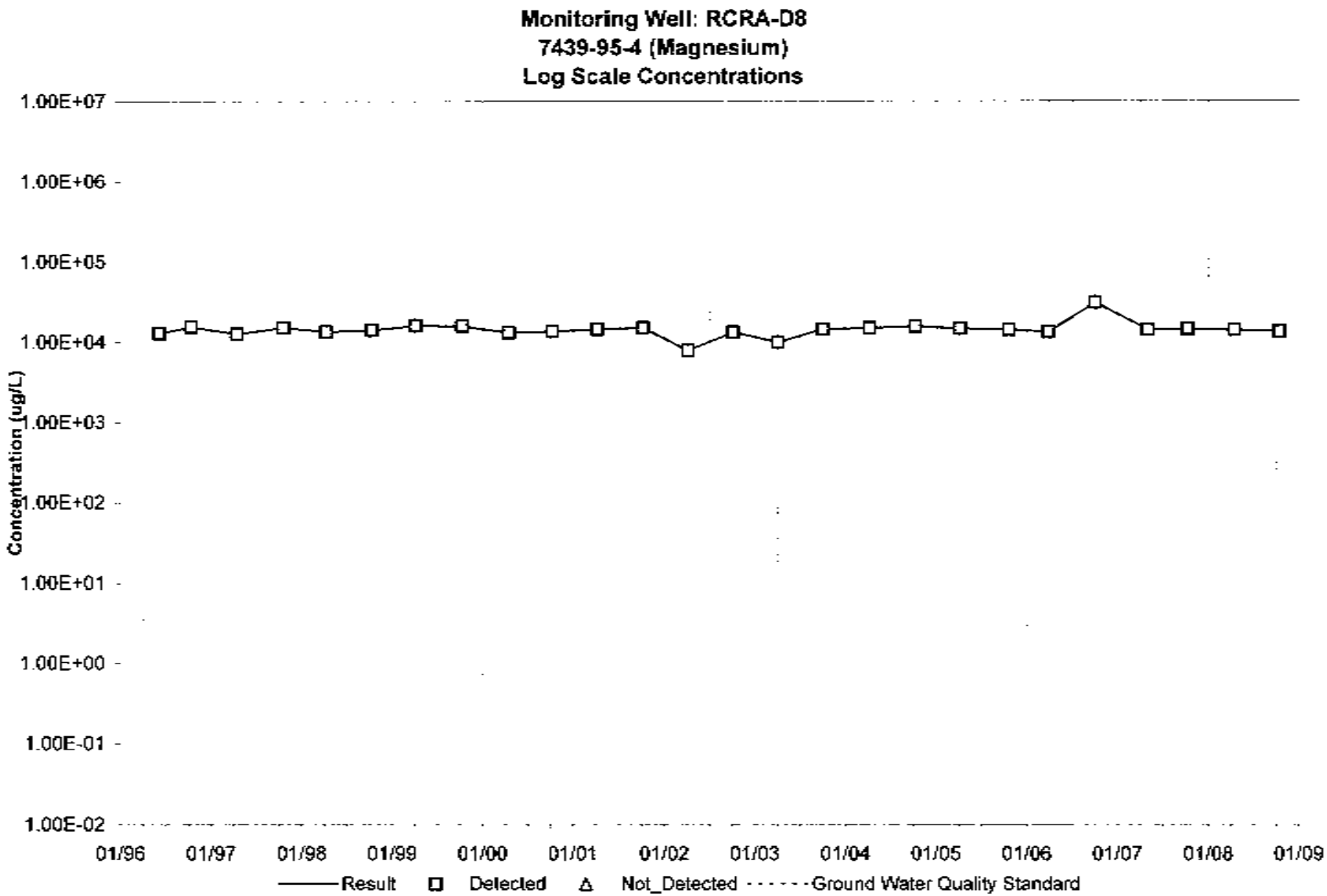

Monitoring Well: RCRA-D3
7439-95-4 (Magnesium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

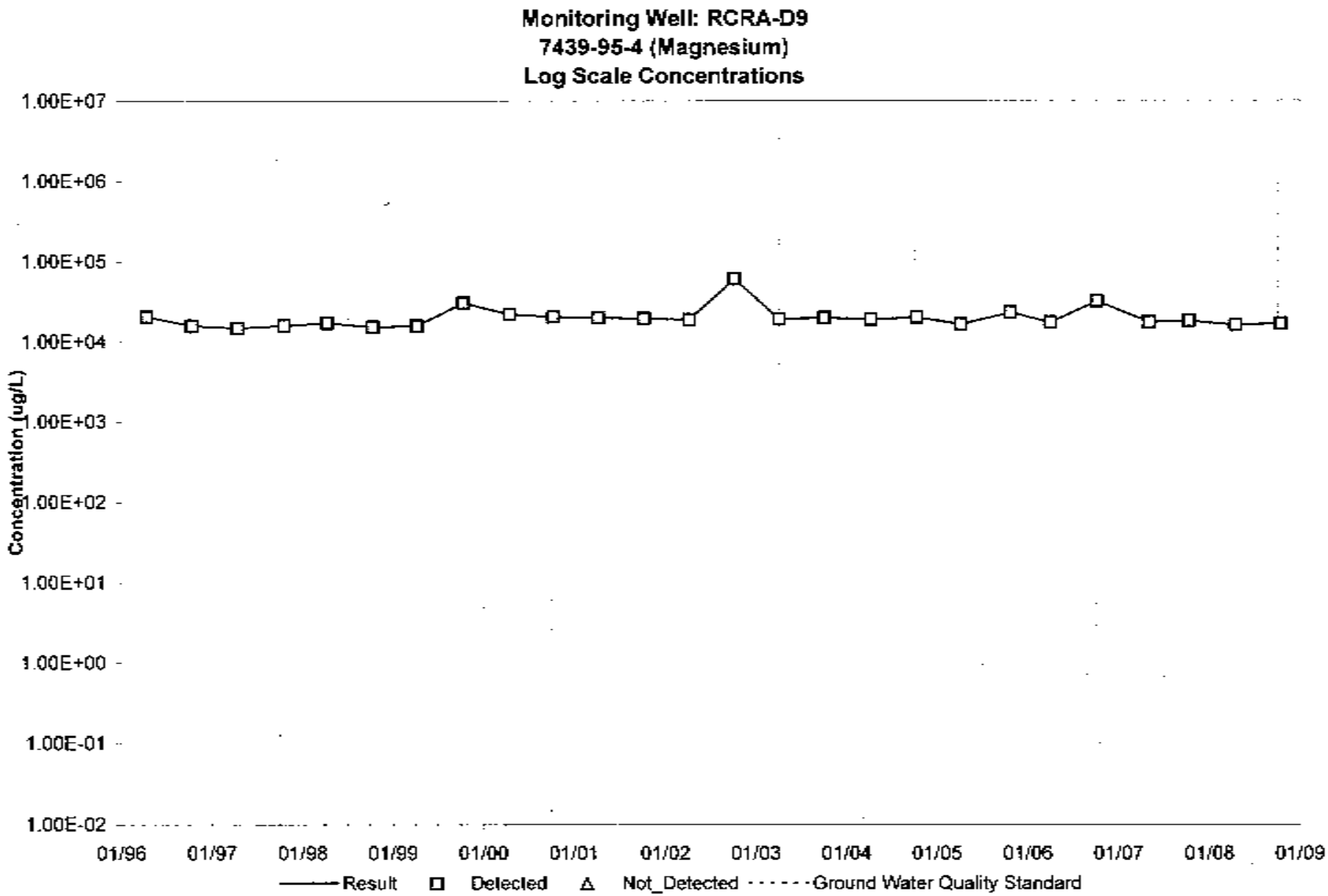

Monitoring Well: RCRA-D4
7439-95-4 (Magnesium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

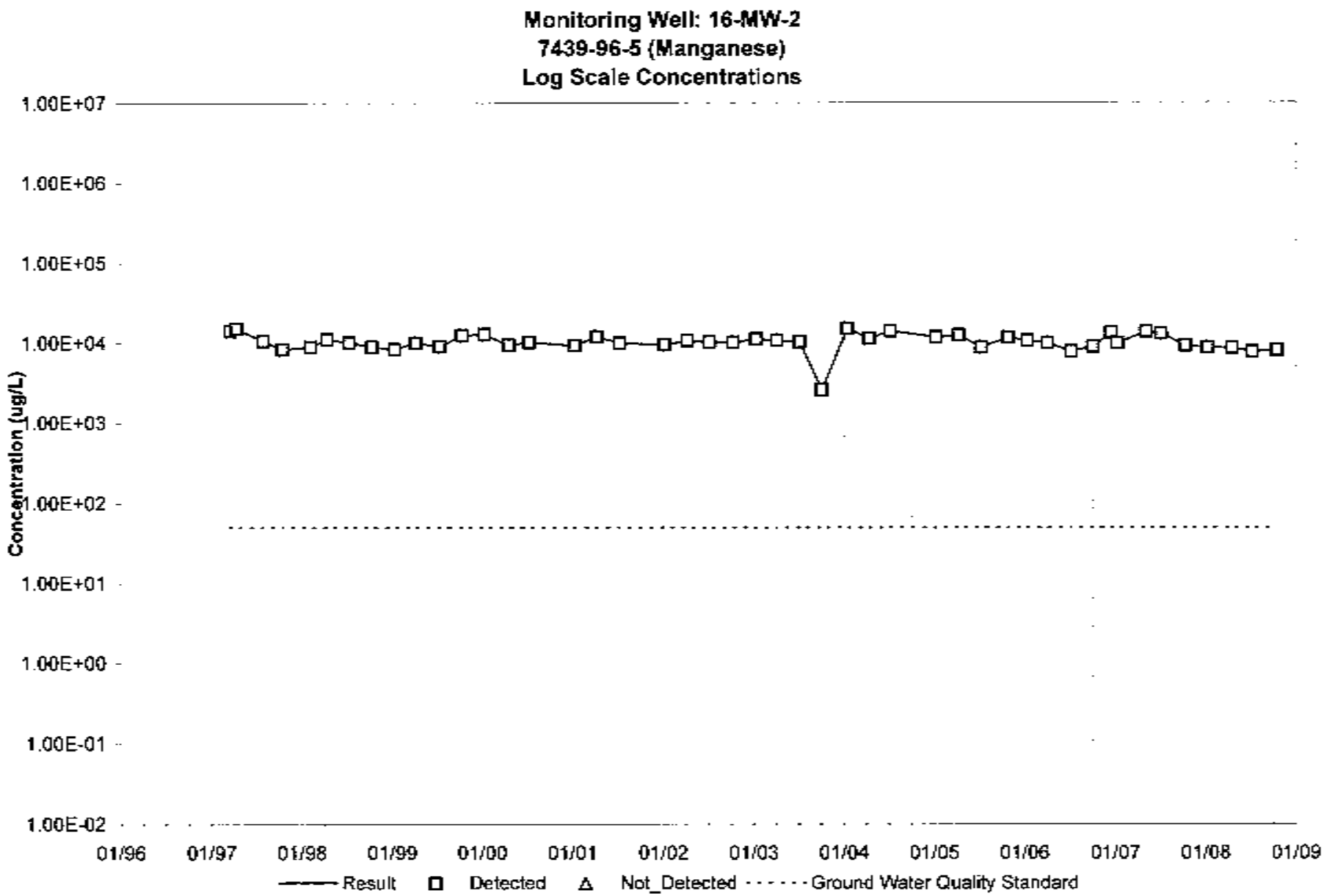

Monitoring Well: RCRA-D5
7439-95-4 (Magnesium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

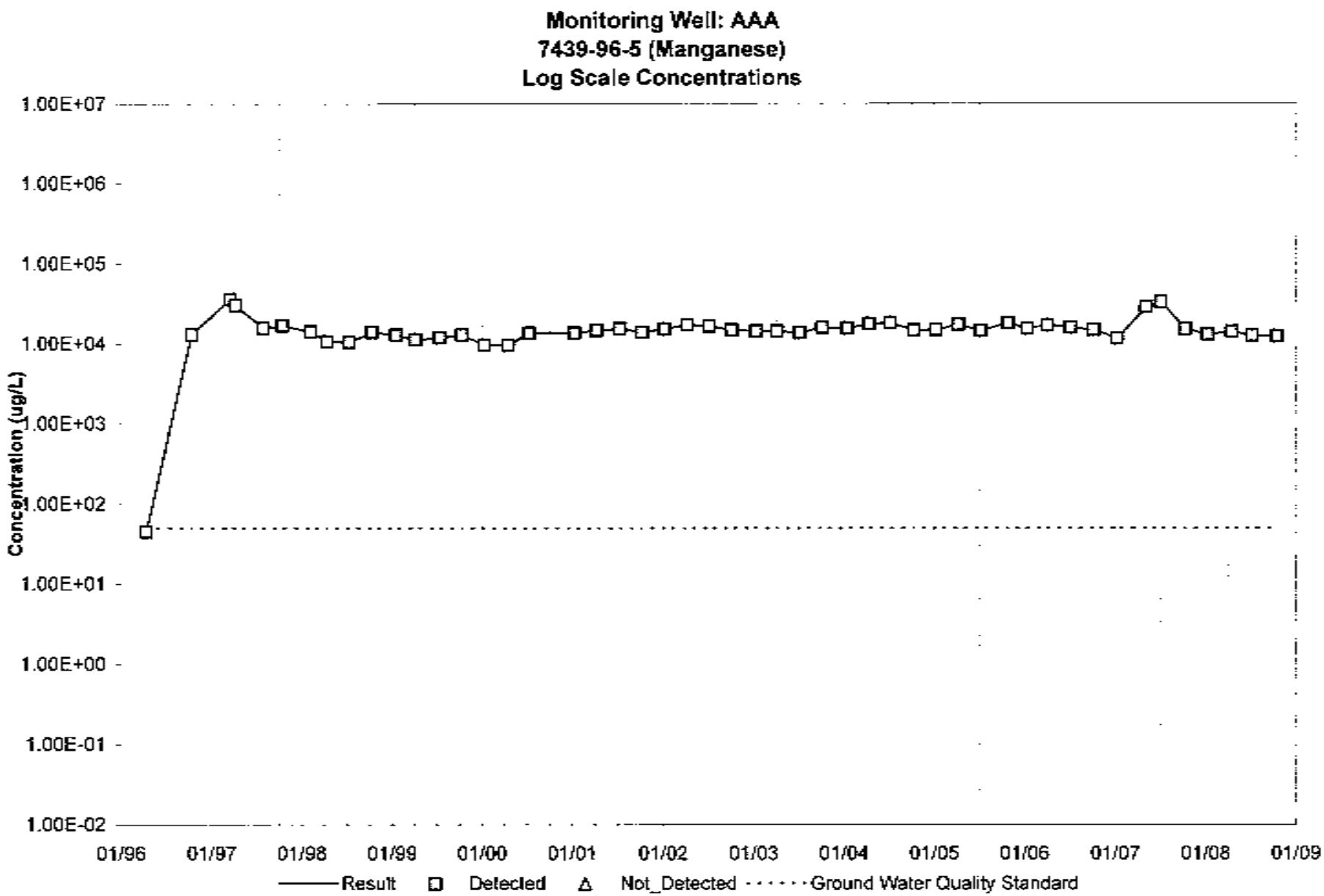

Monitoring Well: RCRA-D6
7439-95-4 (Magnesium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

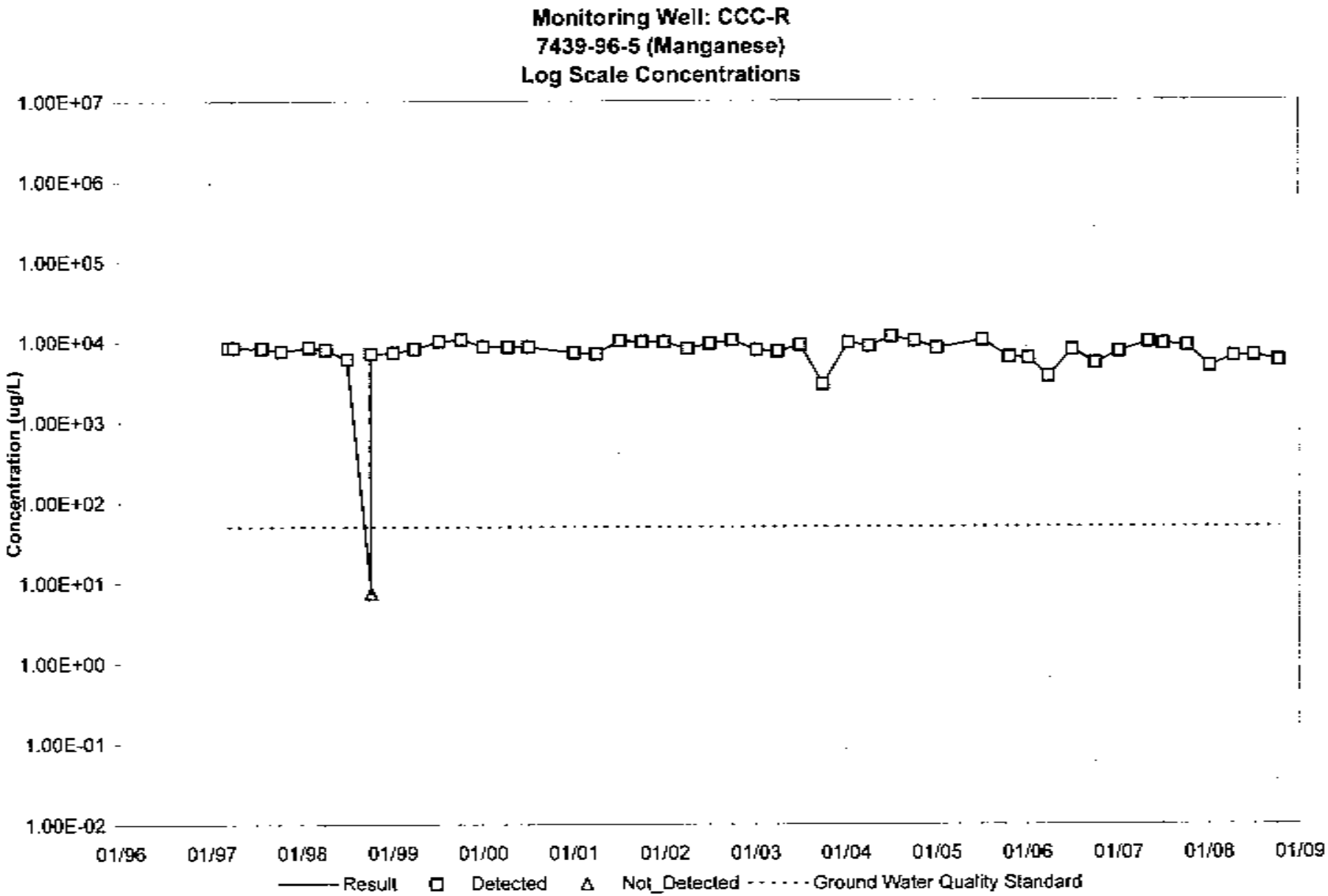

Monitoring Well: RCRA-D7
7439-95-4 (Magnesium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

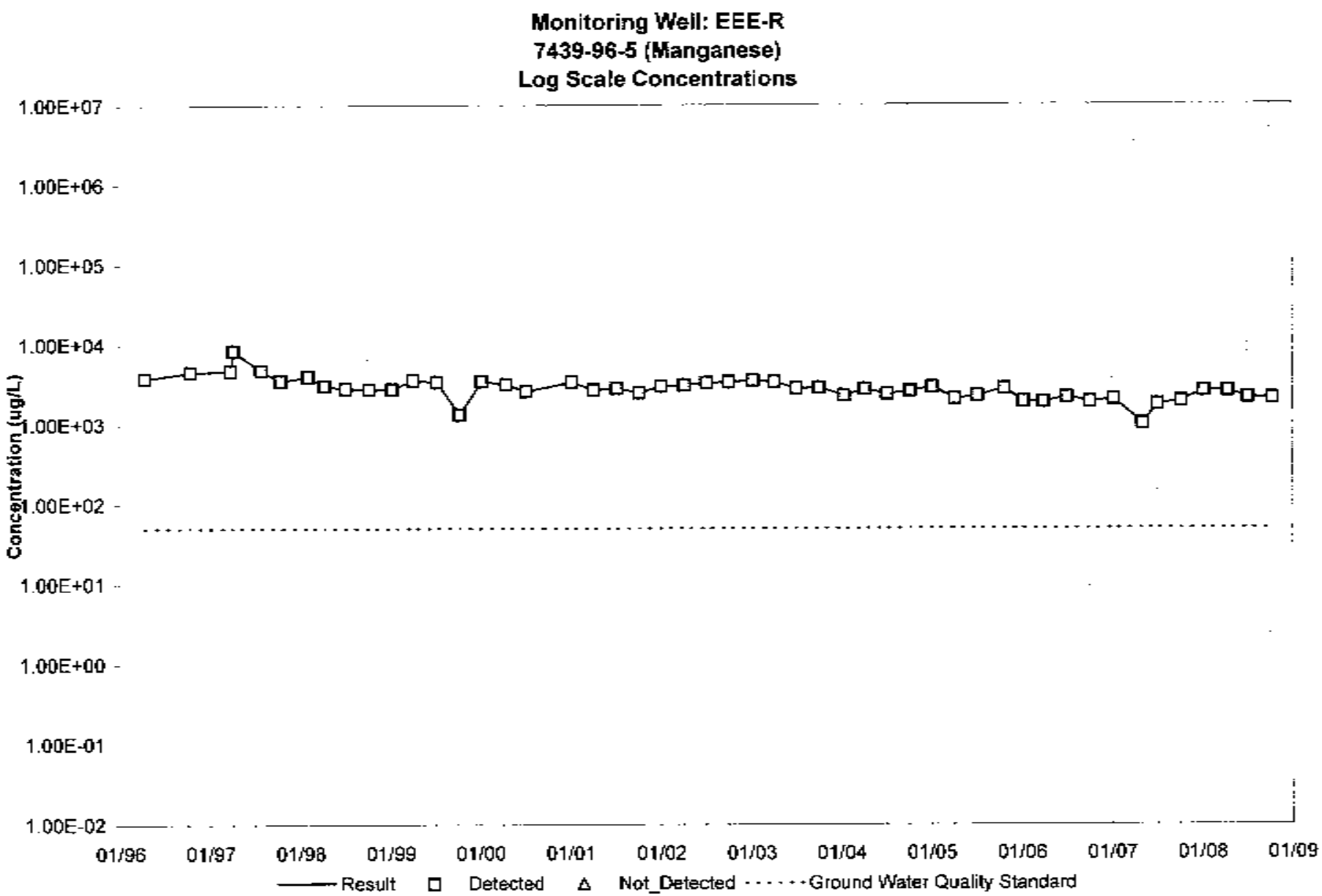

Monitoring Well: RCRA-D8
7439-95-4 (Magnesium)
Log Scale Concentrations
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
Concentration (ug/L)
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

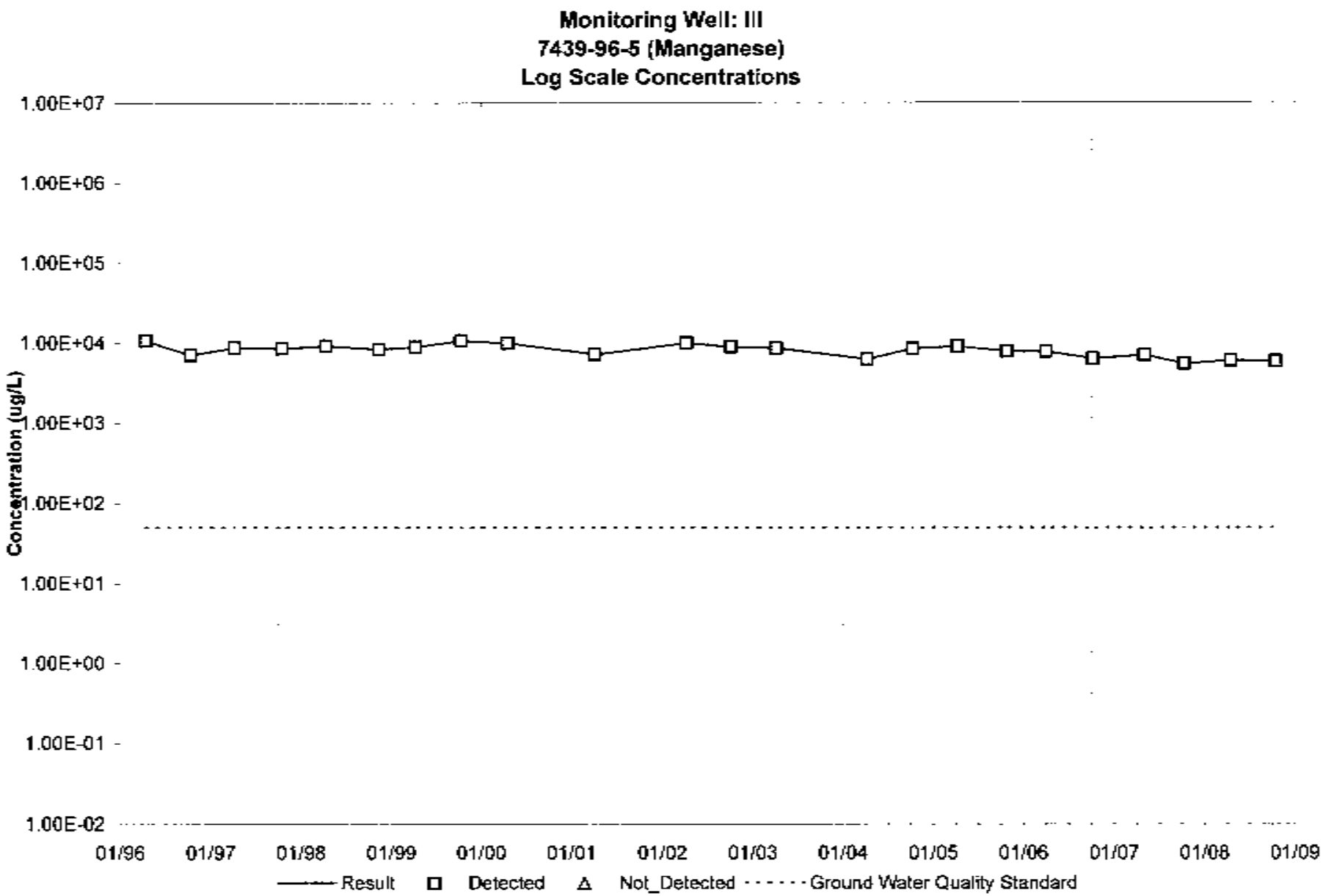

Monitoring Well: RCRA-D9
7439-95-4 (Magnesium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

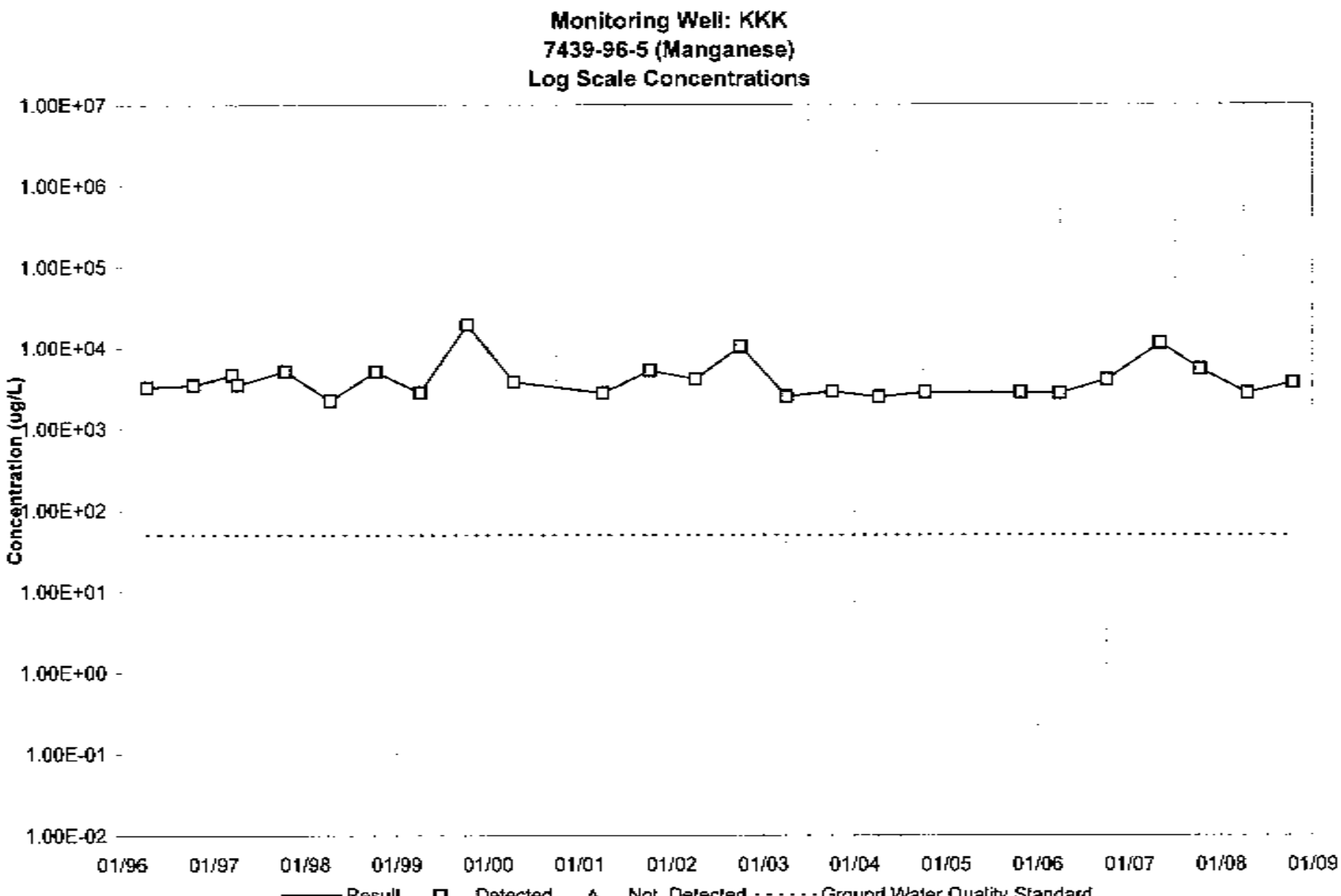

Monitoring Well: 16-MW-2
7439-96-5 (Manganese)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

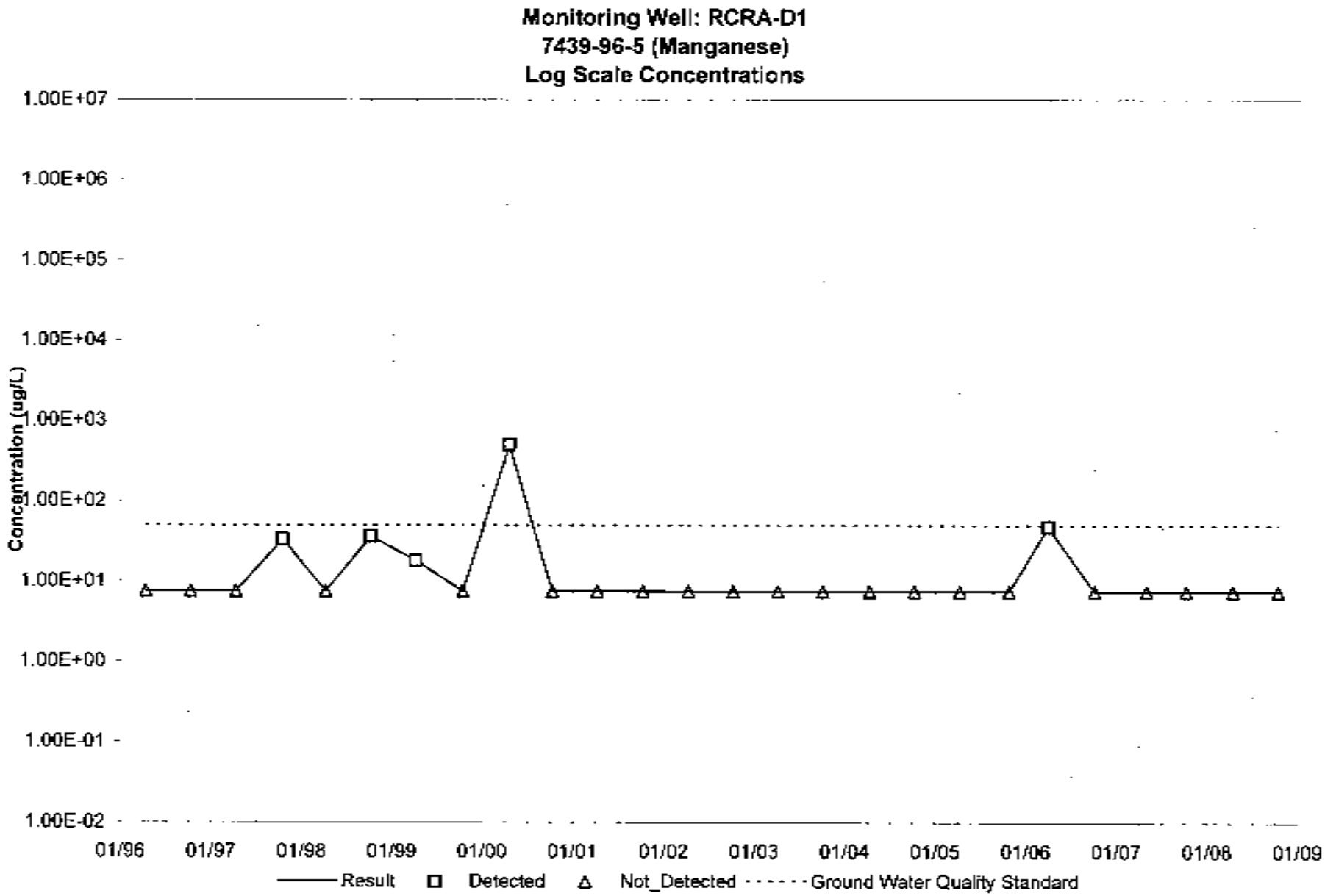

Monitoring Well: AAA
7439-96-5 (Manganese)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

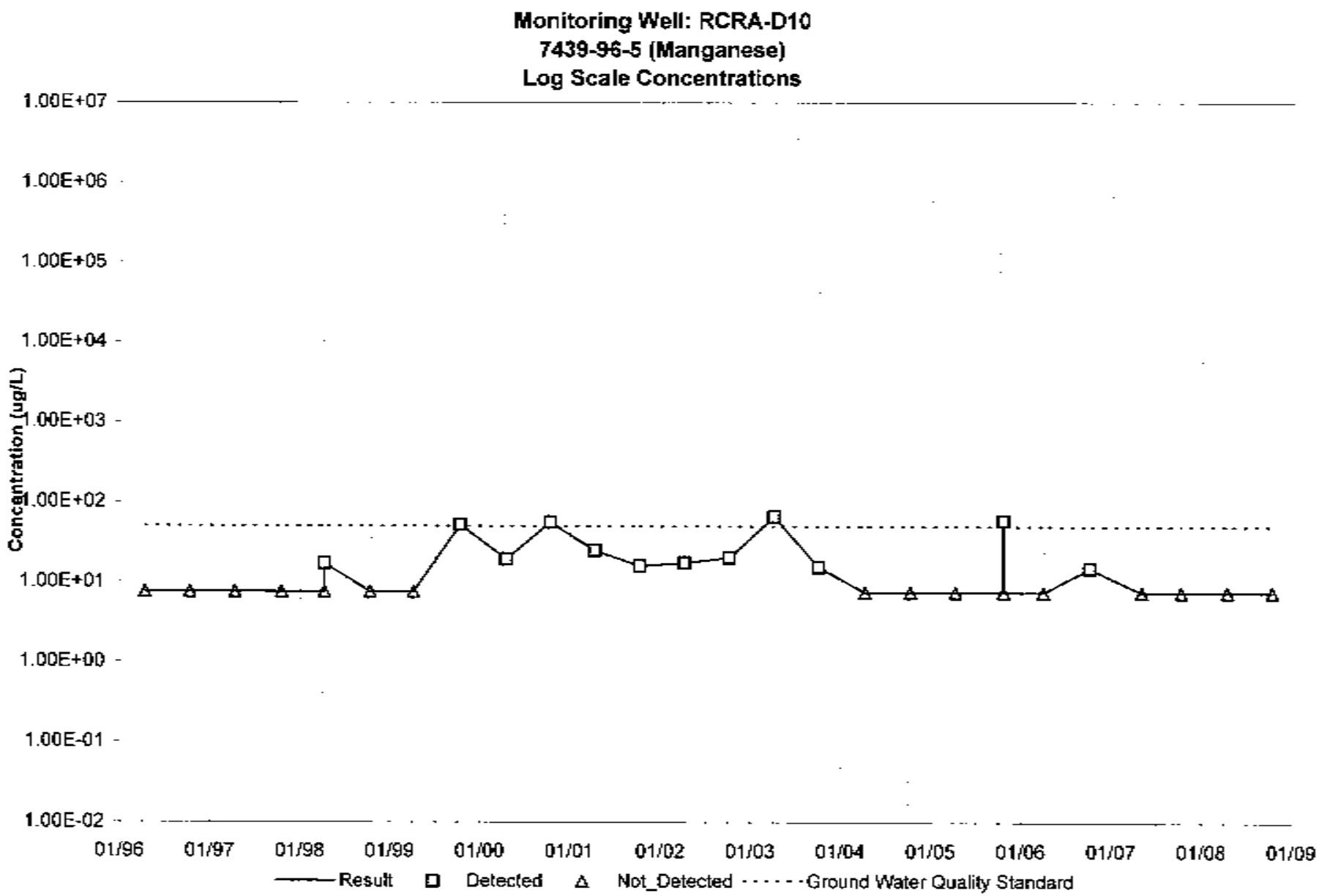

Monitoring Well: CCC-R
7439-96-5 (Manganese)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

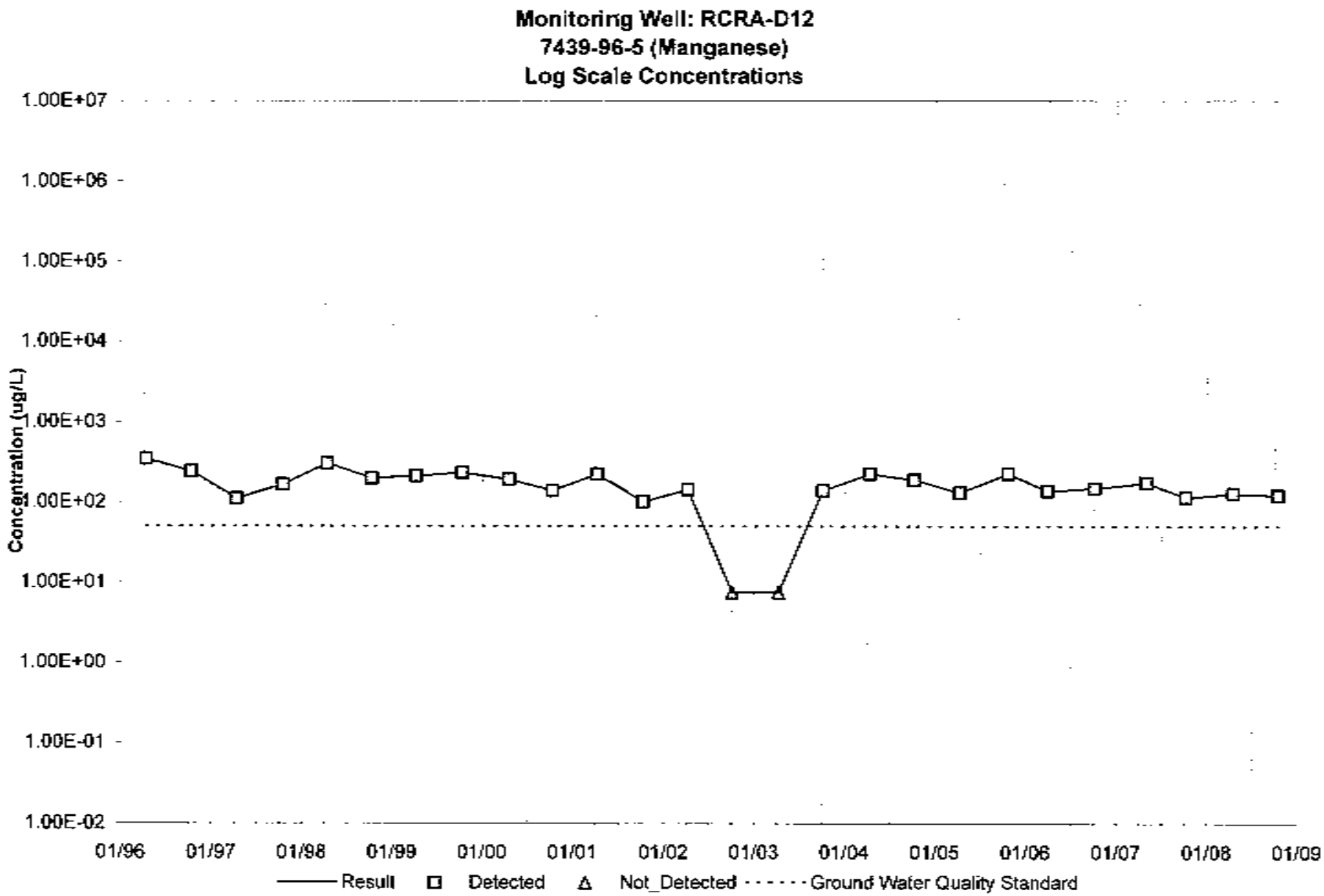

Monitoring Well: EEE-R
7439-96-5 (Manganese)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

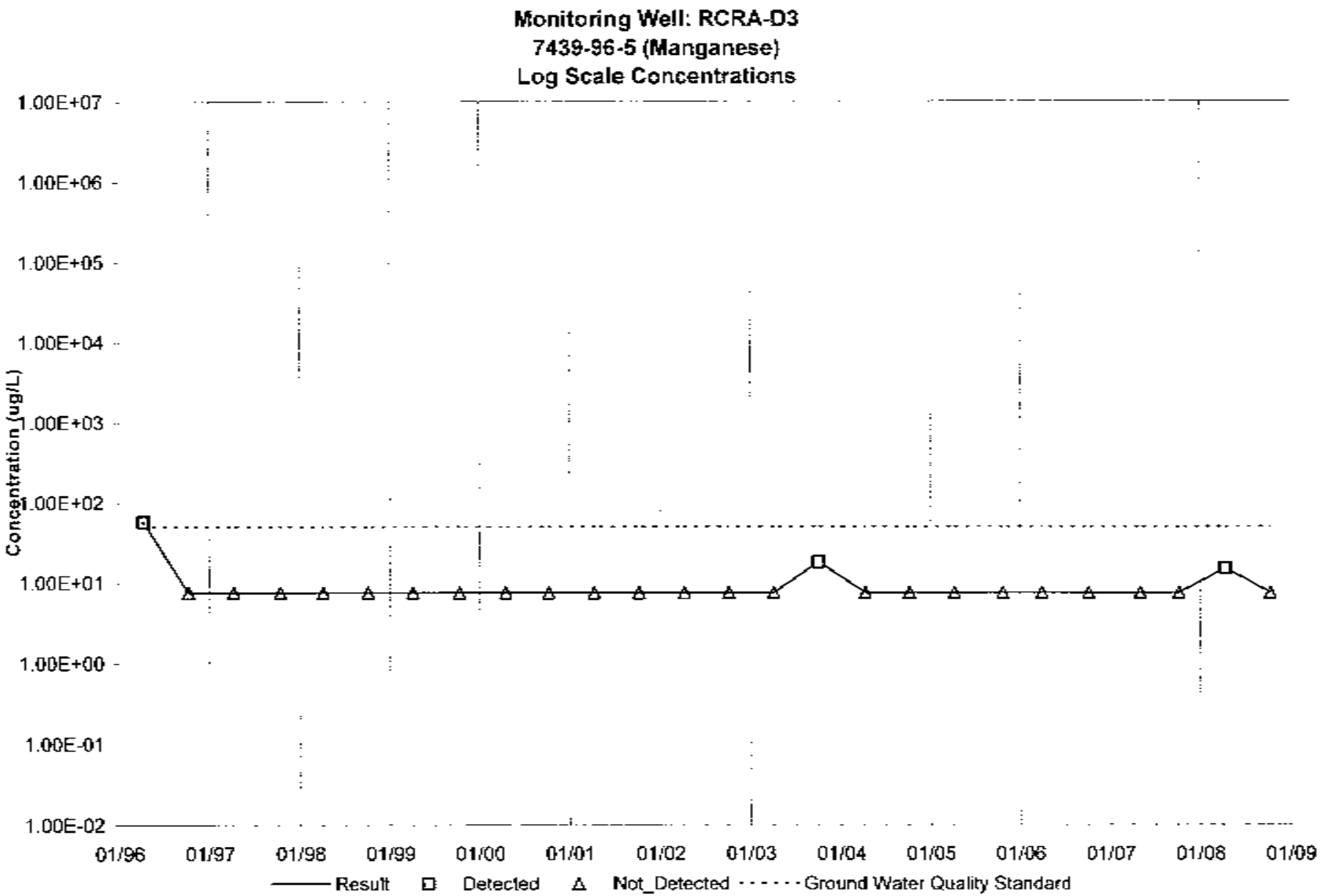

Monitoring Well: III
7439-96-5 (Manganese)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

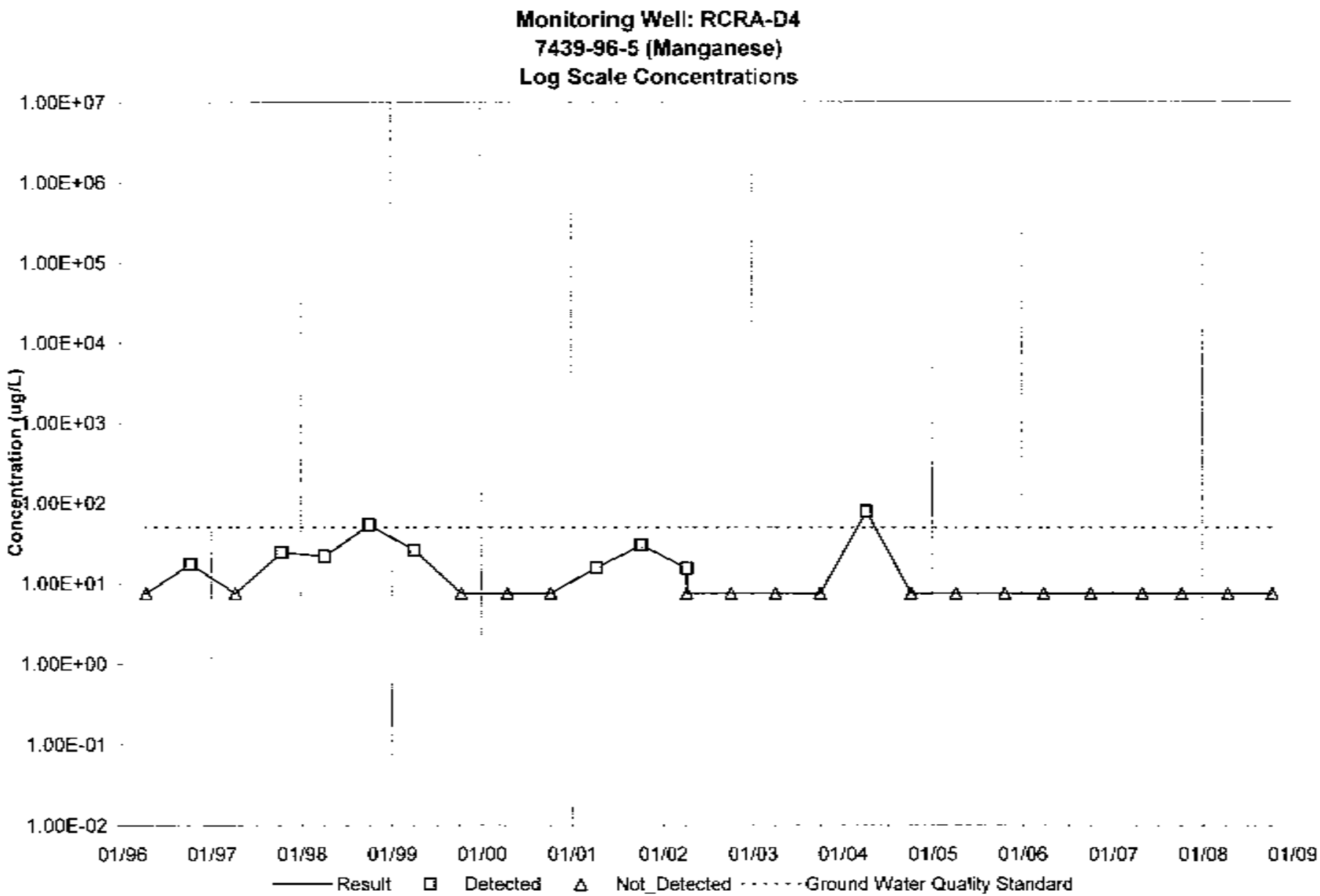

Monitoring Well: KKK
7439-96-5 (Manganese)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

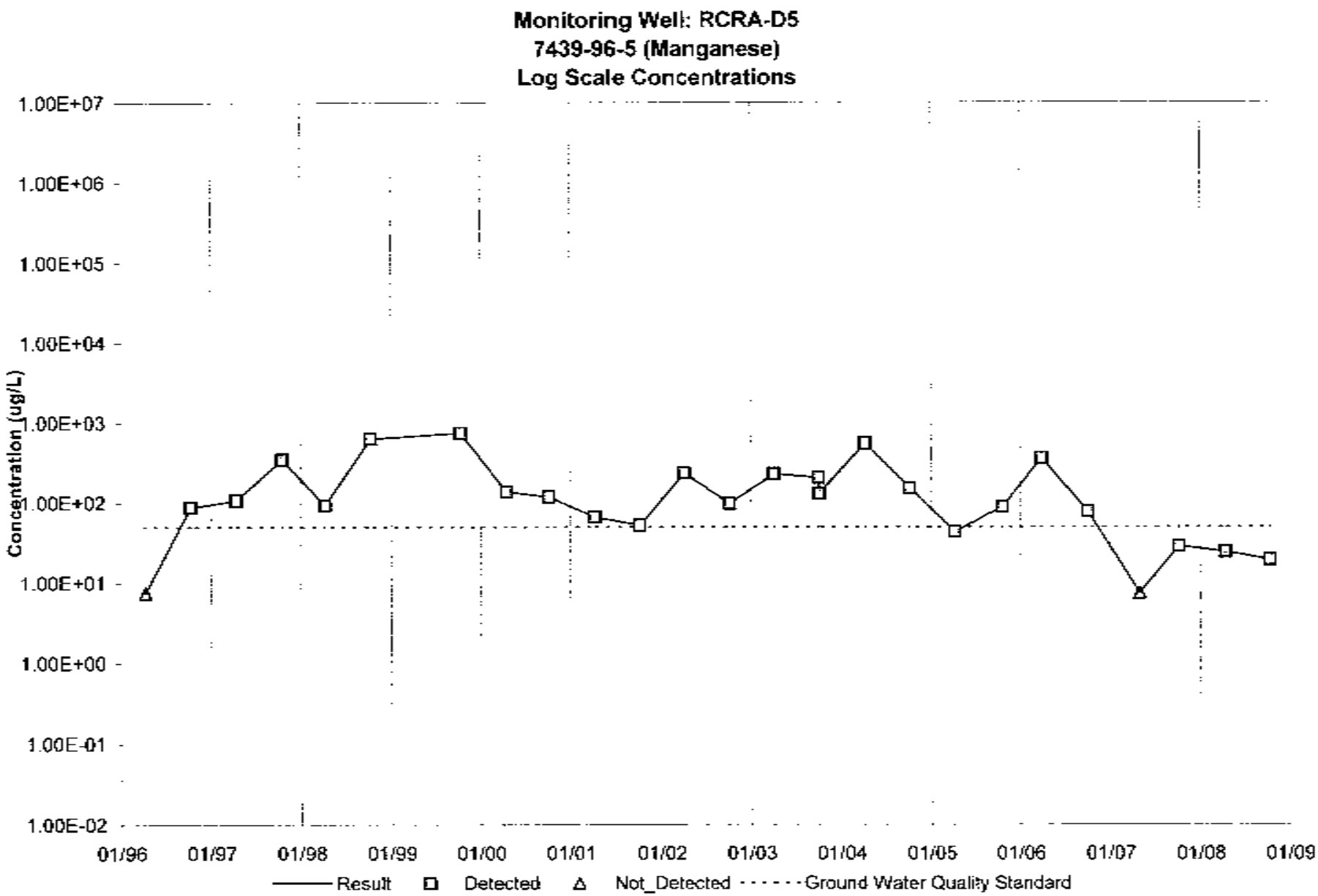

Monitoring Well: RCRA-D1
7439-96-5 (Manganese)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

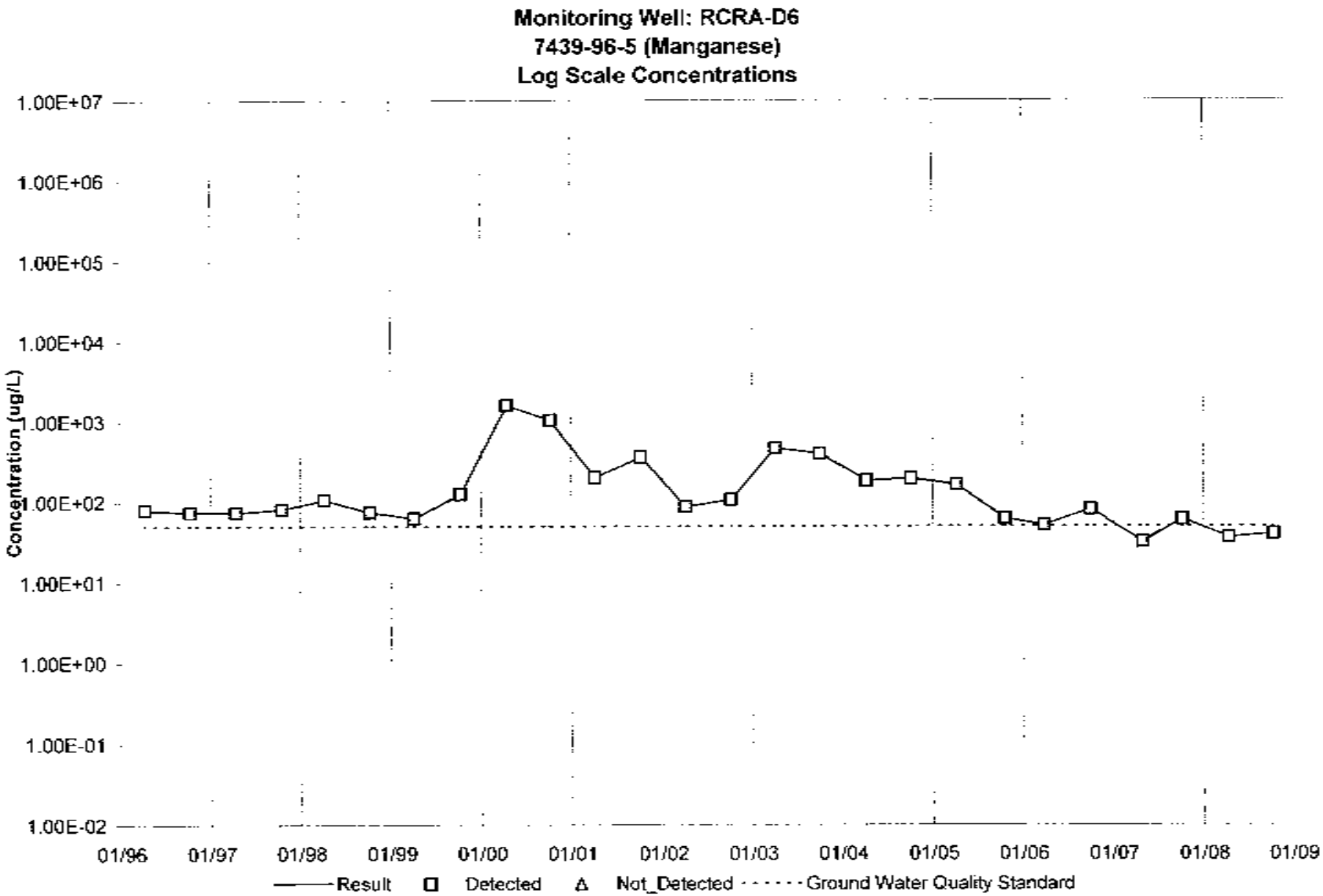

Monitoring Well: RCRA-D10
7439-96-5 (Manganese)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

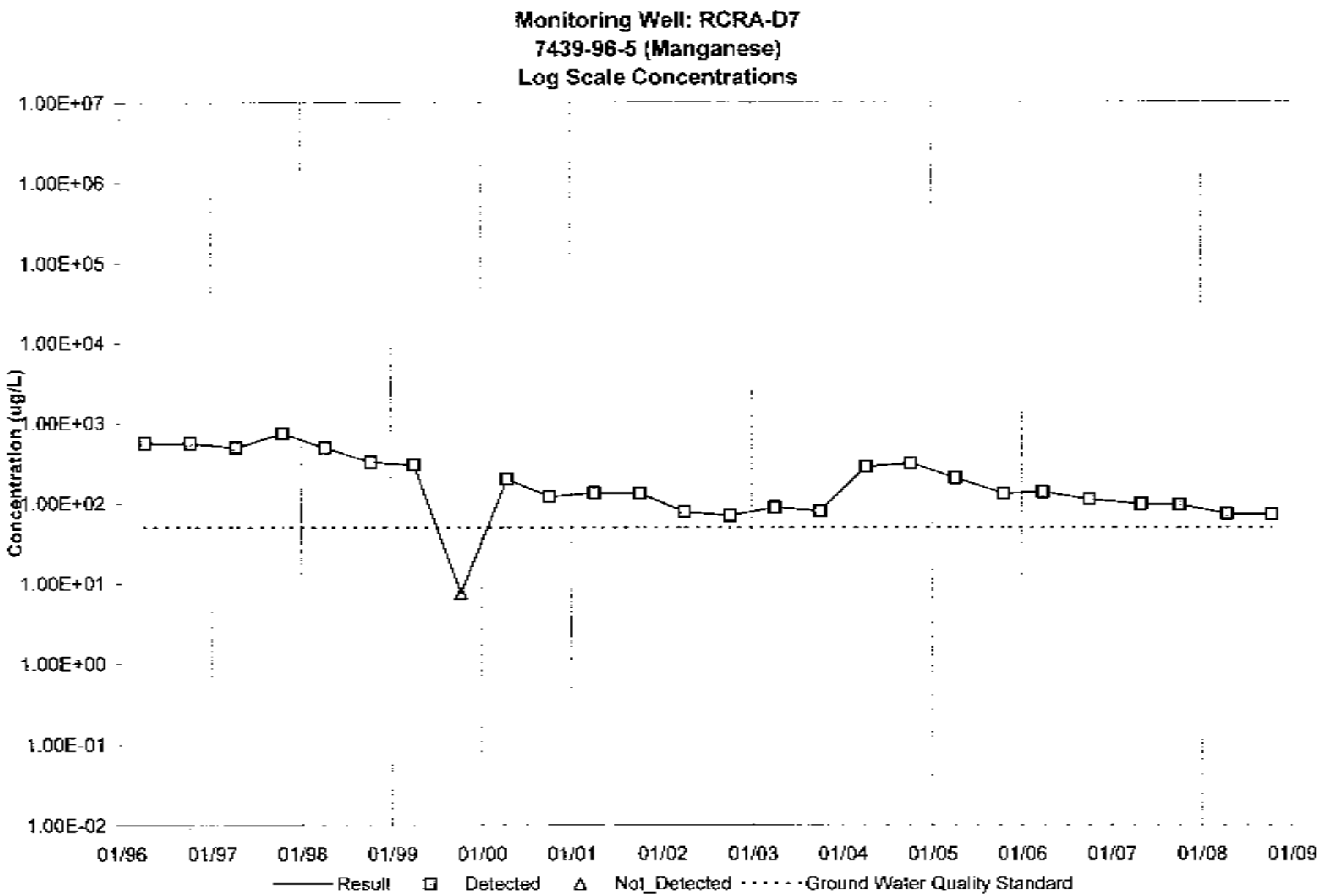

Monitoring Well: RCRA-D12
7439-96-5 (Manganese)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

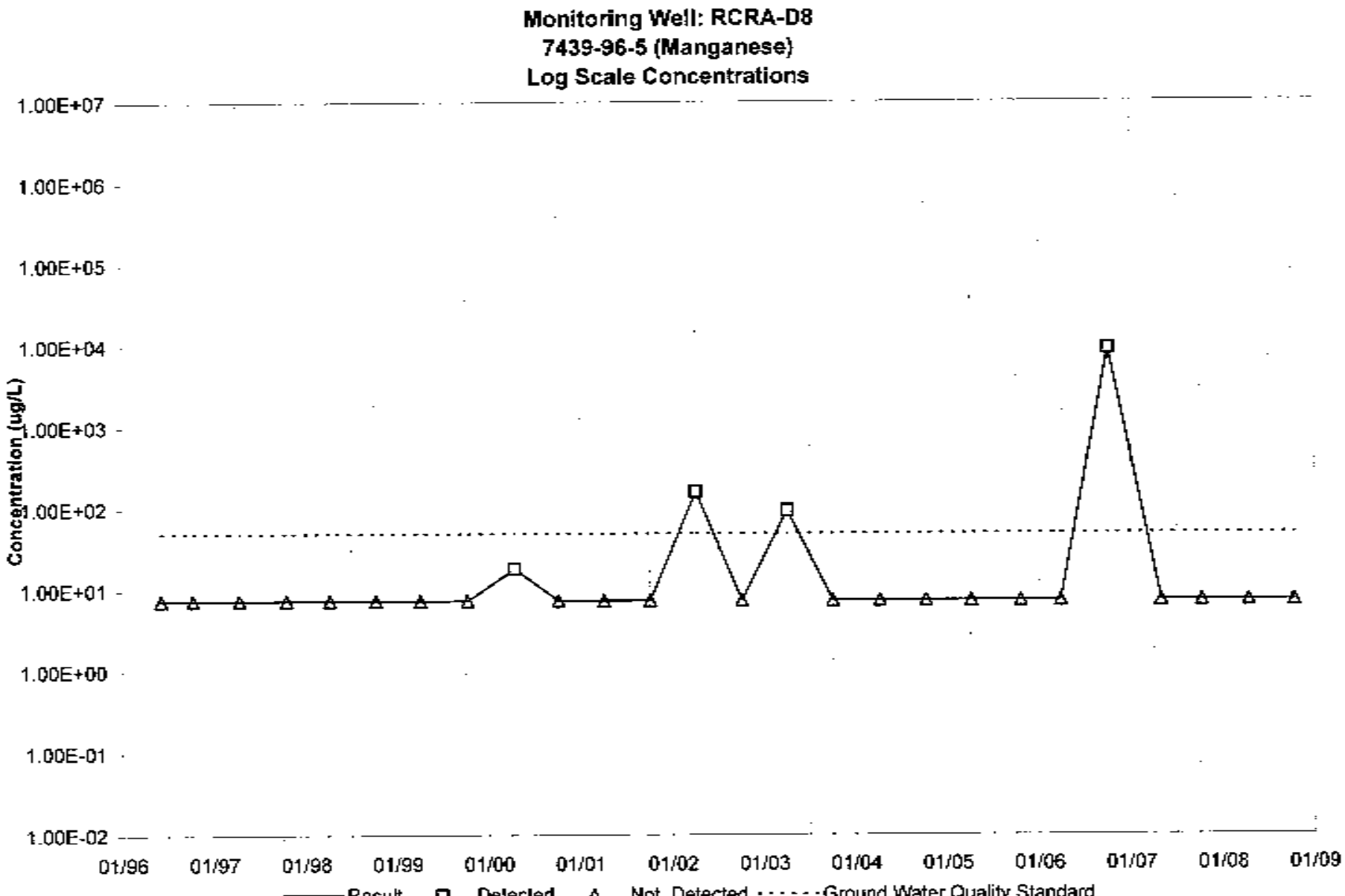

Monitoring Well: RCRA-D3
7439-96-5 (Manganese)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

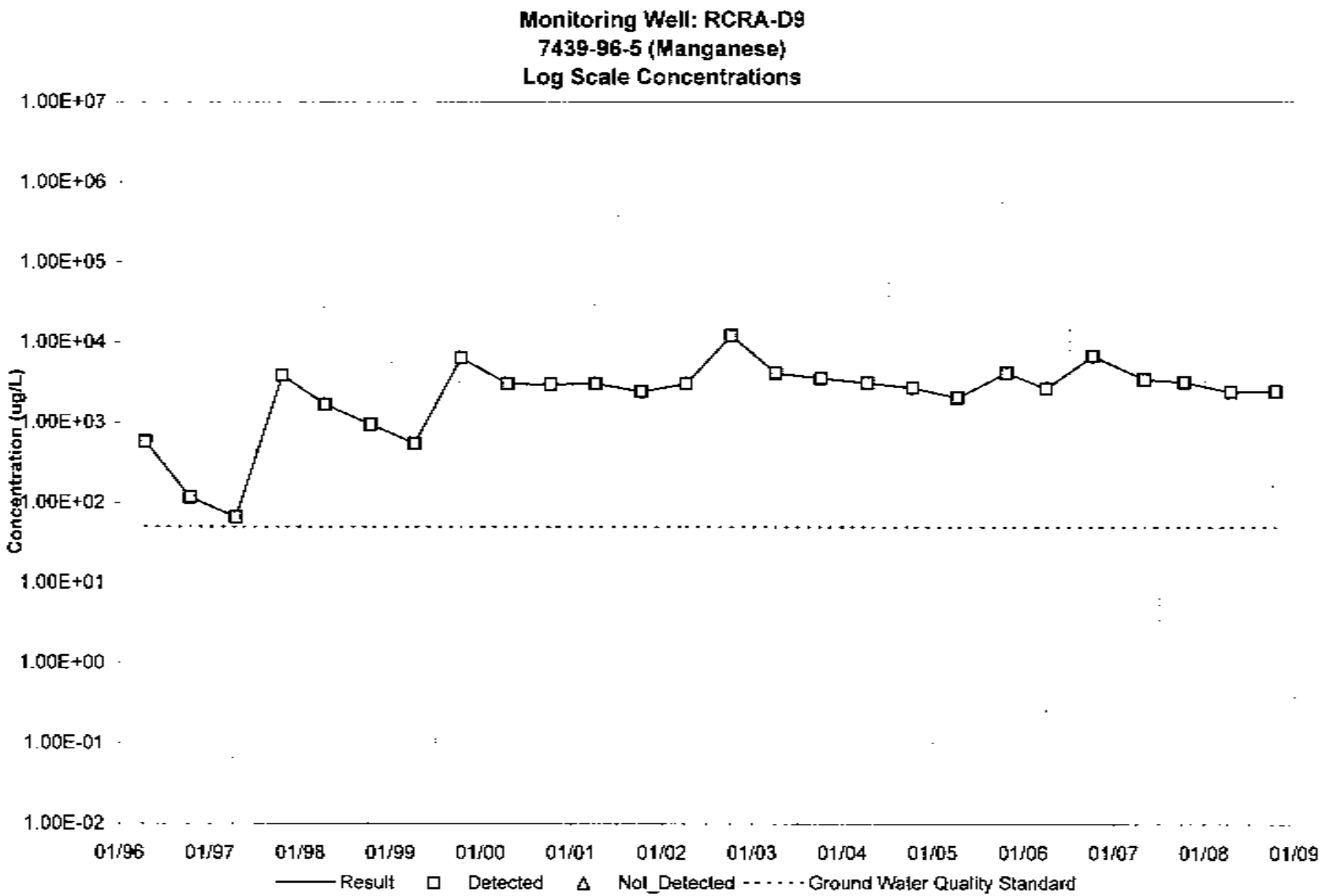

Monitoring Well: RCRA-D4
7439-96-5 (Manganese)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

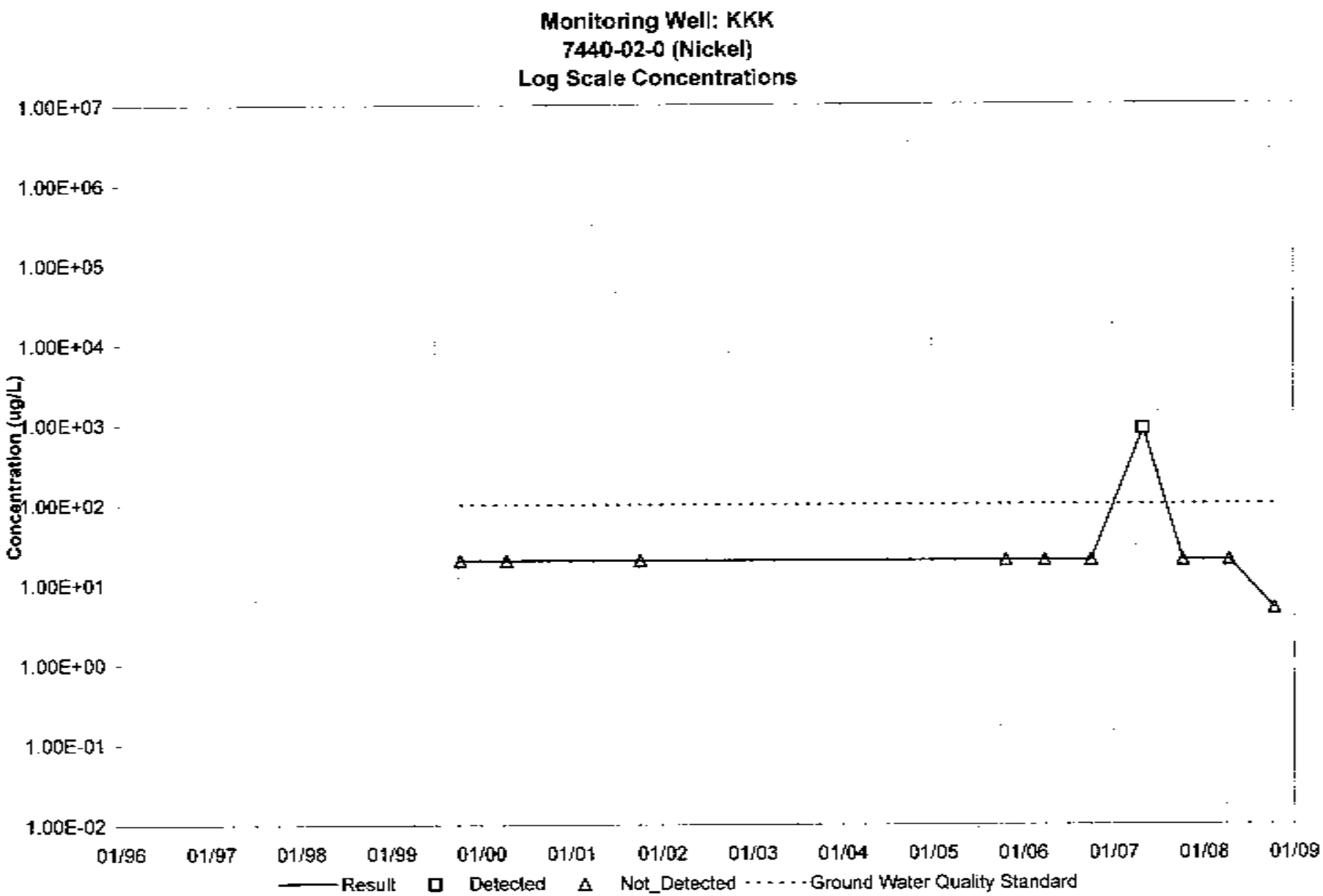

Monitoring Well: RCRA-D5
7439-96-5 (Manganese)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

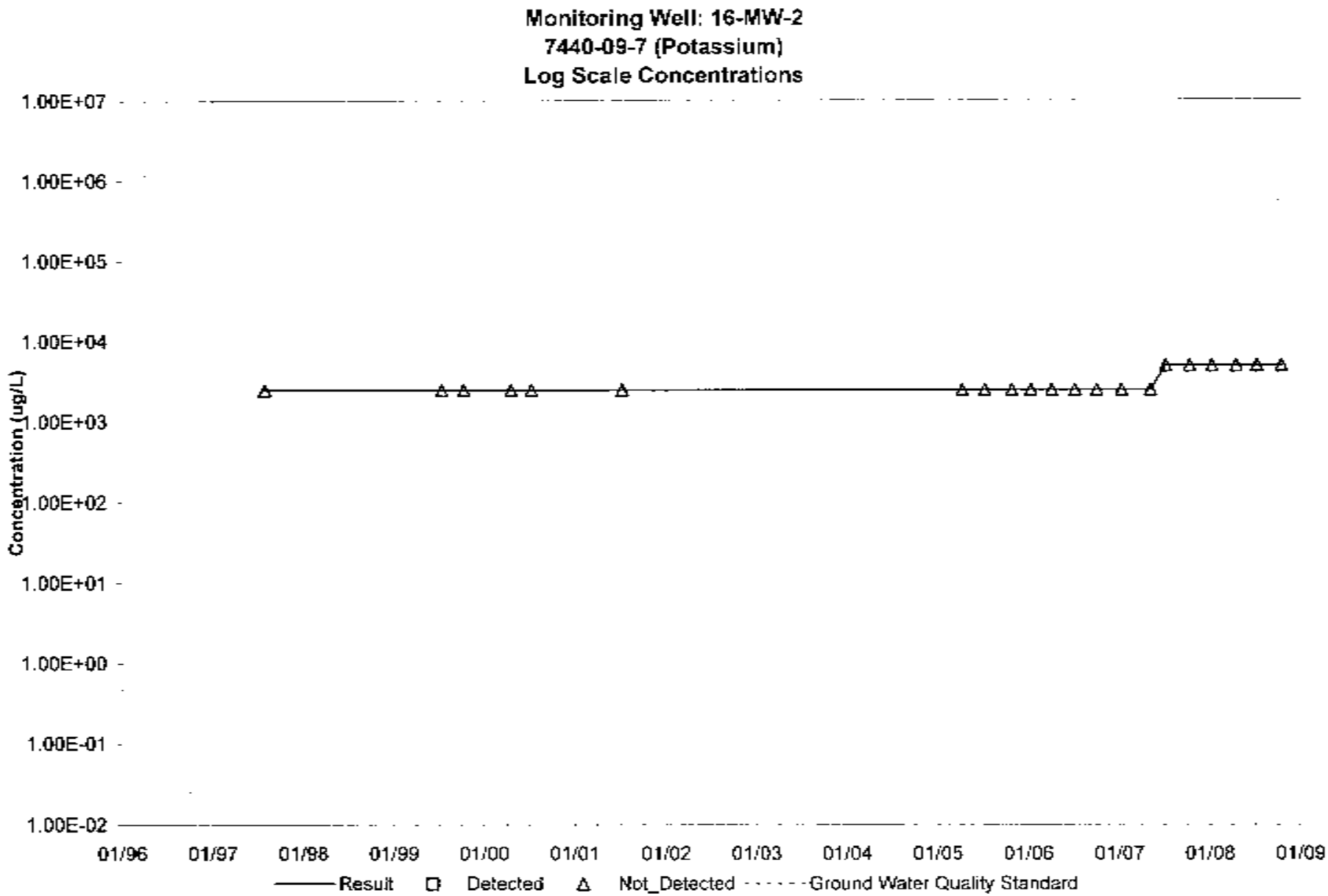

Monitoring Well: RCRA-D6
7439-96-5 (Manganese)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard


Monitoring Well: RCRA-D7
7439-96-5 (Manganese)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

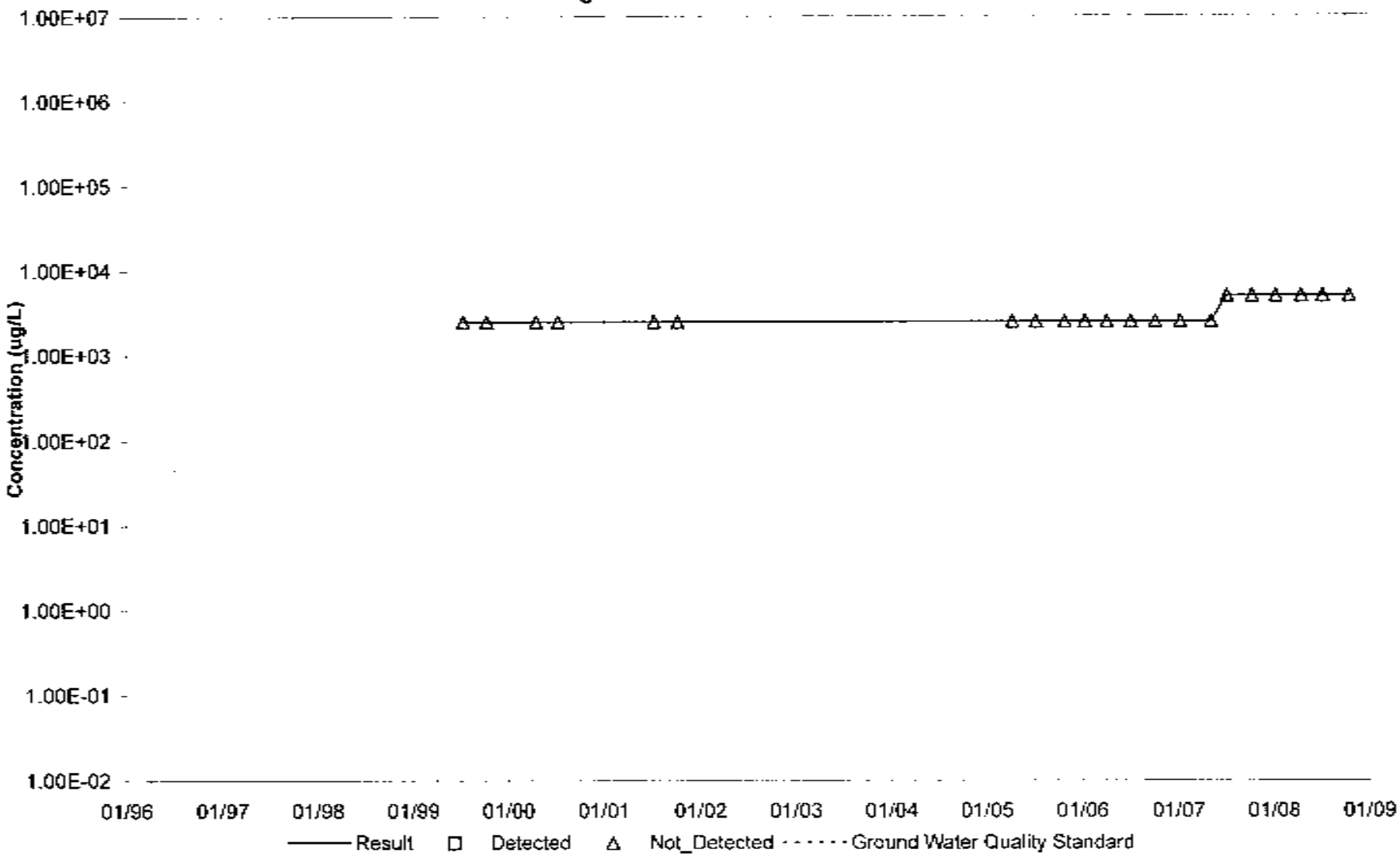

Monitoring Well: RCRA-D8
7439-96-5 (Manganese)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

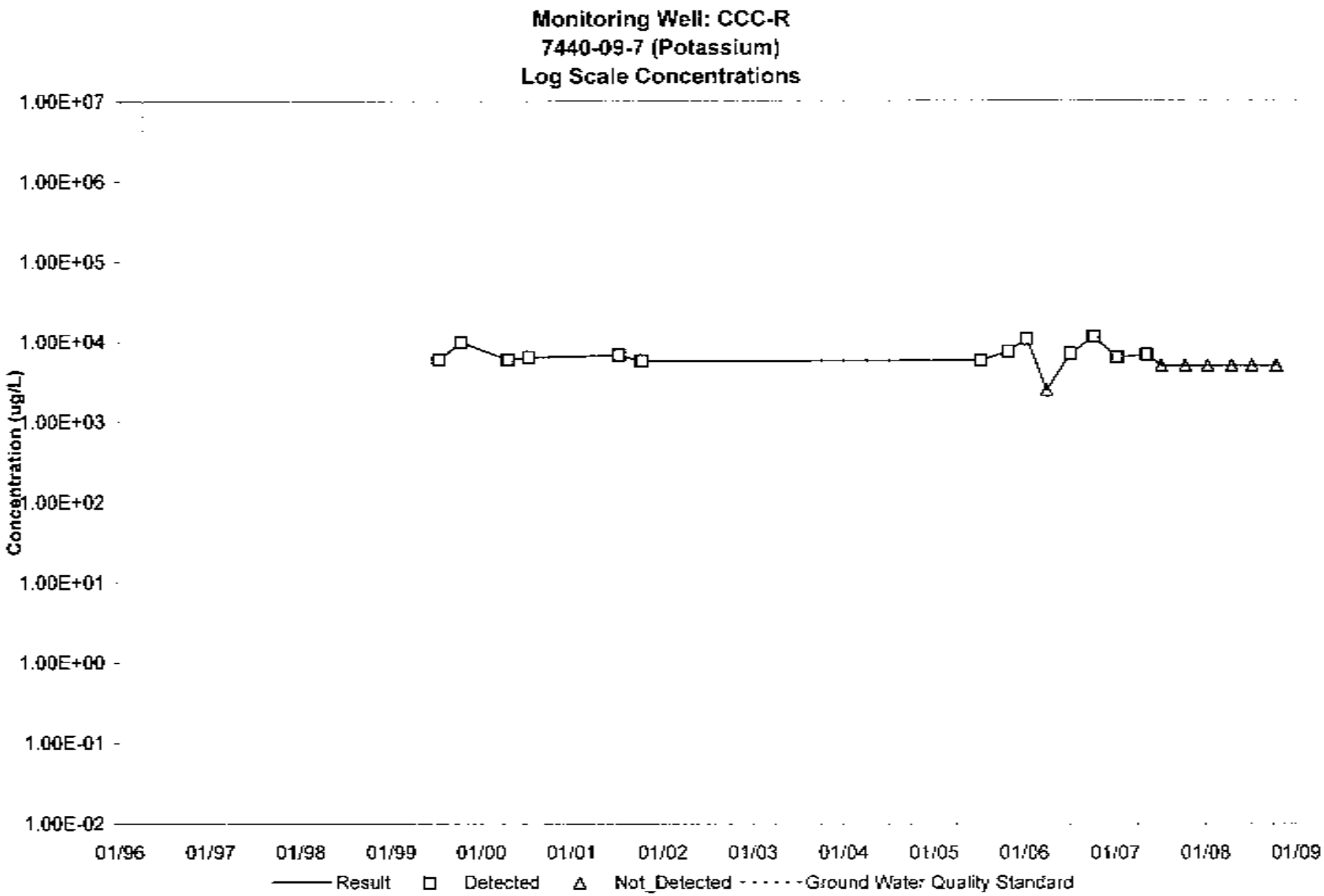

Monitoring Well: RCRA-D9
7439-96-5 (Manganese)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

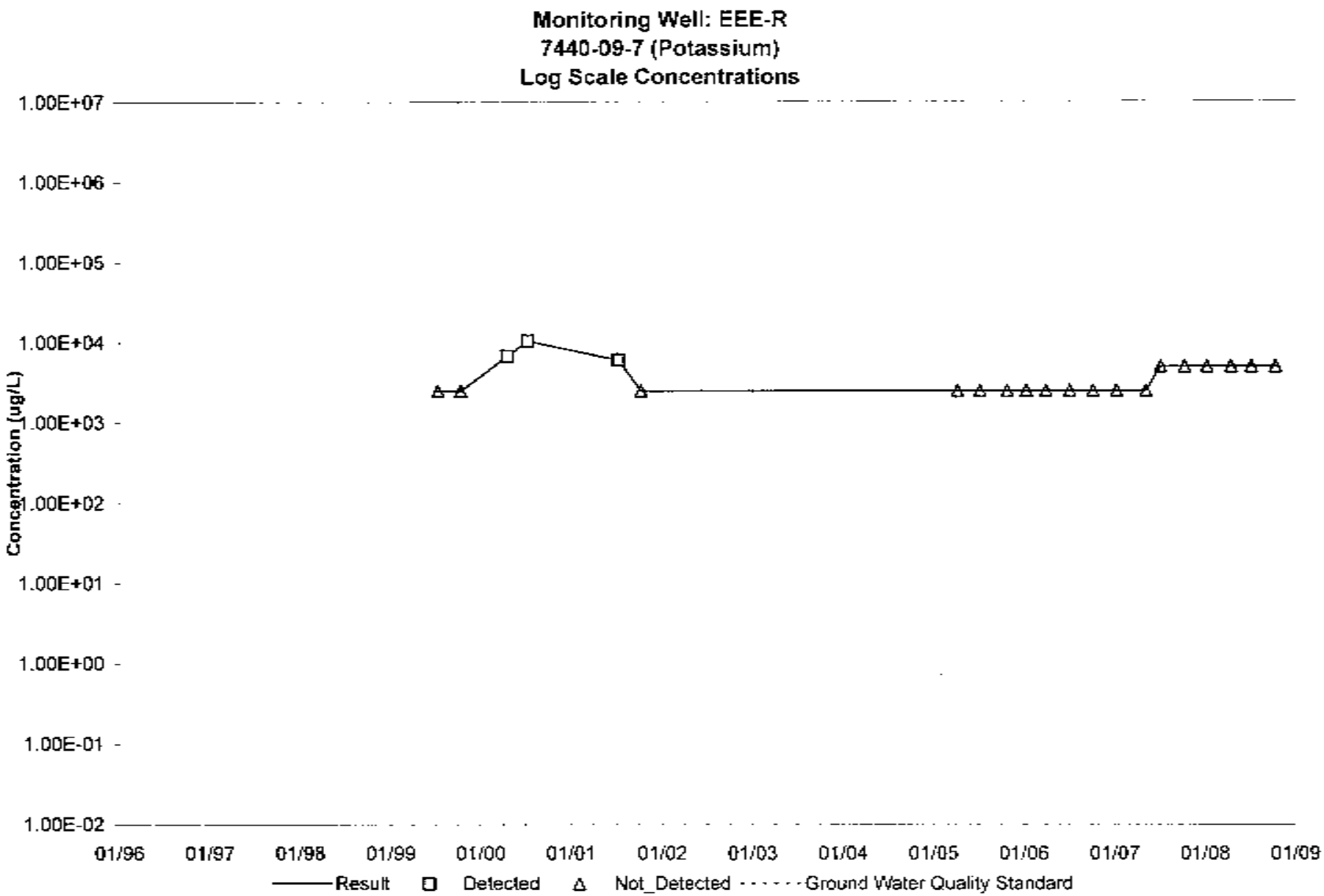

Monitoring Well: KKK
7440-02-0 (Nickel)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

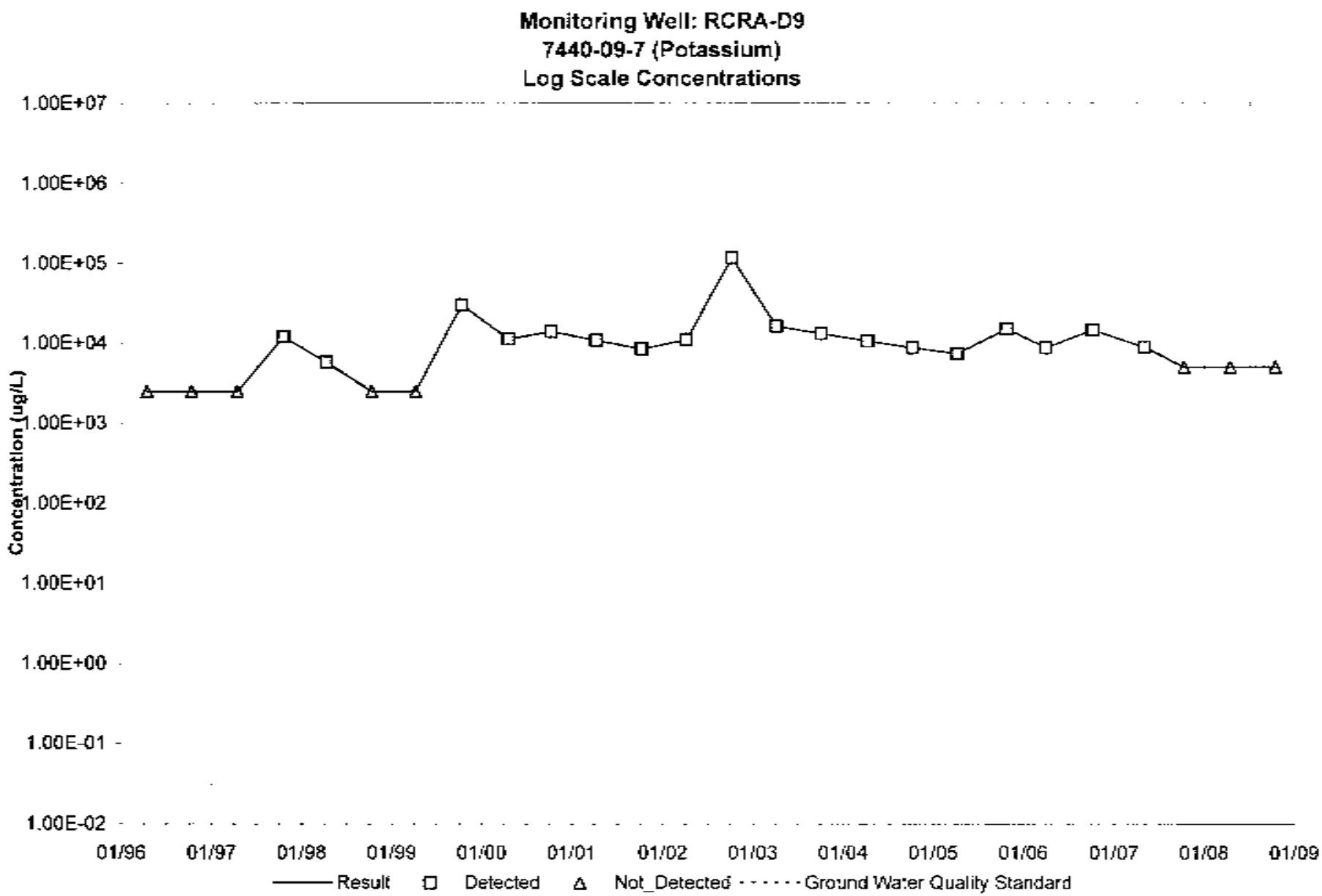

Monitoring Well: 16-MW-2
7440-09-7 (Potassium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

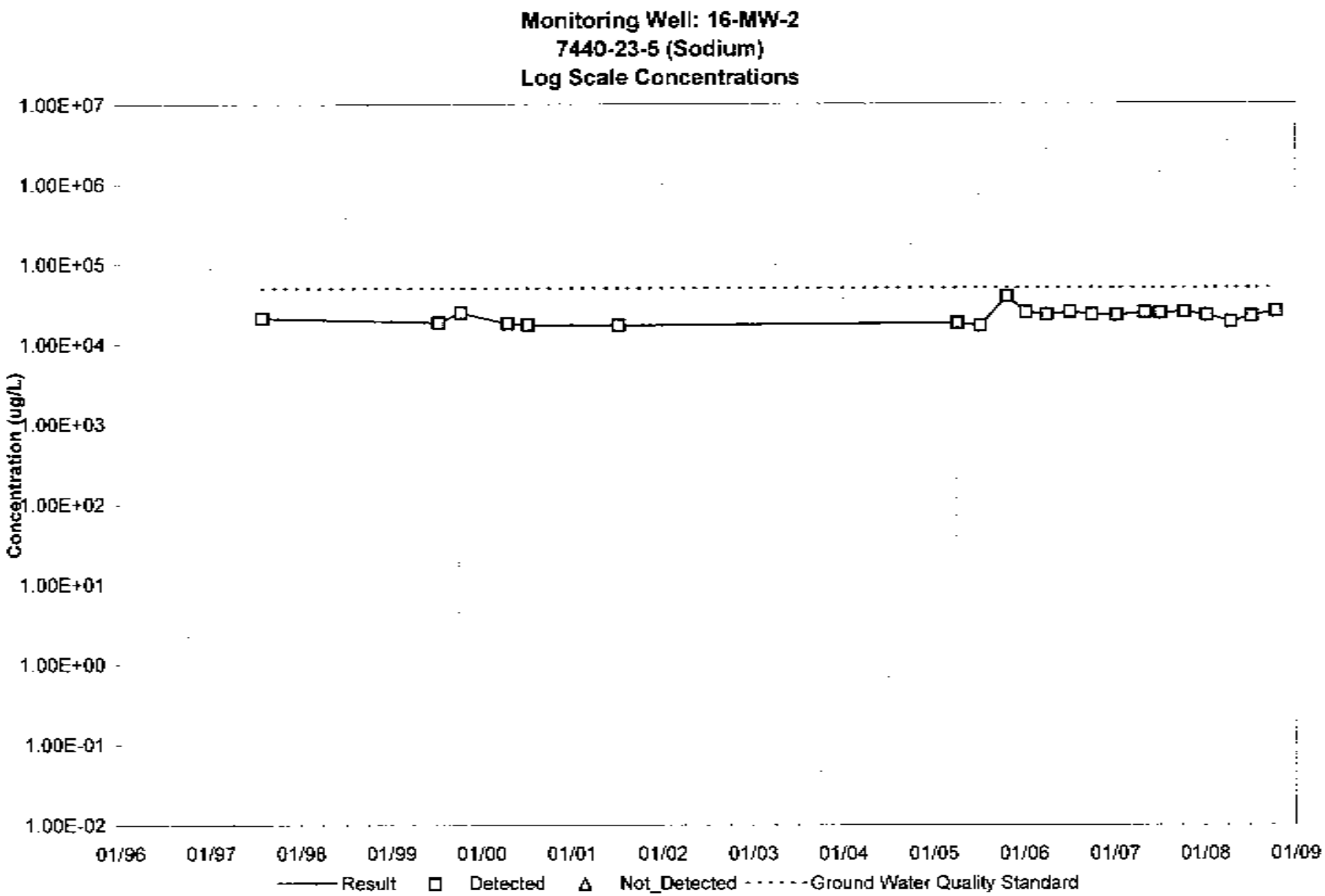
Monitoring Well: AAA
7440-09-7 (Potassium)
Log Scale Concentrations

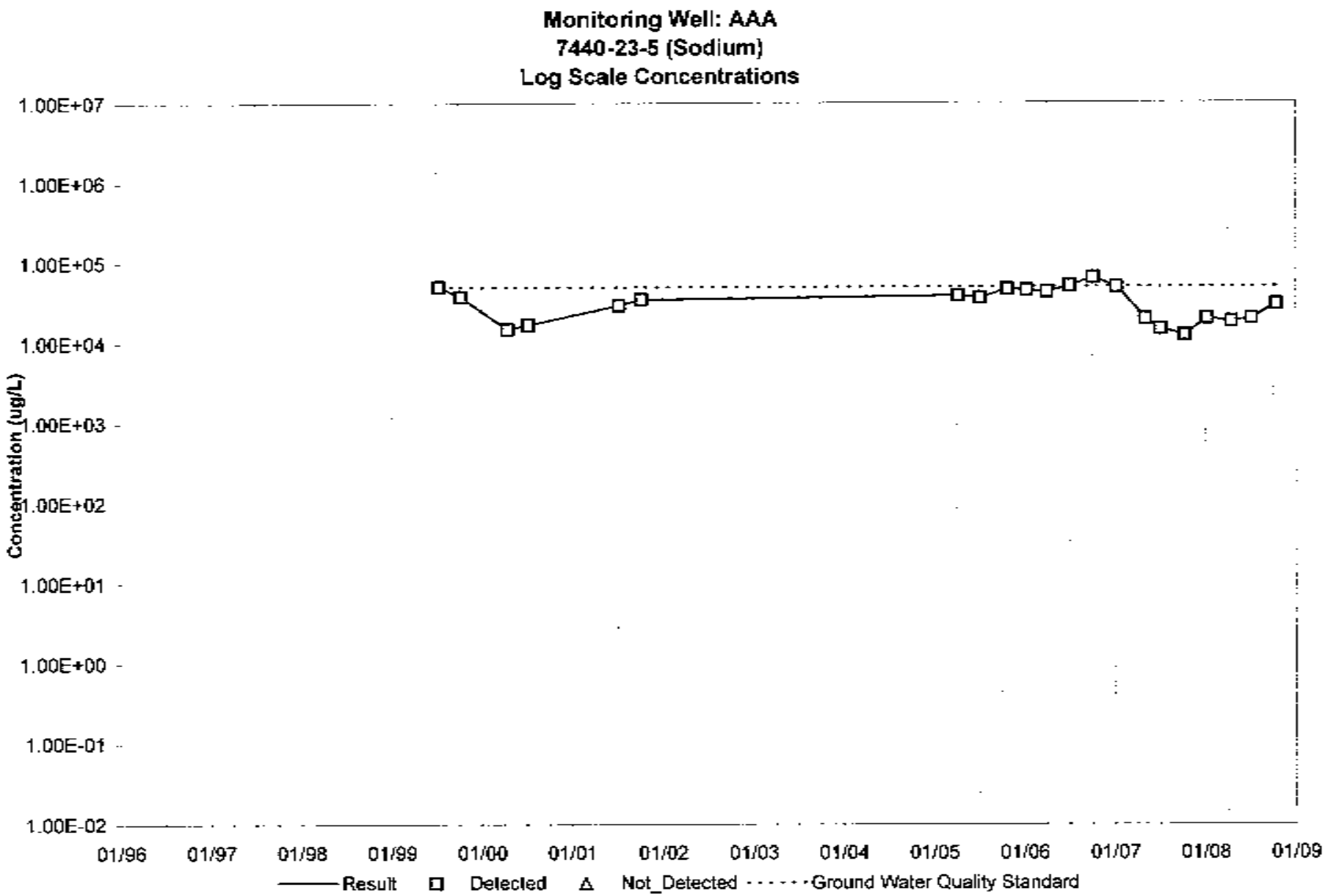



Monitoring Well: CCC-R
7440-09-7 (Potassium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

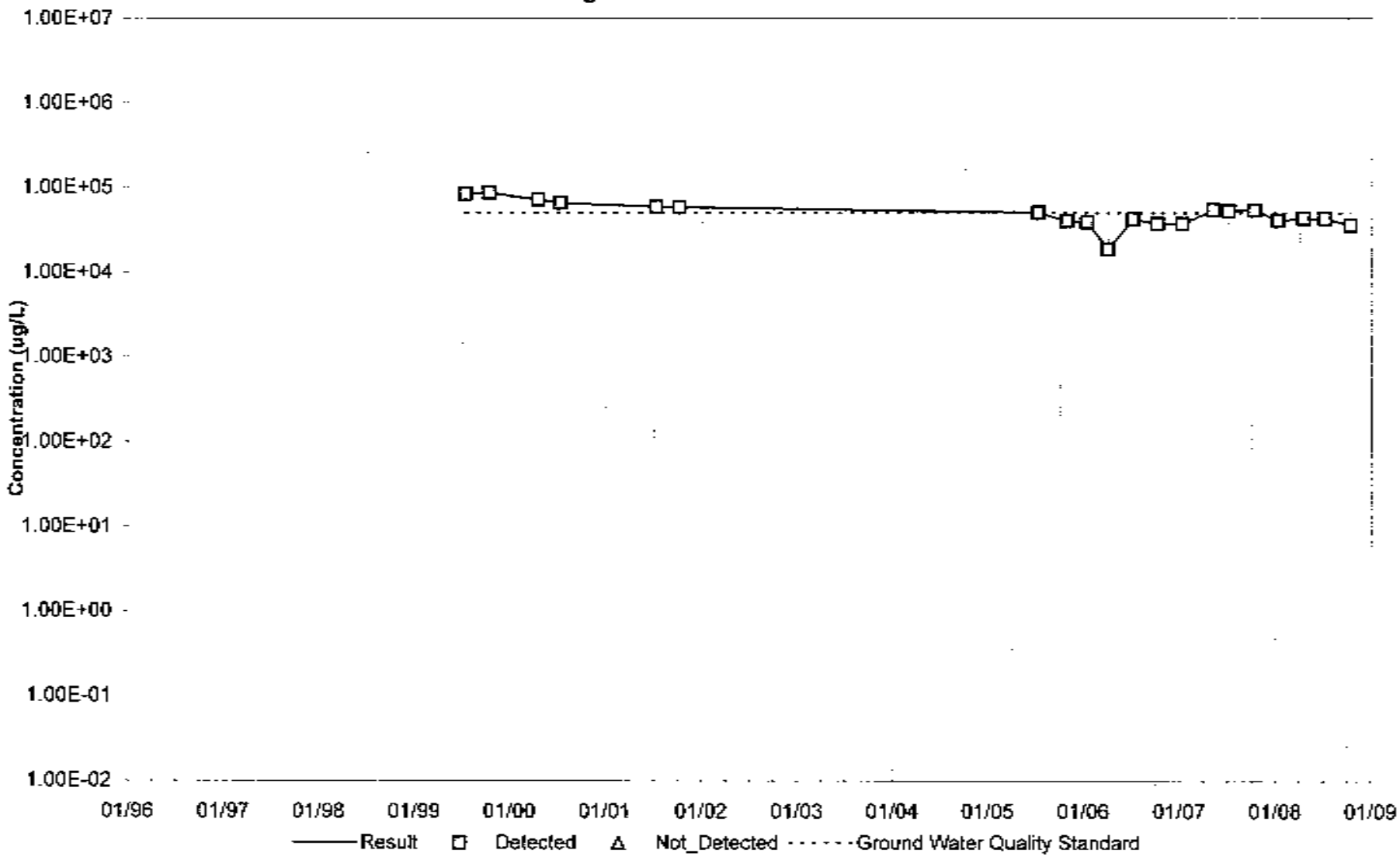

Monitoring Well: EEE-R
7440-09-7 (Potassium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

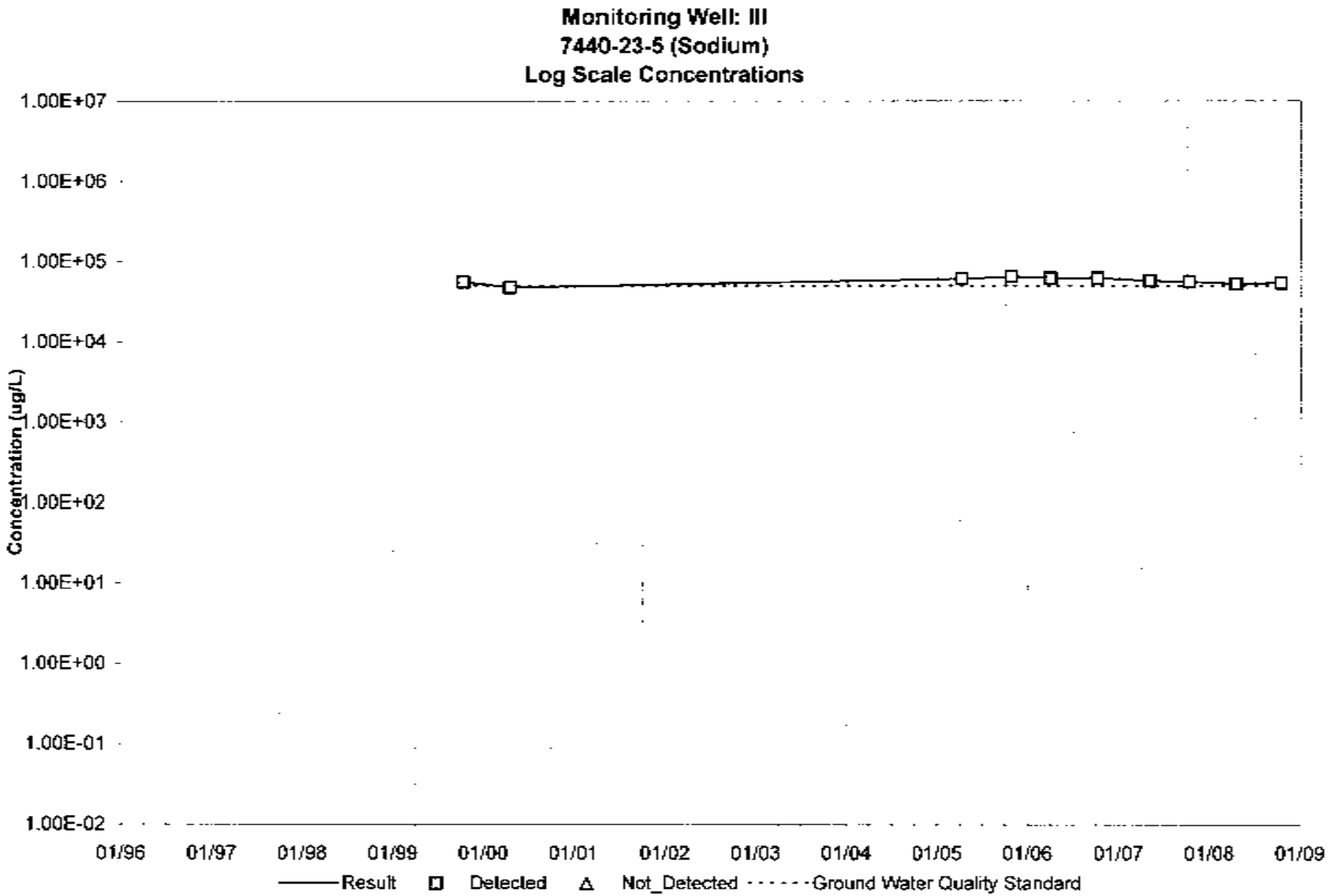

Monitoring Well: RCRA-D9
7440-09-7 (Potassium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

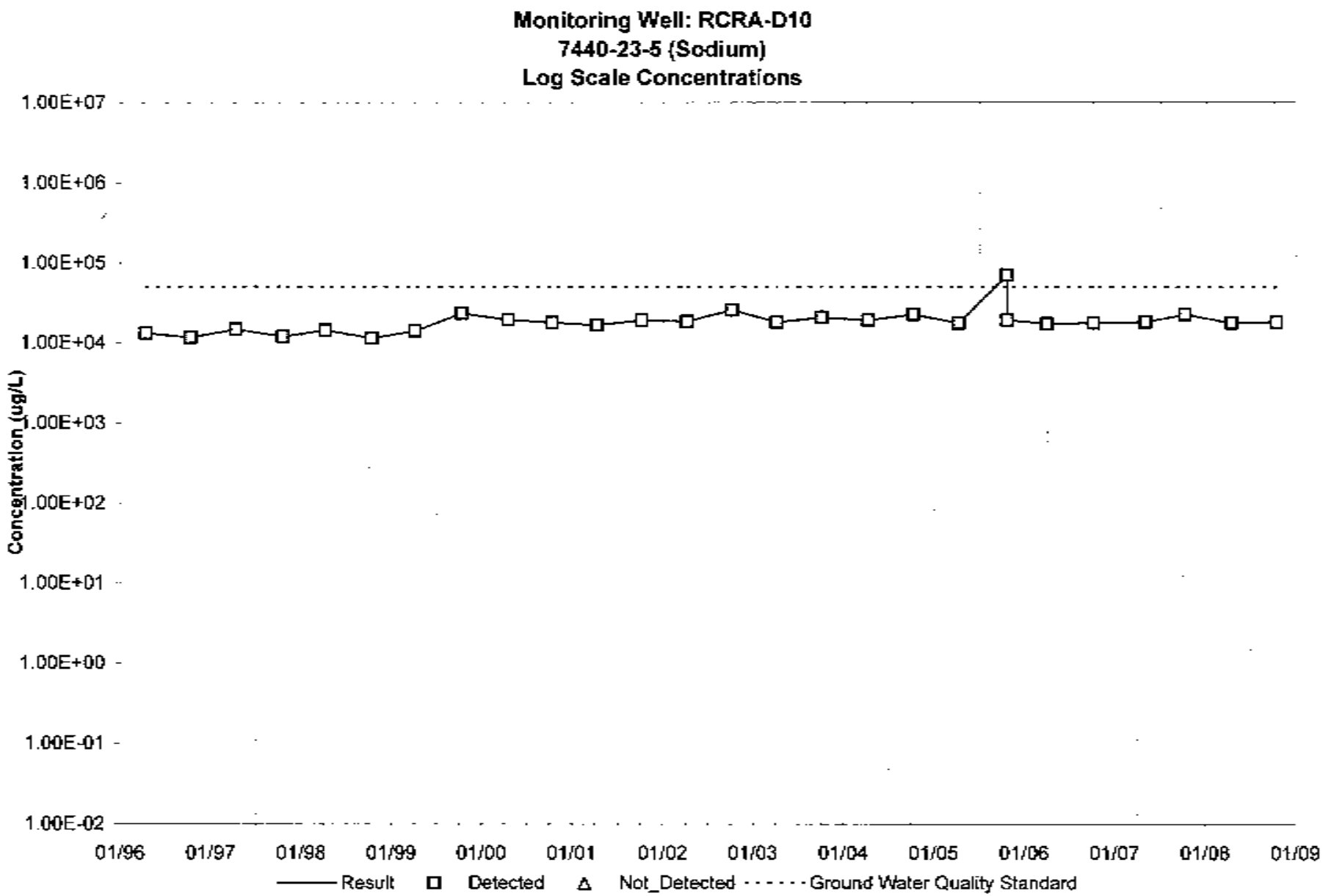

Monitoring Well: 16-MW-2
7440-23-5 (Sodium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

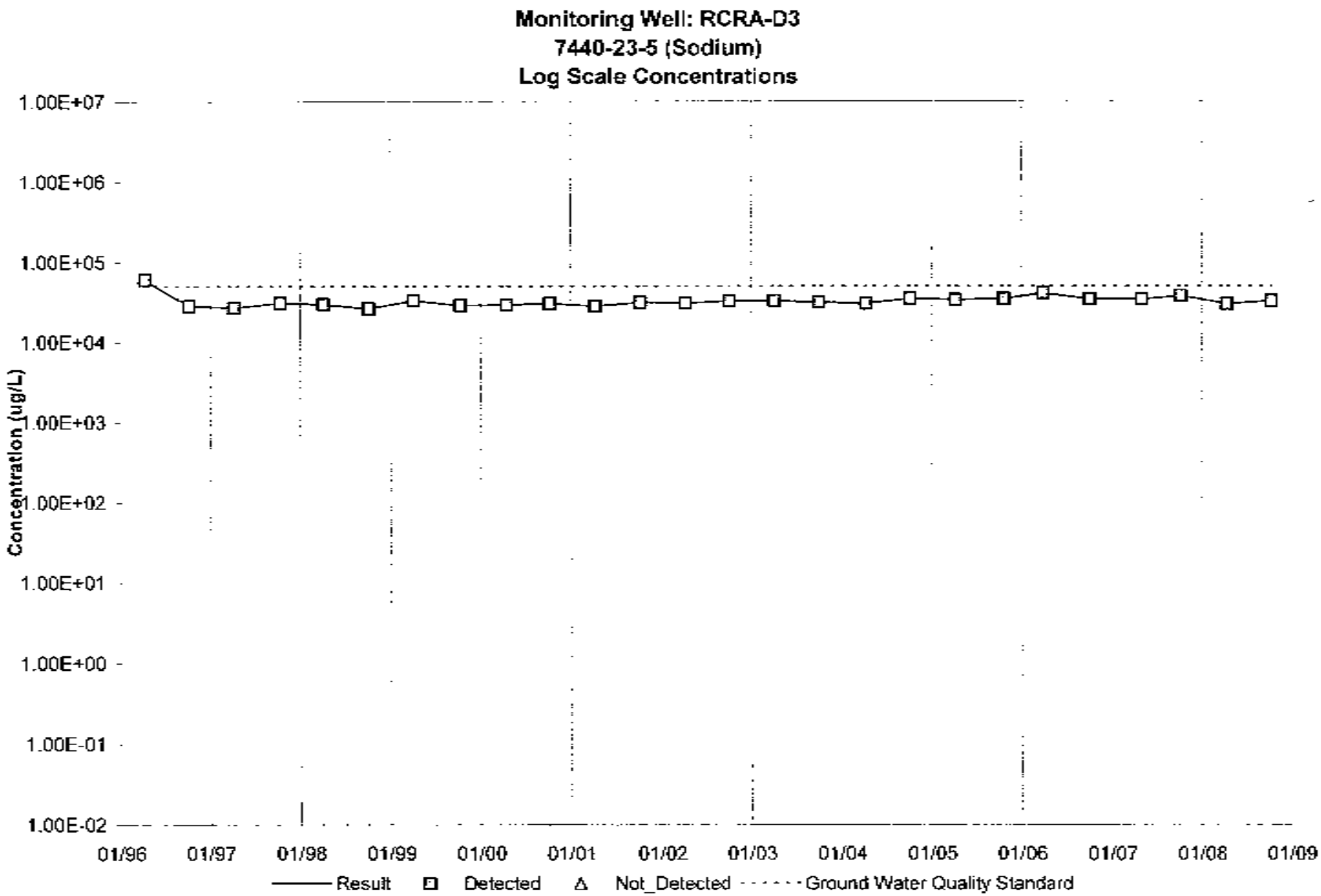

Monitoring Well: AAA
7440-23-5 (Sodium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

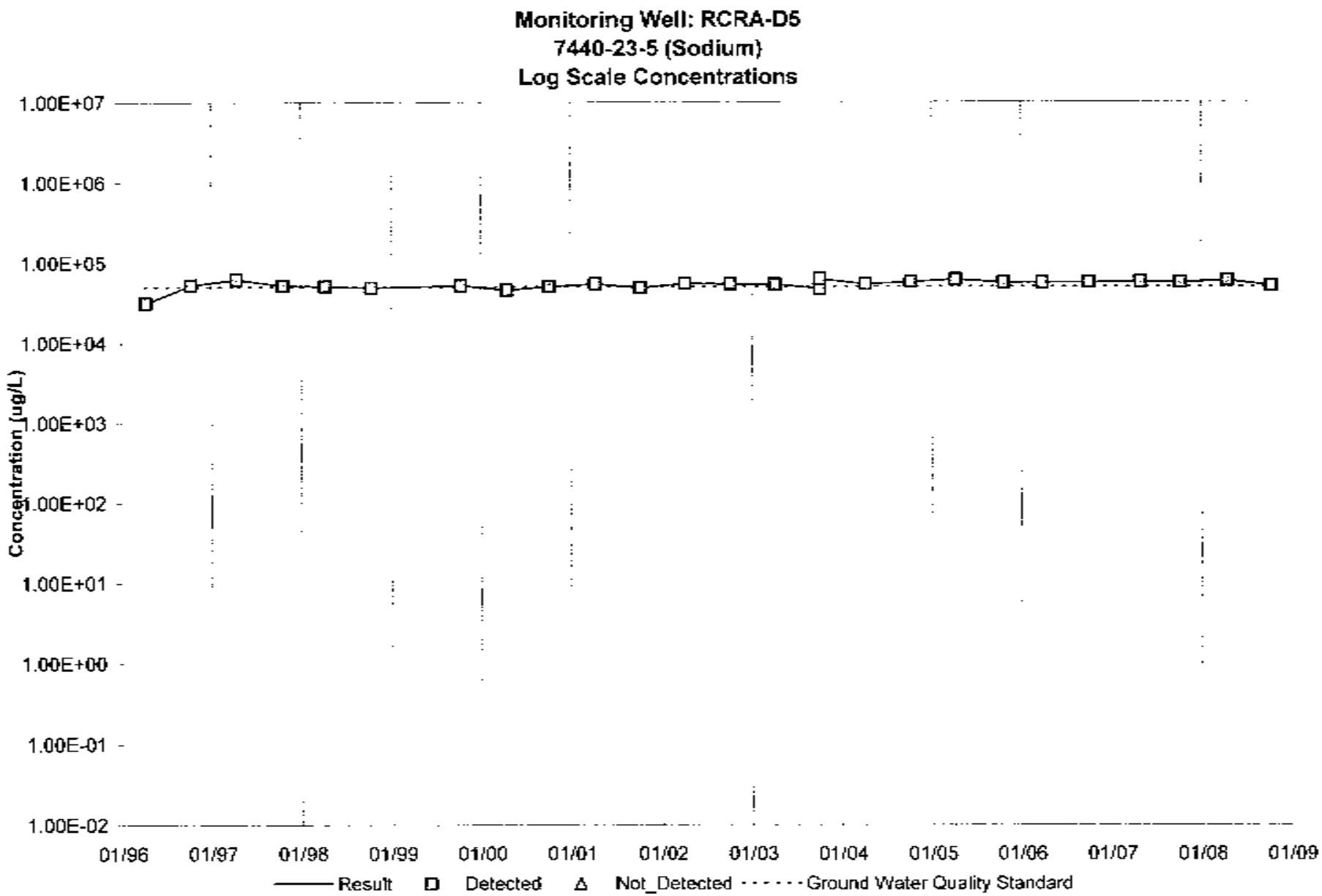
Monitoring Well: CCC-R
7440-23-5 (Sodium)
Log Scale Concentrations

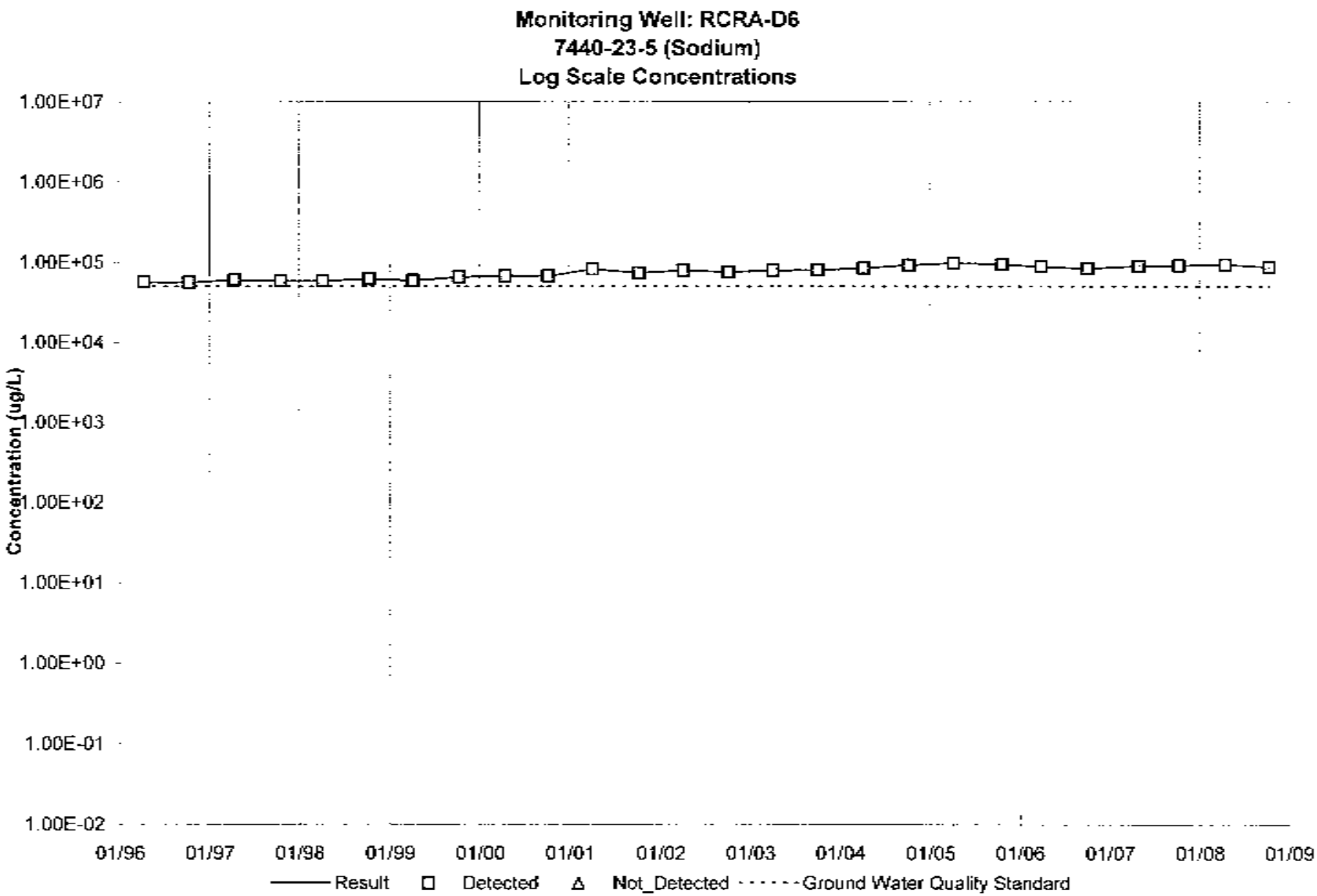


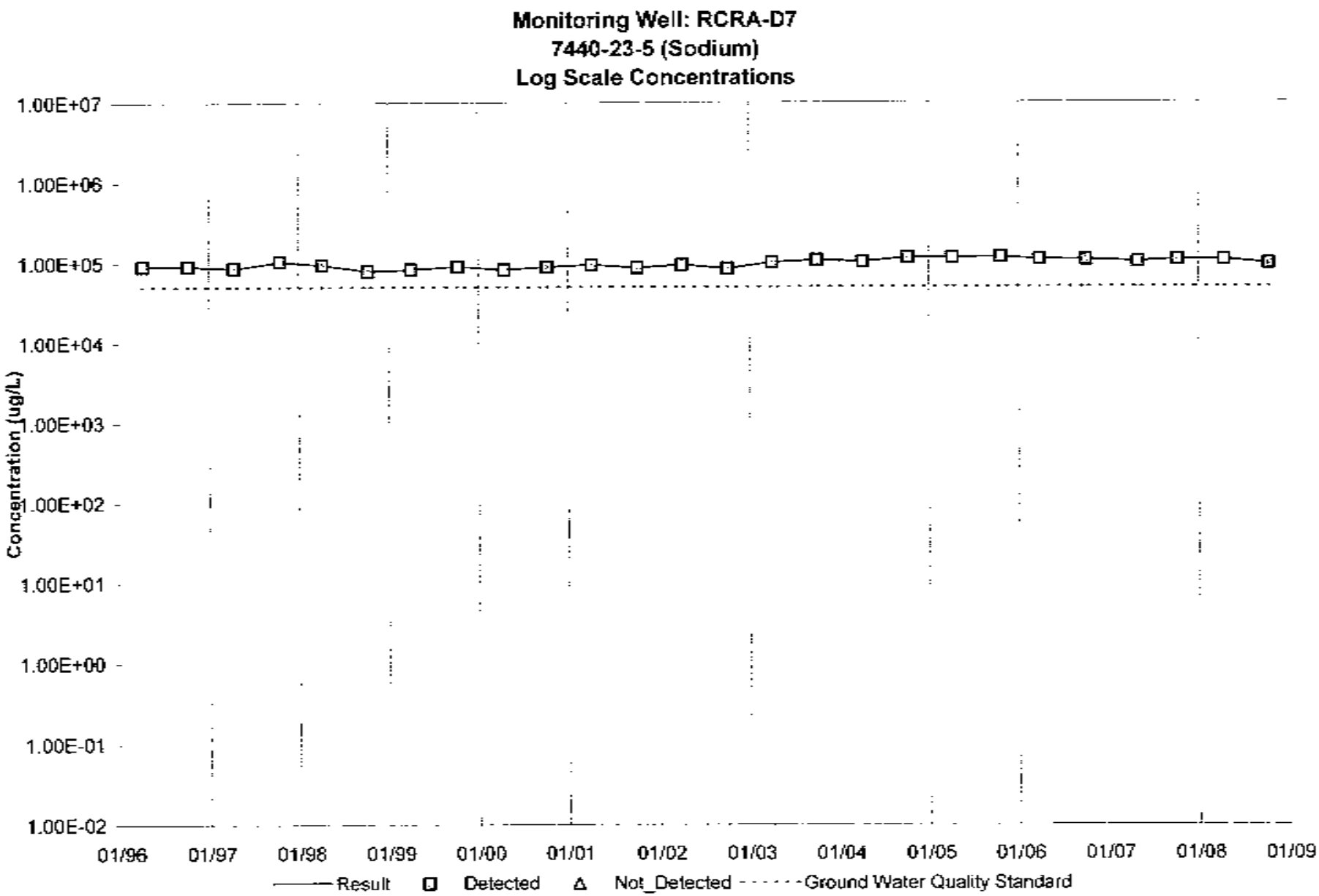

Monitoring Well: III
7440-23-5 (Sodium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

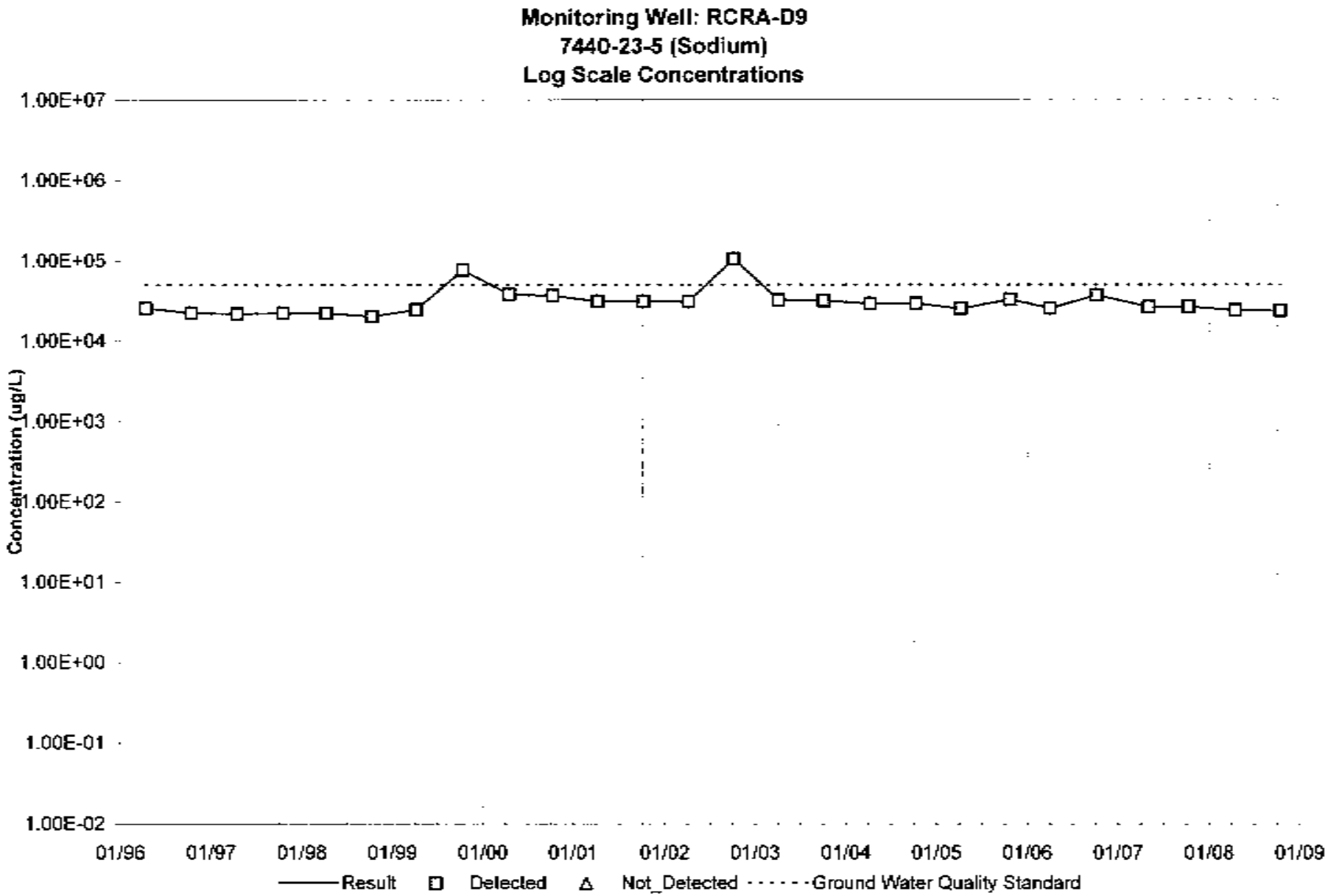

Monitoring Well: RCRA-D10
7440-23-5 (Sodium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

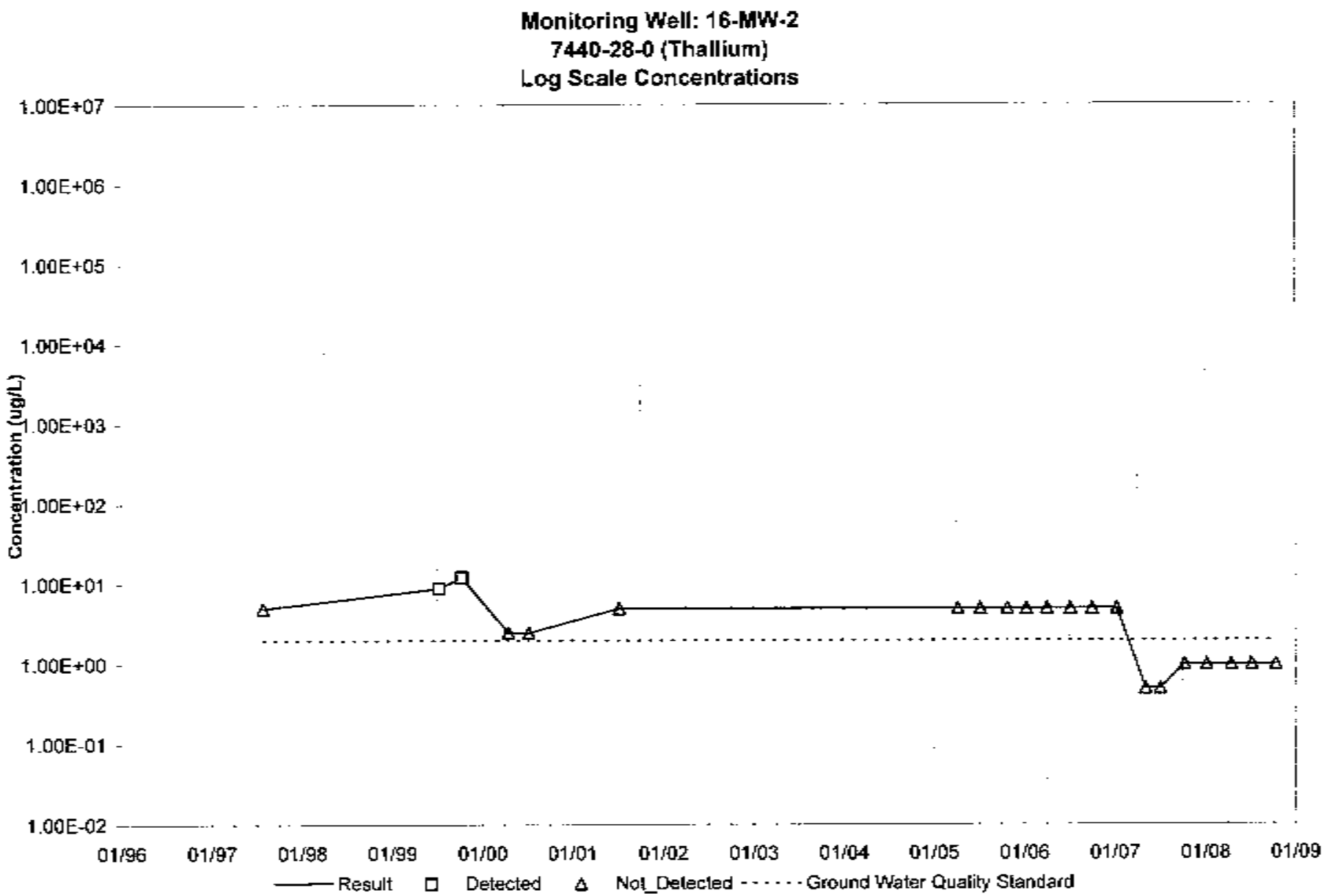

Monitoring Well: RCRA-D3
7440-23-5 (Sodium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

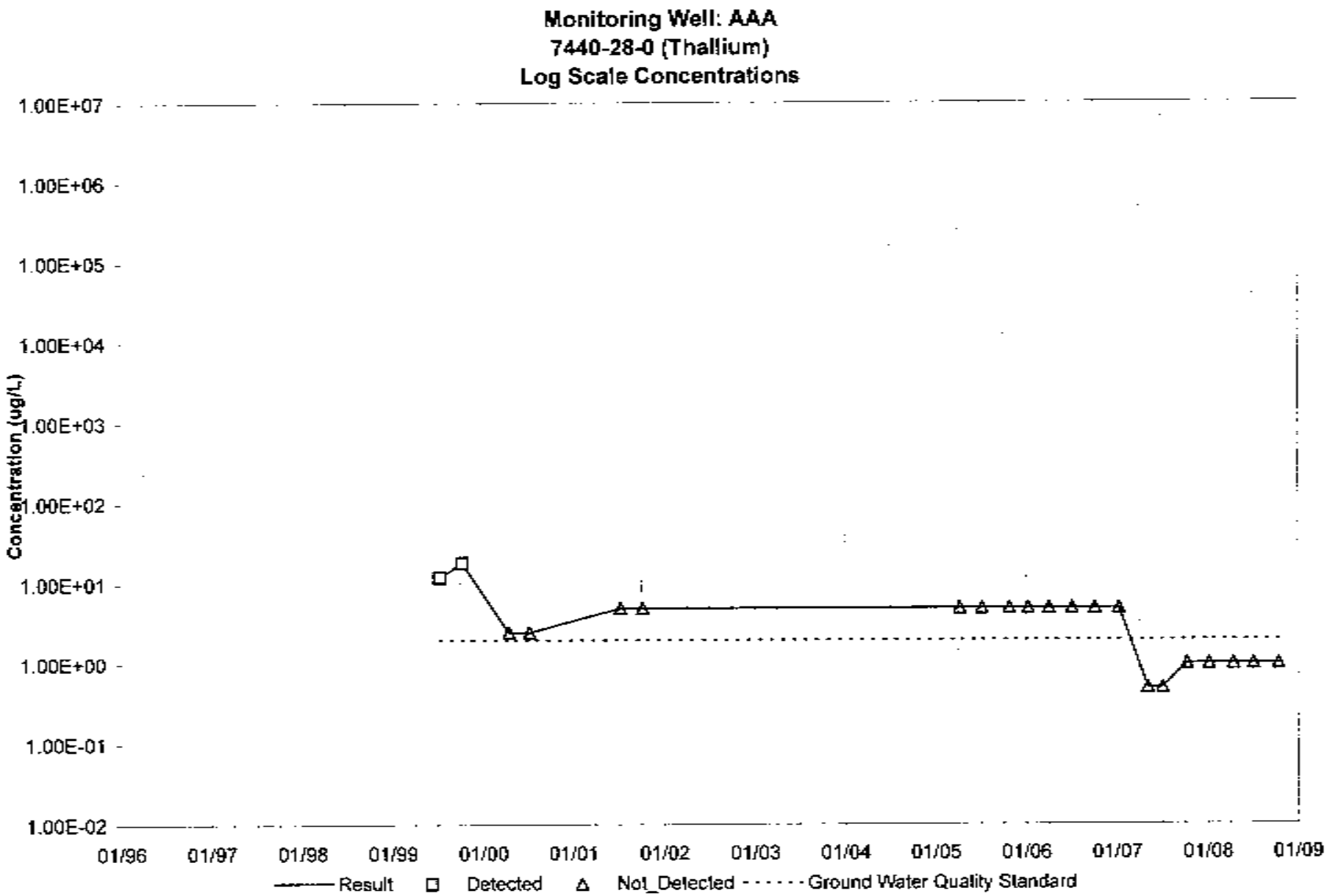

Monitoring Well: RCRA-D5
7440-23-5 (Sodium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

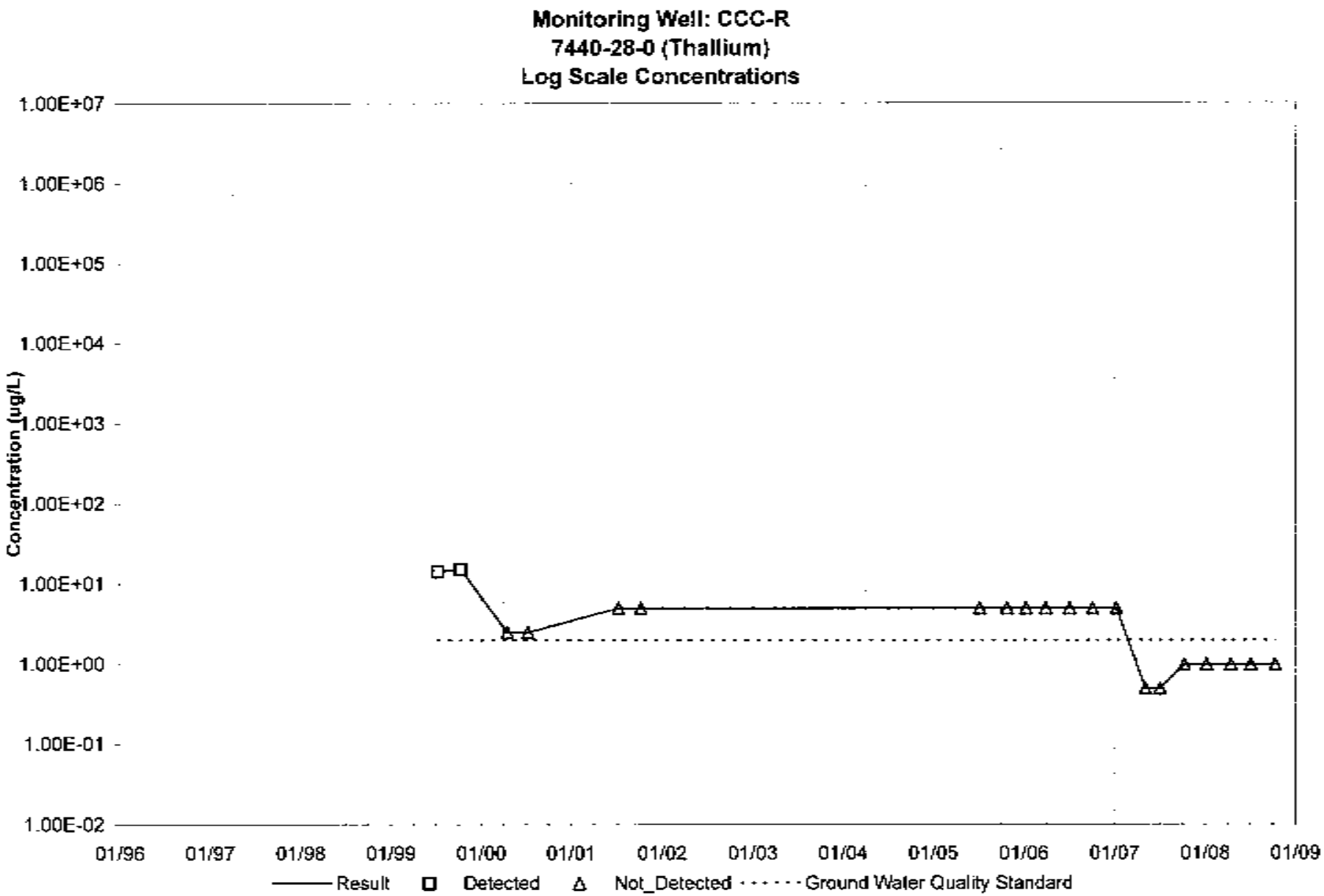

Monitoring Well: RCRA-D6
7440-23-5 (Sodium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

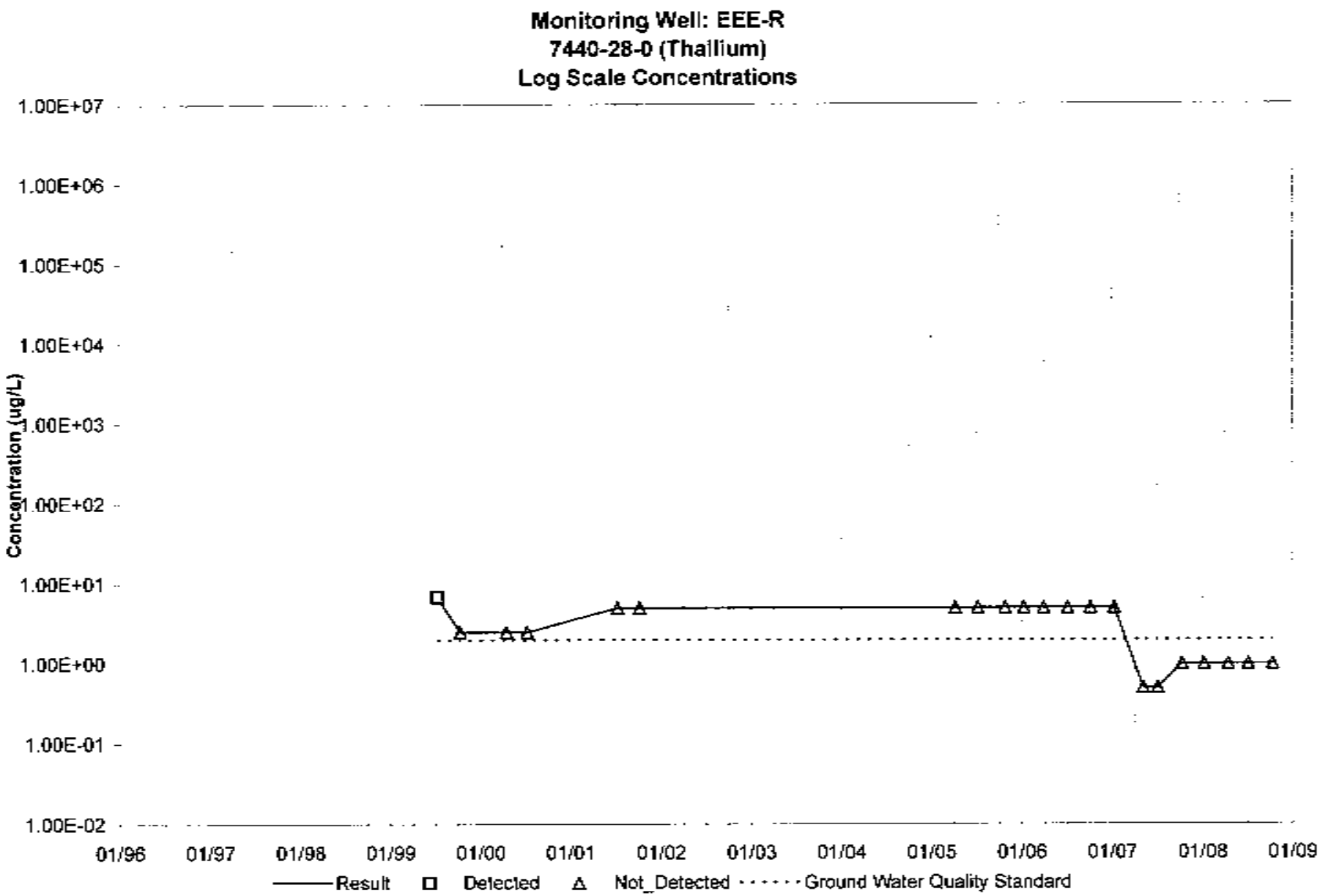

Monitoring Well: RCRA-D7
7440-23-5 (Sodium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

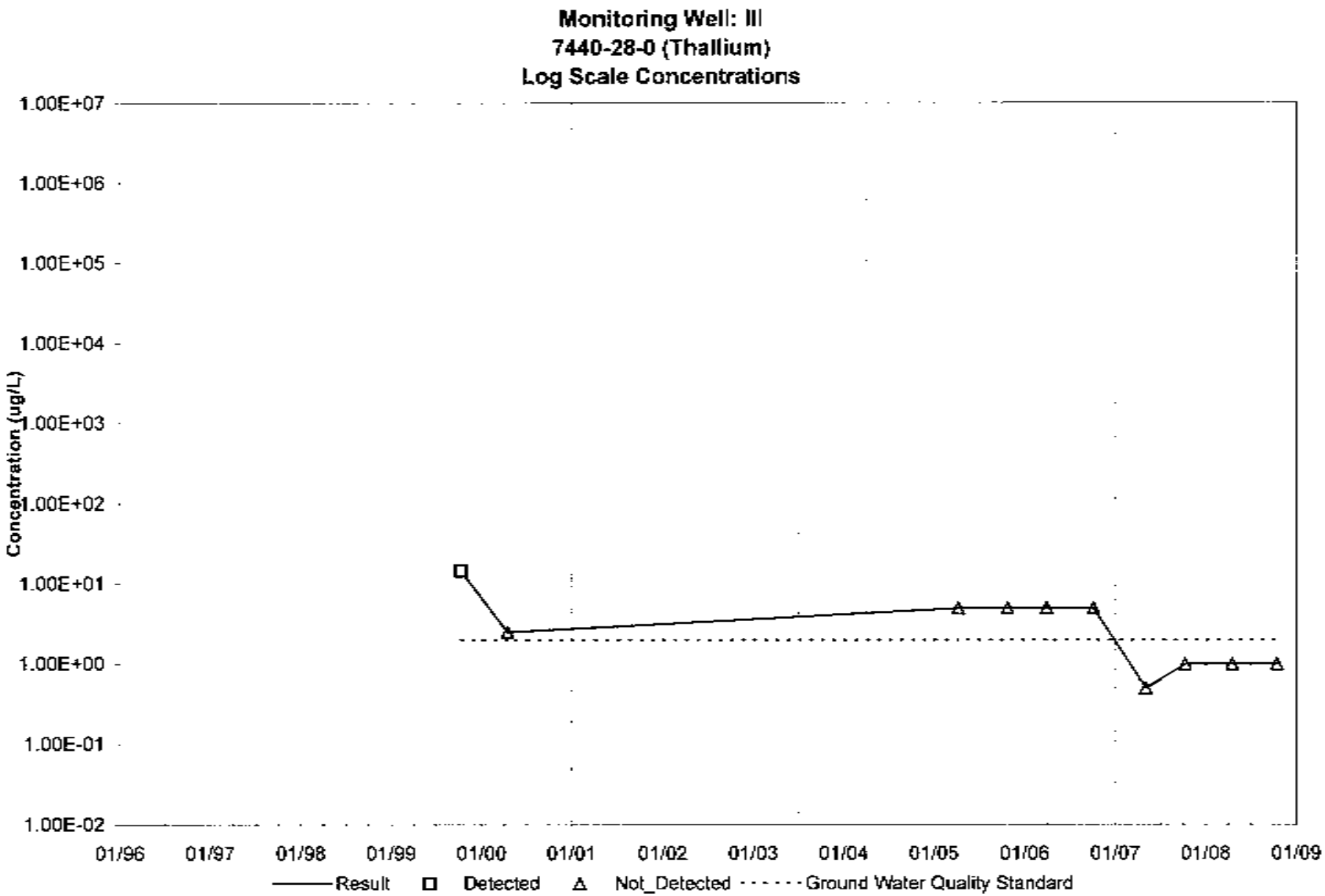

Monitoring Well: RCRA-D9
7440-23-5 (Sodium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

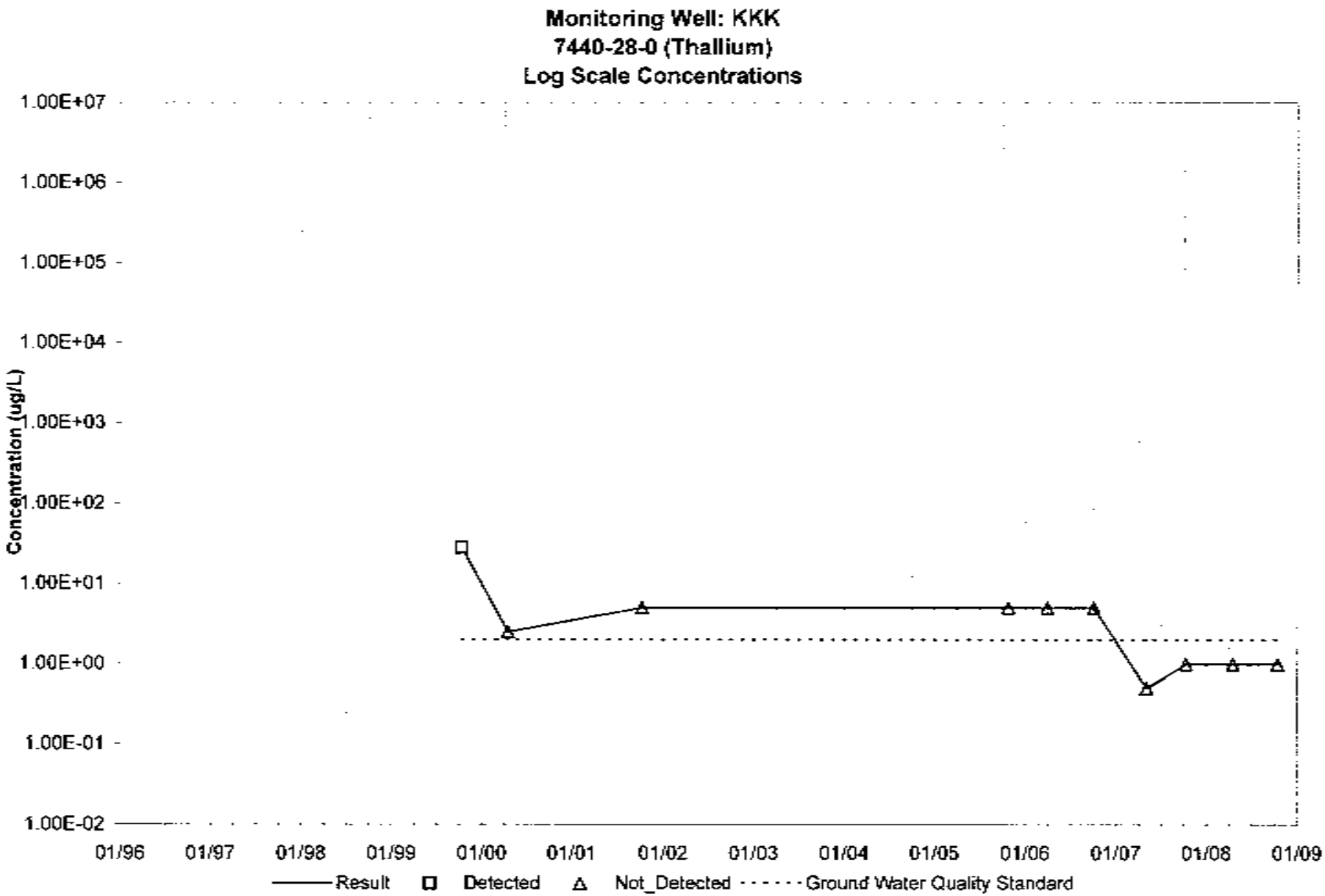

Monitoring Well: 16-MW-2
7440-28-0 (Thallium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

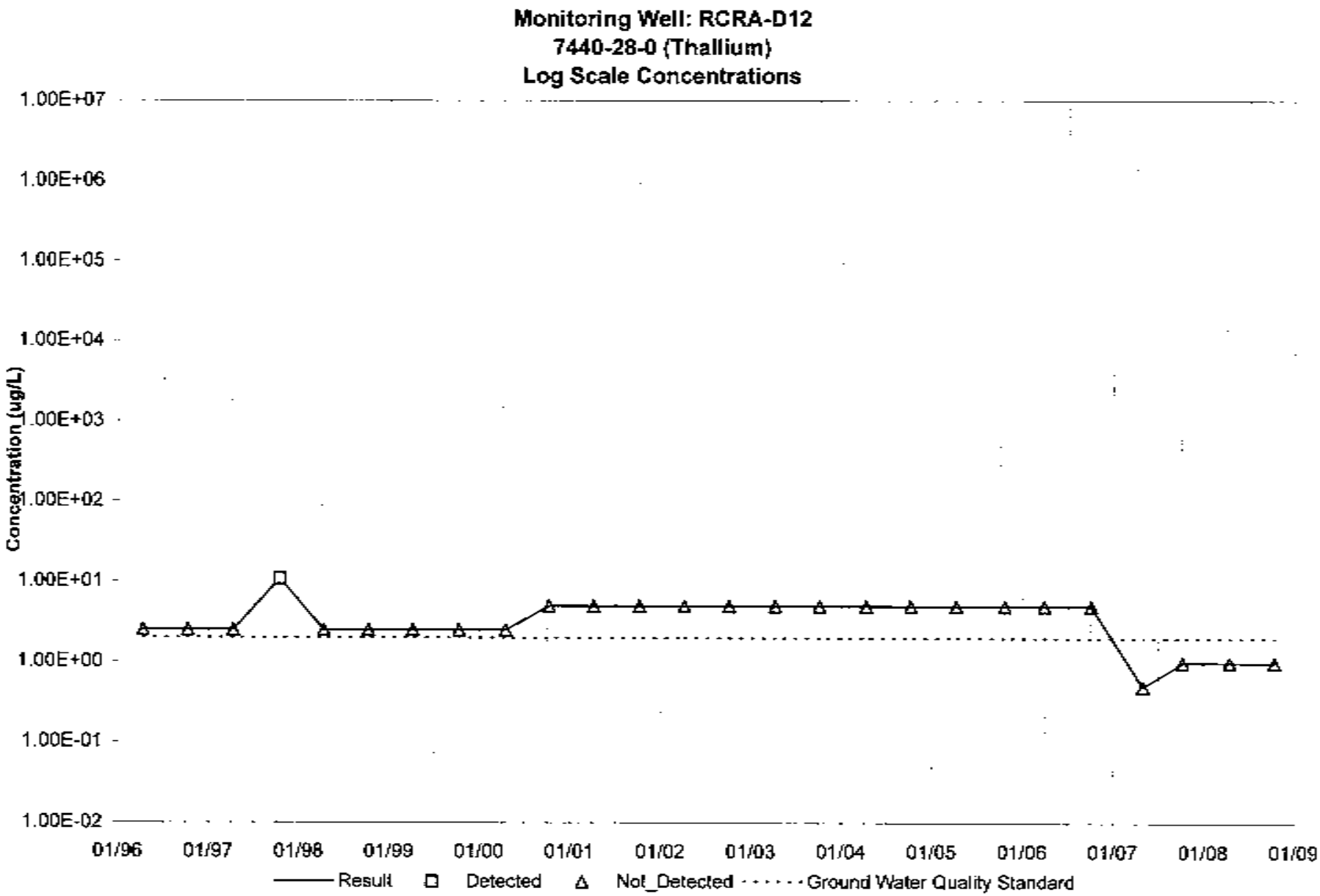

Monitoring Well: AAA
7440-28-0 (Thallium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

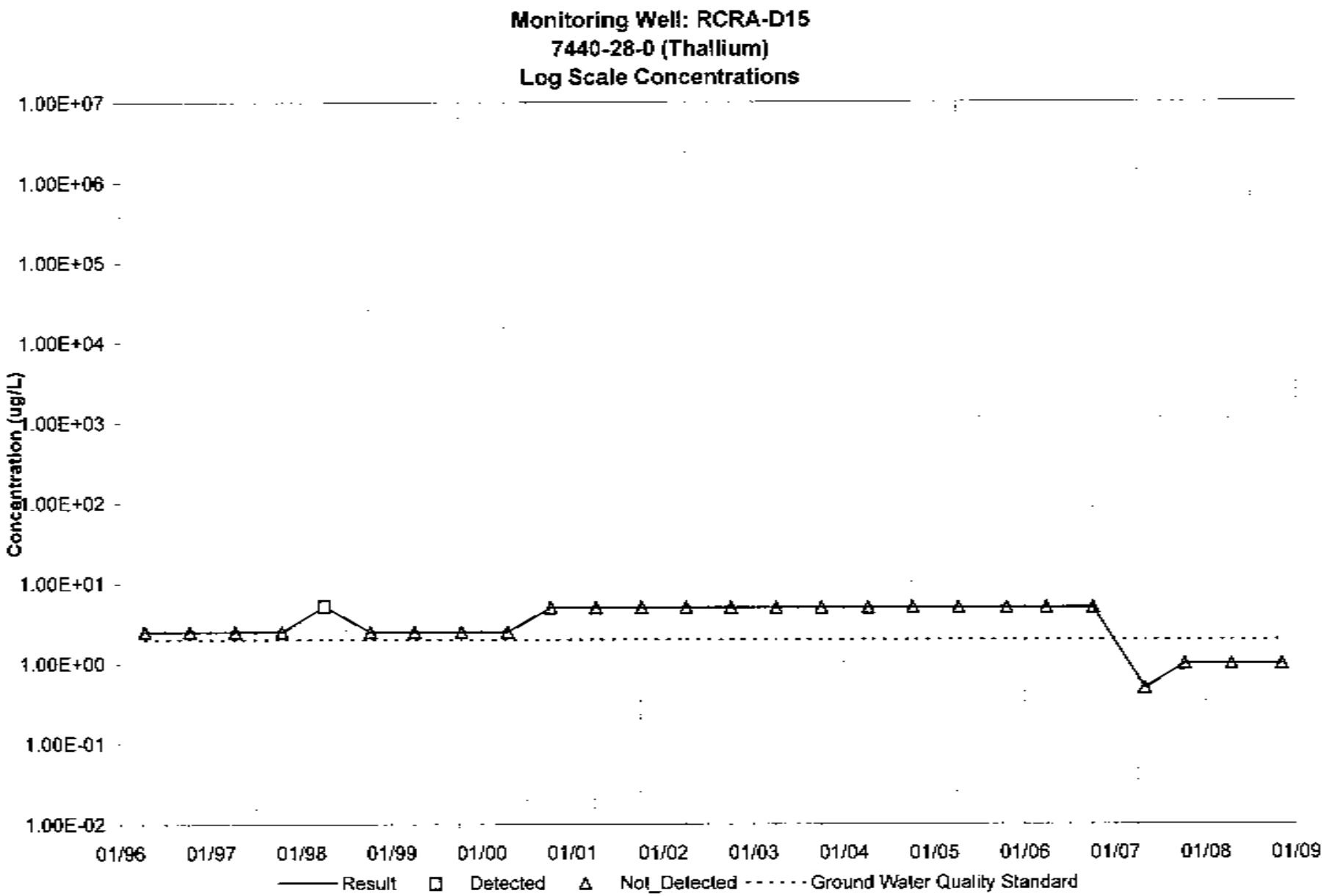

Monitoring Well: CCC-R
7440-28-0 (Thallium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

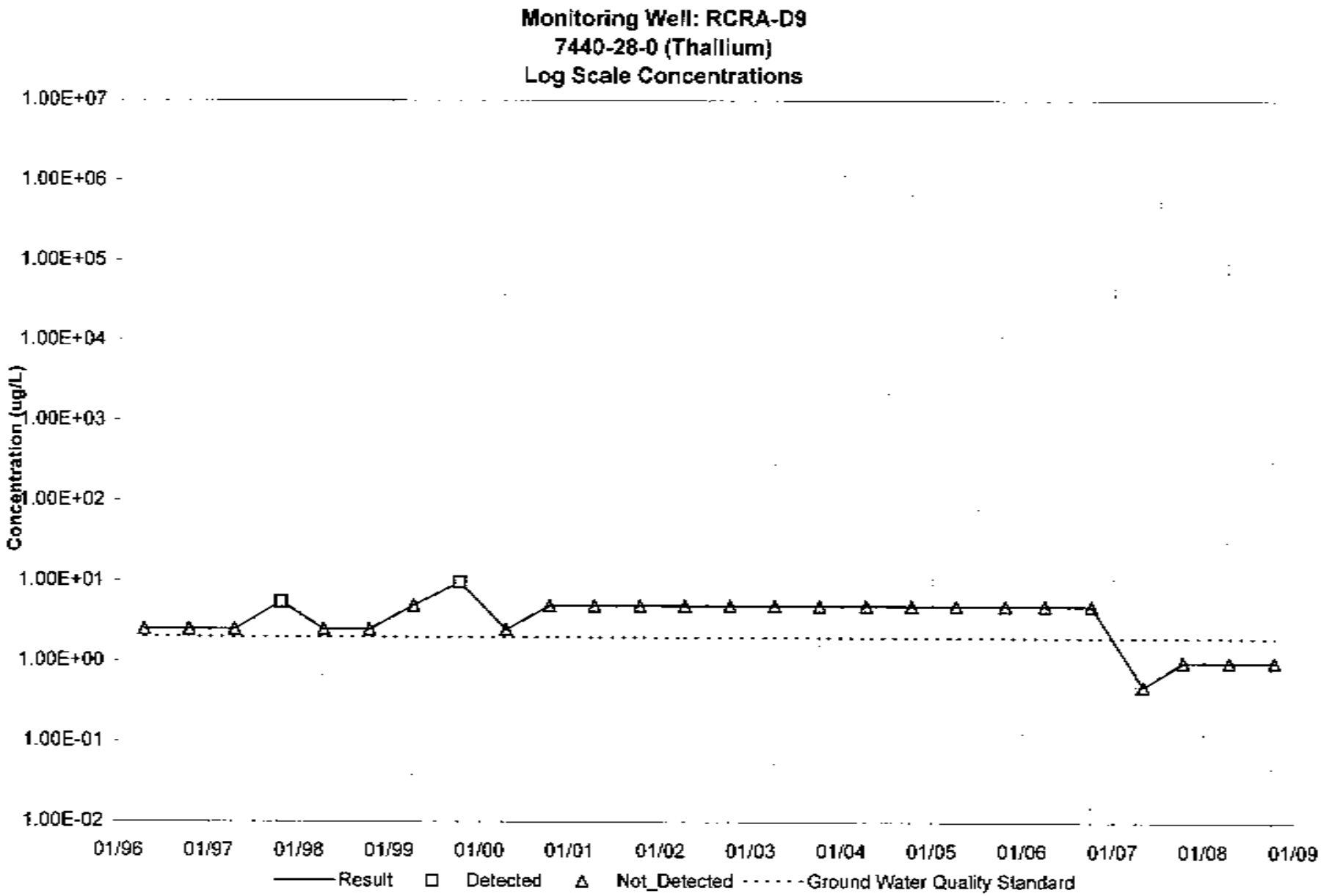

Monitoring Well: EEE-R
7440-28-0 (Thallium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

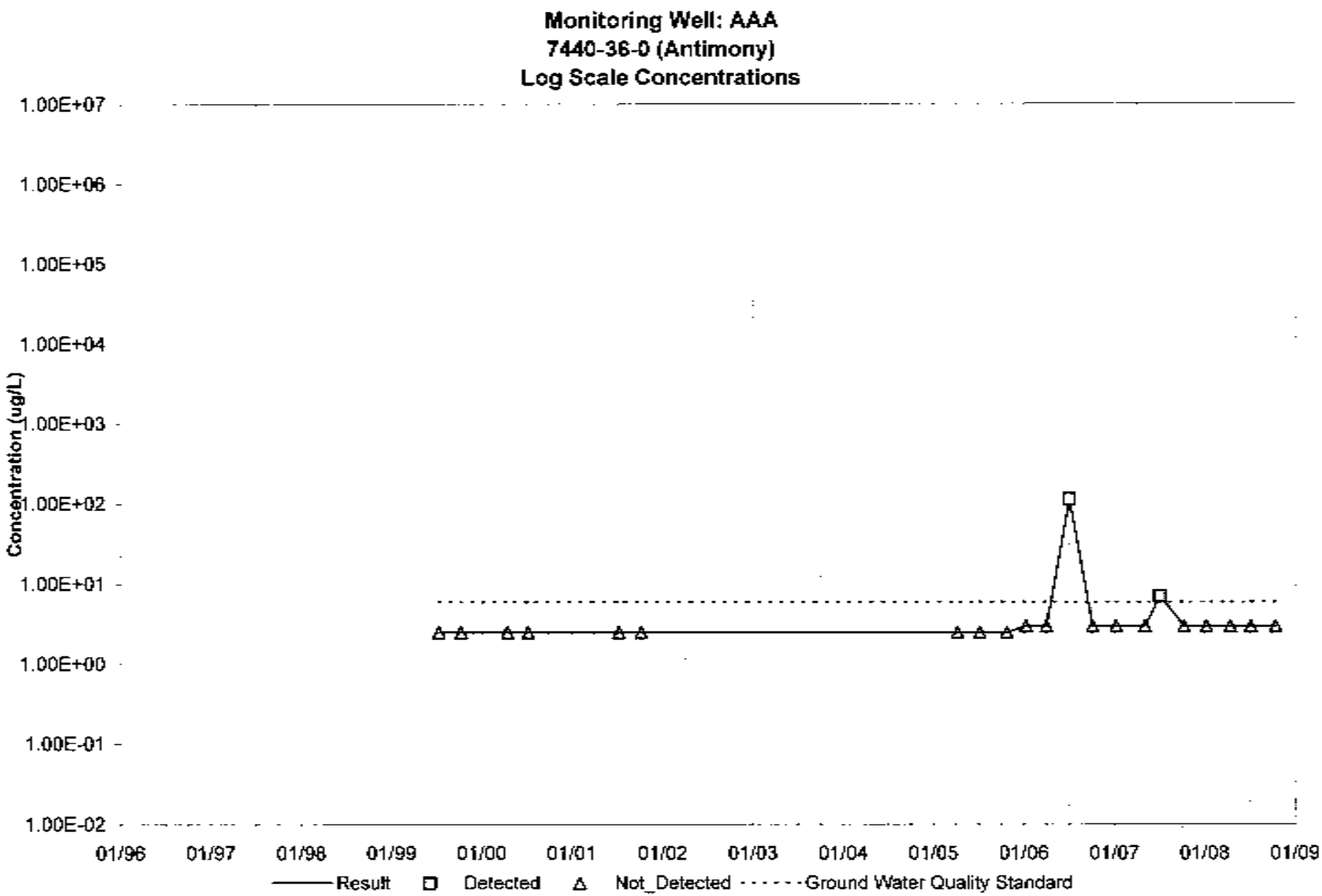

Monitoring Well: III
7440-28-0 (Thallium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

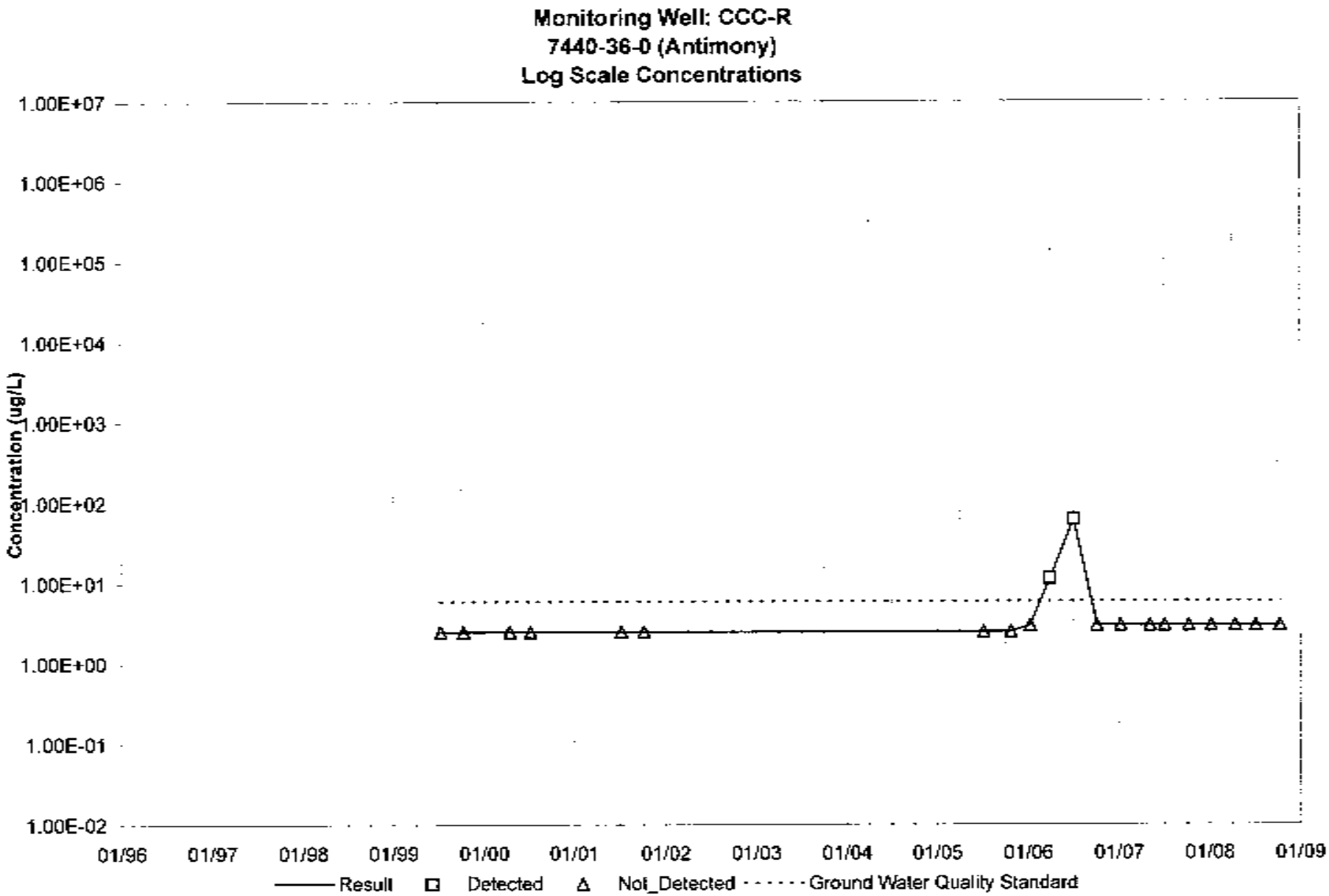

Monitoring Well: KKK
7440-28-0 (Thallium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

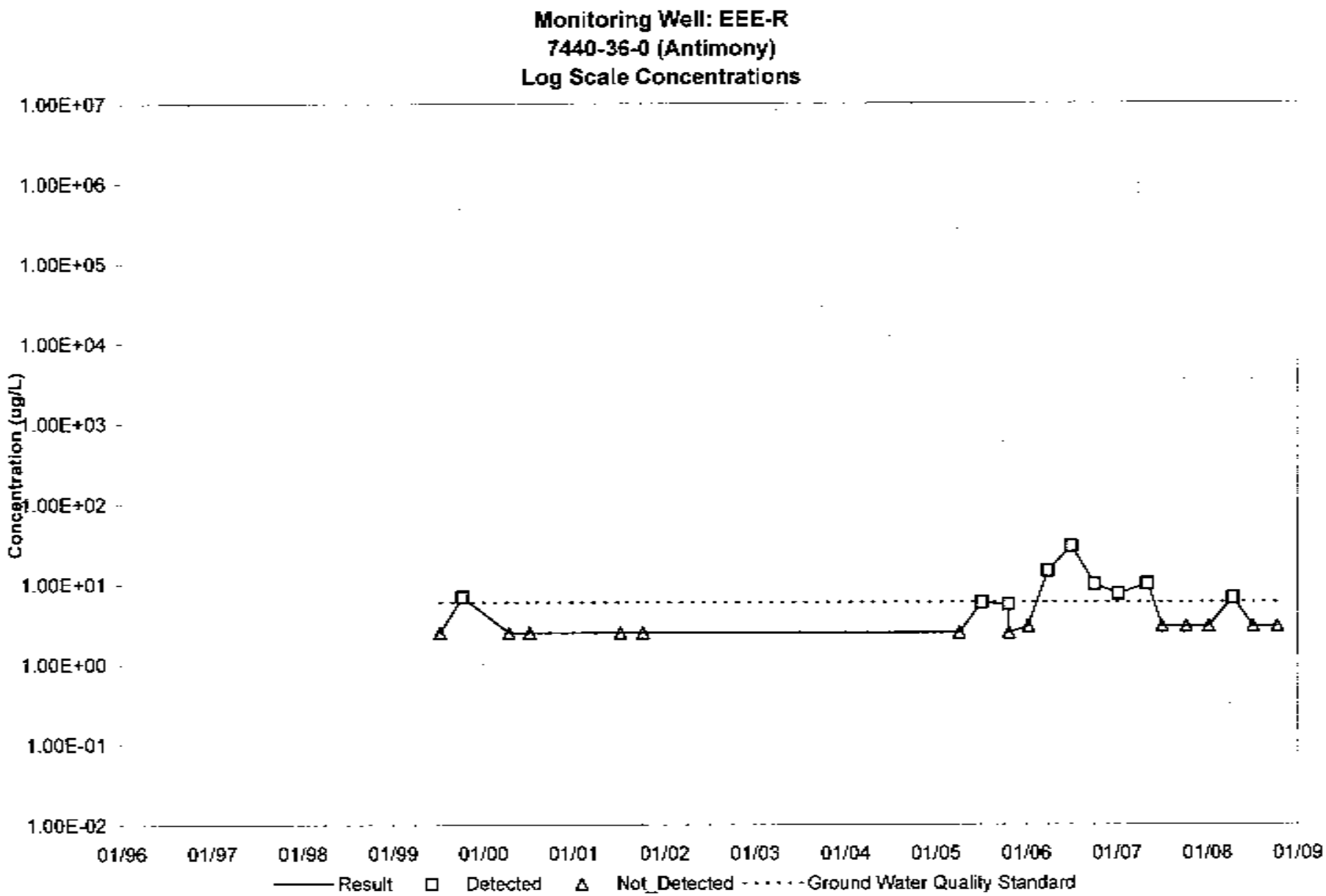

Monitoring Well: RCRA-D12
7440-28-0 (Thallium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

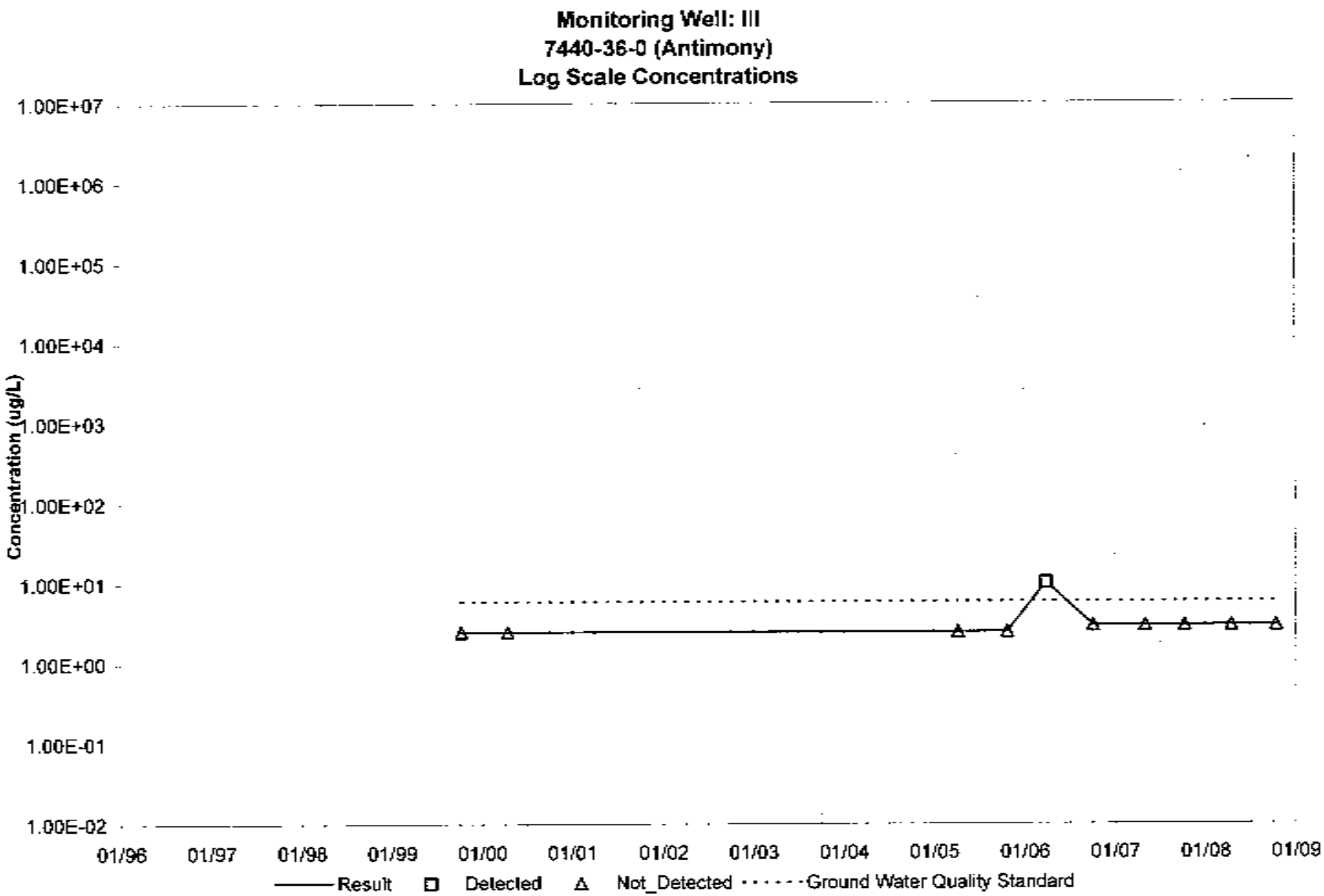

Monitoring Well: RCRA-D15
7440-28-0 (Thallium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

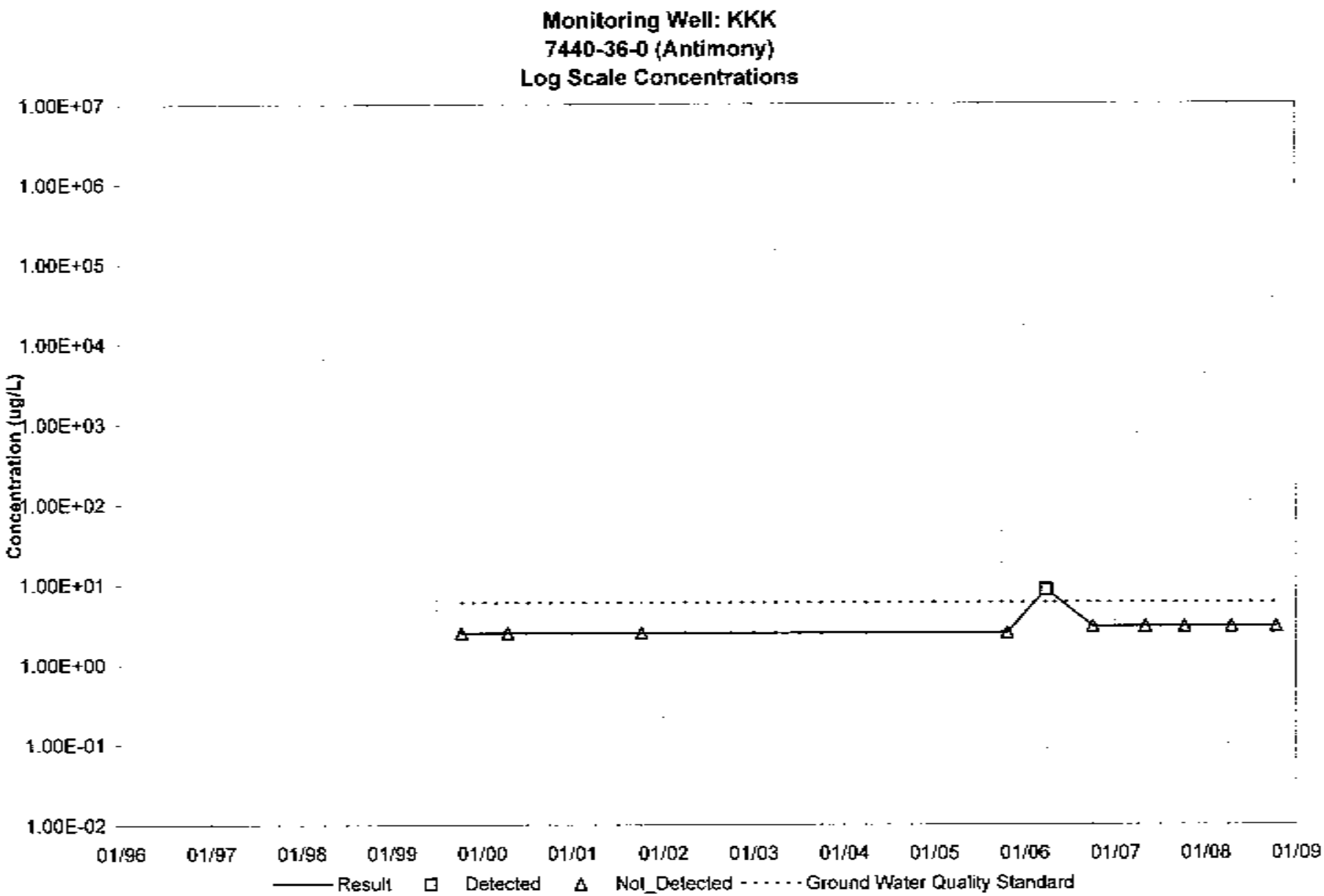

Monitoring Well: RCRA-D9
7440-28-0 (Thallium)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

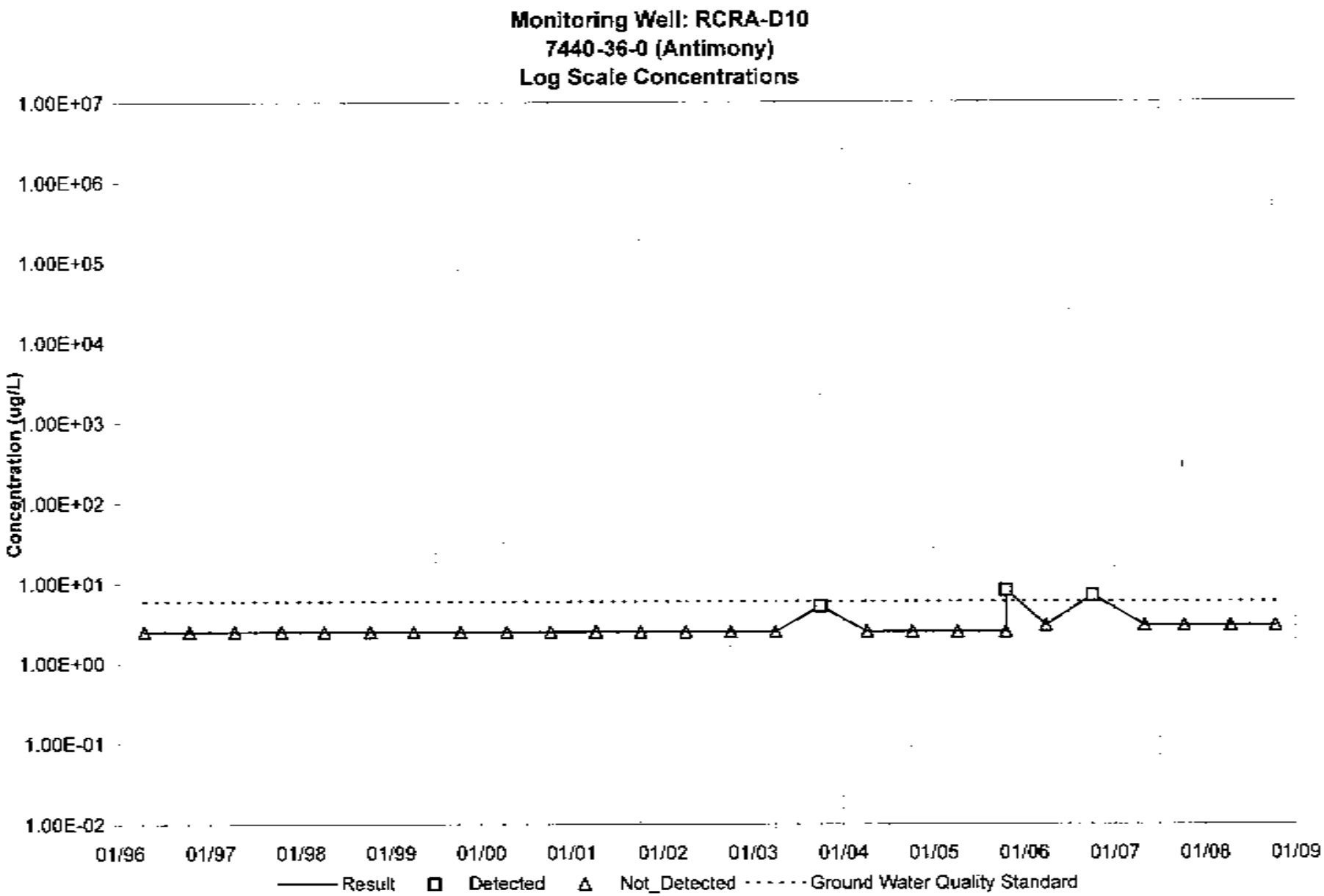

Monitoring Well: AAA
7440-36-0 (Antimony)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

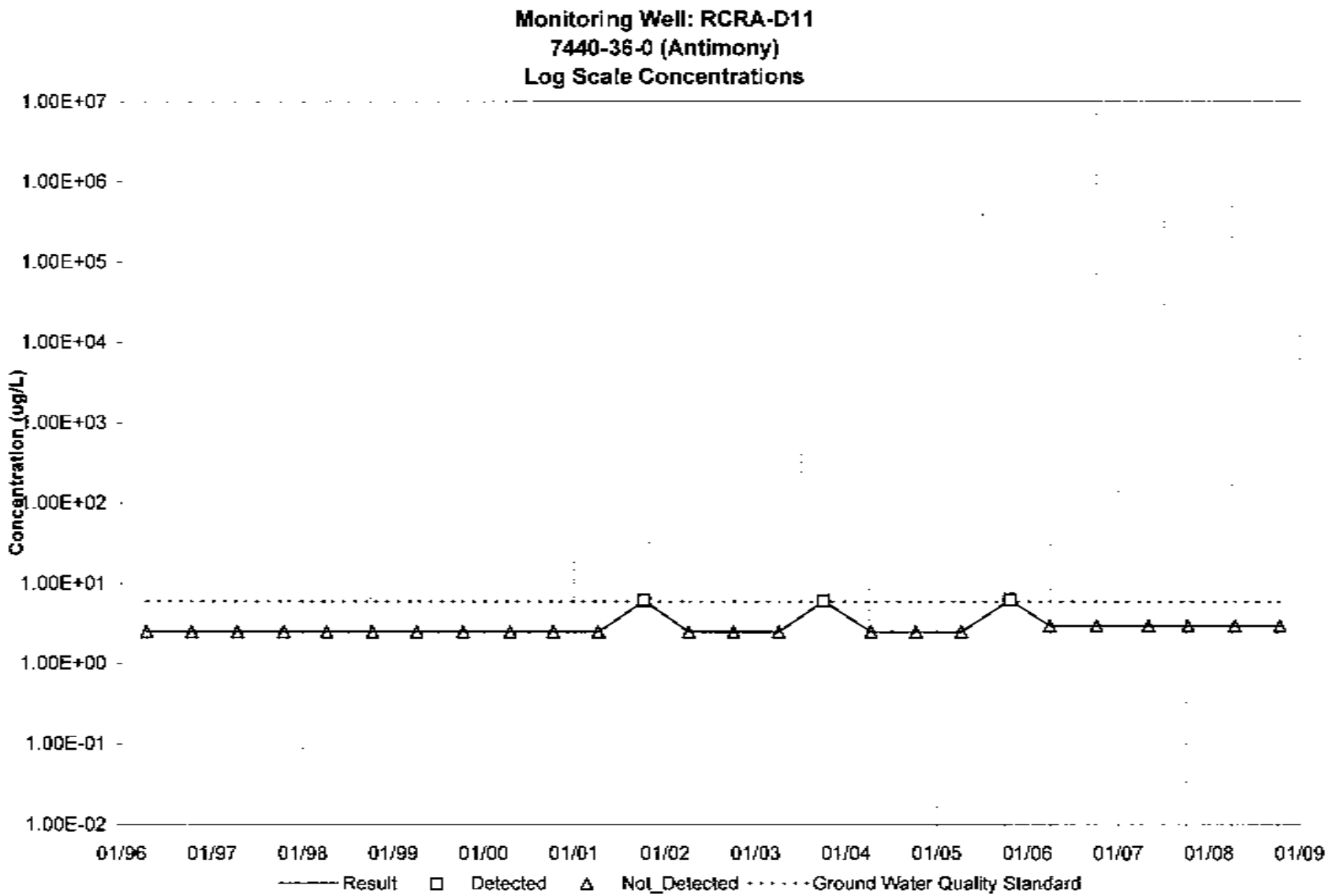

Monitoring Well: CCC-R
7440-36-0 (Antimony)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

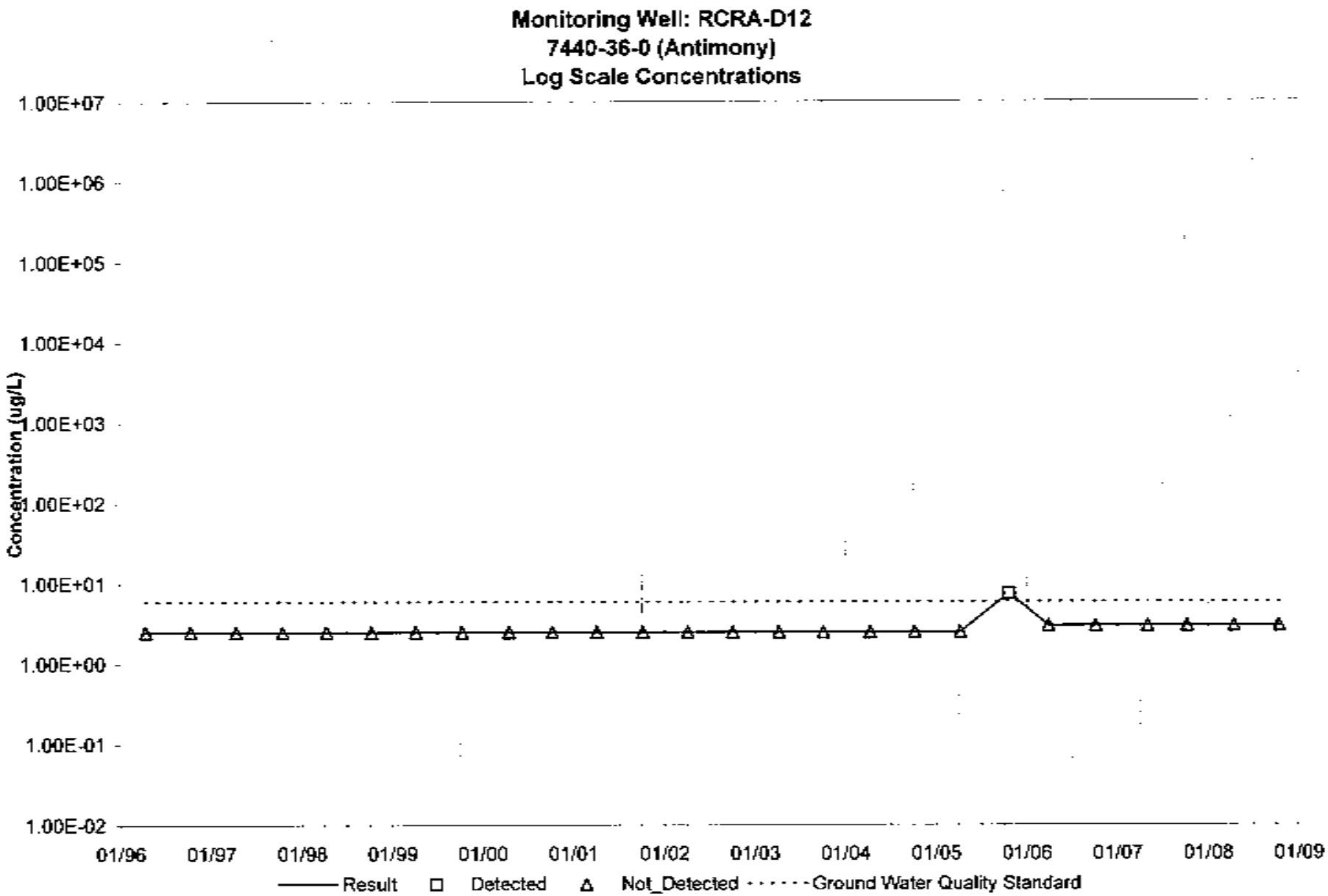

Monitoring Well: EEE-R
7440-36-0 (Antimony)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

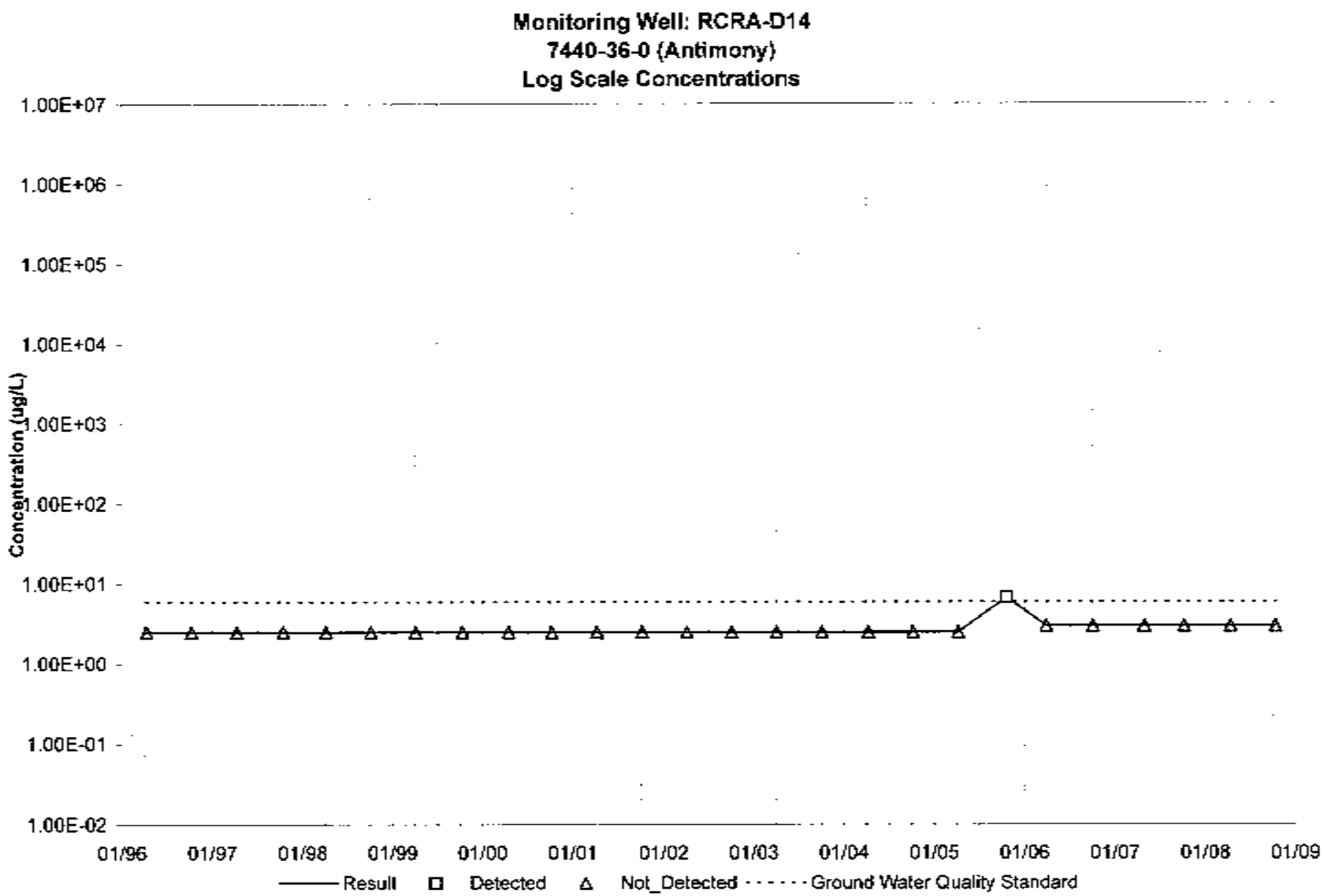

Monitoring Well: III
7440-36-0 (Antimony)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

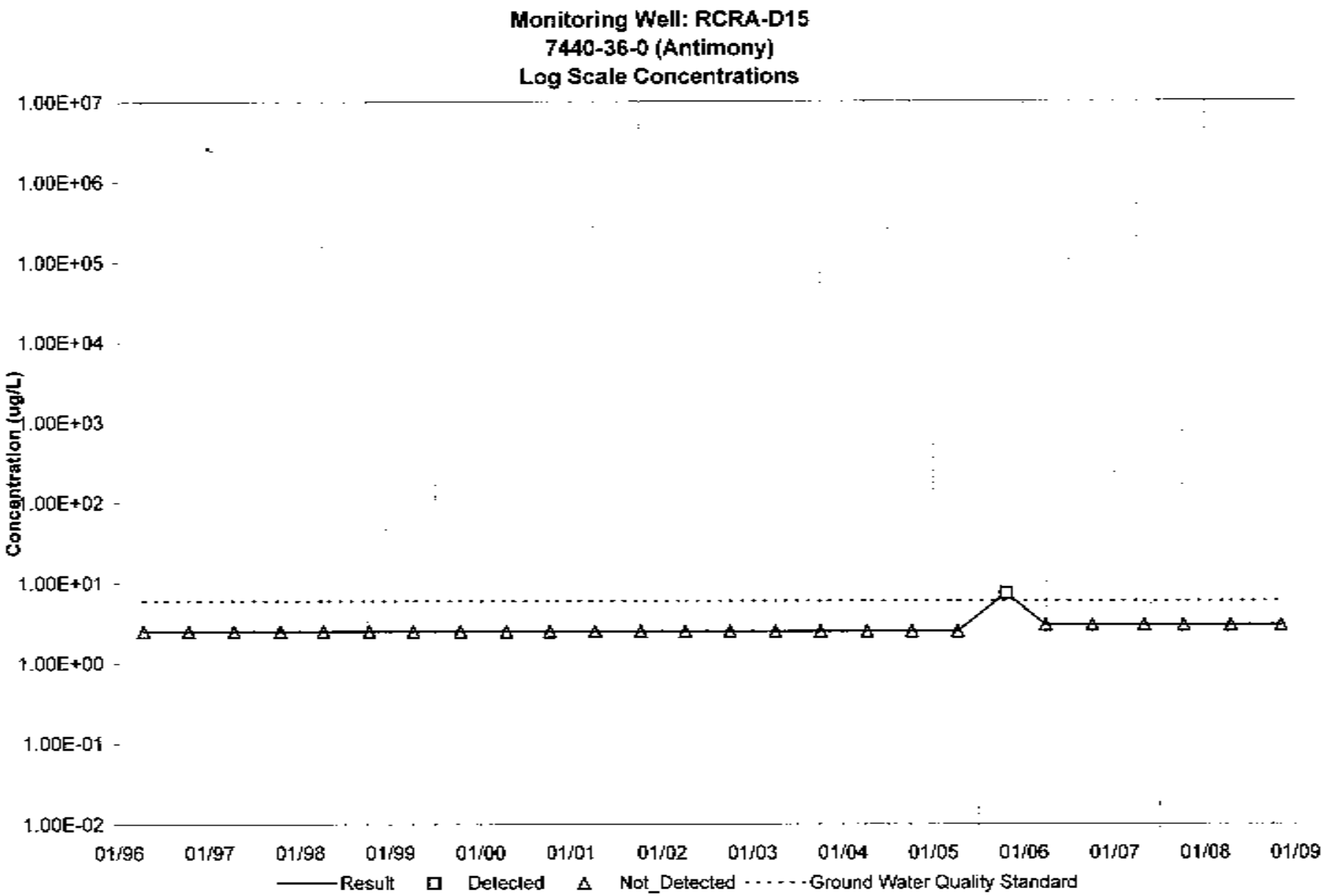

Monitoring Well: KKK
7440-36-0 (Antimony)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

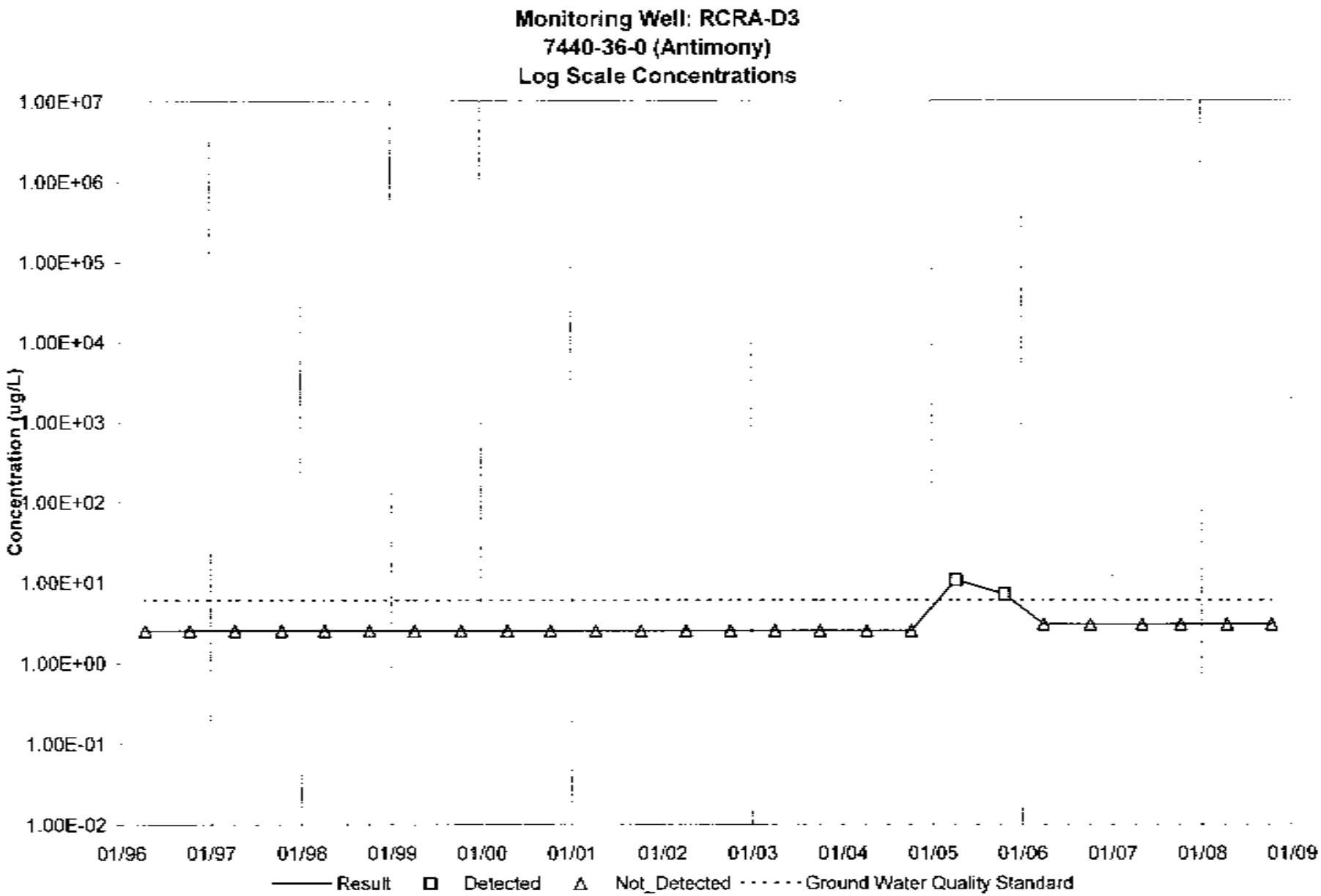

Monitoring Well: RCRA-D10
7440-36-0 (Antimony)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

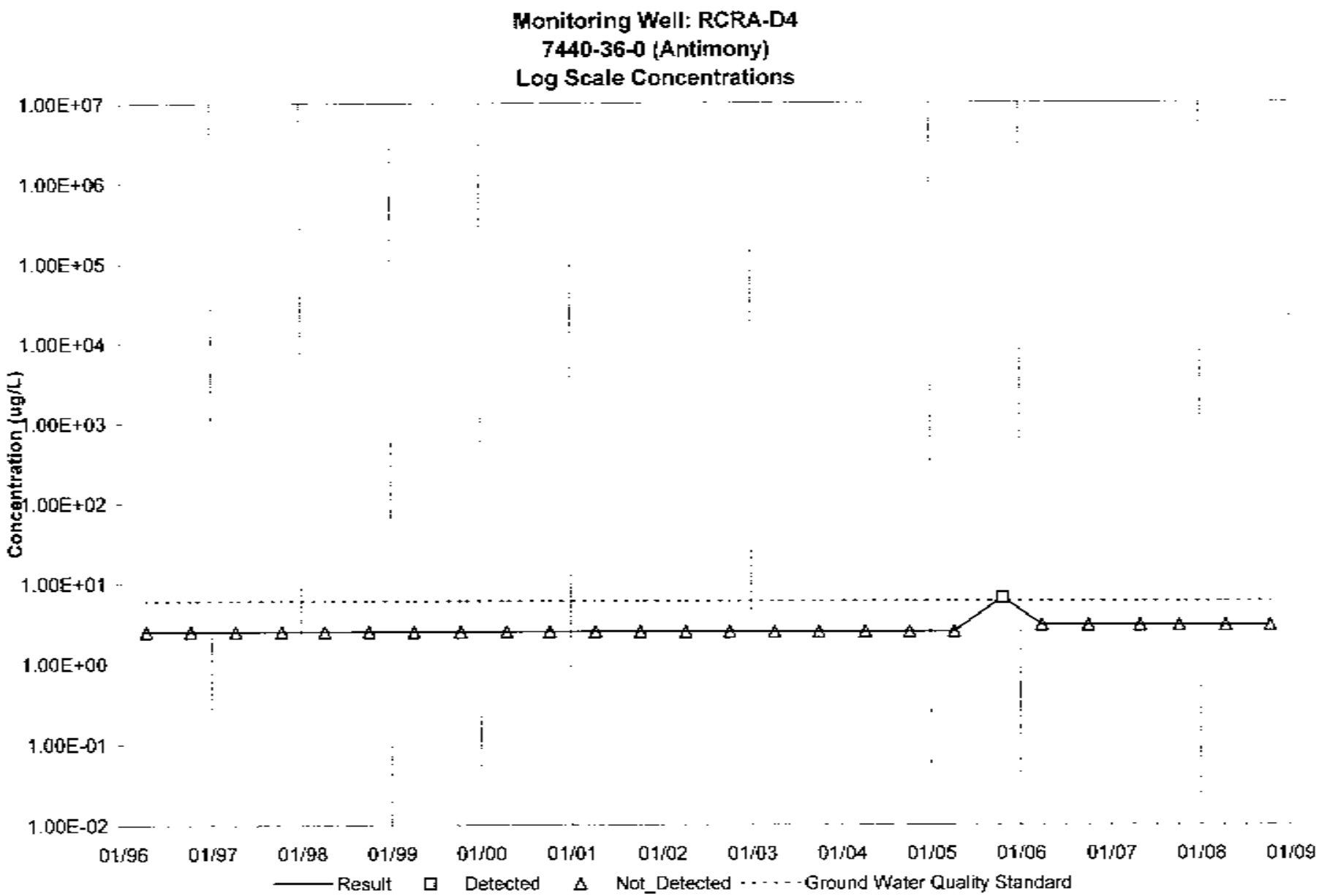

Monitoring Well: RCRA-D11
7440-36-0 (Antimony)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

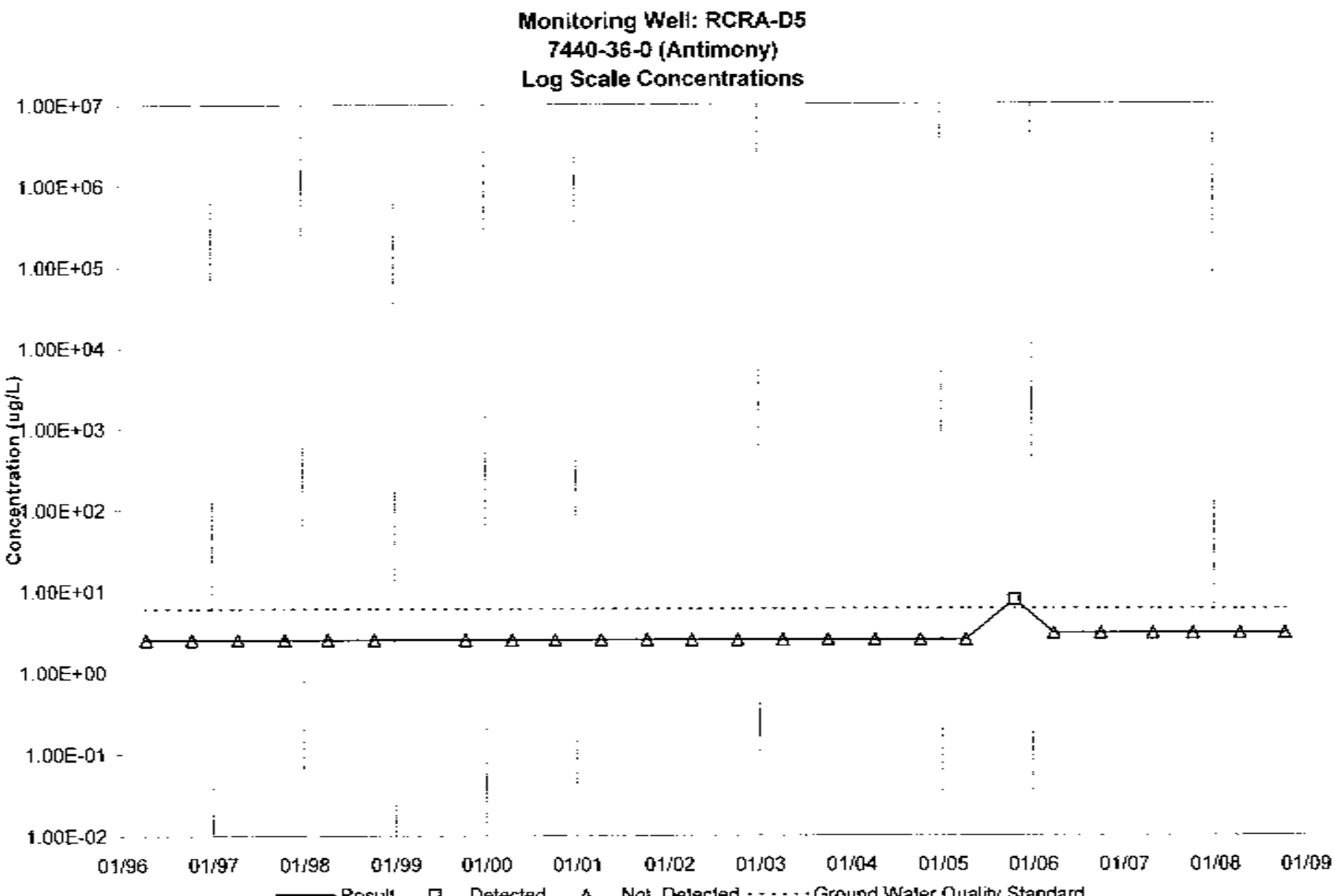

Monitoring Well: RCRA-D12
7440-36-0 (Antimony)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

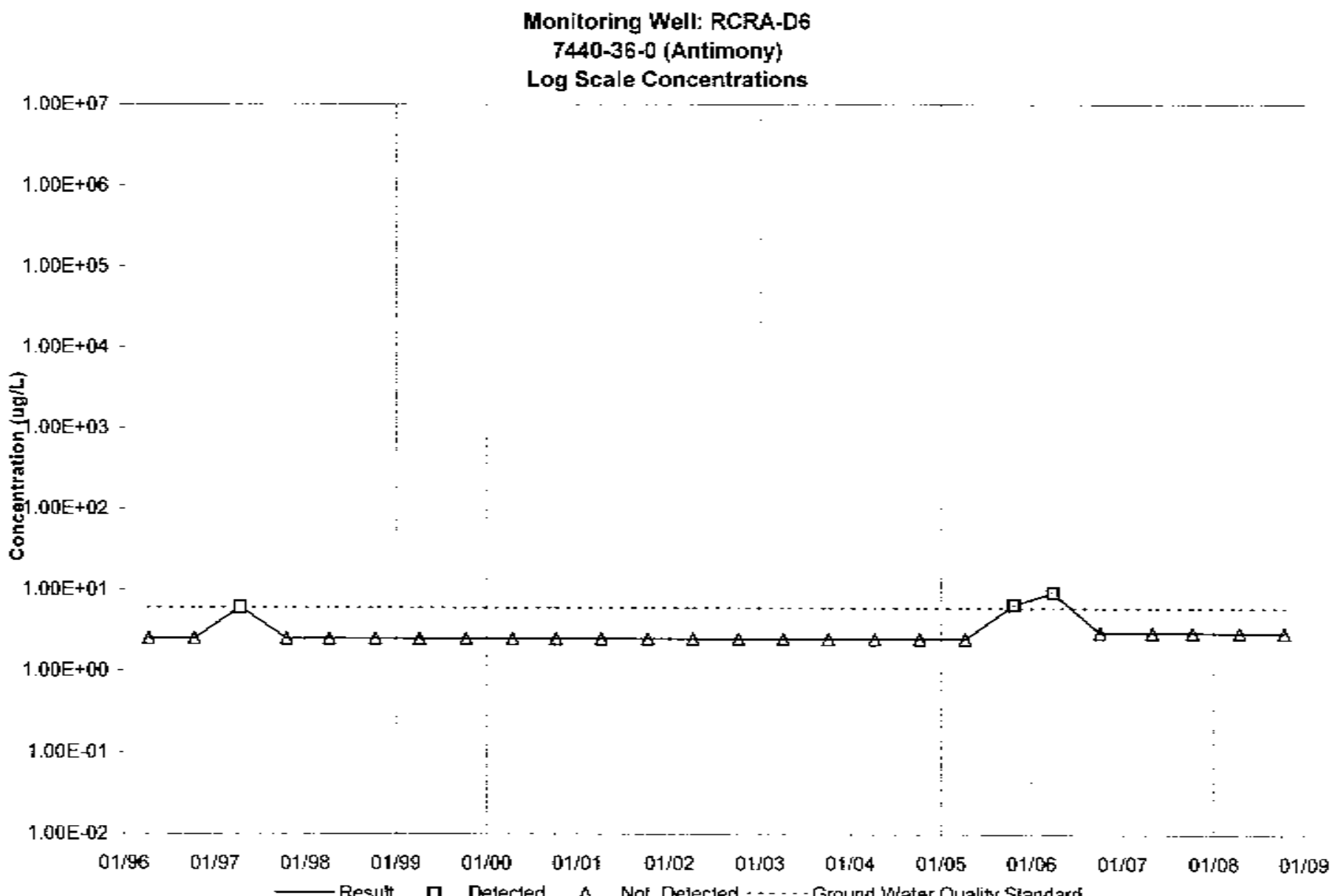

Monitoring Well: RCRA-D14
7440-36-0 (Antimony)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

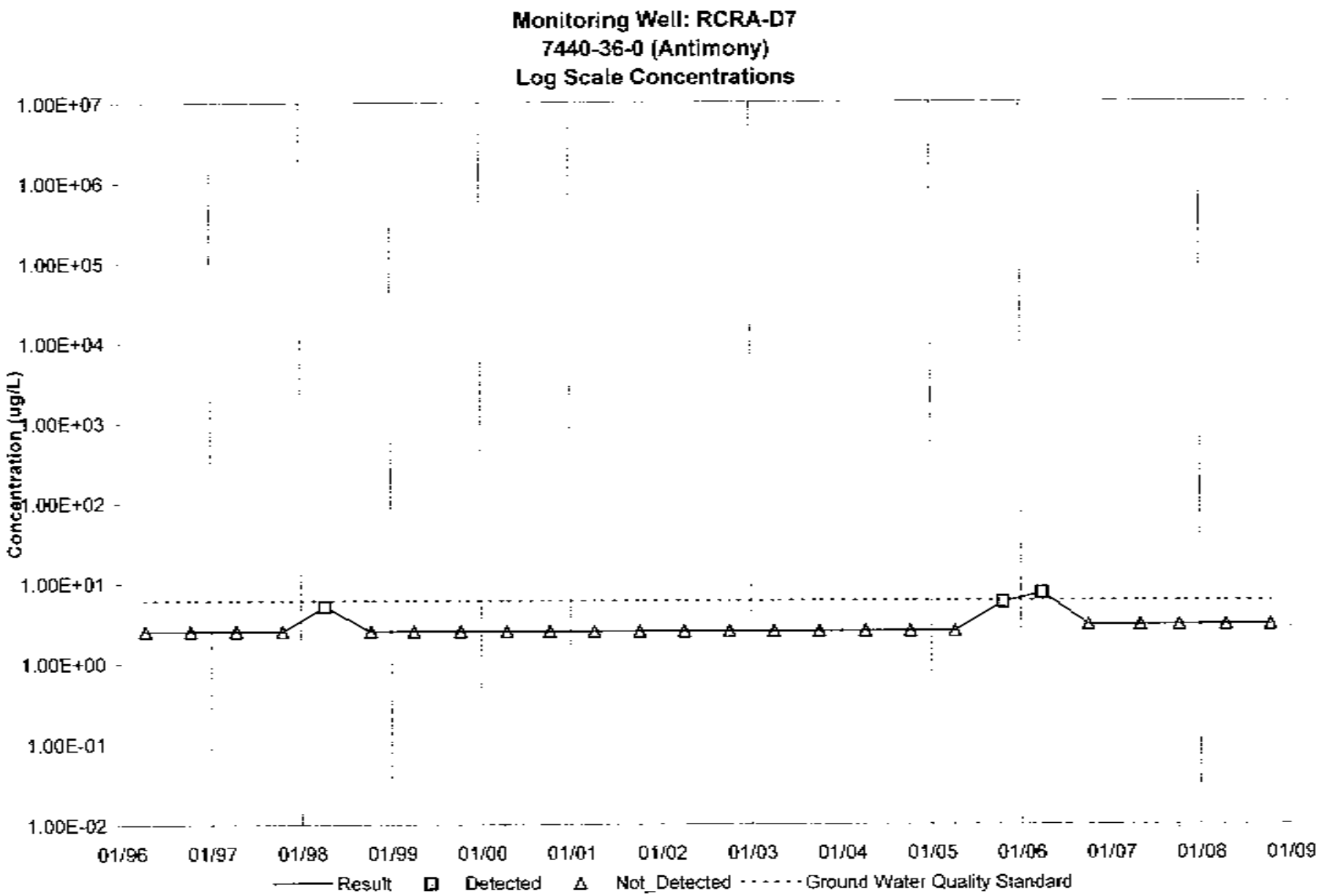

Monitoring Well: RCRA-D15
7440-36-0 (Antimony)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

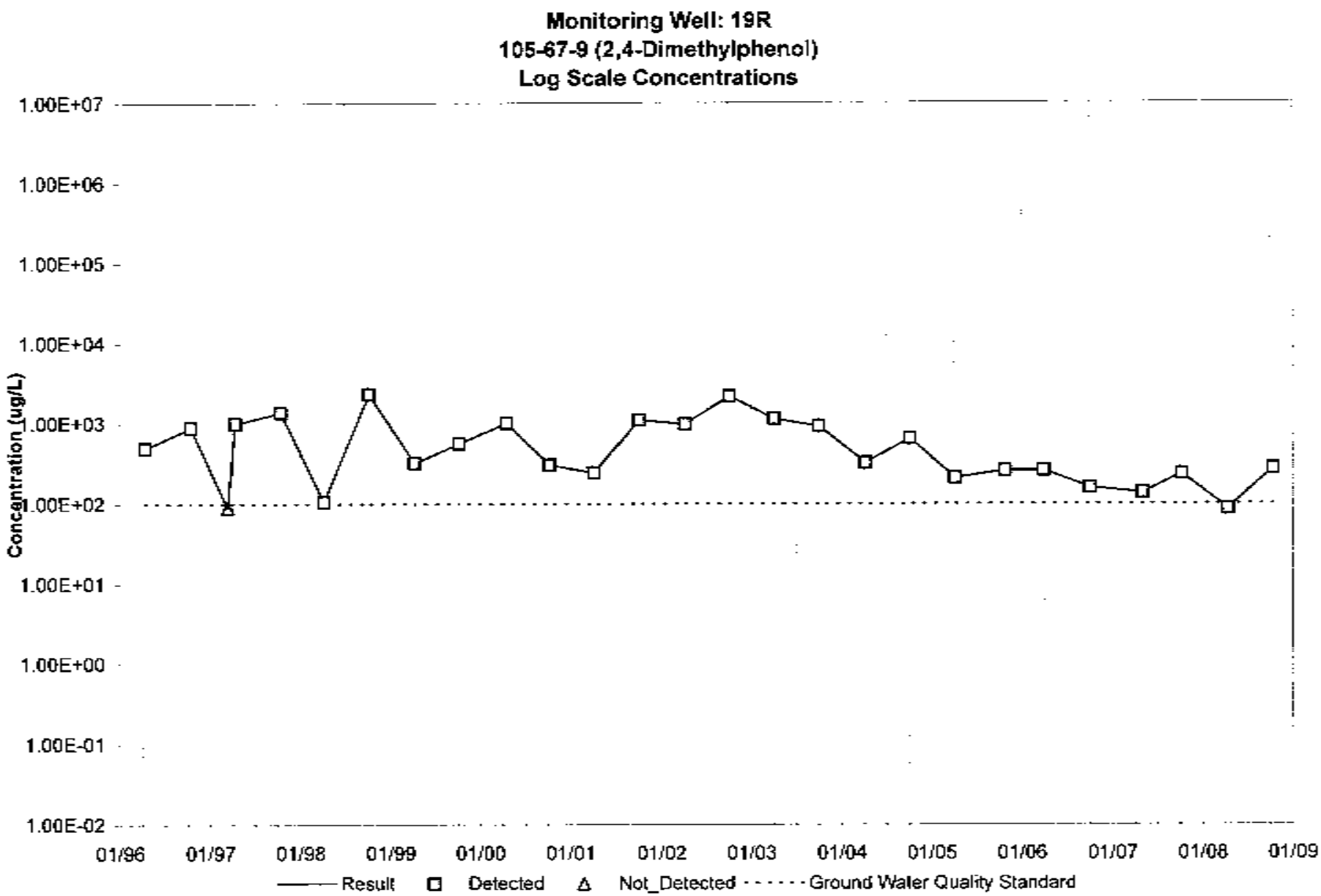

Monitoring Well: RCRA-D3
7440-36-0 (Antimony)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

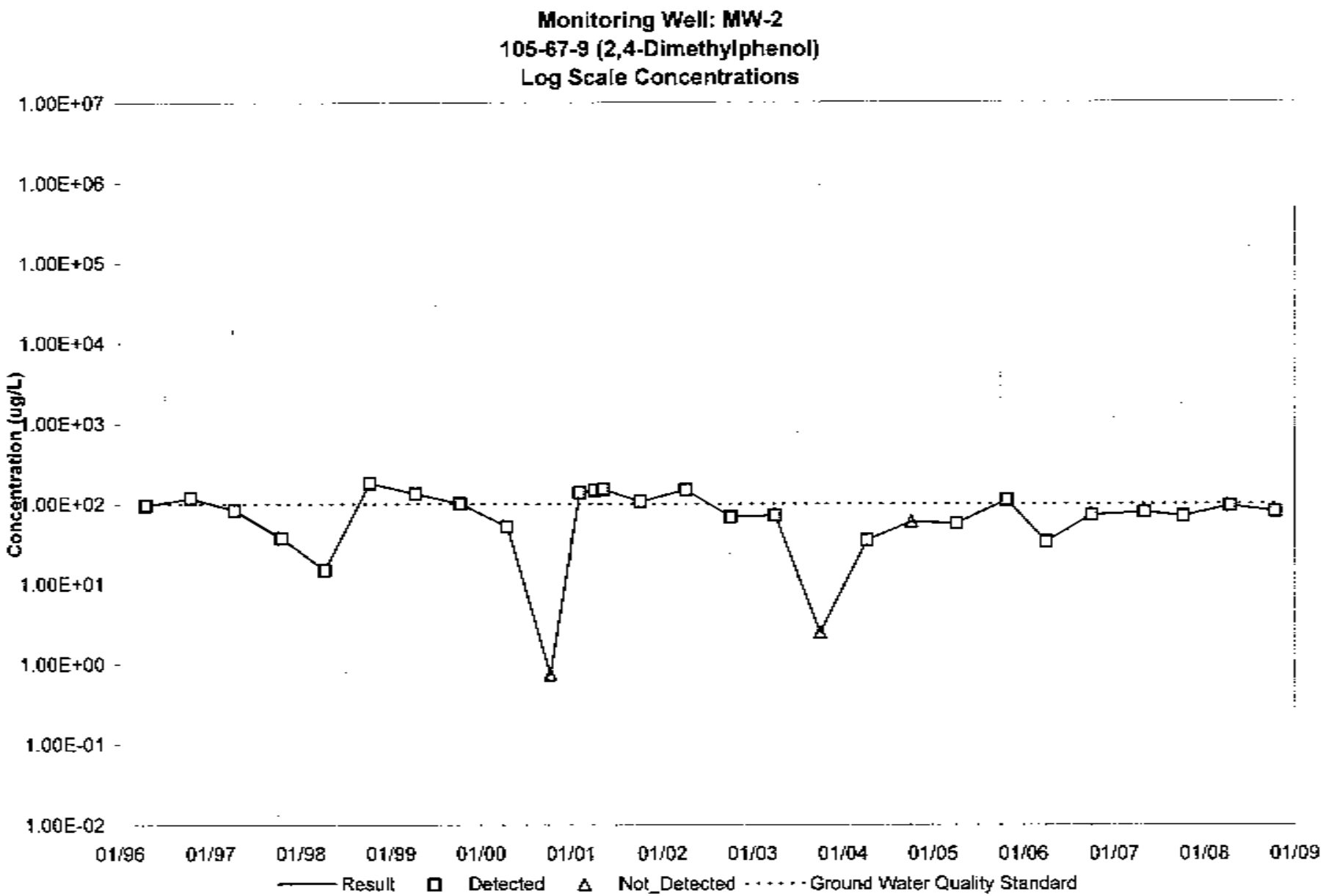

Monitoring Well: RCRA-D4
7440-36-0 (Antimony)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

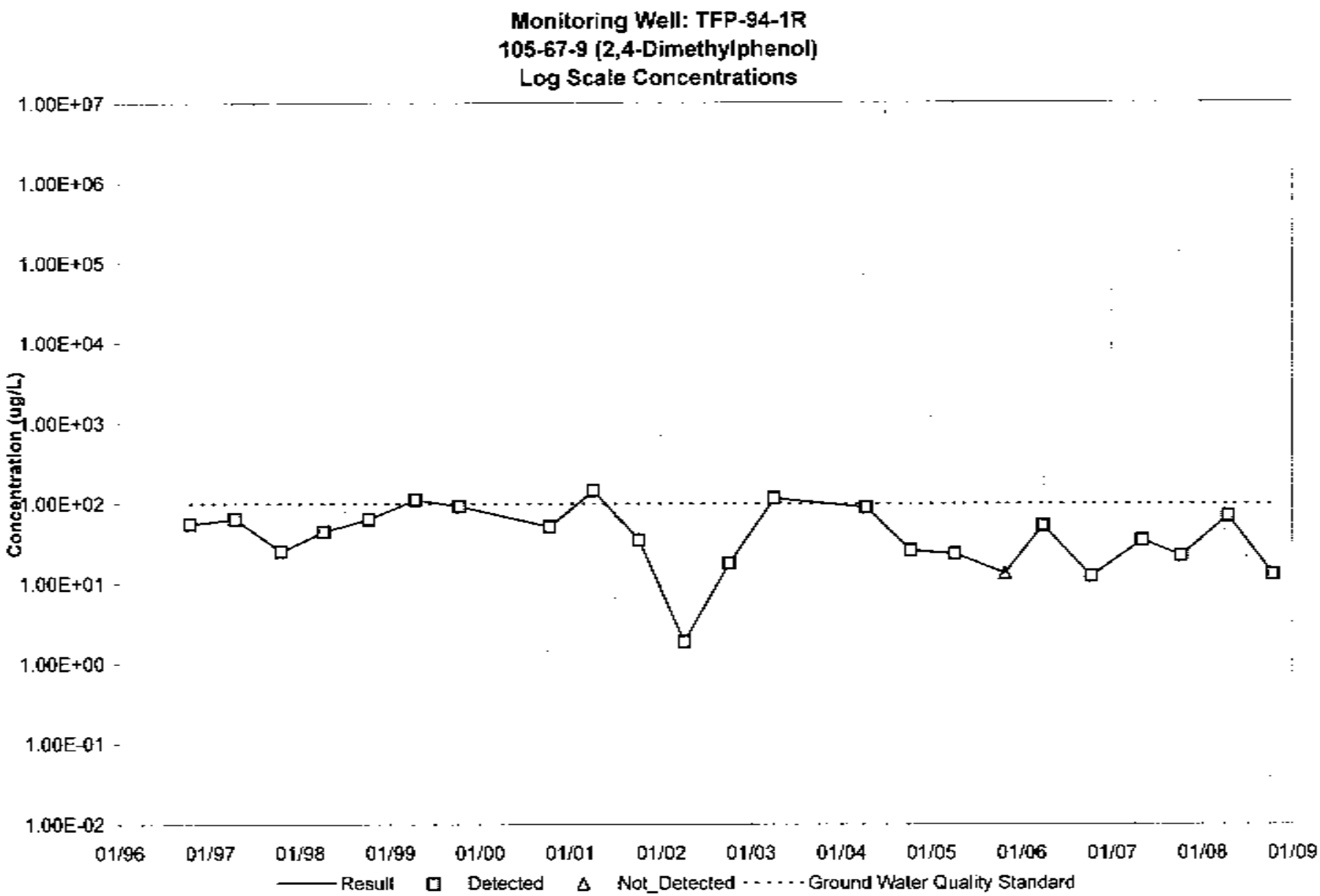

Monitoring Well: RCRA-D5
7440-36-0 (Antimony)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

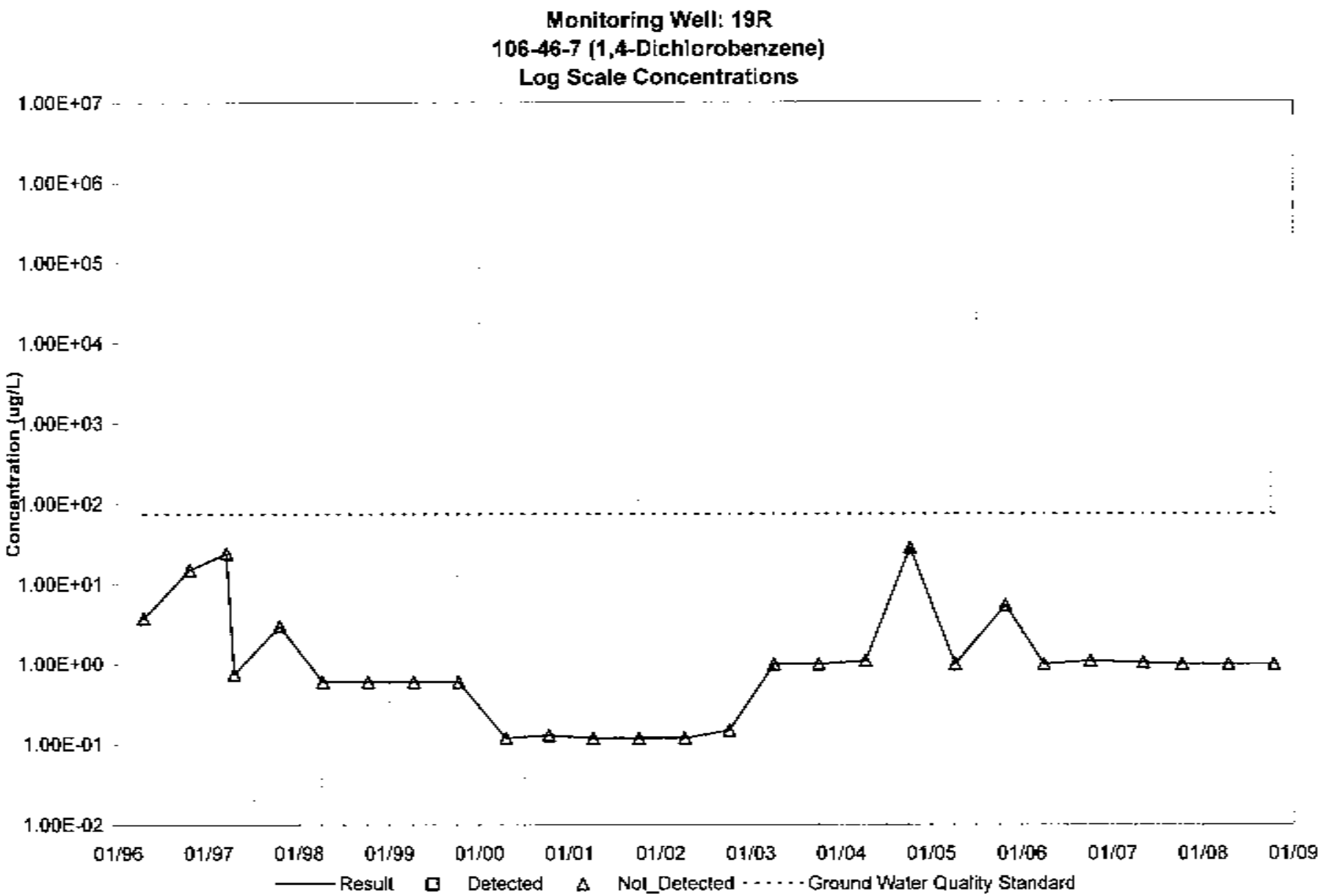

Monitoring Well: RCRA-D6
7440-36-0 (Antimony)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

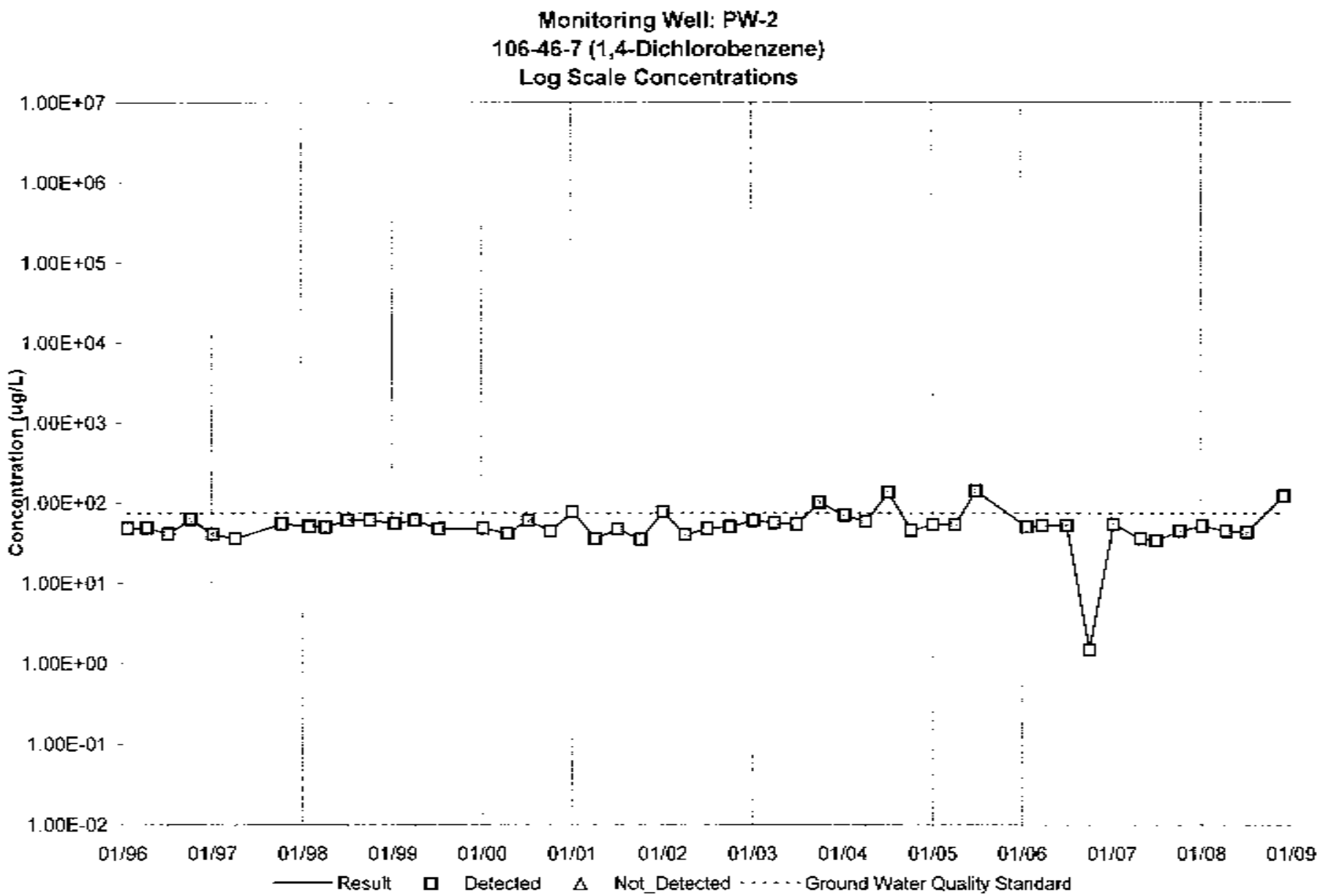

Monitoring Well: RCRA-D7
7440-36-0 (Antimony)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

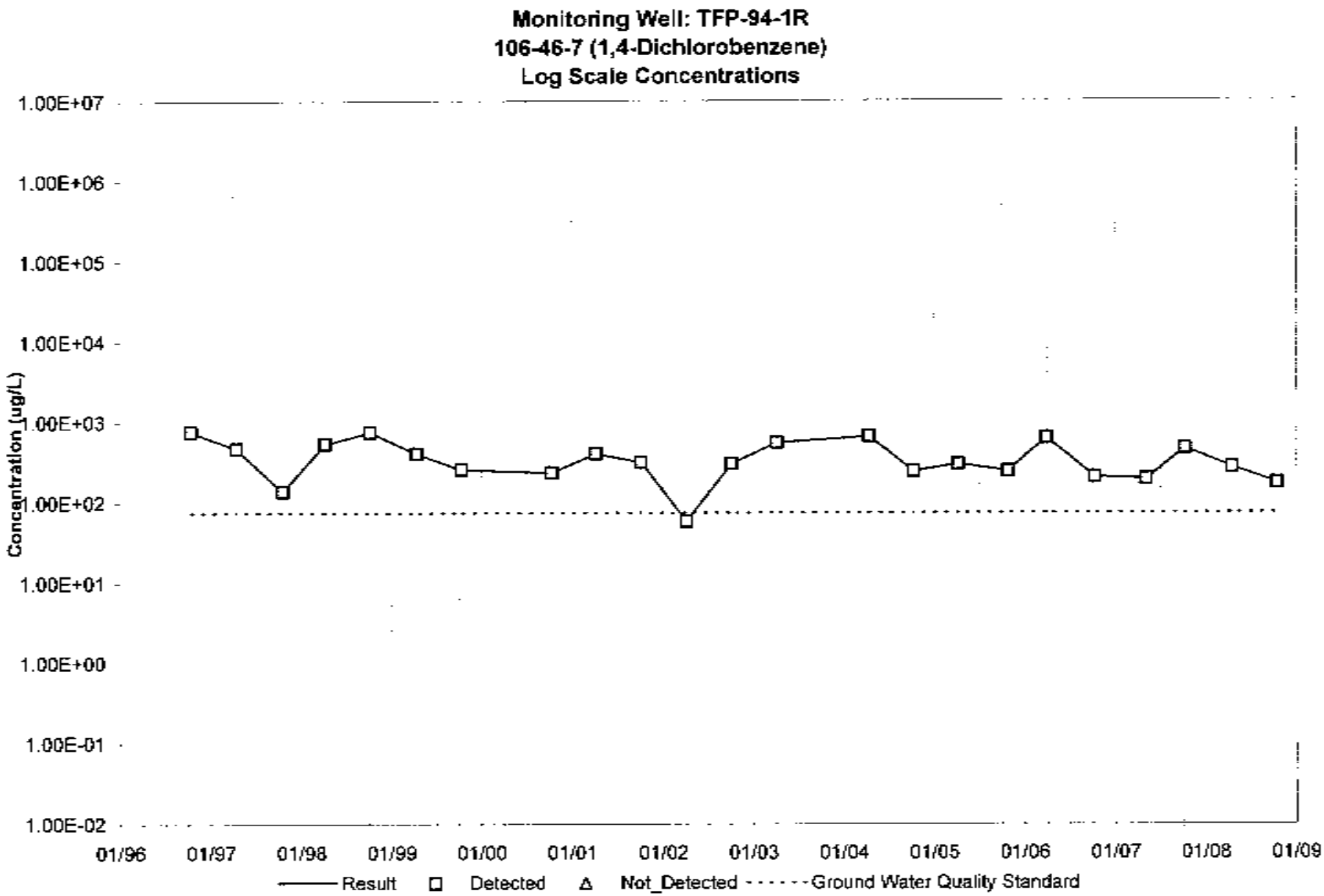

Monitoring Well: 19R
105-67-9 (2,4-Dimethylphenol)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

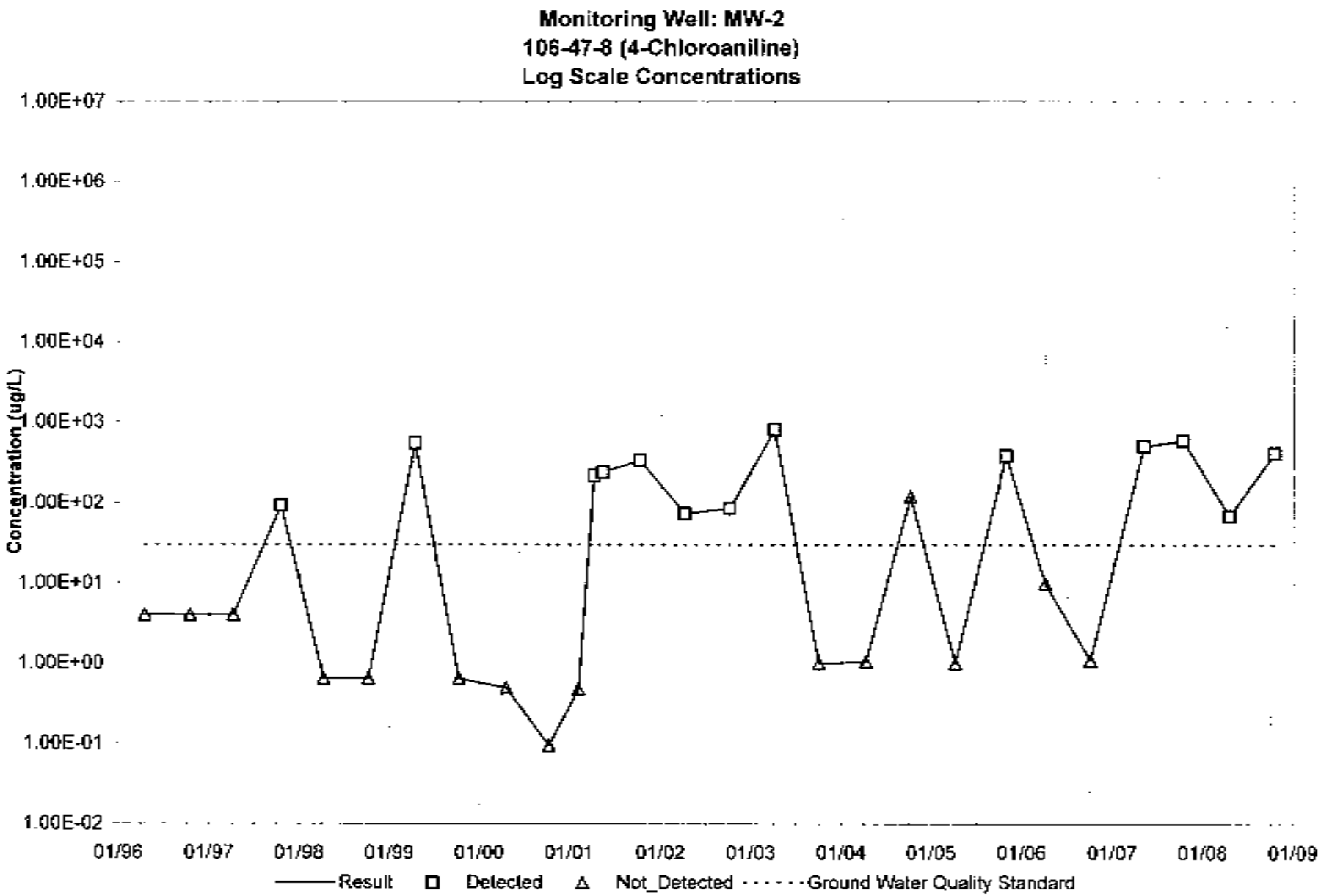

Monitoring Well: MW-2
105-67-9 (2,4-Dimethylphenol)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

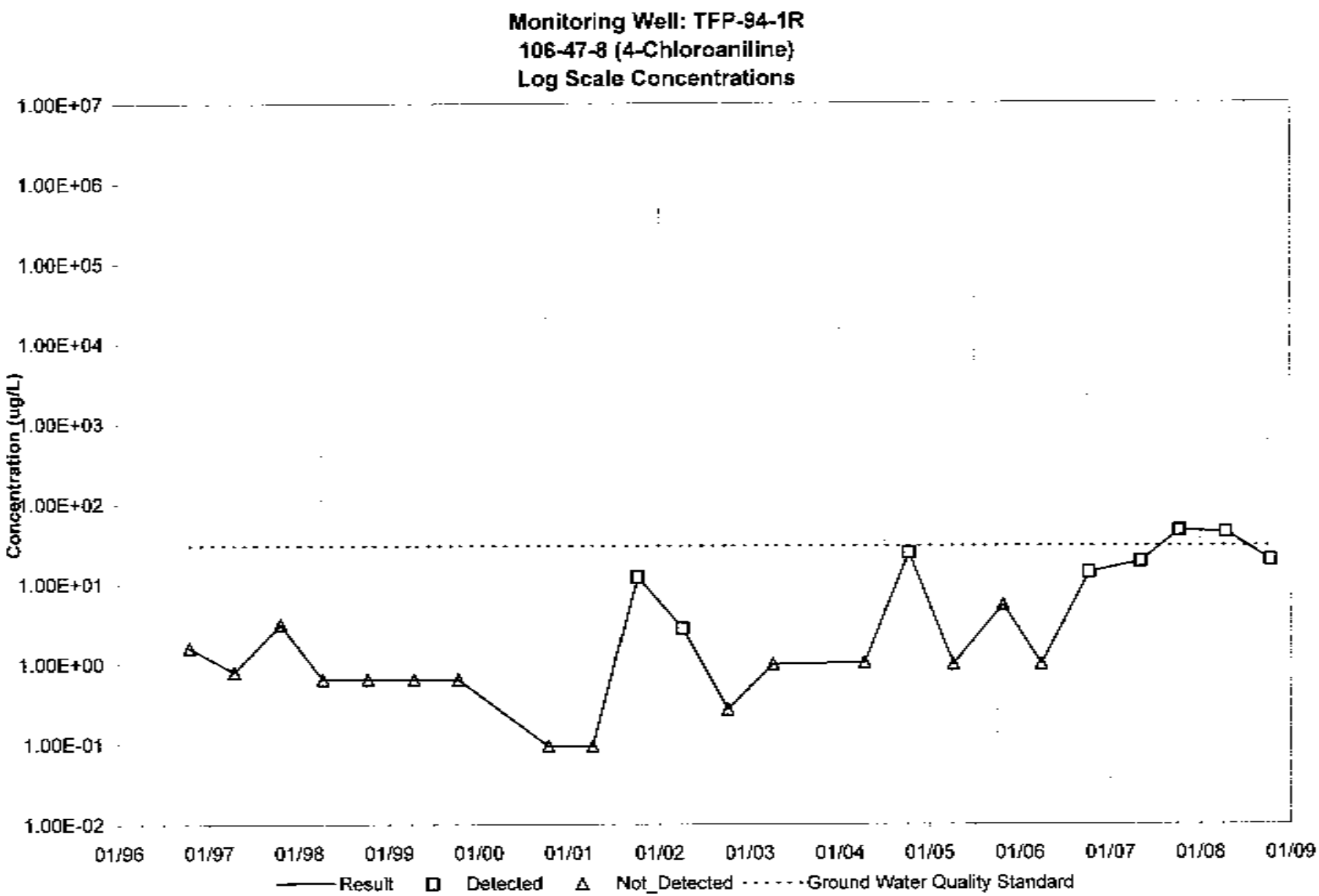

Monitoring Well: TFP-94-1R
105-67-9 (2,4-Dimethylphenol)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

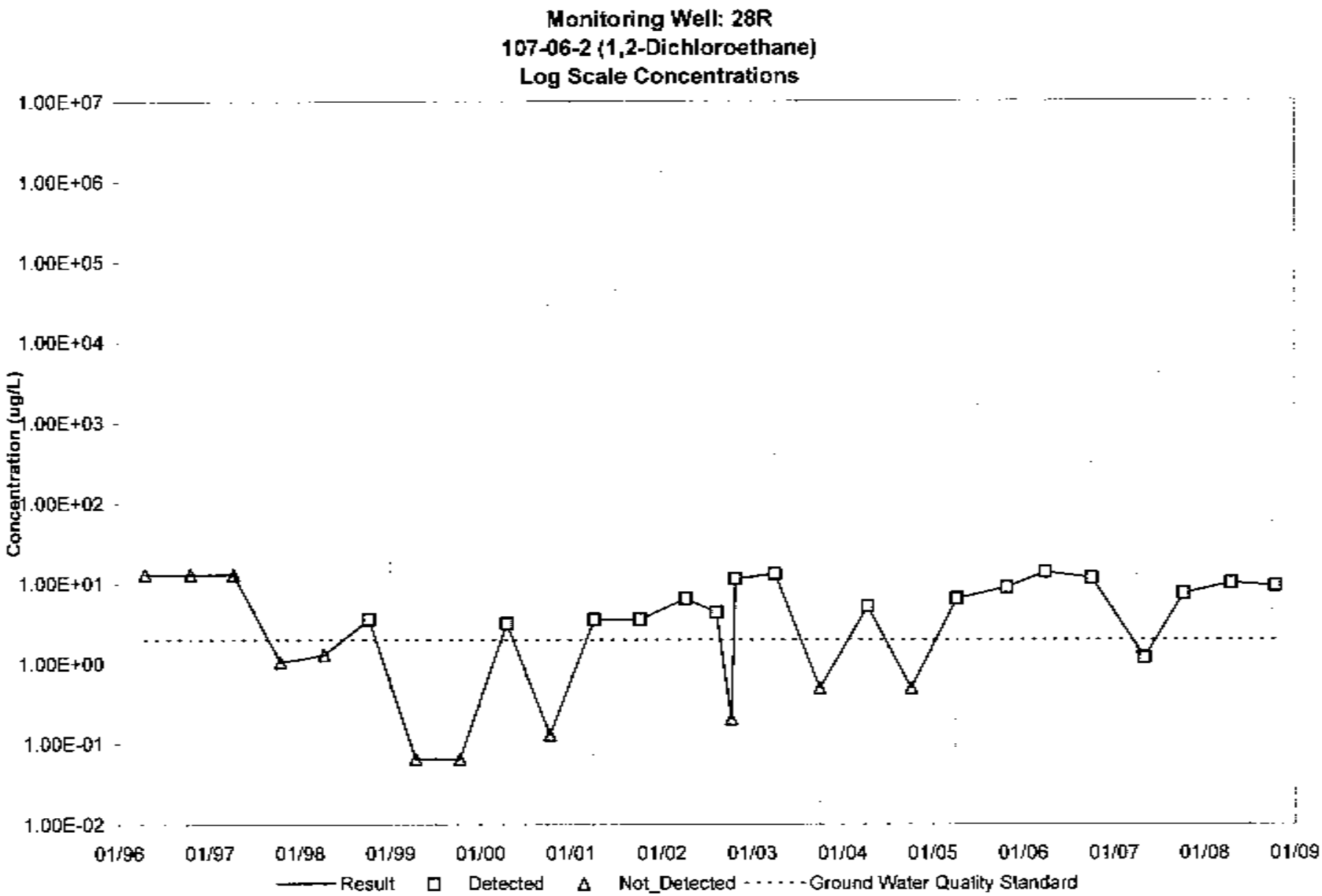

Monitoring Well: 19R
106-46-7 (1,4-Dichlorobenzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

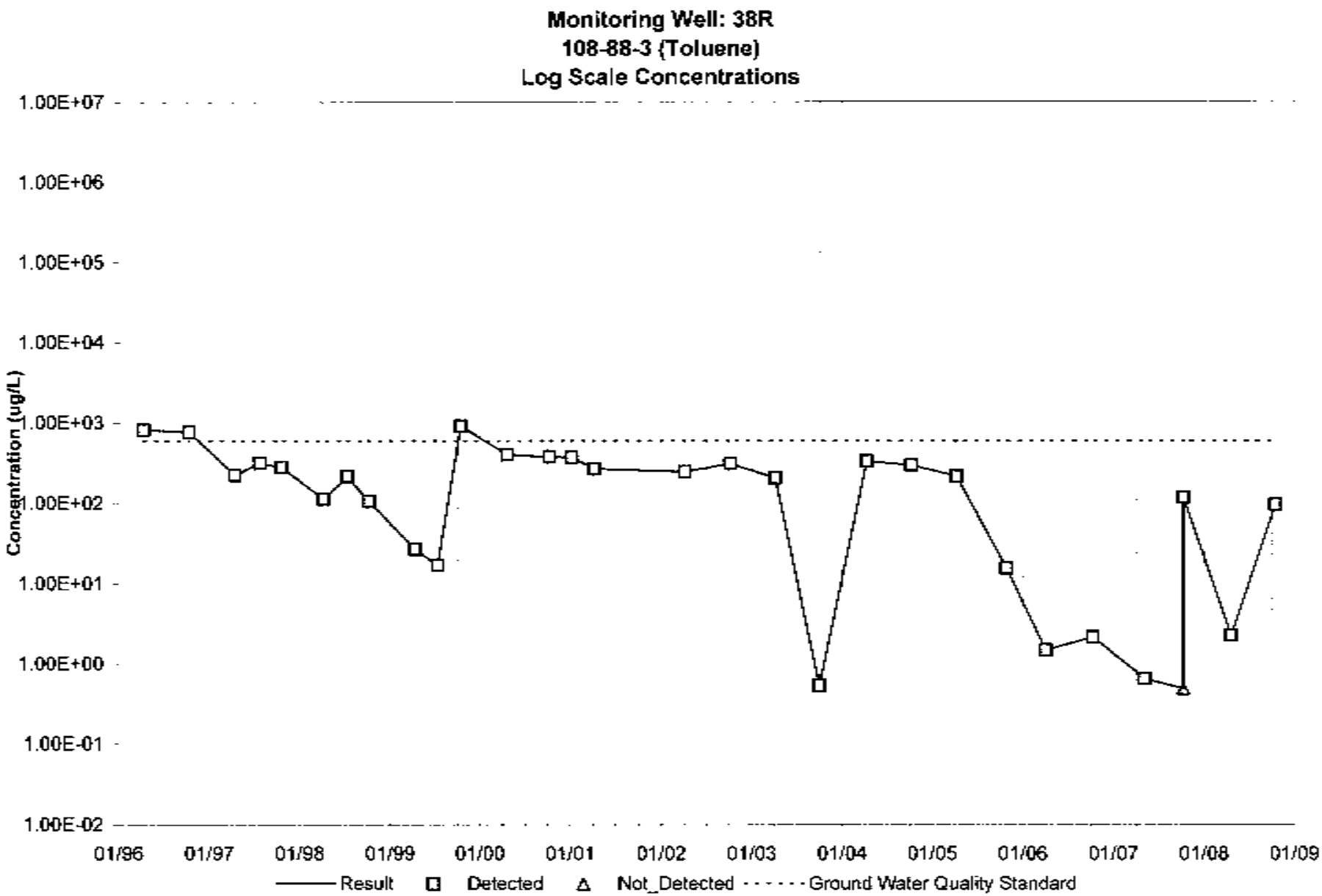

Monitoring Well: PW-2
106-46-7 (1,4-Dichlorobenzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

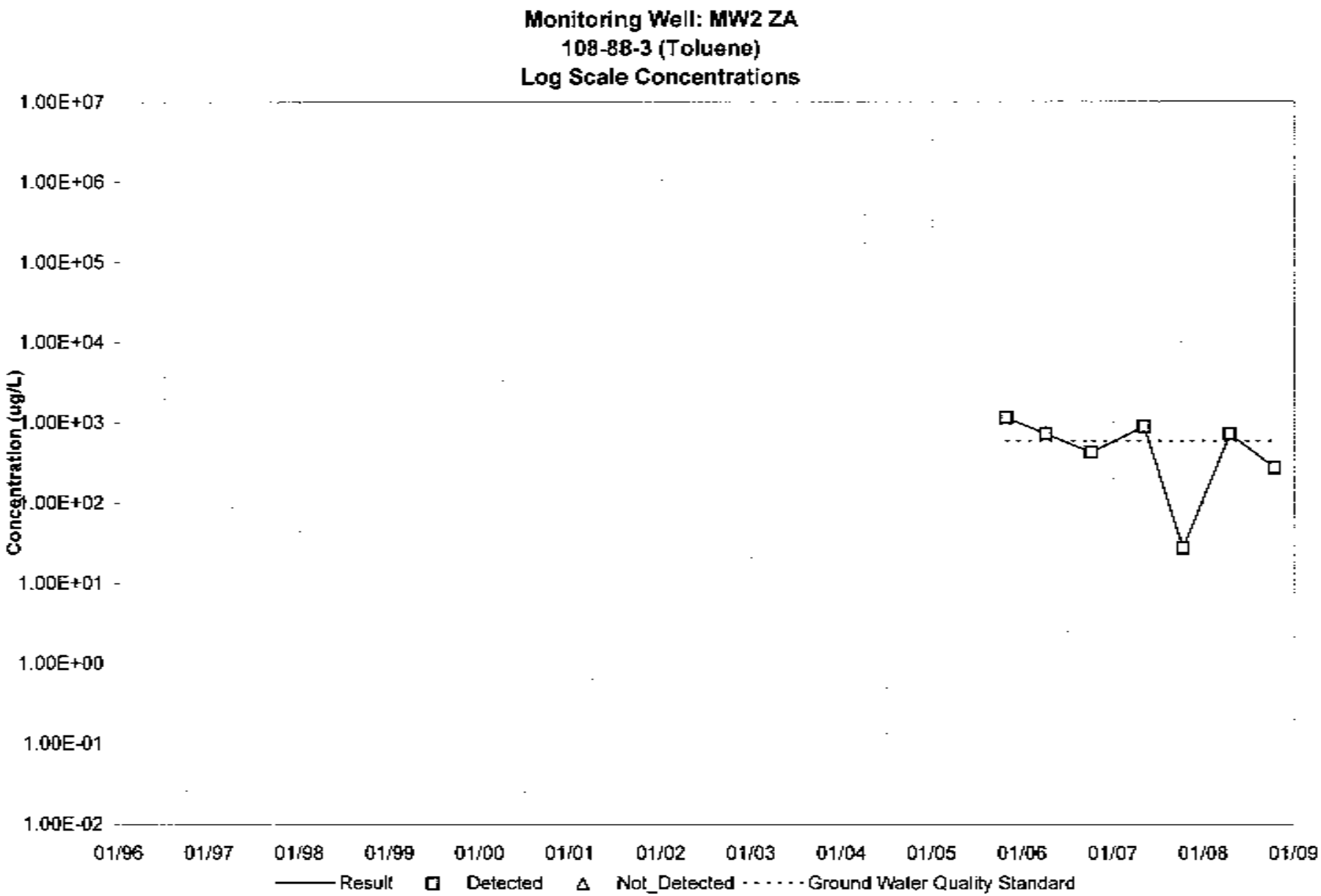

Monitoring Well: TFP-94-1R
106-46-7 (1,4-Dichlorobenzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

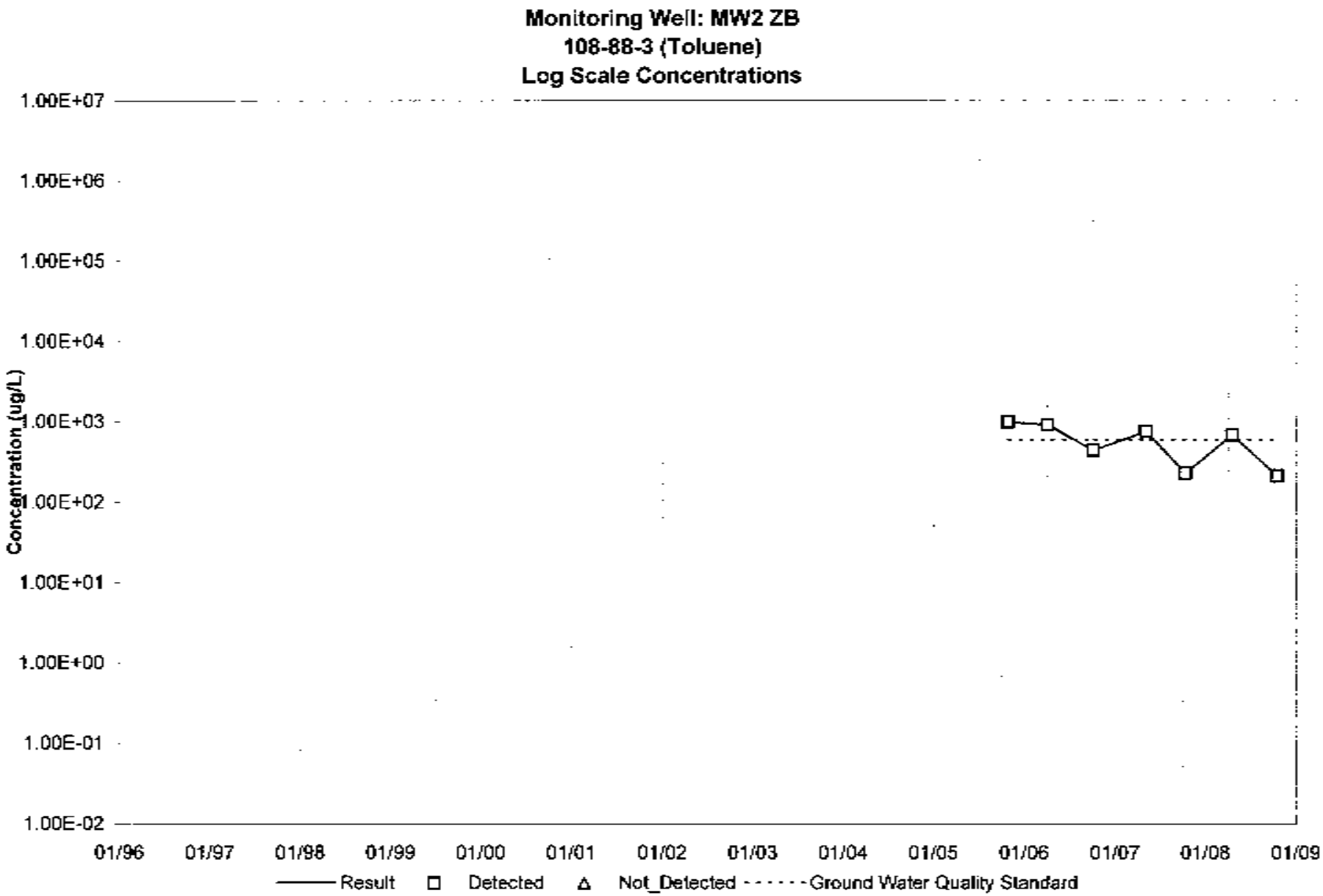

Monitoring Well: MW-2
106-47-8 (4-Chloroaniline)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

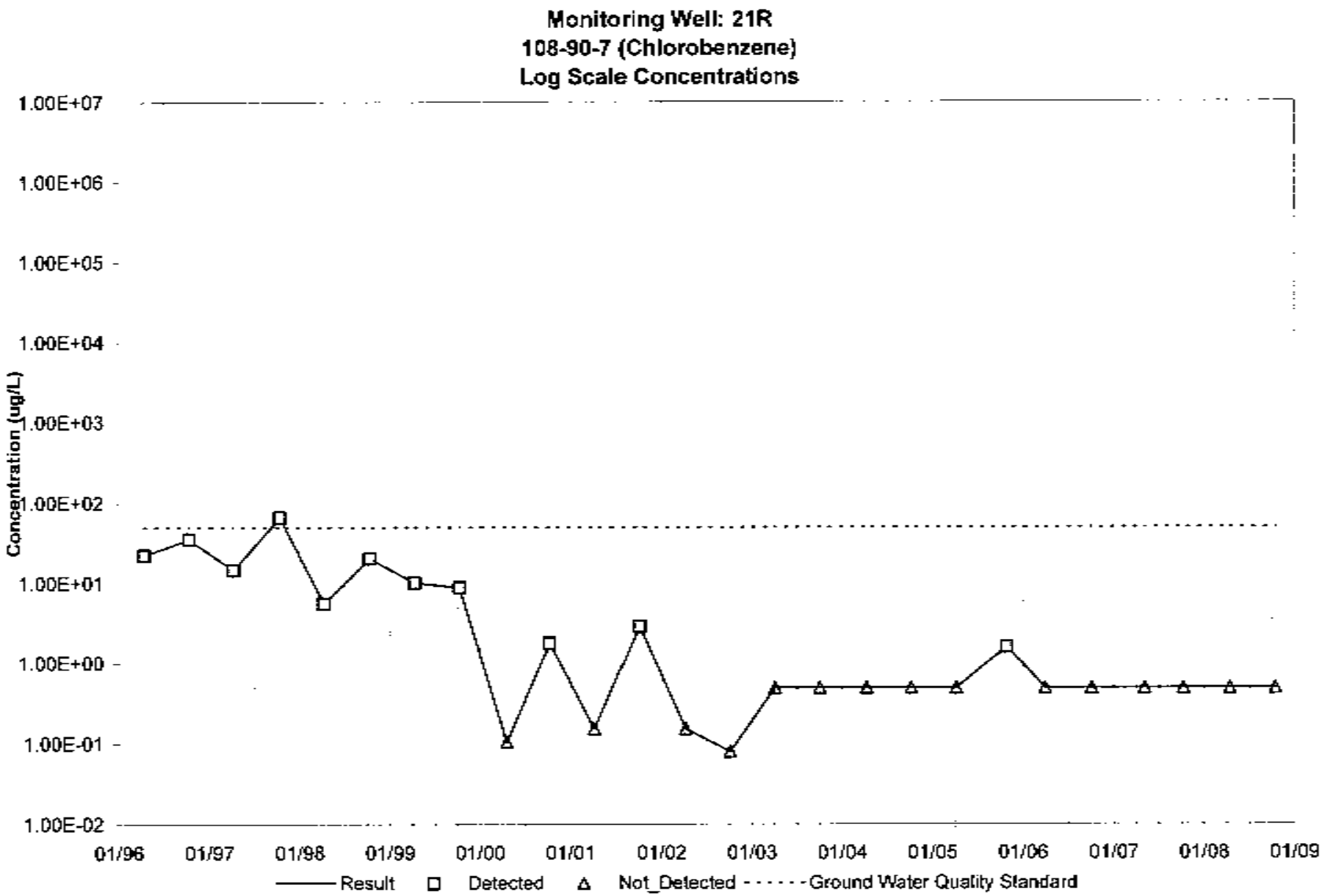

Monitoring Well: TFP-94-1R
106-47-8 (4-Chloroaniline)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

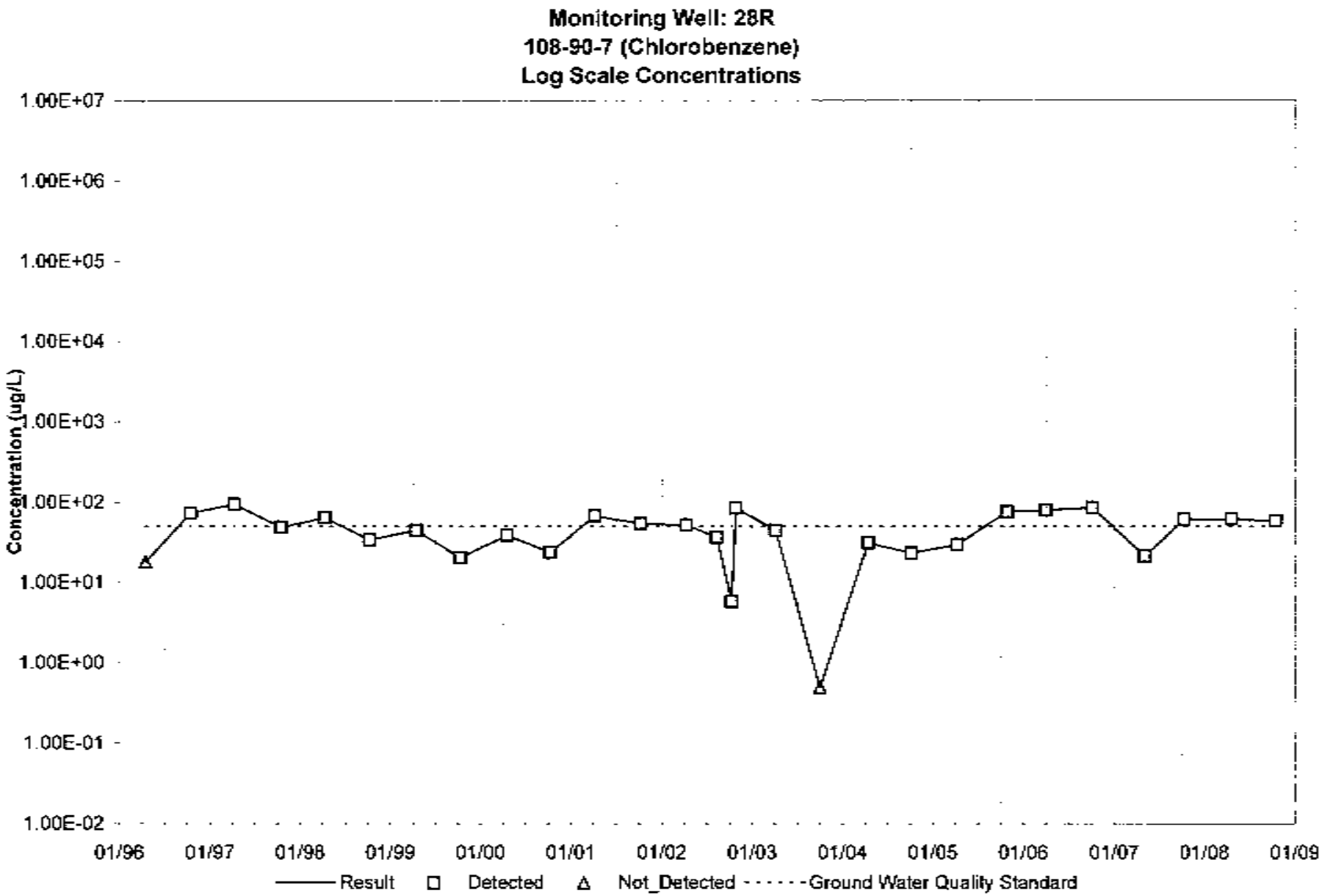

Monitoring Well: 28R
107-06-2 (1,2-Dichloroethane)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

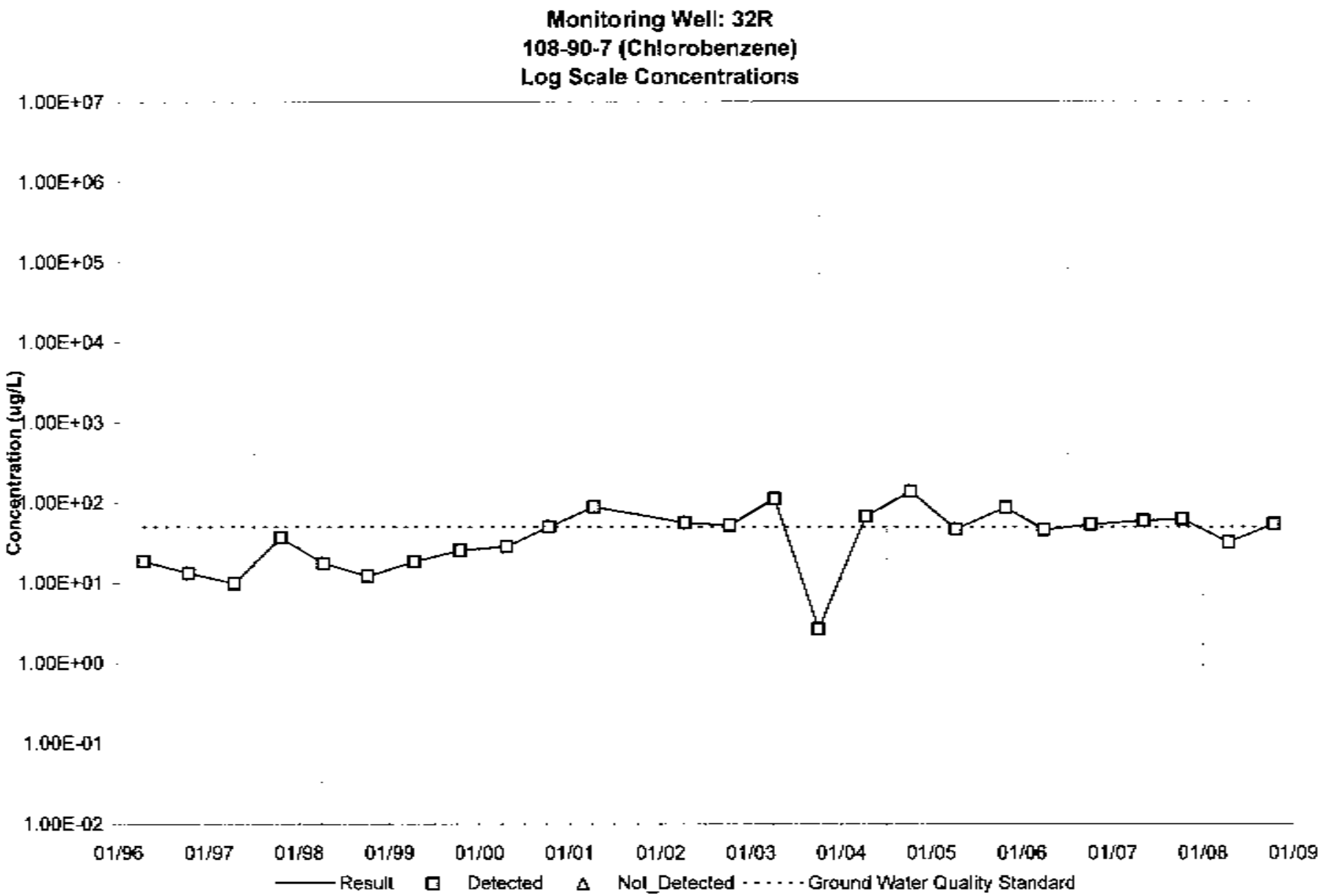

Monitoring Well: 38R
108-88-3 (Toluene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

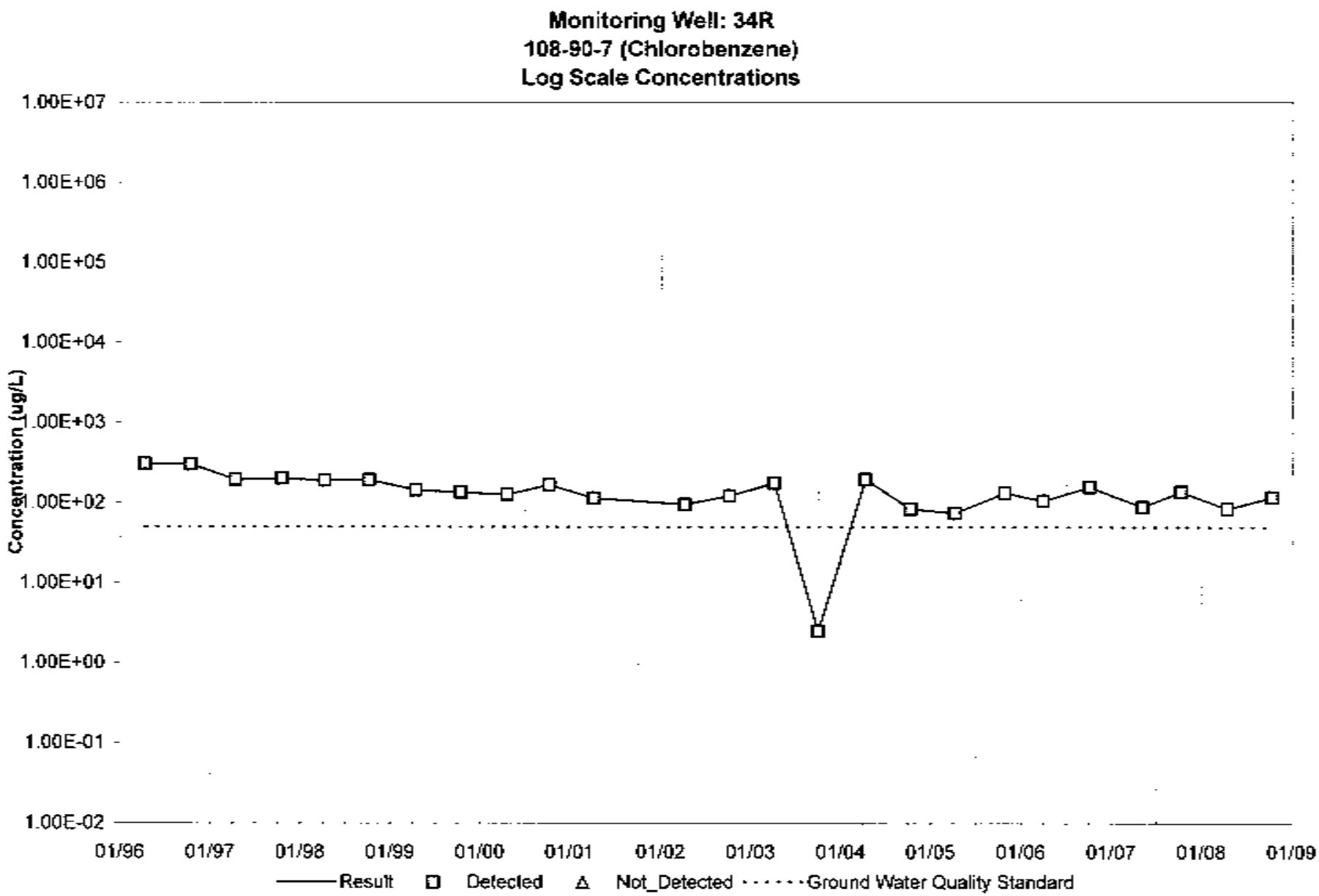

Monitoring Well: MW2 ZA
108-88-3 (Toluene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

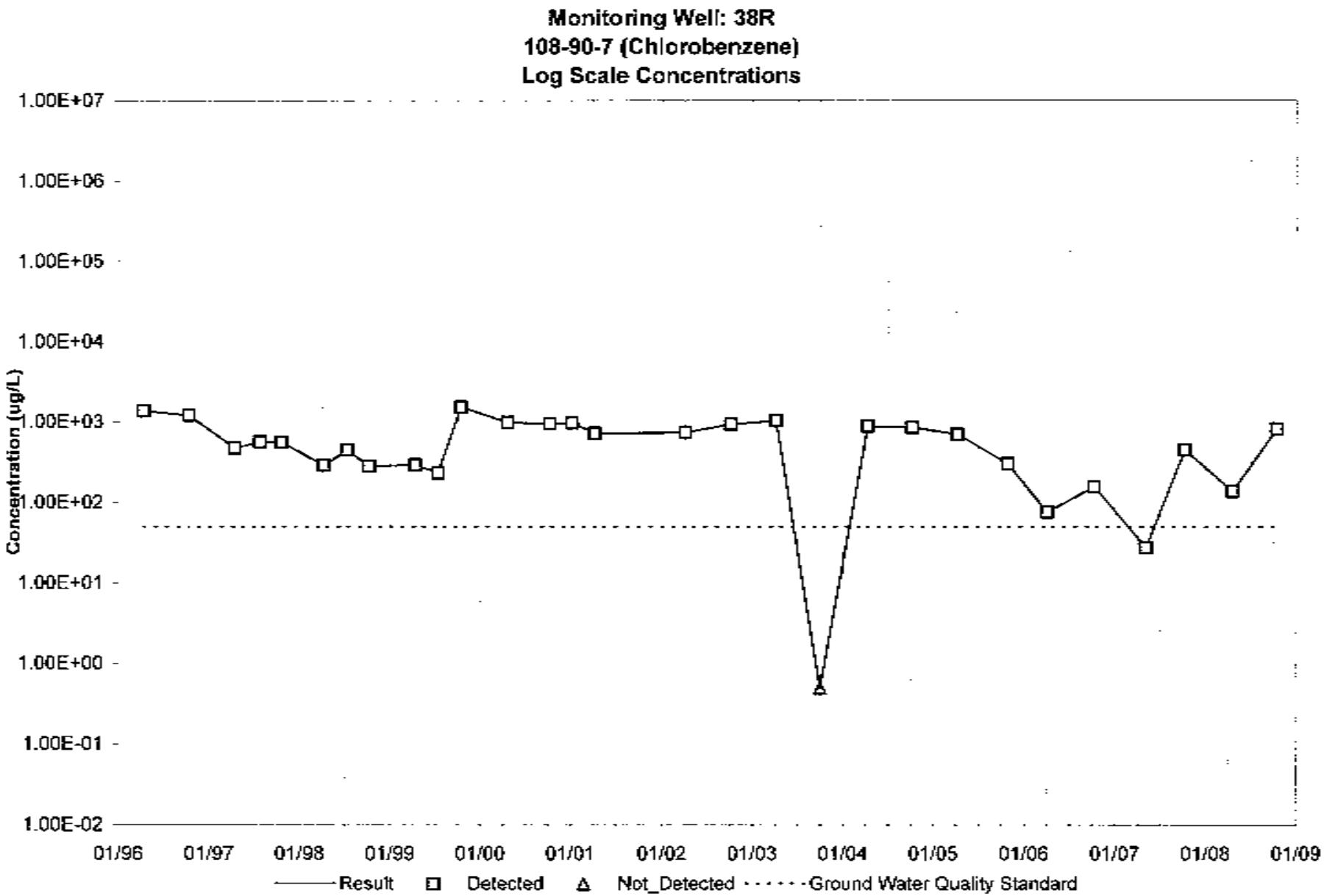

Monitoring Well: MW2 ZB
108-88-3 (Toluene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

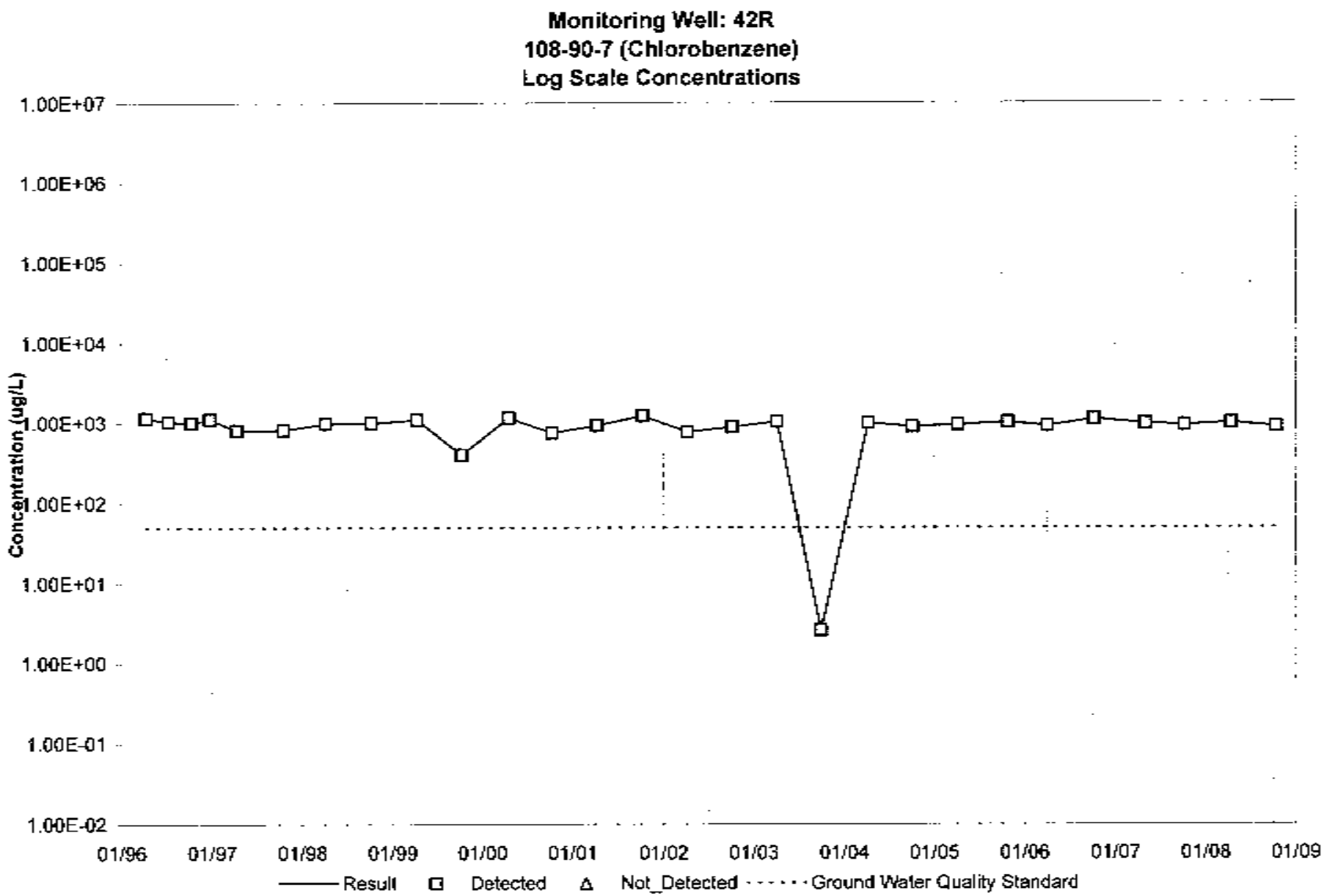

Monitoring Well: 21R
108-90-7 (Chlorobenzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

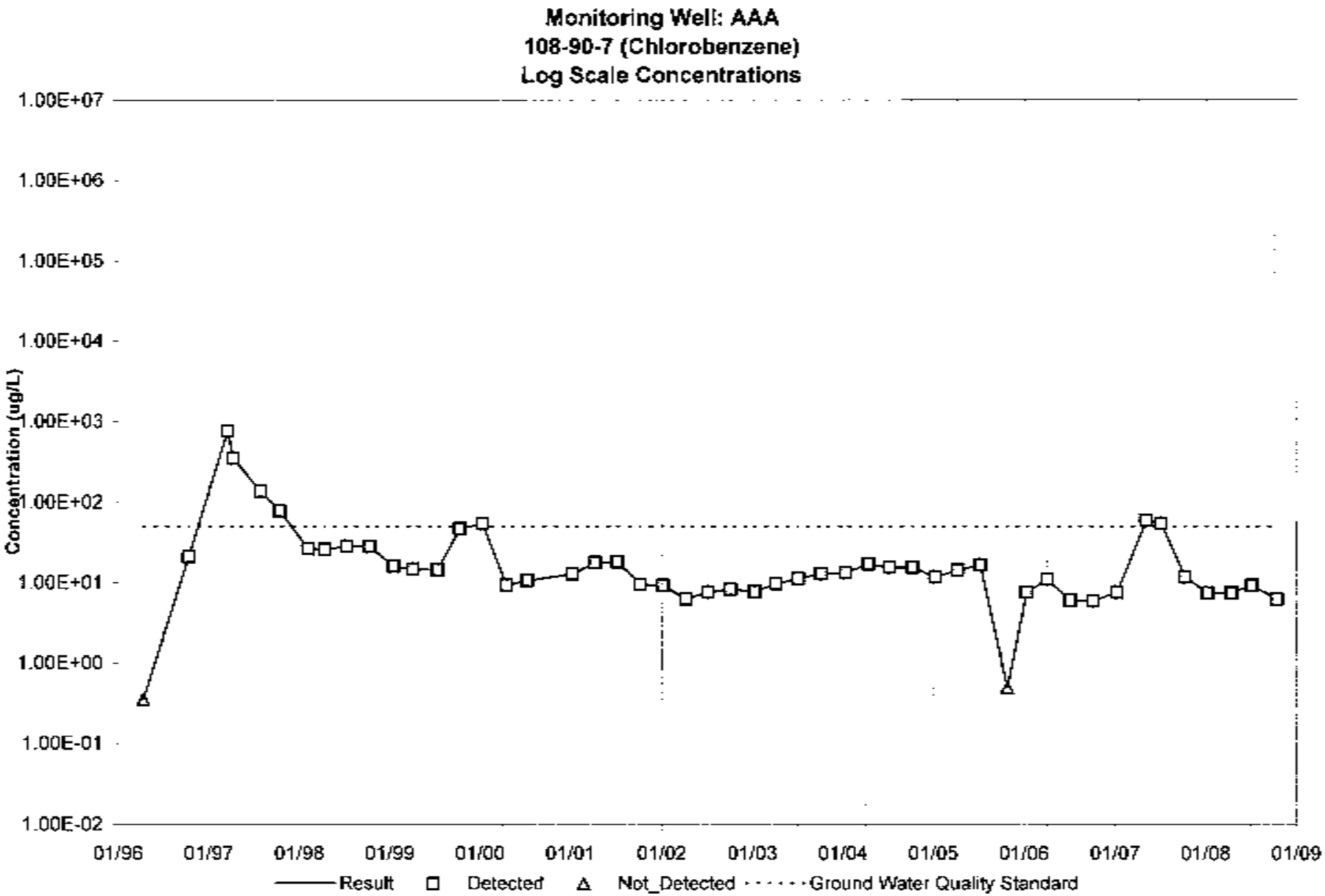

Monitoring Well: 28R
108-90-7 (Chlorobenzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

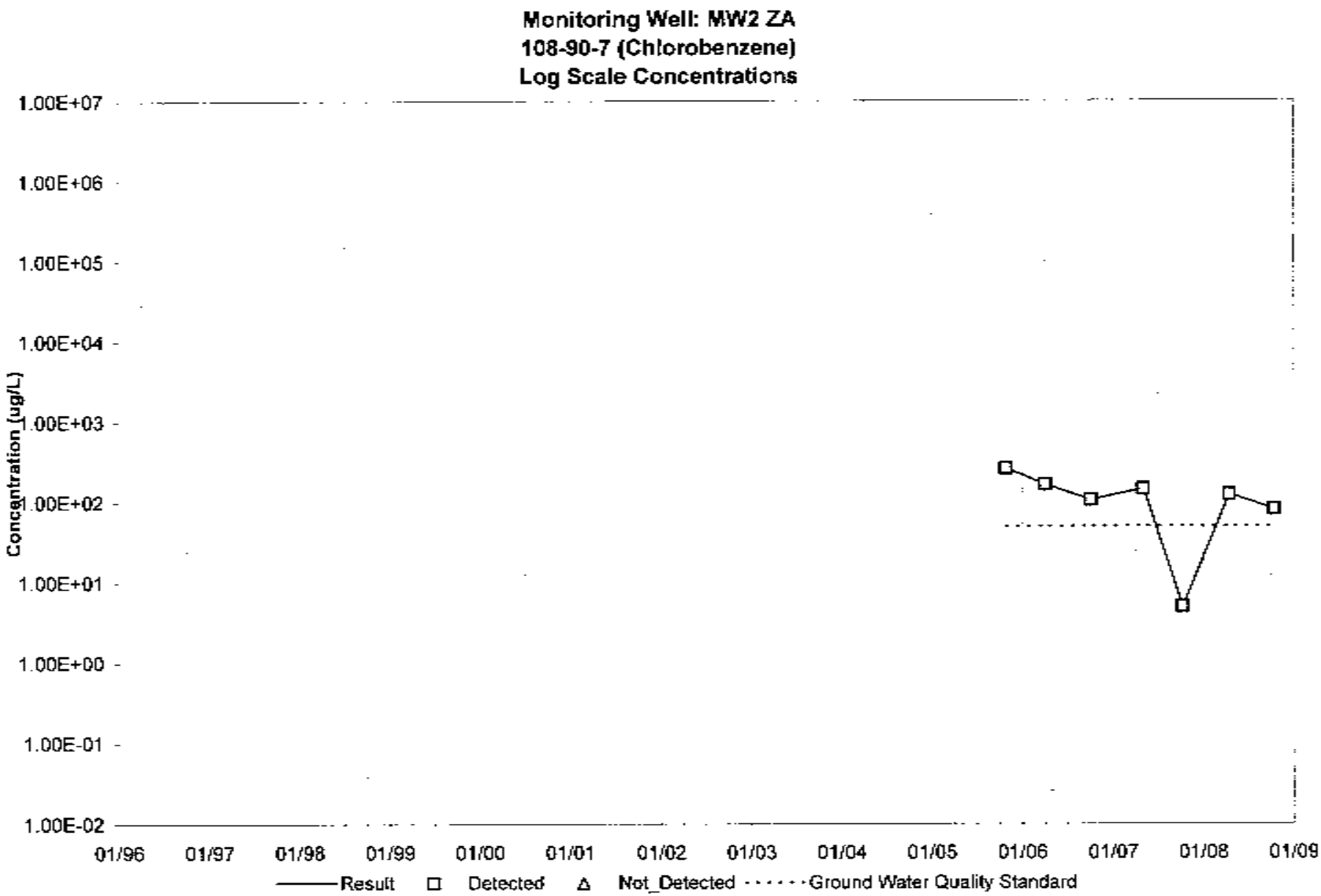

Monitoring Well: 32R
108-90-7 (Chlorobenzene)
Log Scale Concentrations
Concentration (µg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

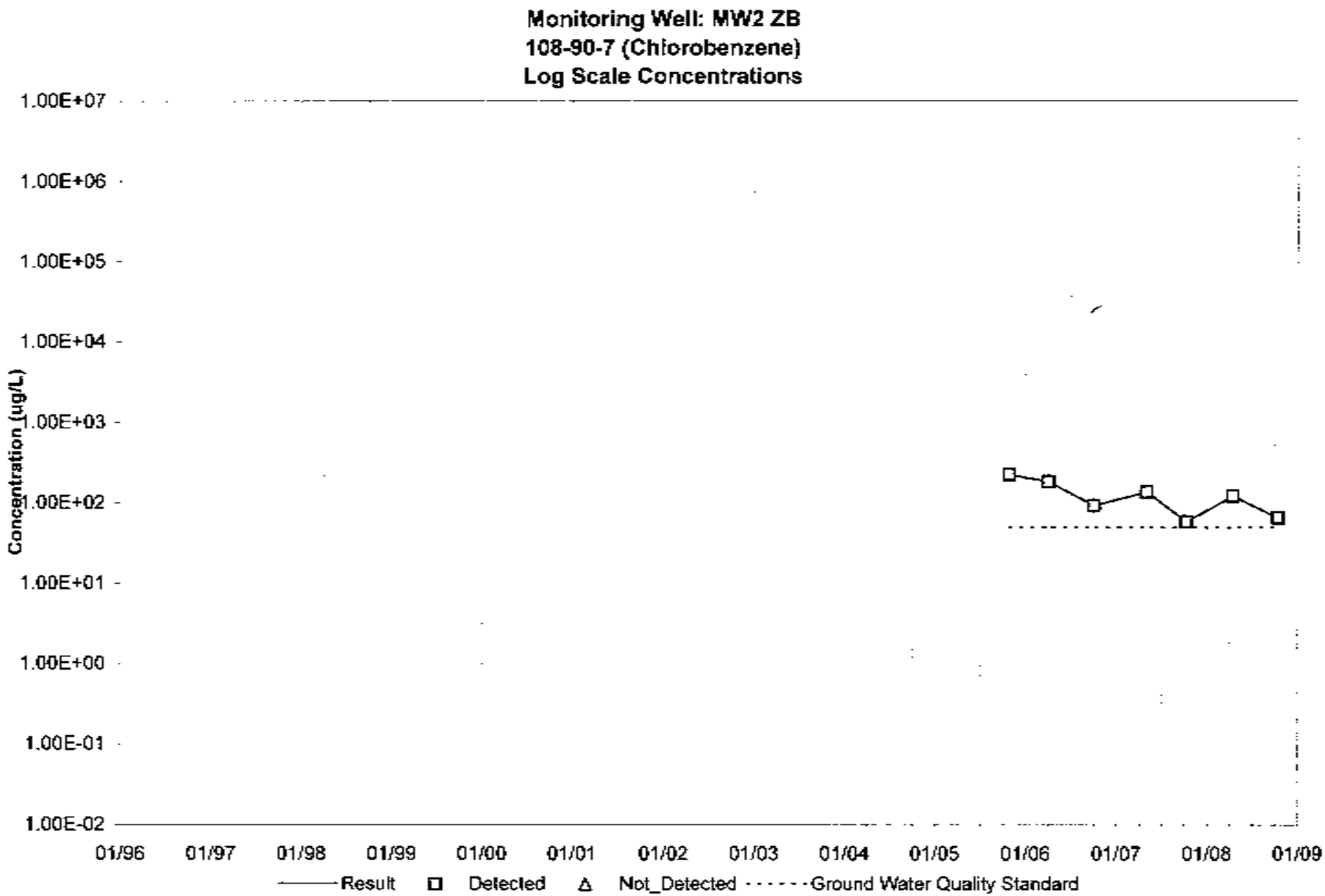

Monitoring Well: 34R
108-90-7 (Chlorobenzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

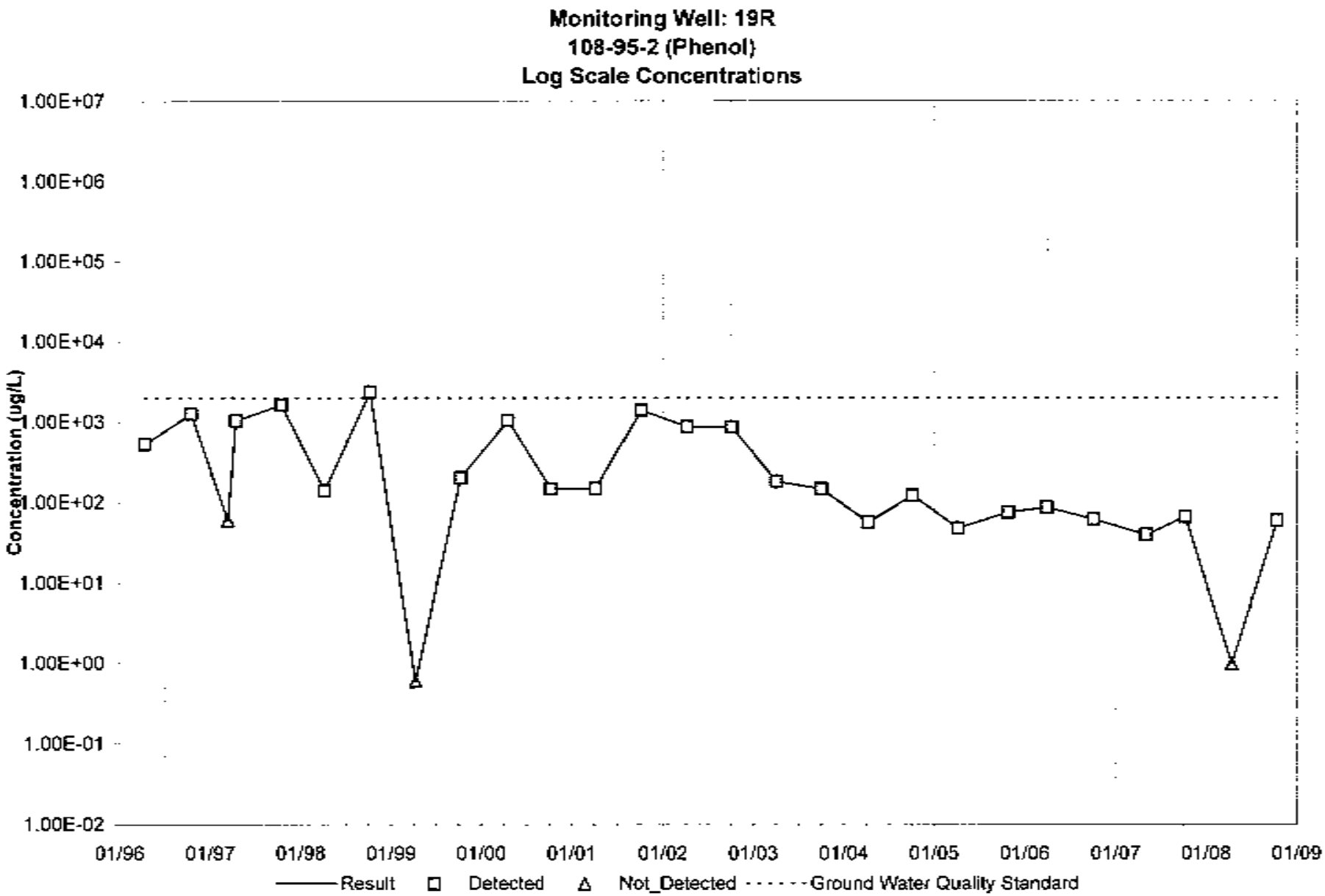

Monitoring Well: 38R
108-90-7 (Chlorobenzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

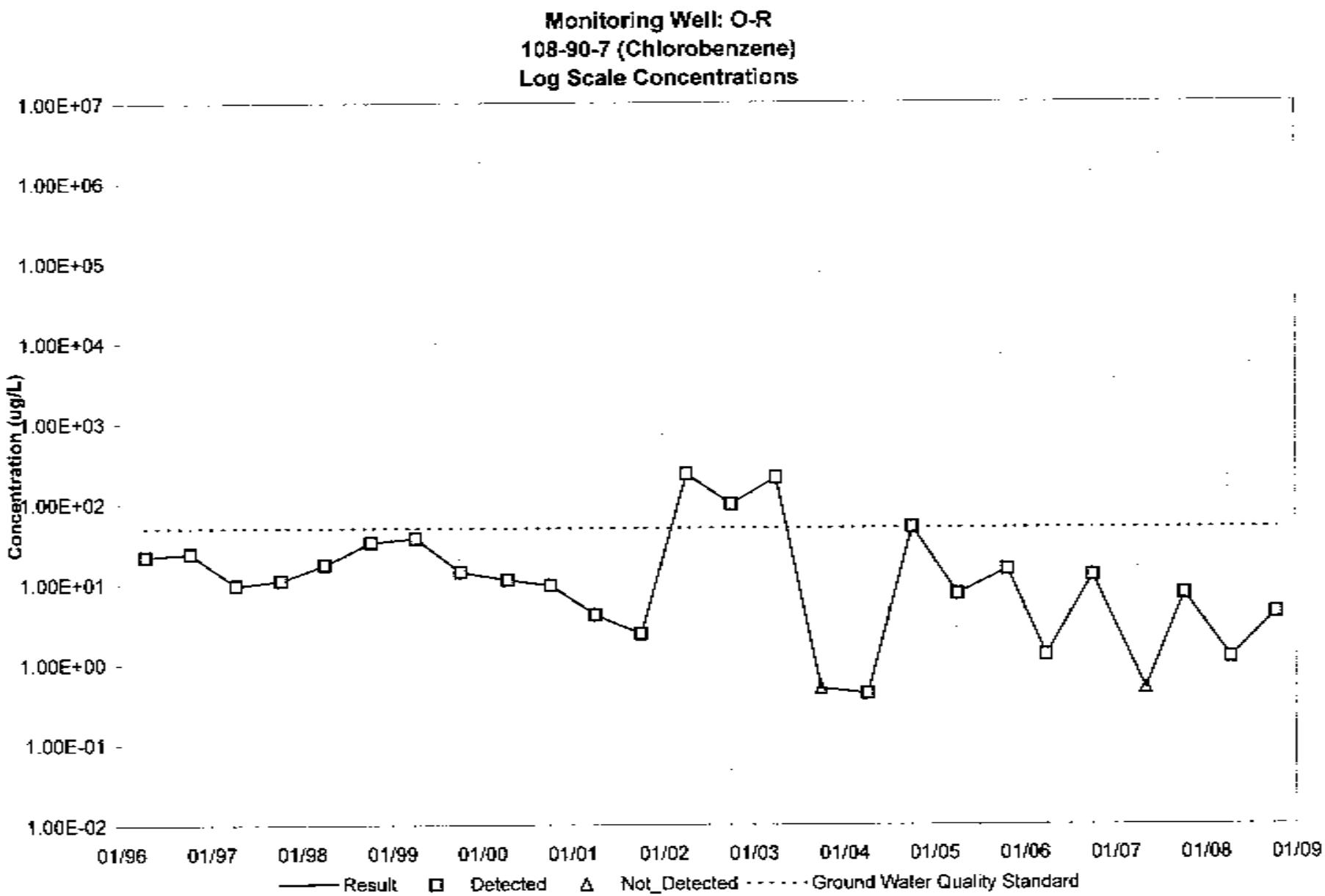

Monitoring Well: 42R
108-90-7 (Chlorobenzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

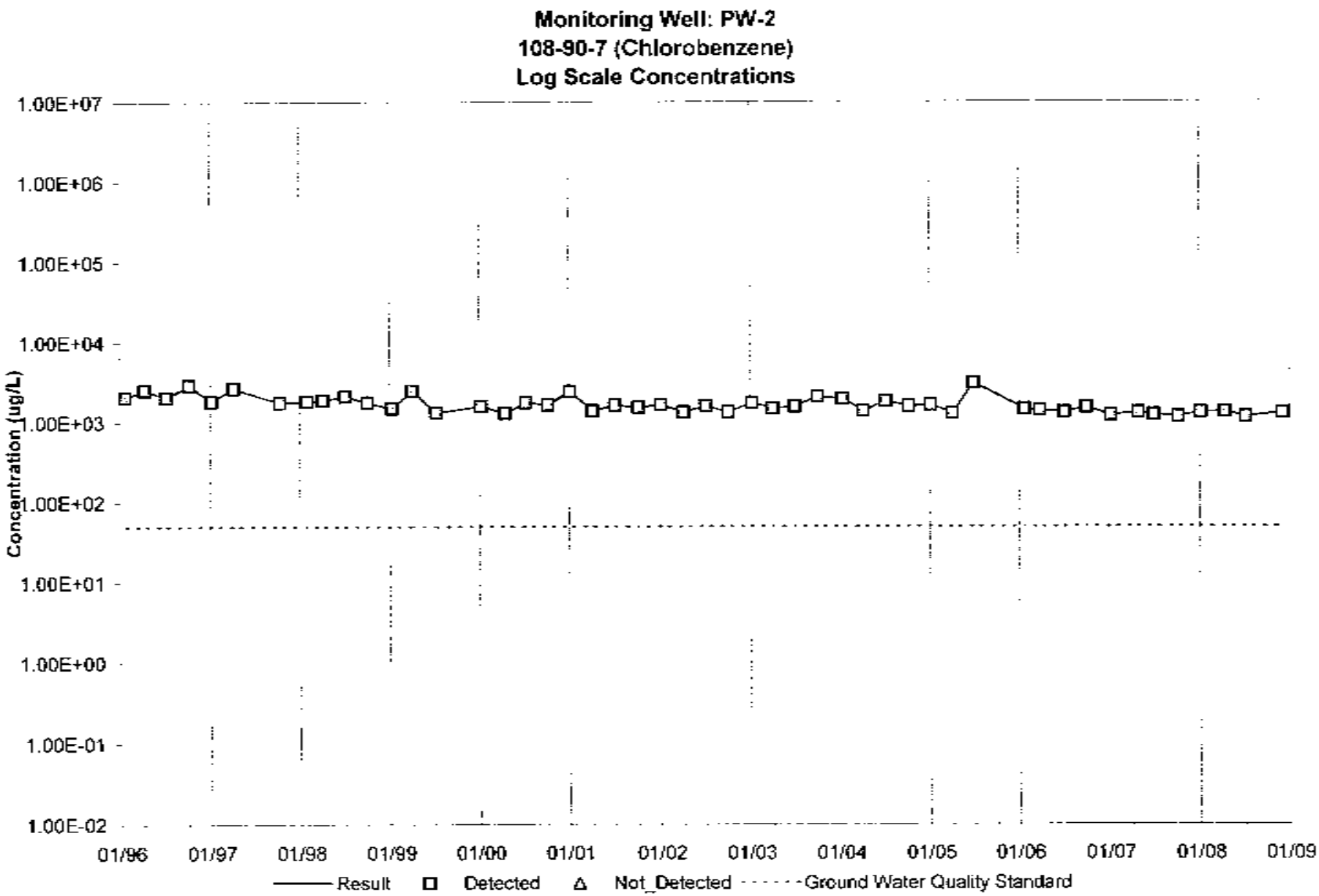

Monitoring Well: AAA
108-90-7 (Chlorobenzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

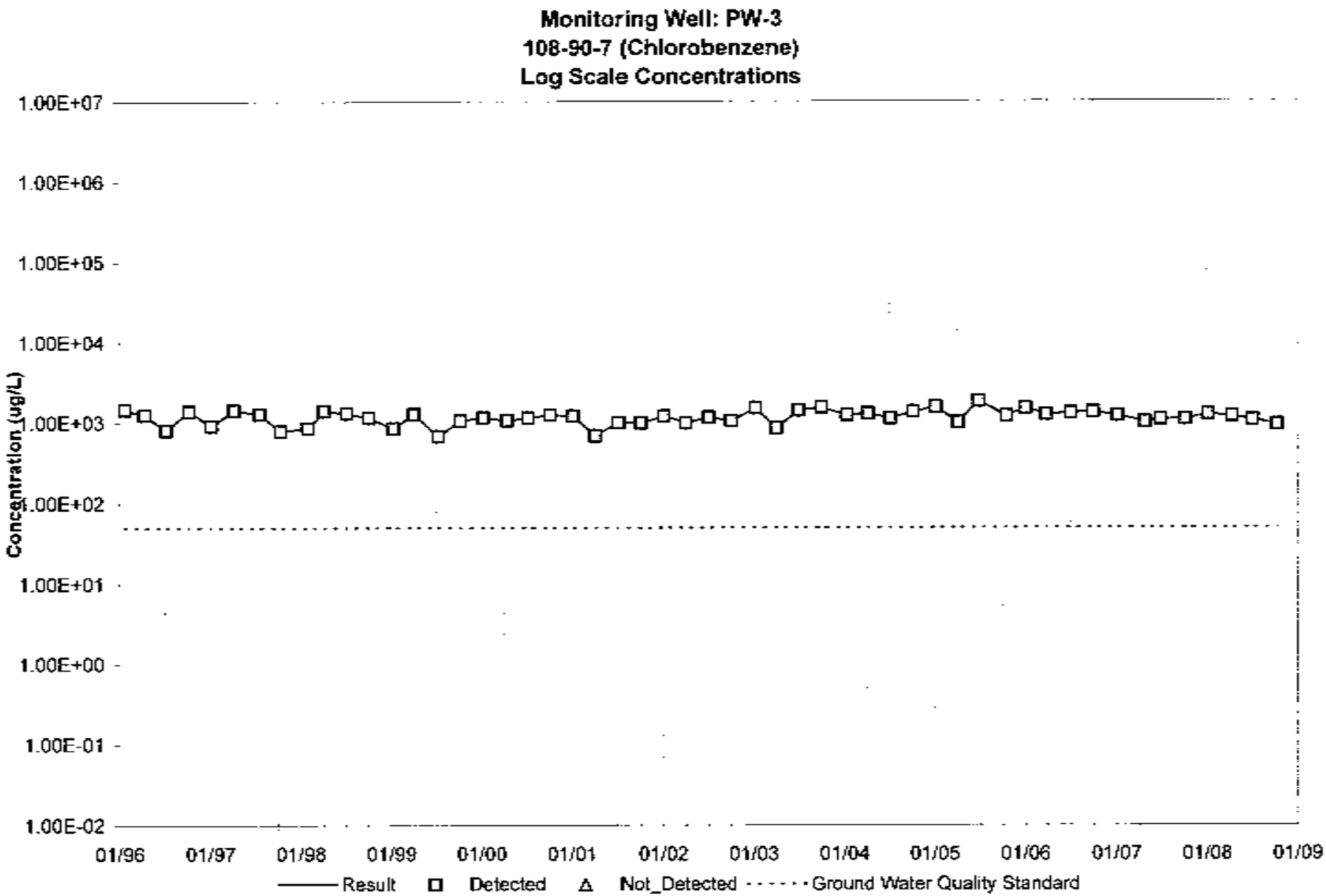

Monitoring Well: MW2 ZA
108-90-7 (Chlorobenzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

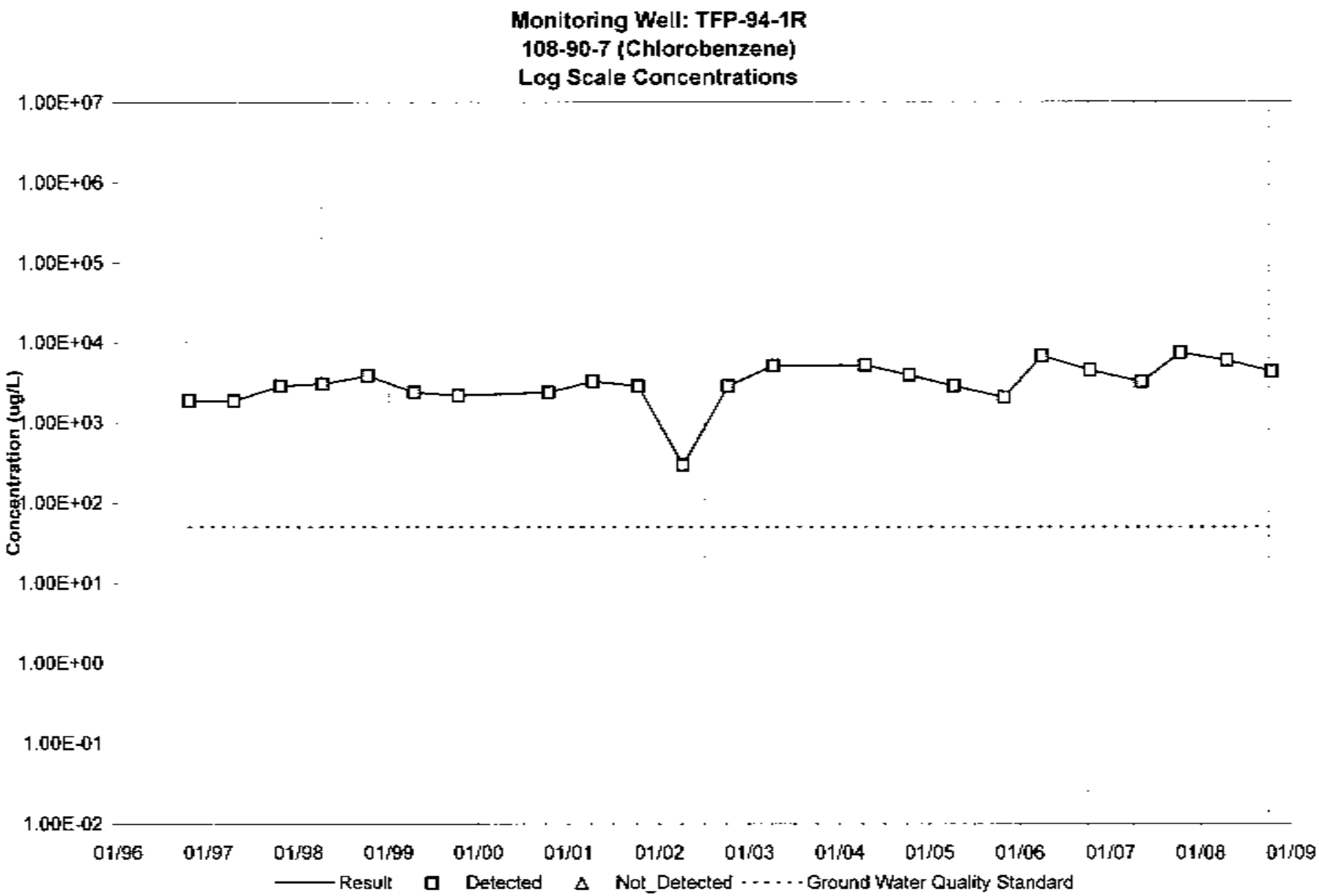

Monitoring Well: MW2 ZB
108-90-7 (Chlorobenzene)
Log Scale Concentrations
Concentration (µg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

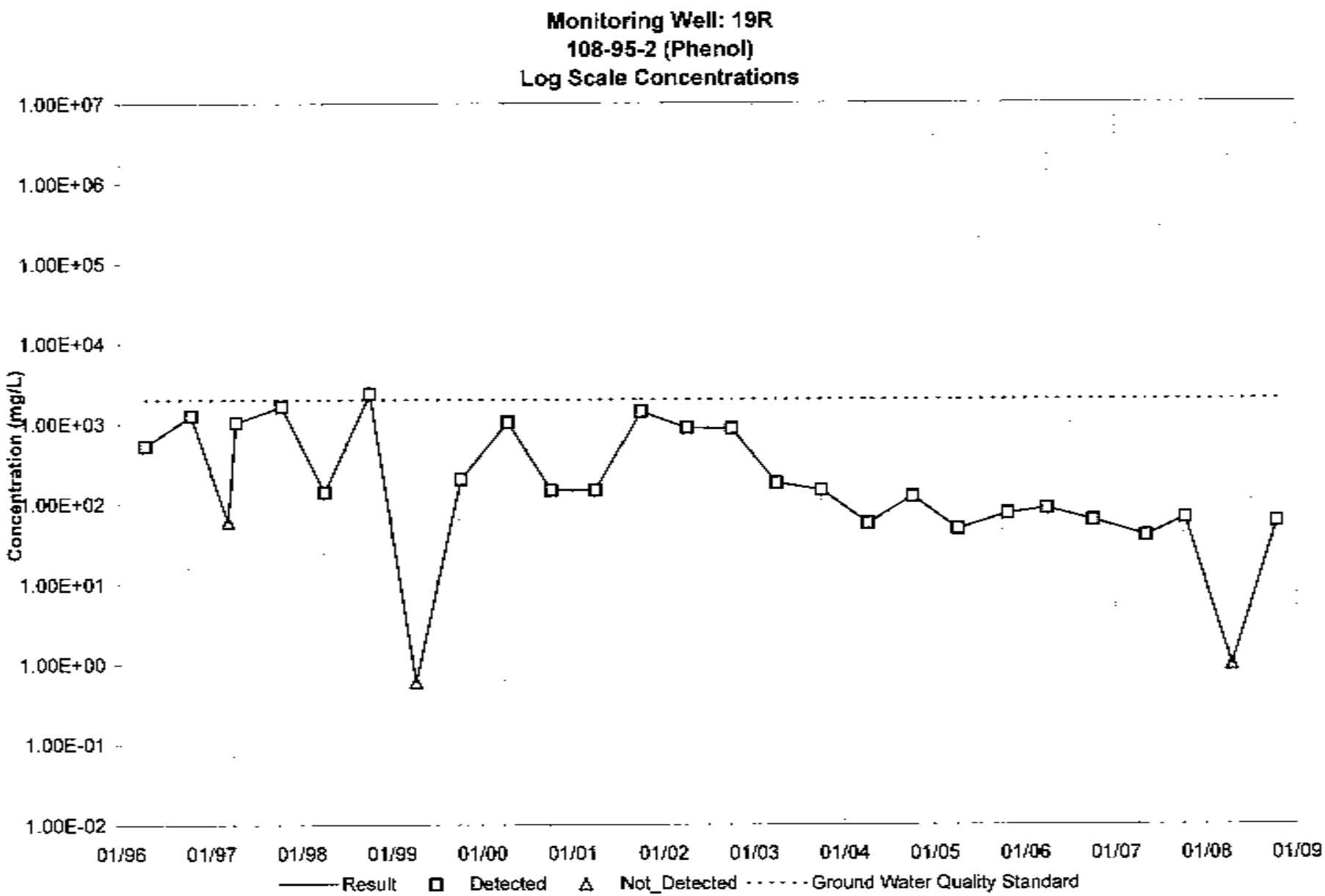

Monitoring Well: 19R
108-95-2 (Phenol)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

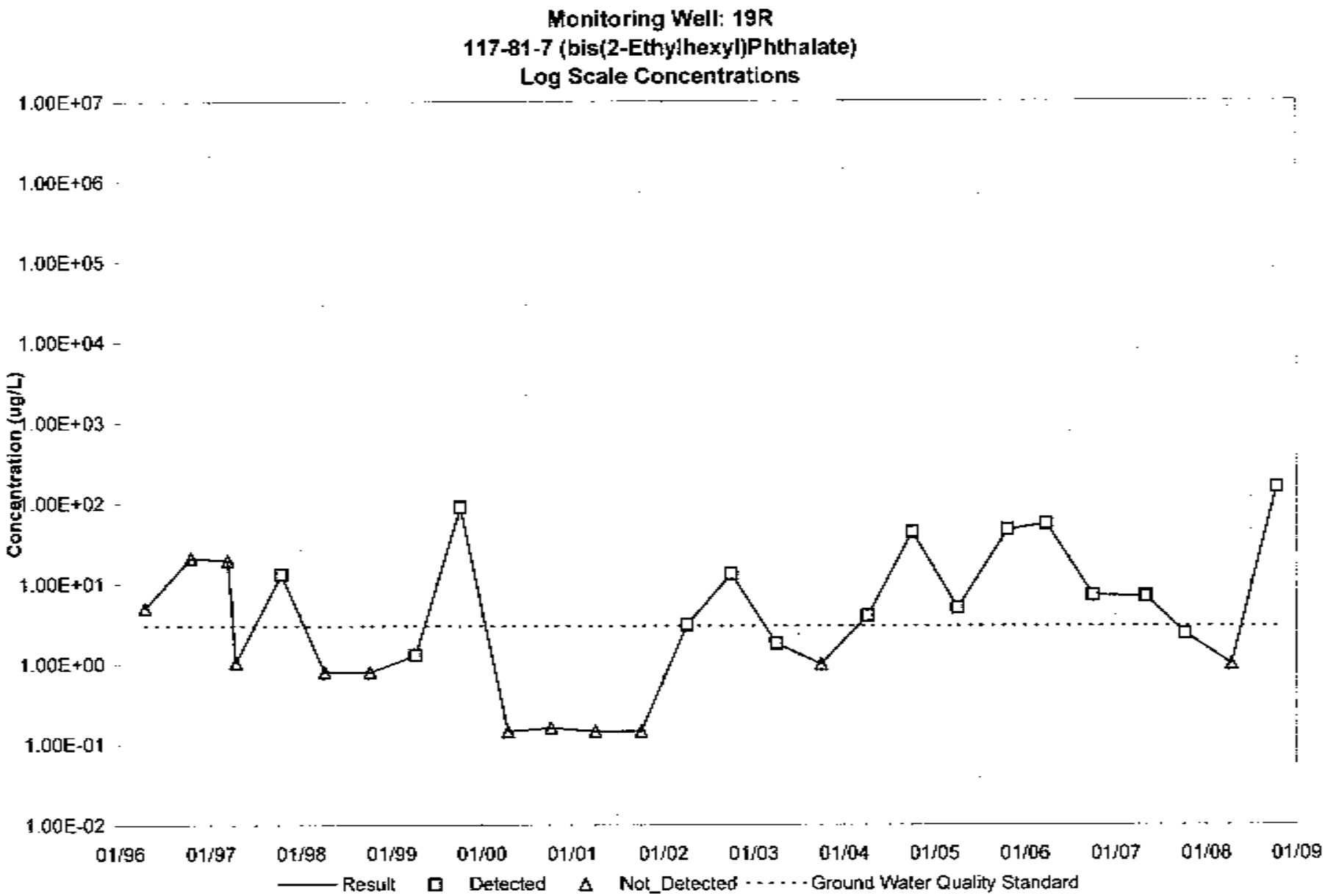

Monitoring Well: O-R
108-90-7 (Chlorobenzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

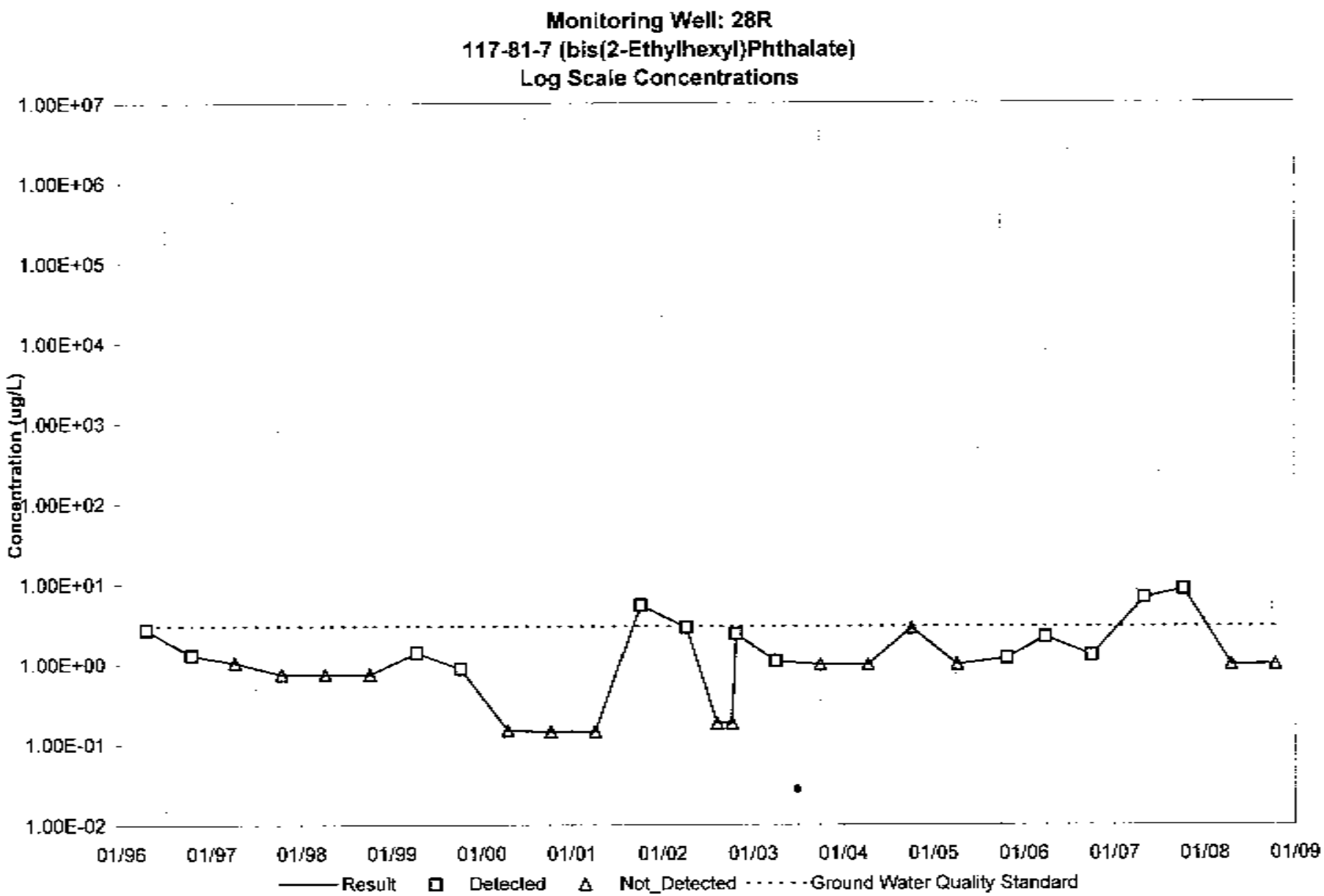

Monitoring Well: PW-2
108-90-7 (Chlorobenzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

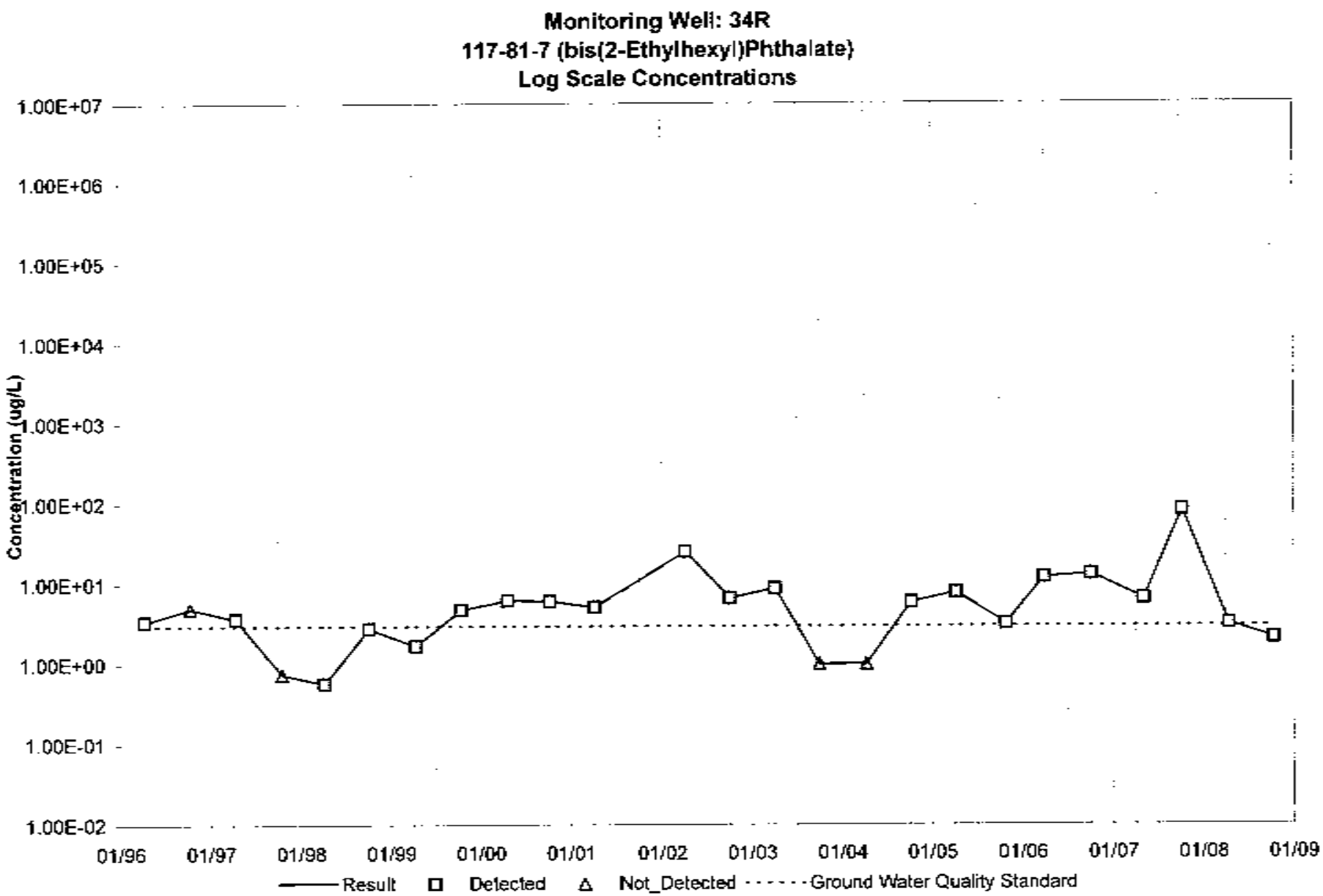

Monitoring Well: PW-3
108-90-7 (Chlorobenzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

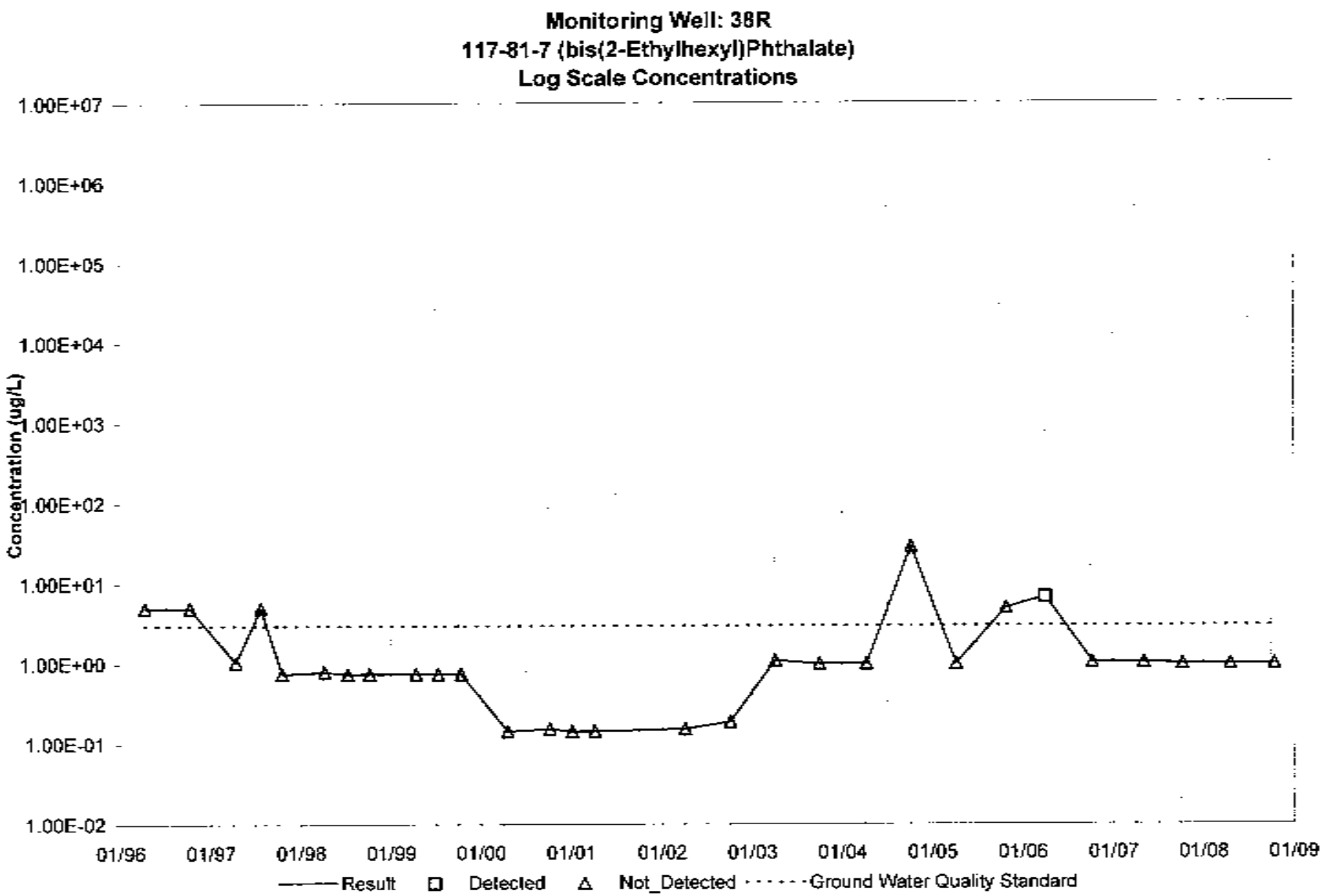

Monitoring Well: TFP-94-1R
108-90-7 (Chlorobenzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

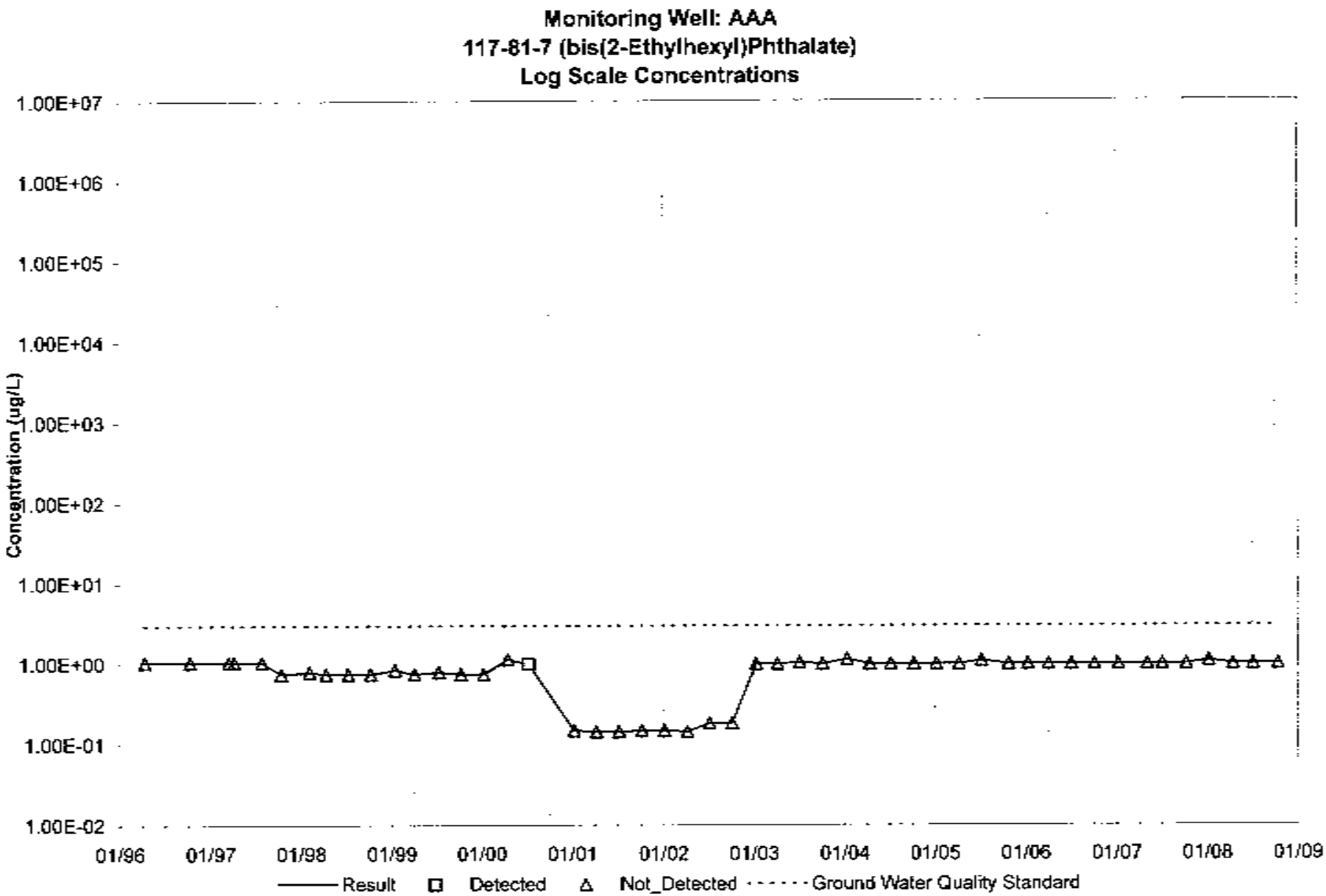

Monitoring Well: 19R
108-95-2 (Phenol)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

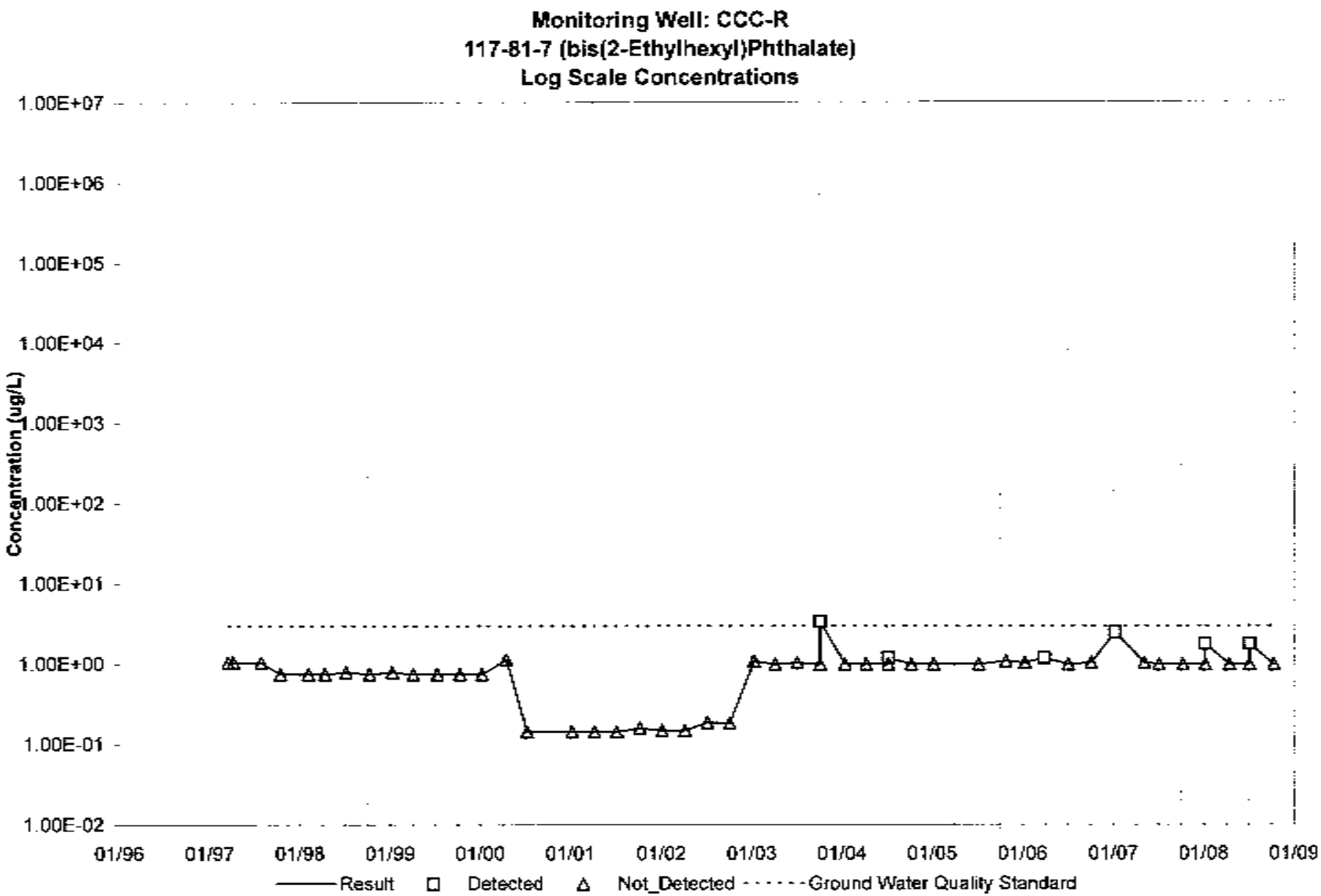

Monitoring Well: 19R
117-81-7 (bis(2-Ethylhexyl)Phthalate)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

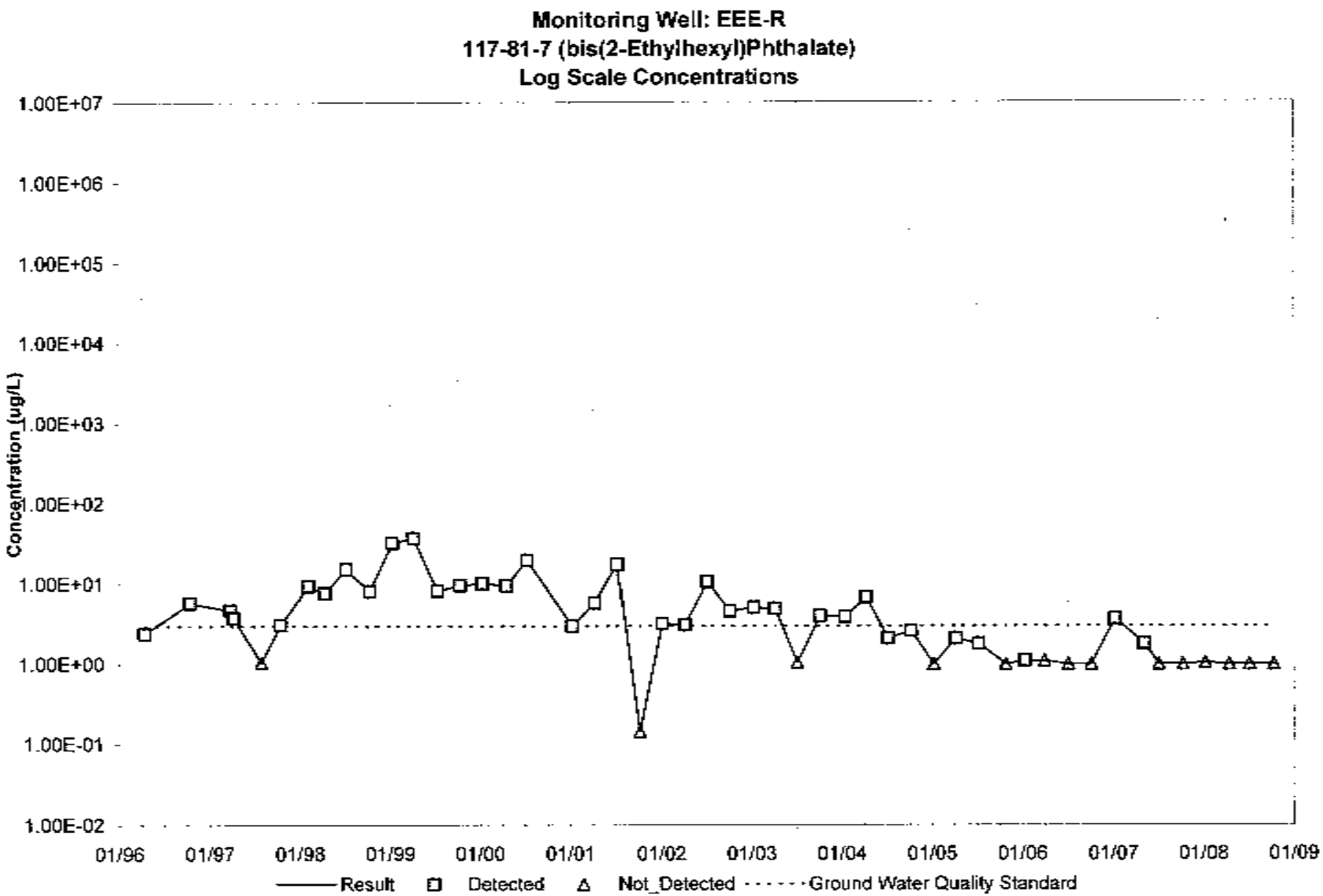

Monitoring Well: 28R
117-81-7 (bis(2-Ethylhexyl)Phthalate)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

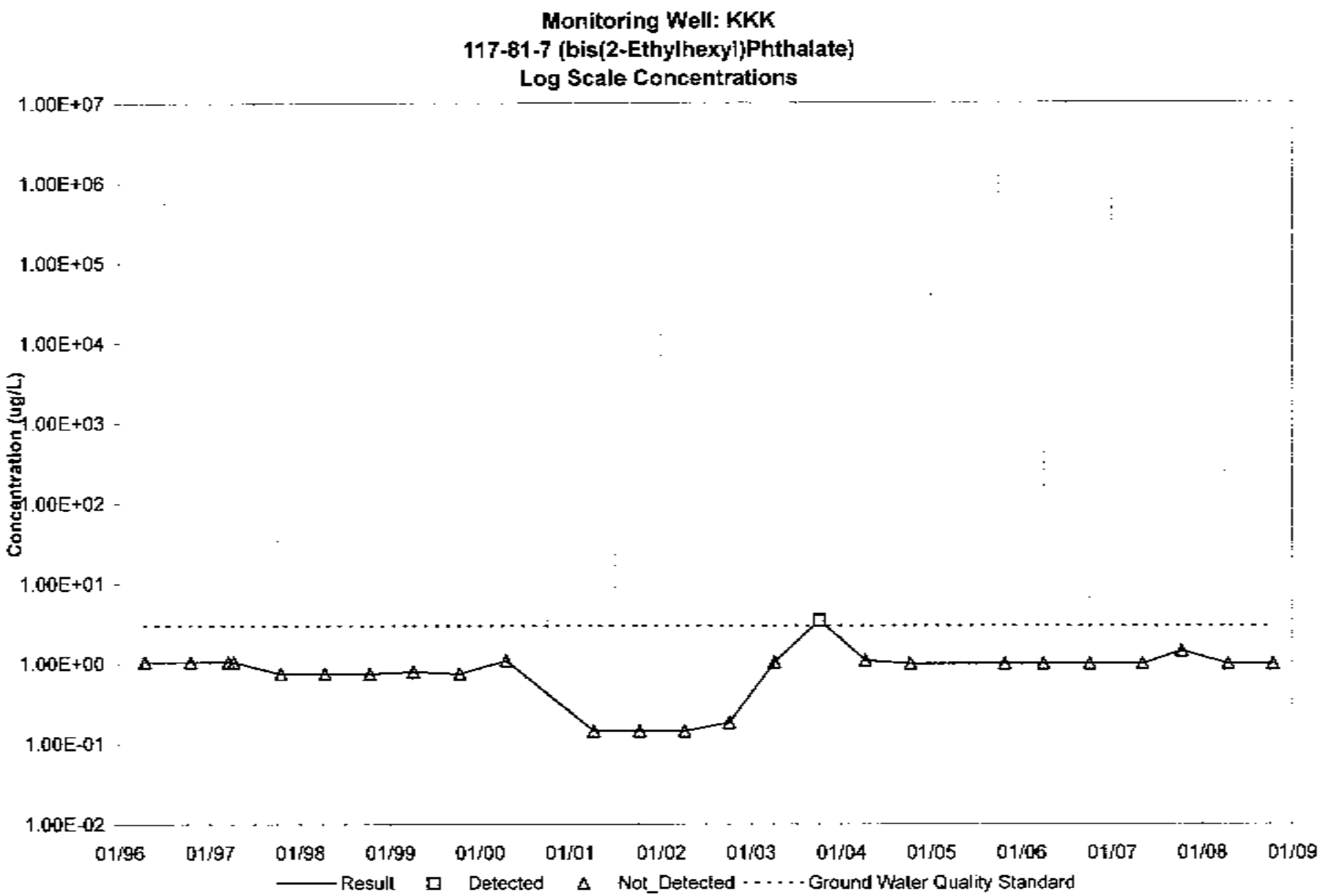

Monitoring Well: 34R
117-81-7 (bis(2-Ethylhexyl)Phthalate)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

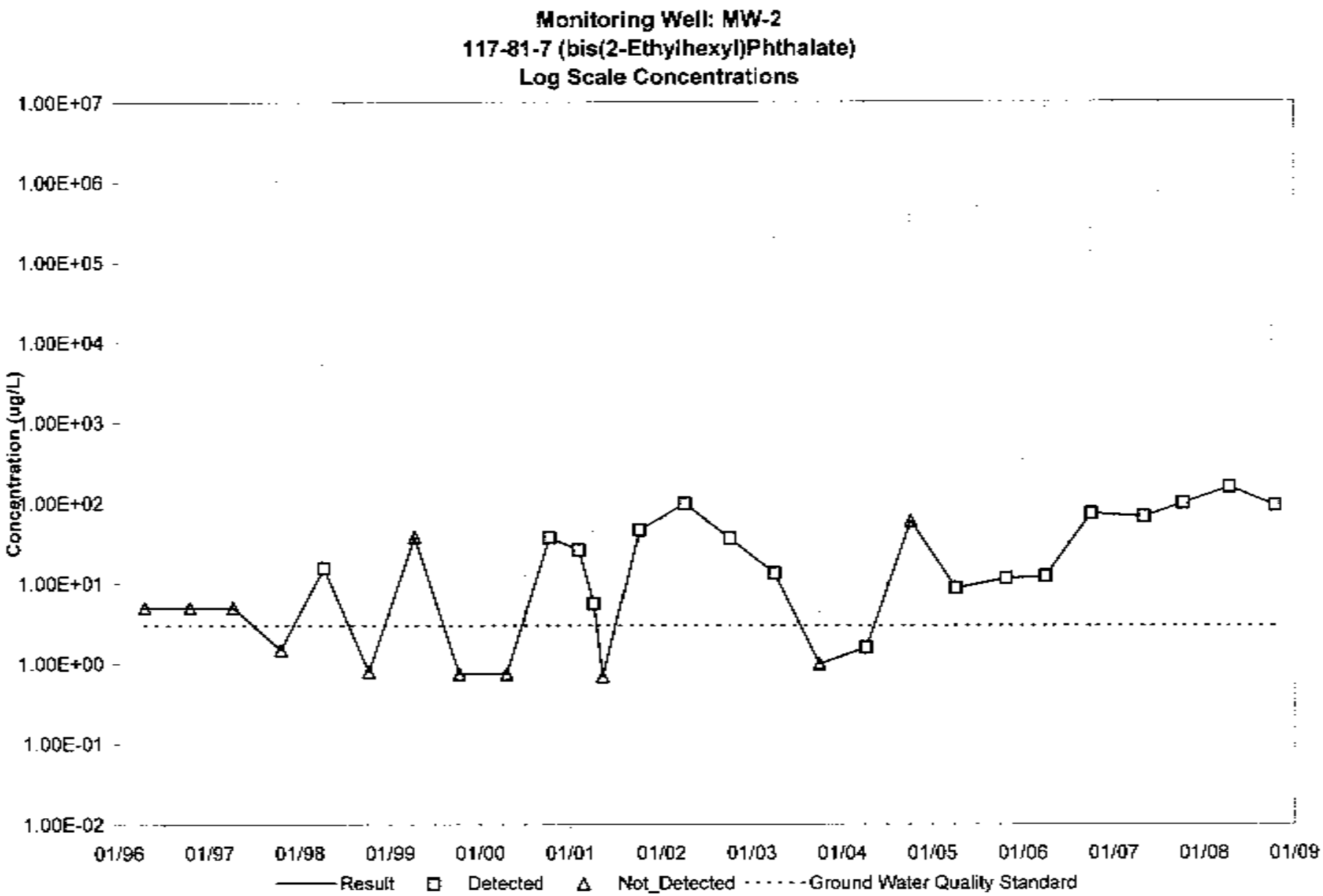

Monitoring Well: 38R
117-81-7 (bis(2-Ethylhexyl)Phthalate)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

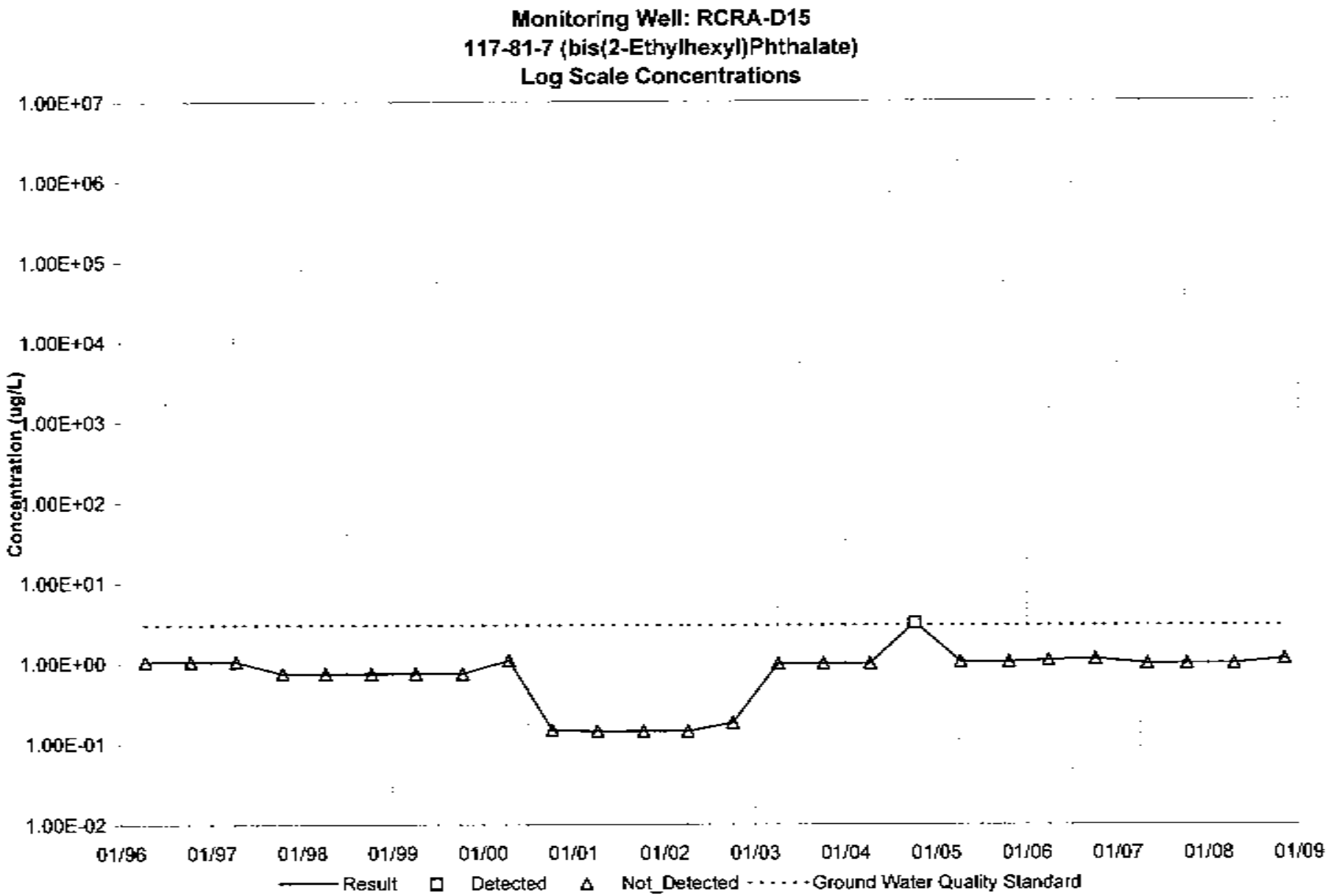

Monitoring Well: AAA
117-81-7 (bis(2-Ethylhexyl)Phthalate)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

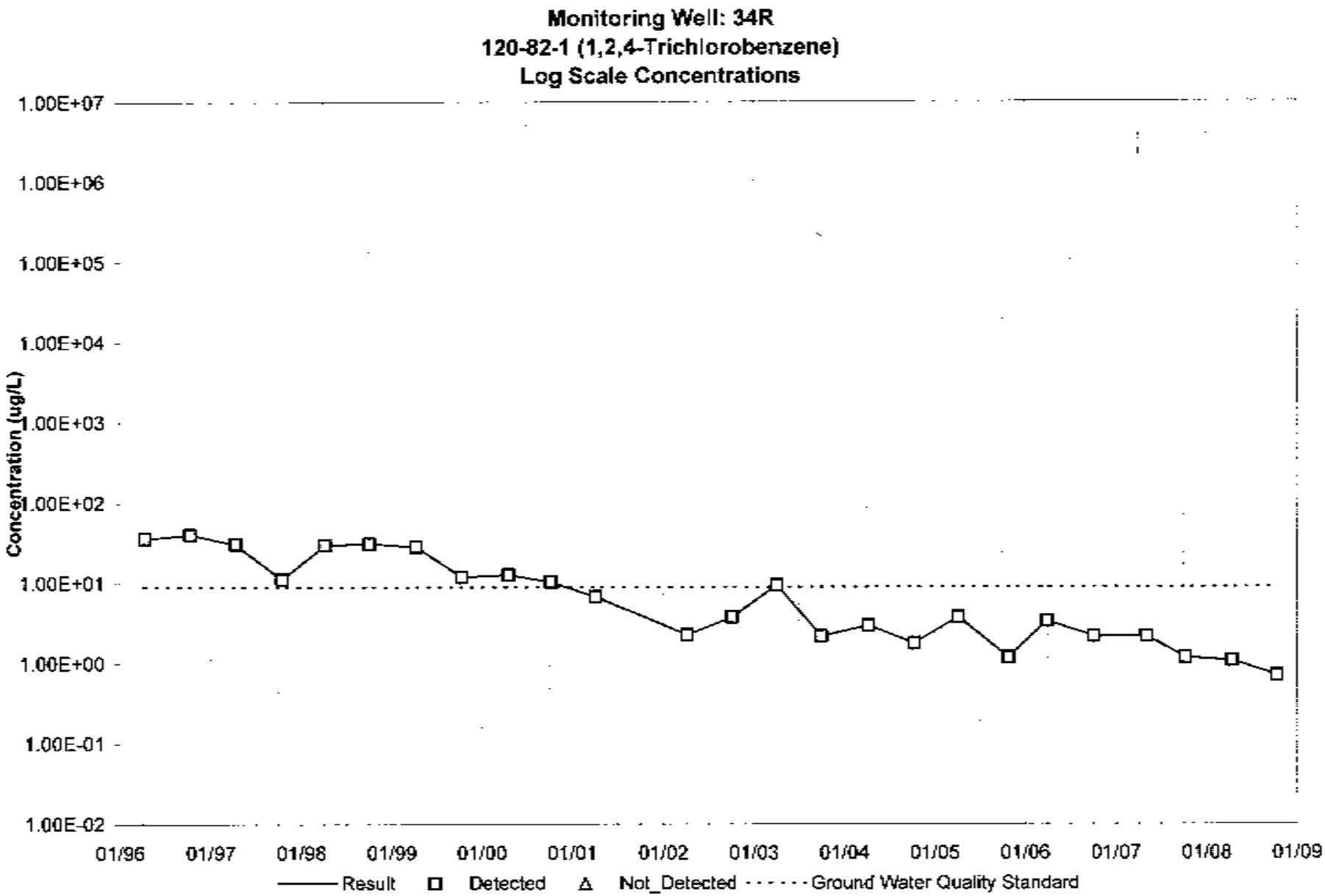

Monitoring Well: CCC-R
117-81-7 (bis(2-Ethylhexyl)Phthalate)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

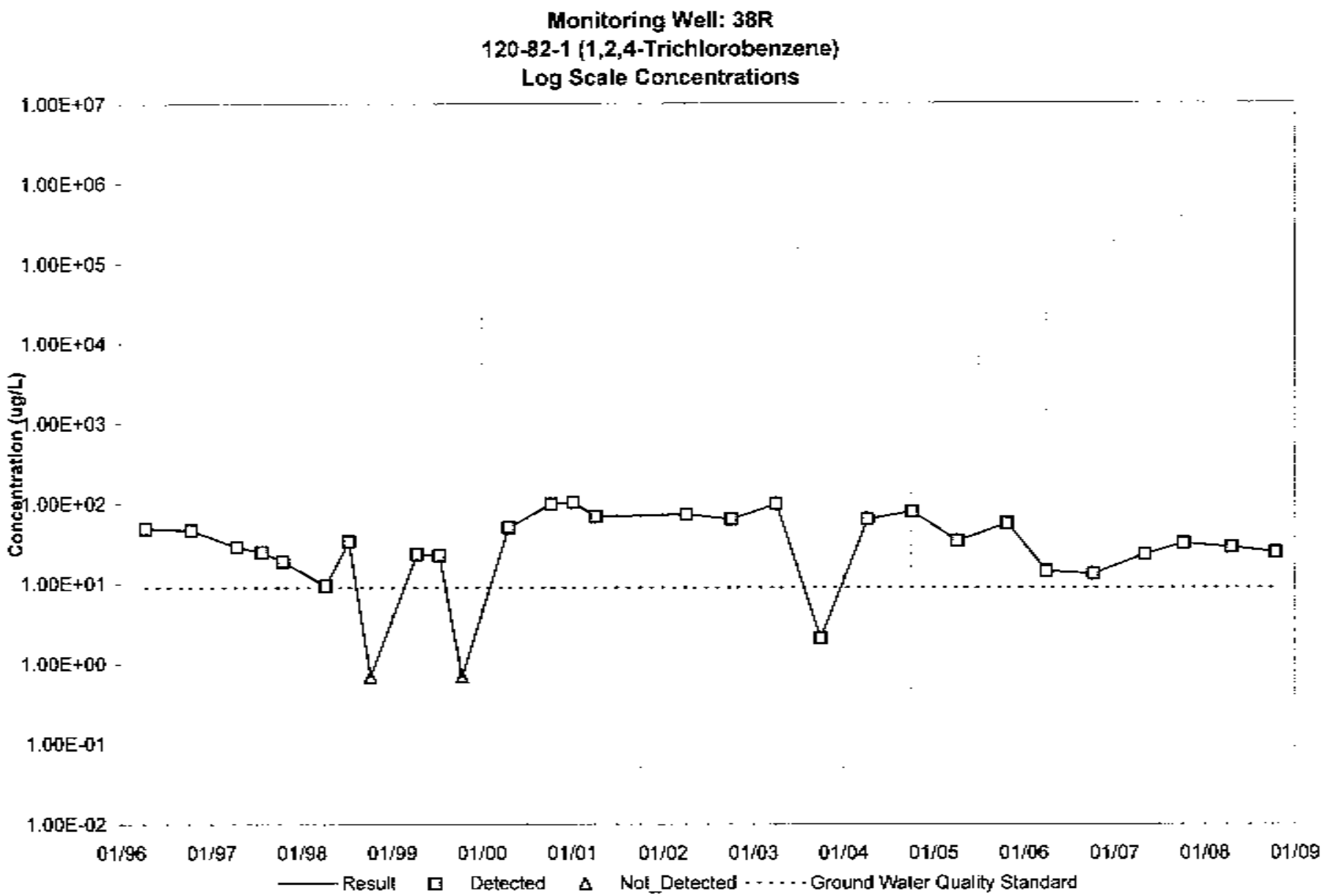

Monitoring Well: EEE-R
117-81-7 (bis(2-Ethylhexyl)Phthalate)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

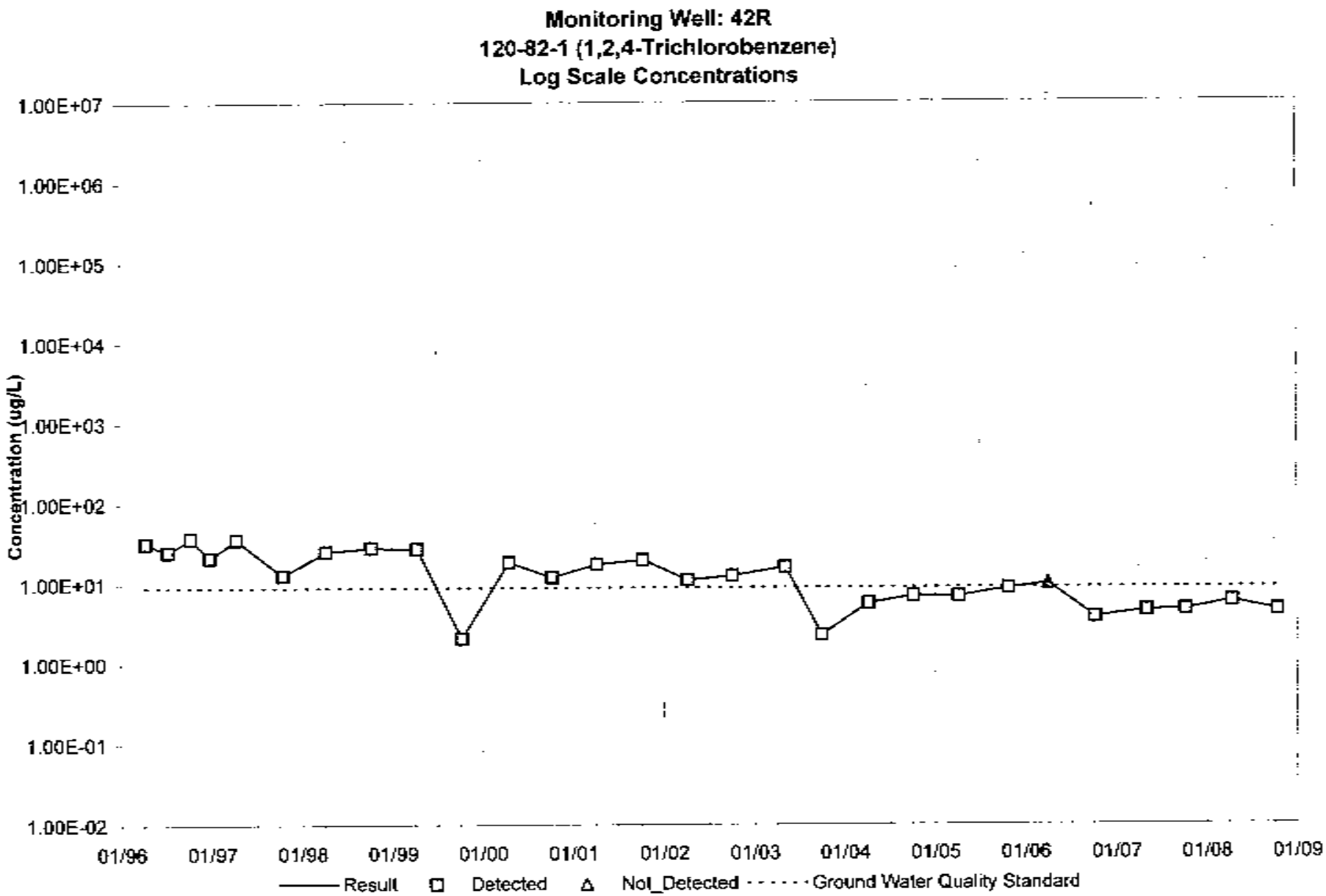

Monitoring Well: KKK
117-81-7 (bis(2-Ethylhexyl)Phthalate)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

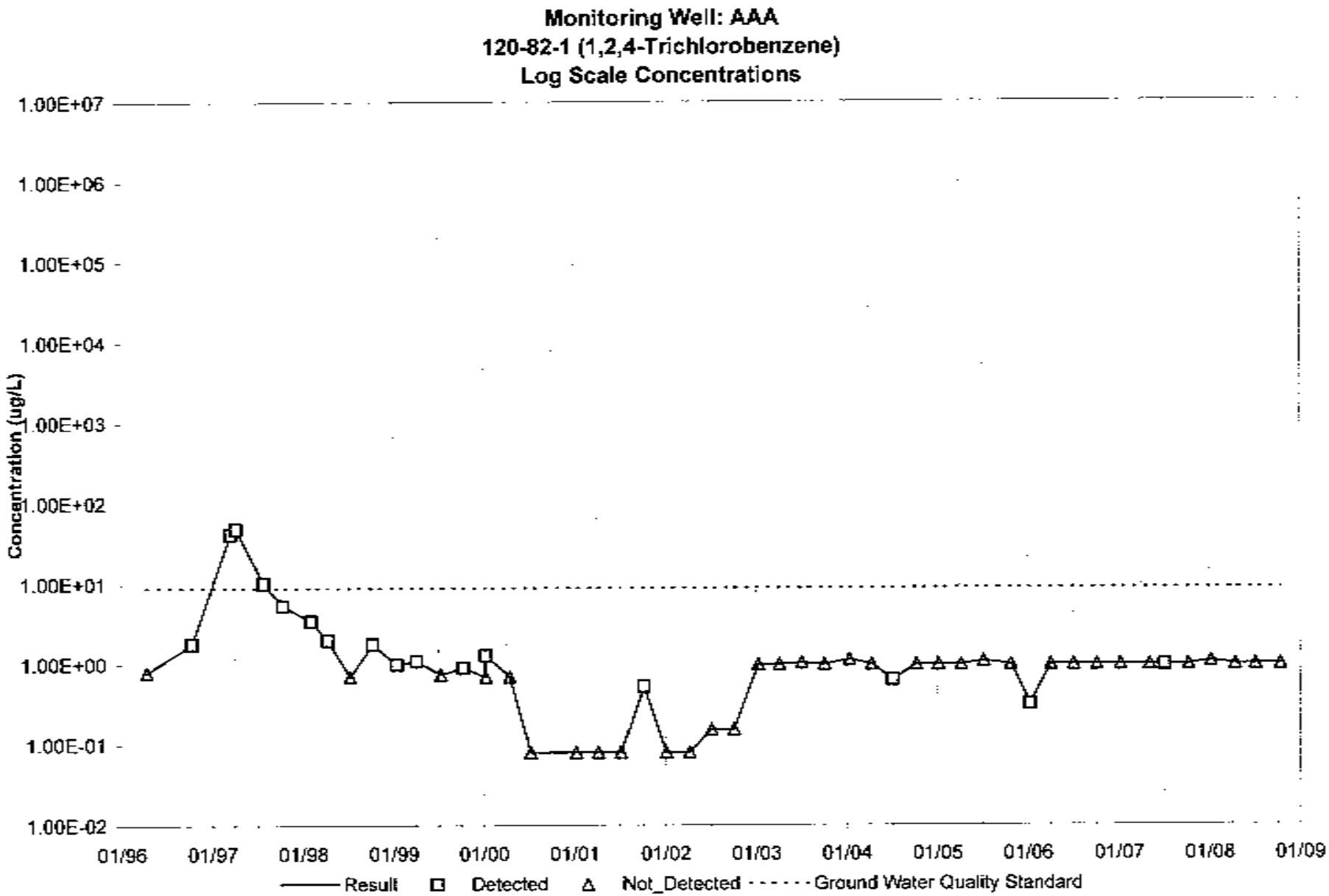

Monitoring Well: MW-2
117-81-7 (bis(2-Ethylhexyl)Phthalate)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

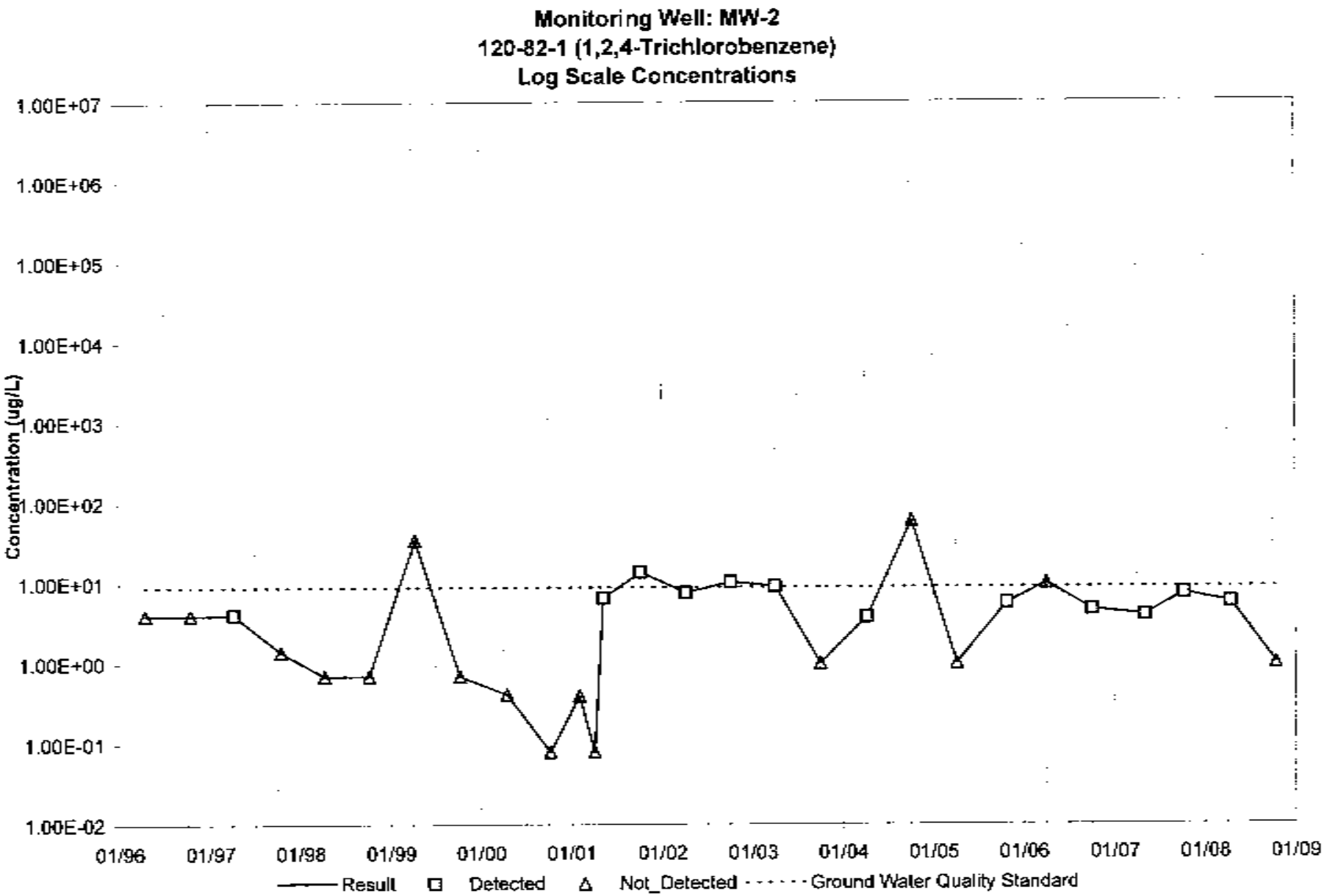

Monitoring Well: RCRA-D15
117-81-7 (bis(2-Ethylhexyl)Phthalate)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

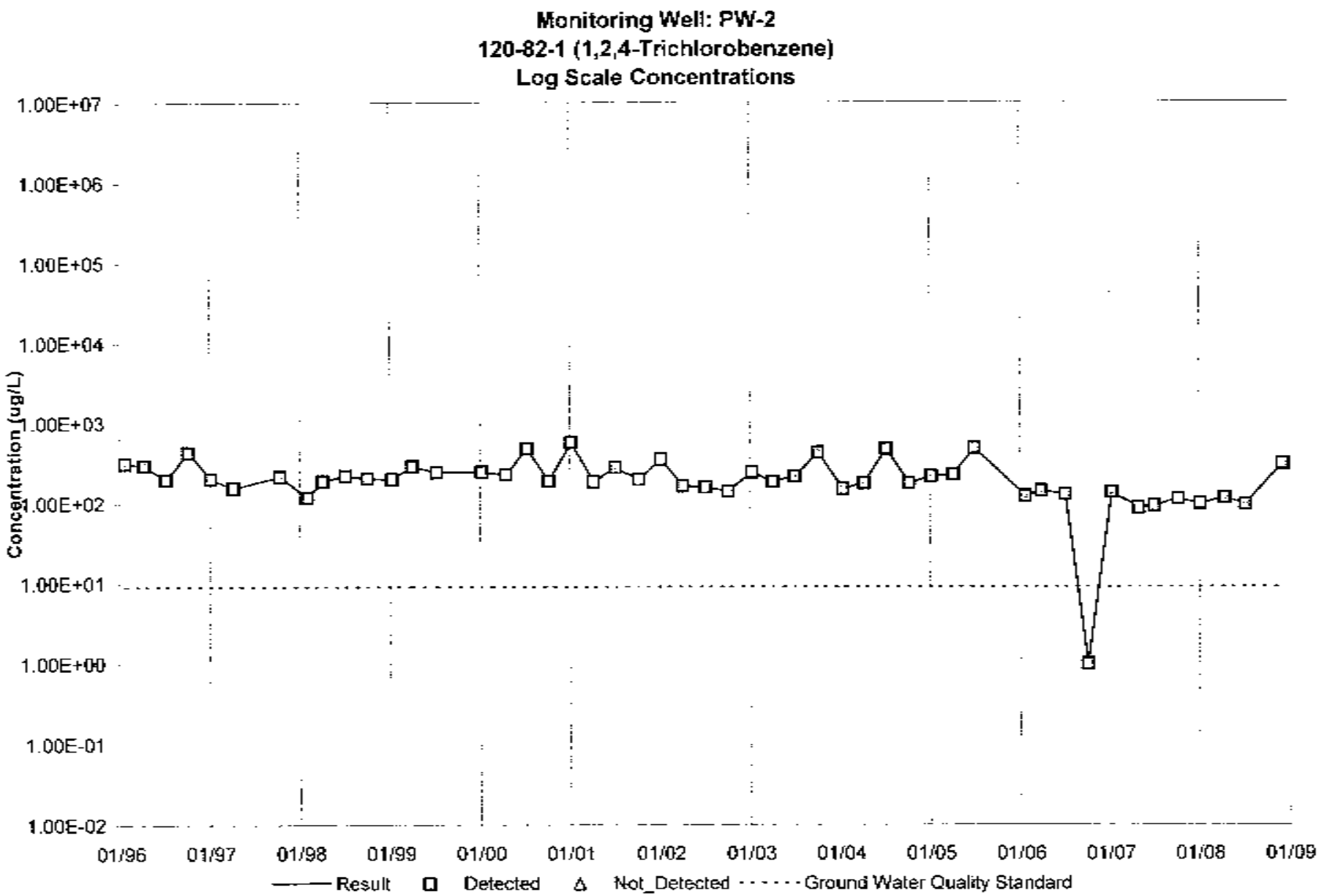

Monitoring Well: 34R
120-82-1 (1,2,4-Trichlorobenzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

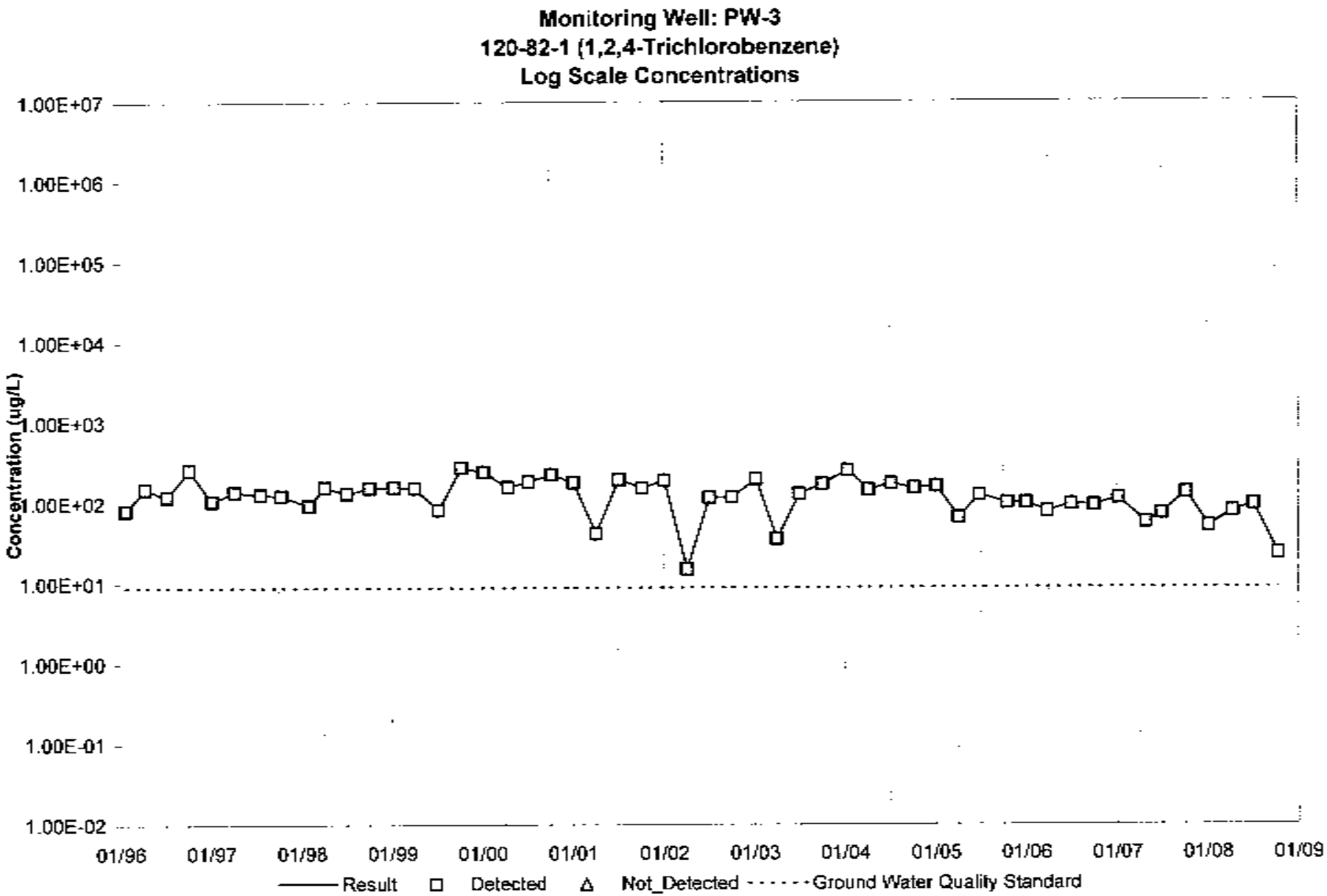

Monitoring Well: 38R
120-82-1 (1,2,4-Trichlorobenzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

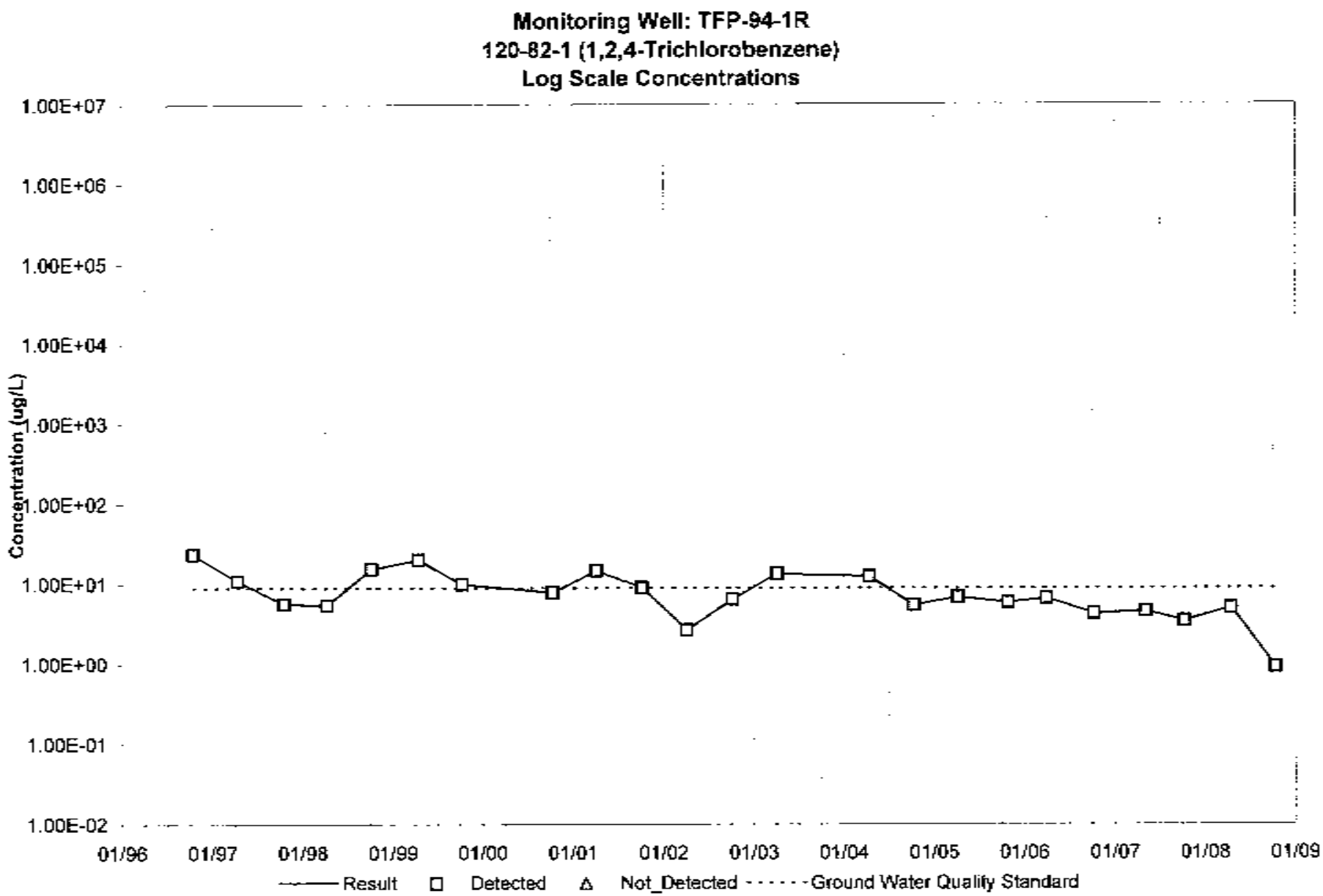

Monitoring Well: 42R
120-82-1 (1,2,4-Trichlorobenzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

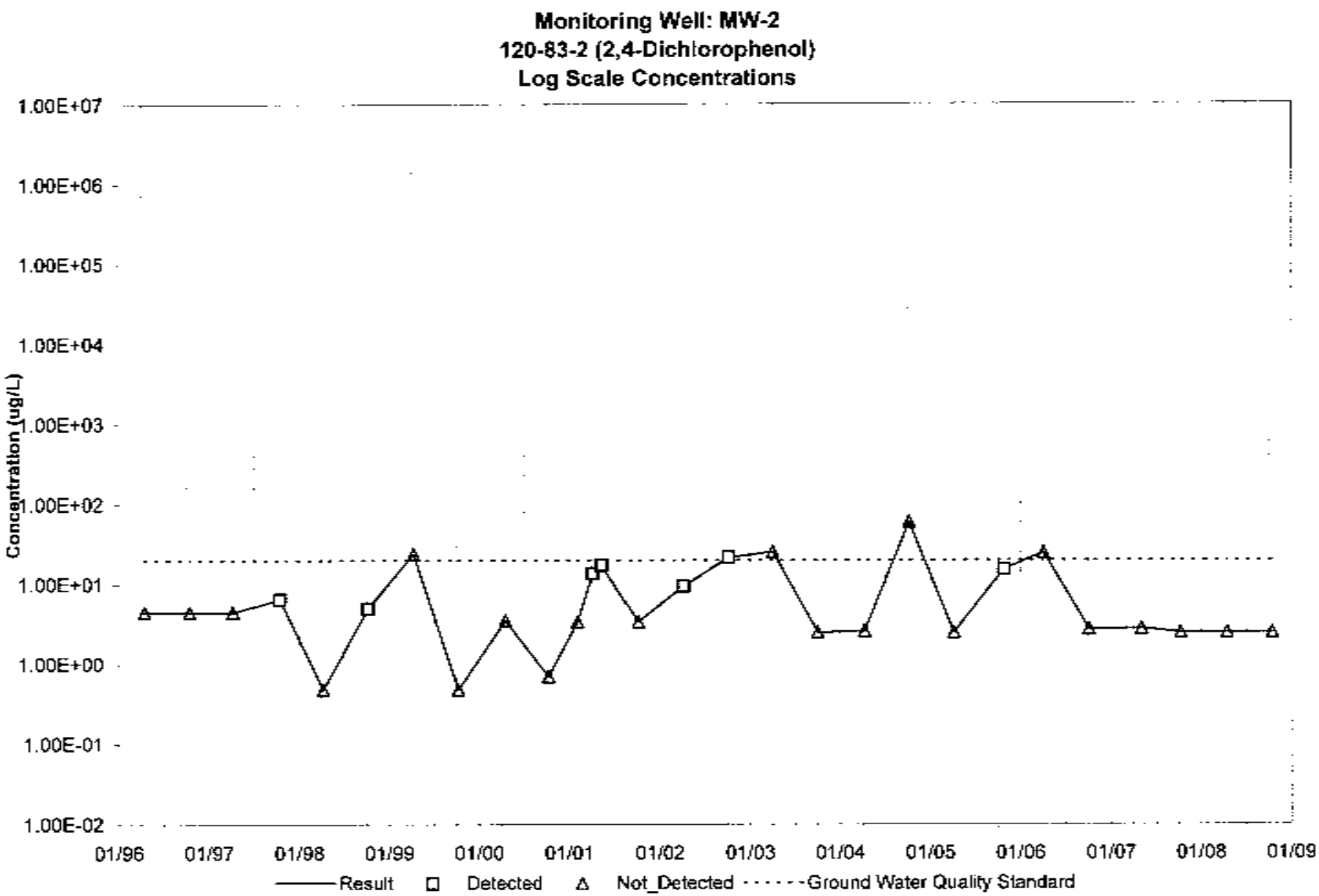

Monitoring Well: AAA
120-82-1 (1,2,4-Trichlorobenzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

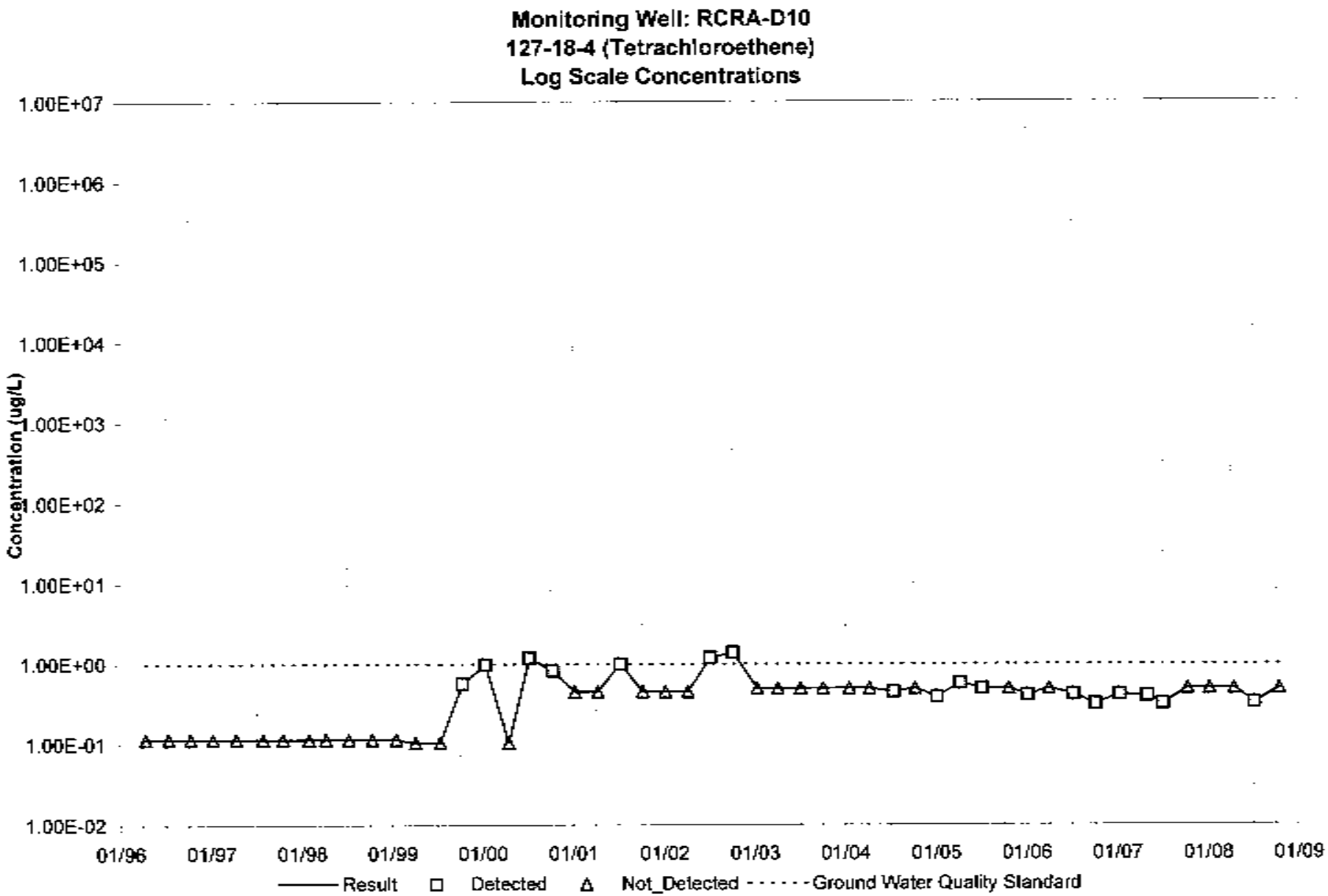

Monitoring Well: MW-2
120-82-1 (1,2,4-Trichlorobenzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

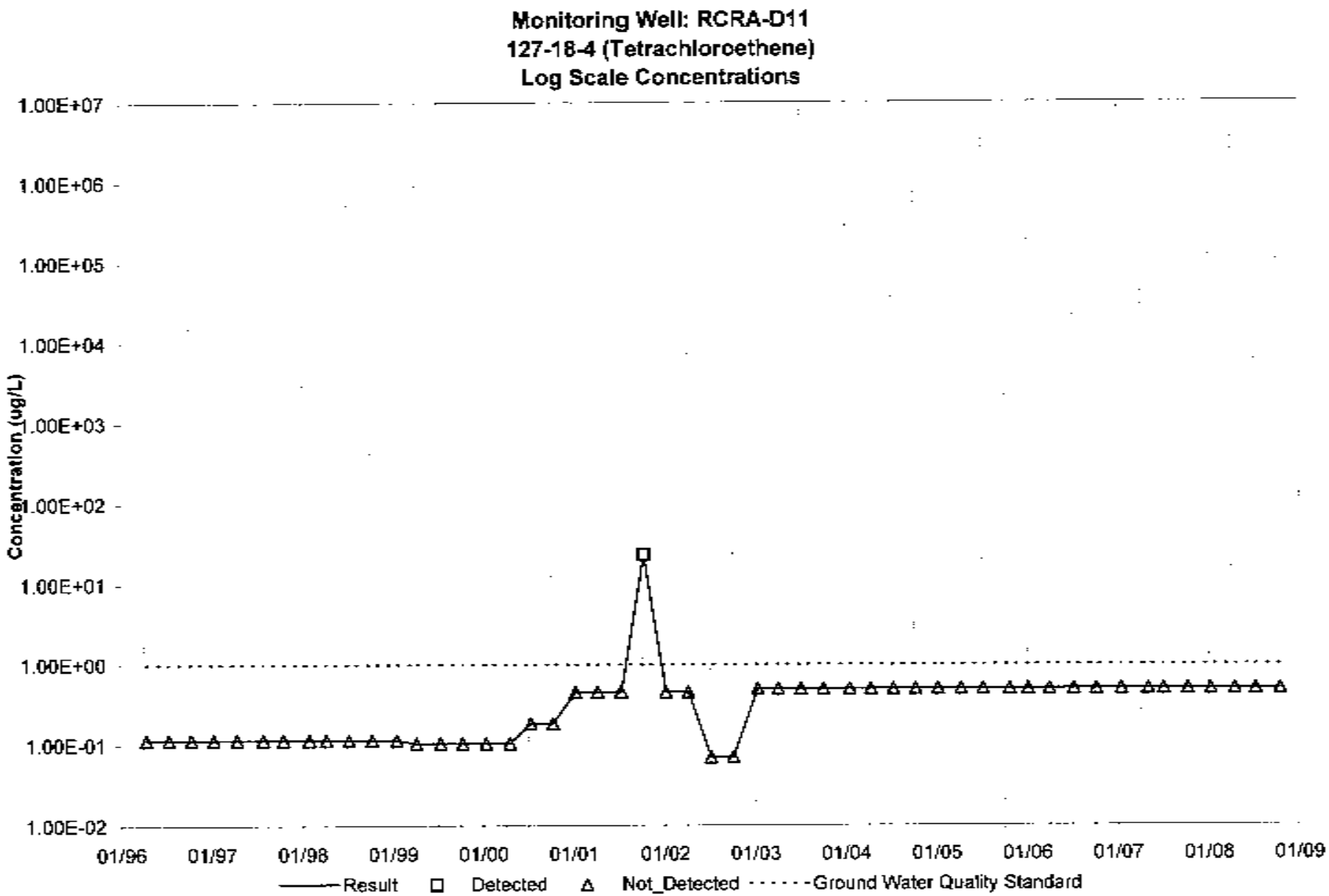

Monitoring Well: PW-2
120-82-1 (1,2,4-Trichlorobenzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

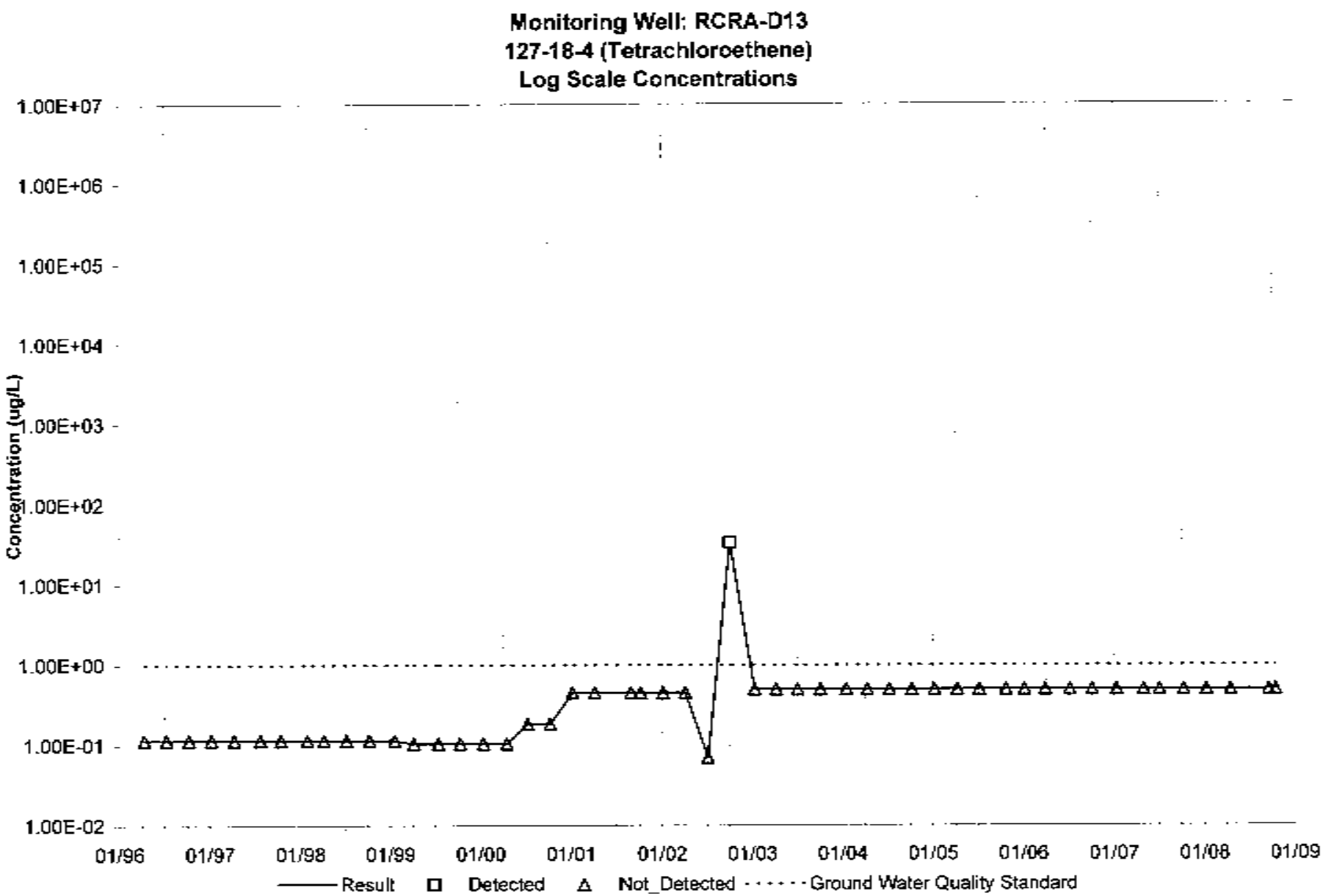

Monitoring Well: PW-3
120-82-1 (1,2,4-Trichlorobenzene)
Log Scale Concentrations
Concentration (µg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

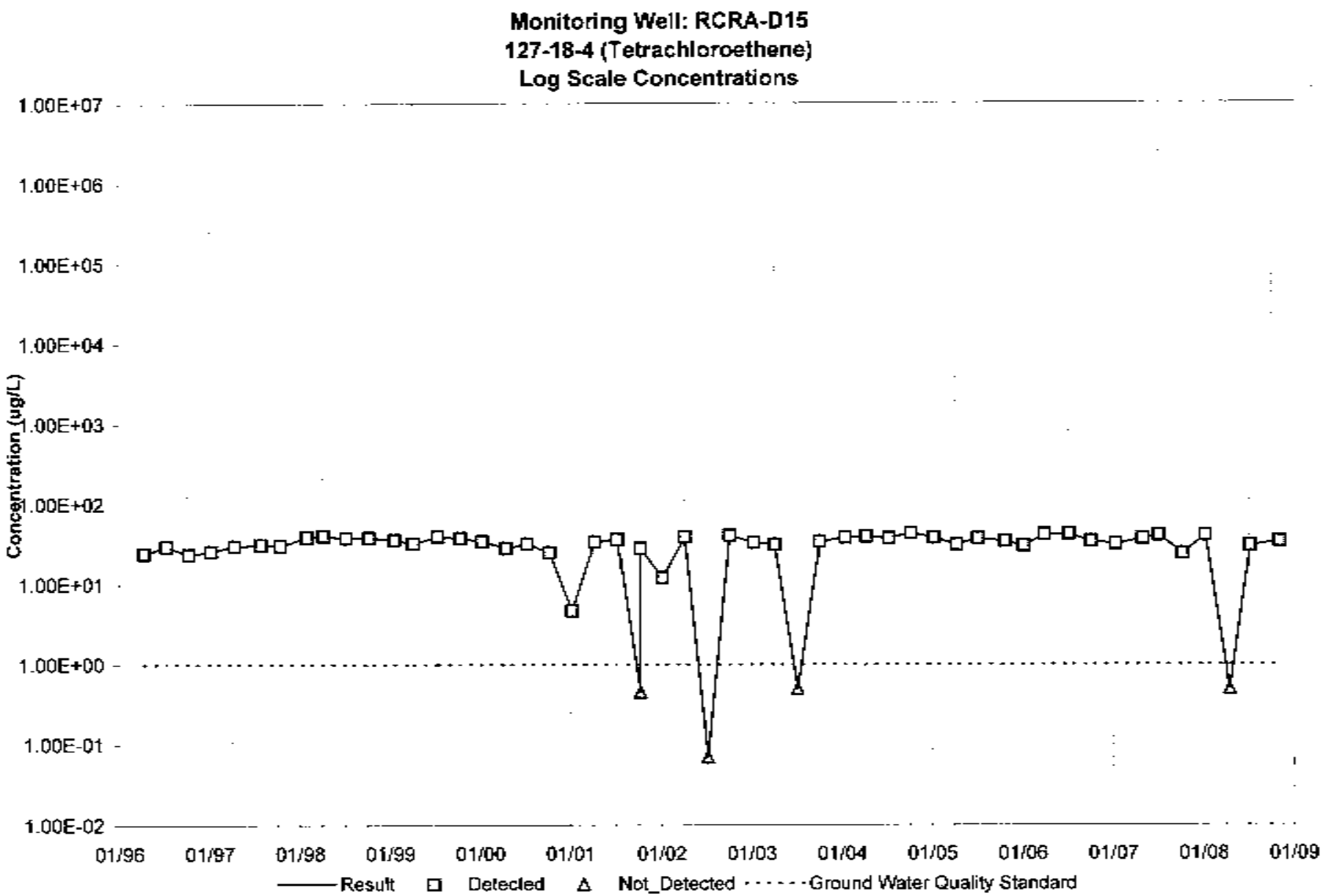

Monitoring Well: TFP-94-1R
120-82-1 (1,2,4-Trichlorobenzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

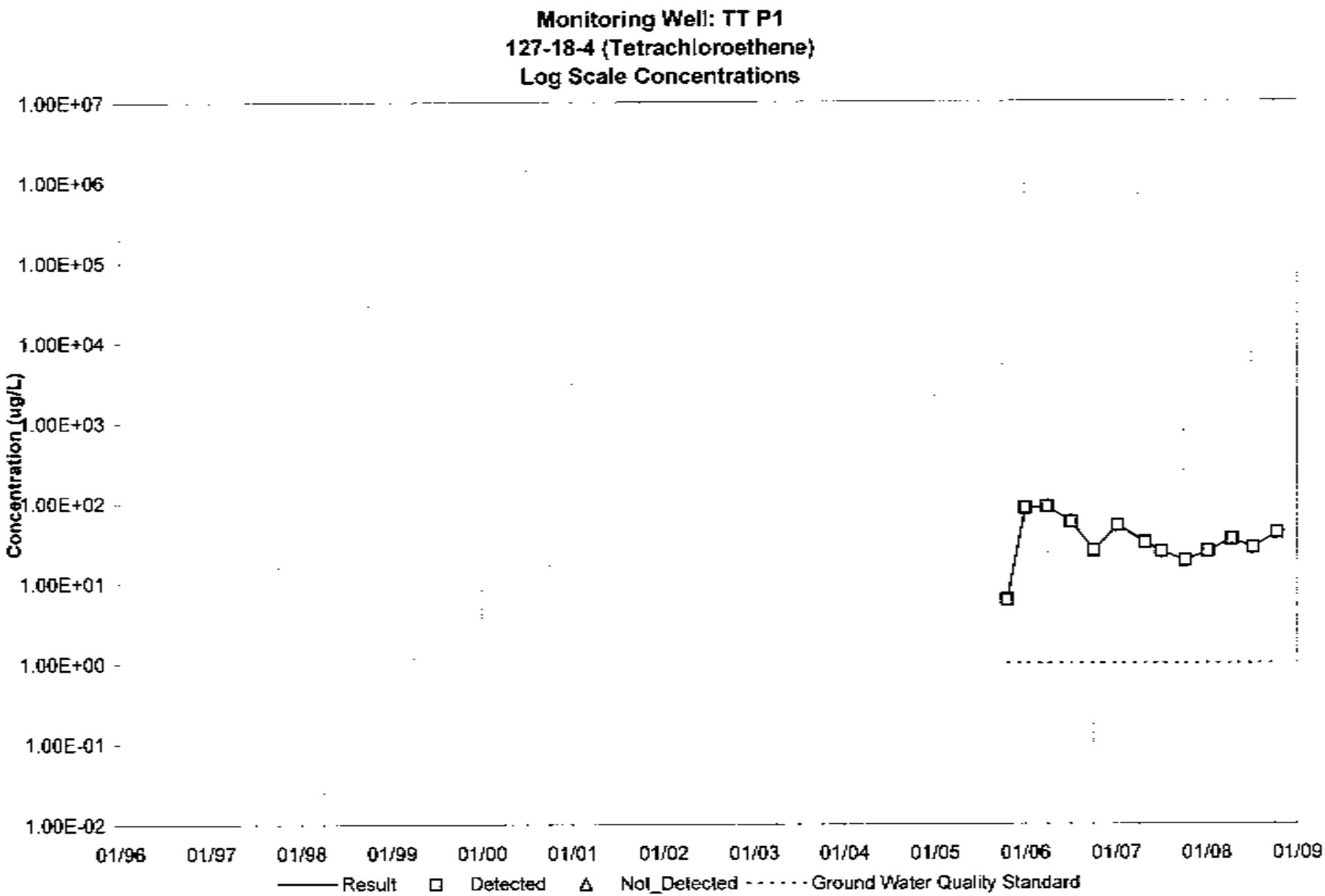

Monitoring Well: MW-2
120-83-2 (2,4-Dichlorophenol)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

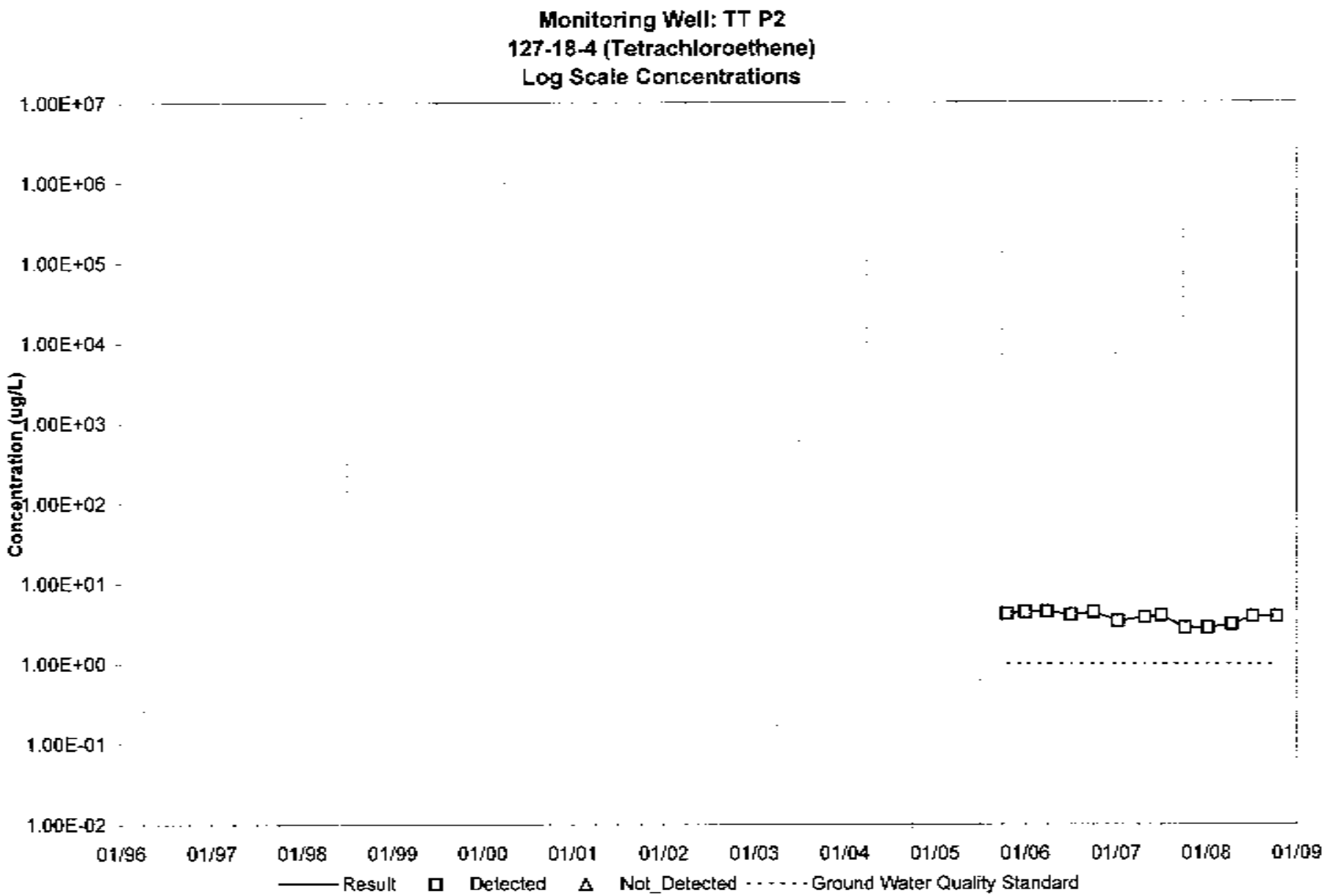

Monitoring Well: RCRA-D10
127-18-4 (Tetrachloroethene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard


Monitoring Well: RCRA-D11
127-18-4 (Tetrachloroethene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

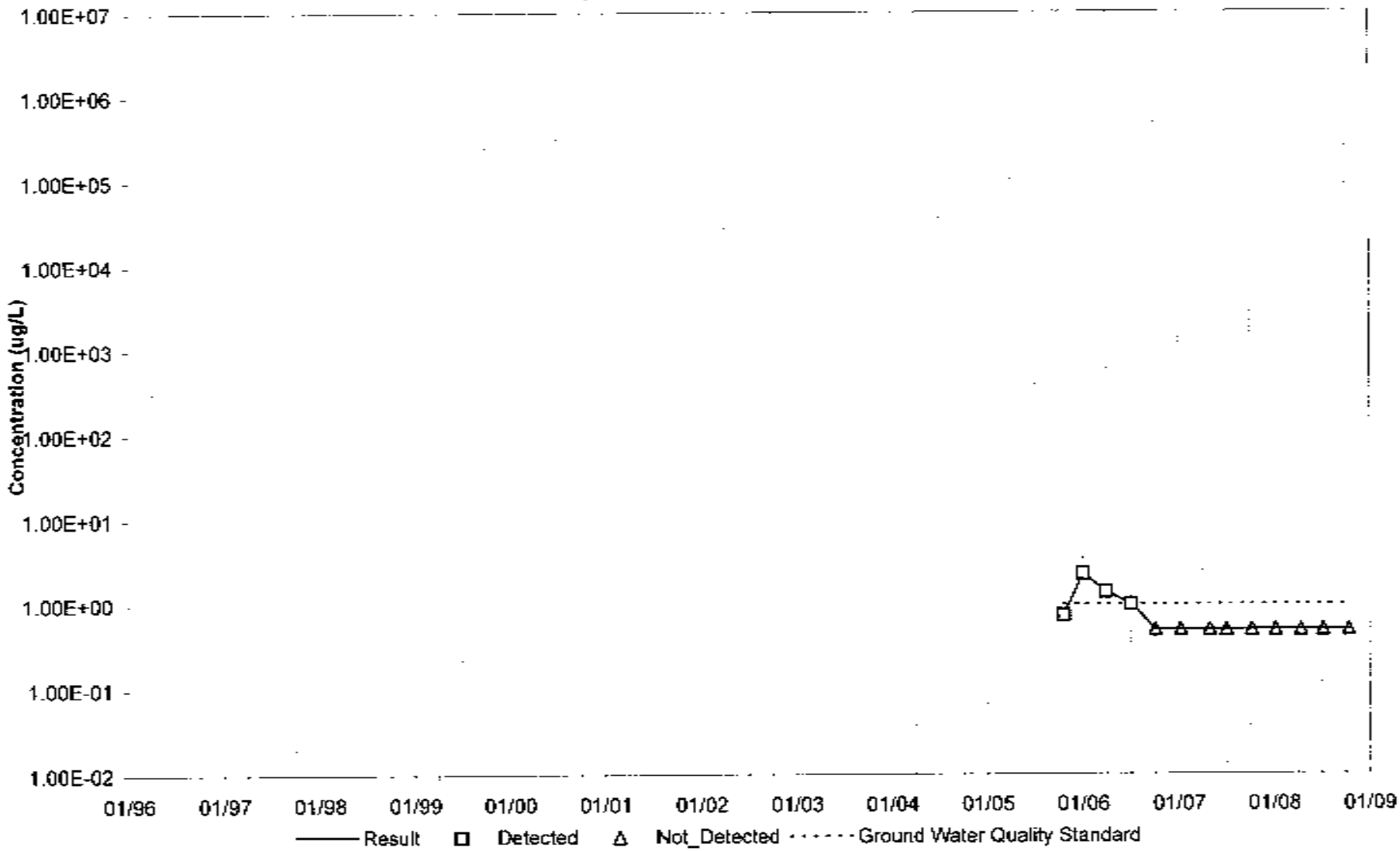

Monitoring Well: RCRA-D13
127-18-4 (Tetrachloroethene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

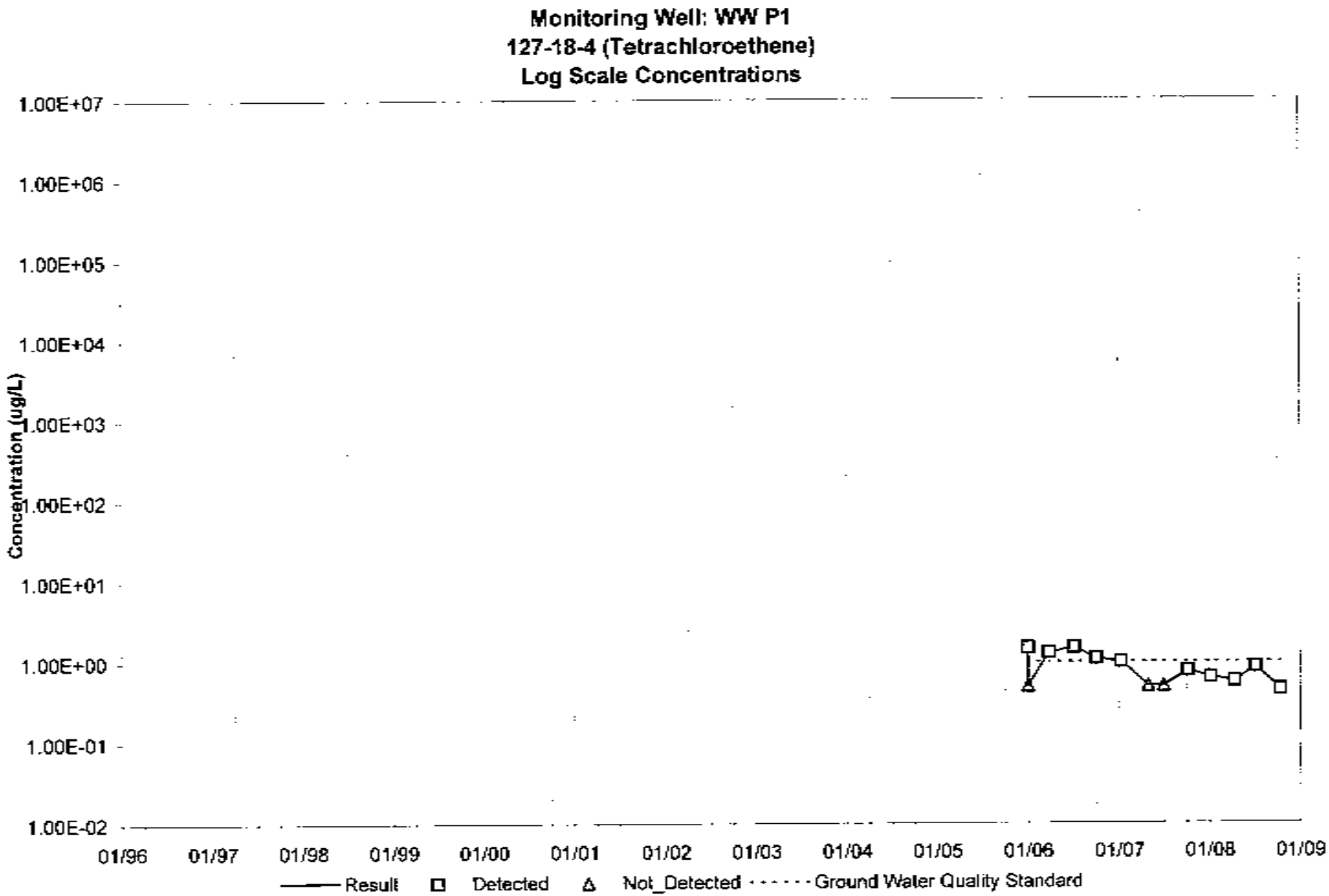

Monitoring Well: RCRA-D15
127-18-4 (Tetrachloroethene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

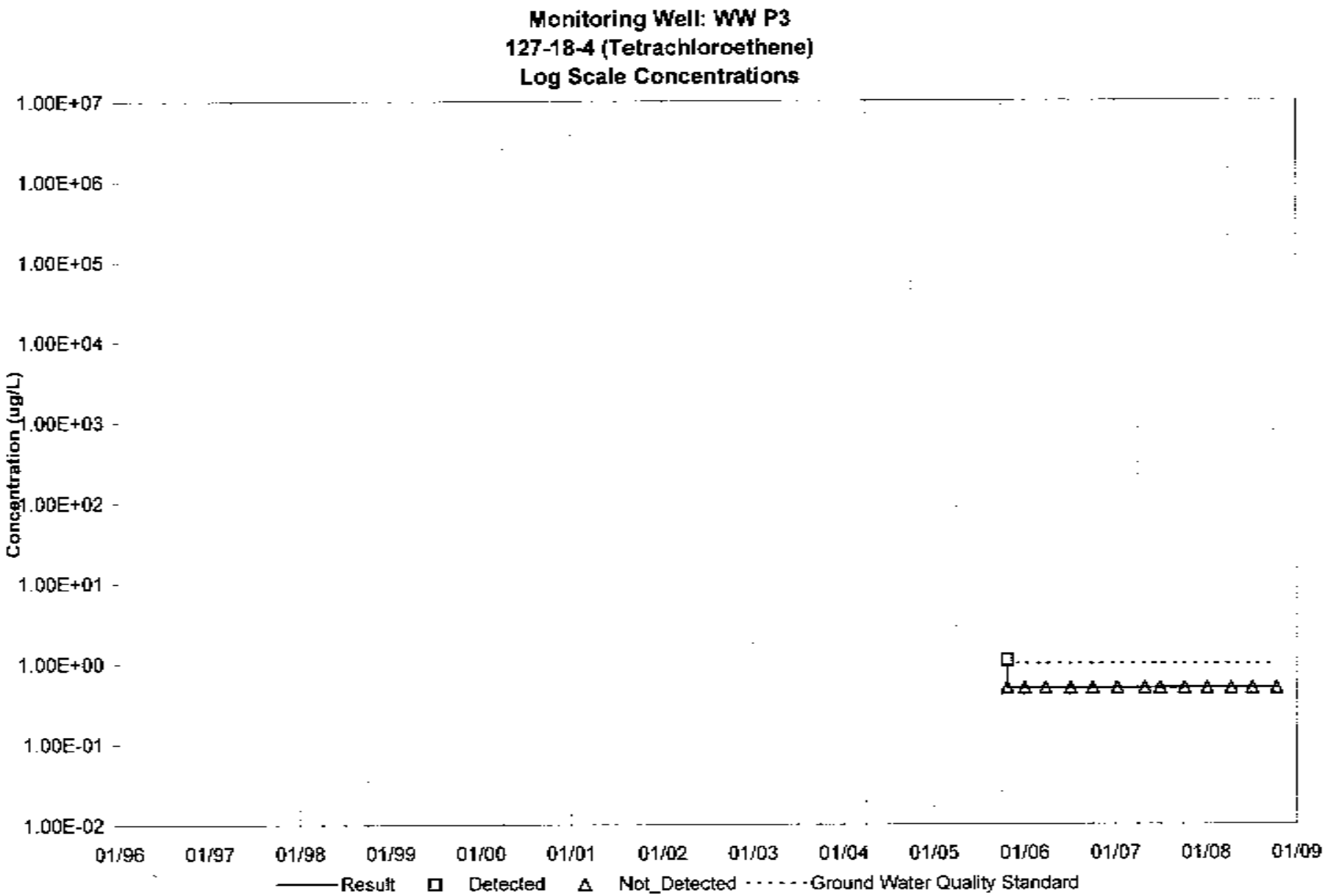

Monitoring Well: TT P1
127-18-4 (Tetrachloroethene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard


Monitoring Well: TT P2
127-18-4 (Tetrachloroethene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

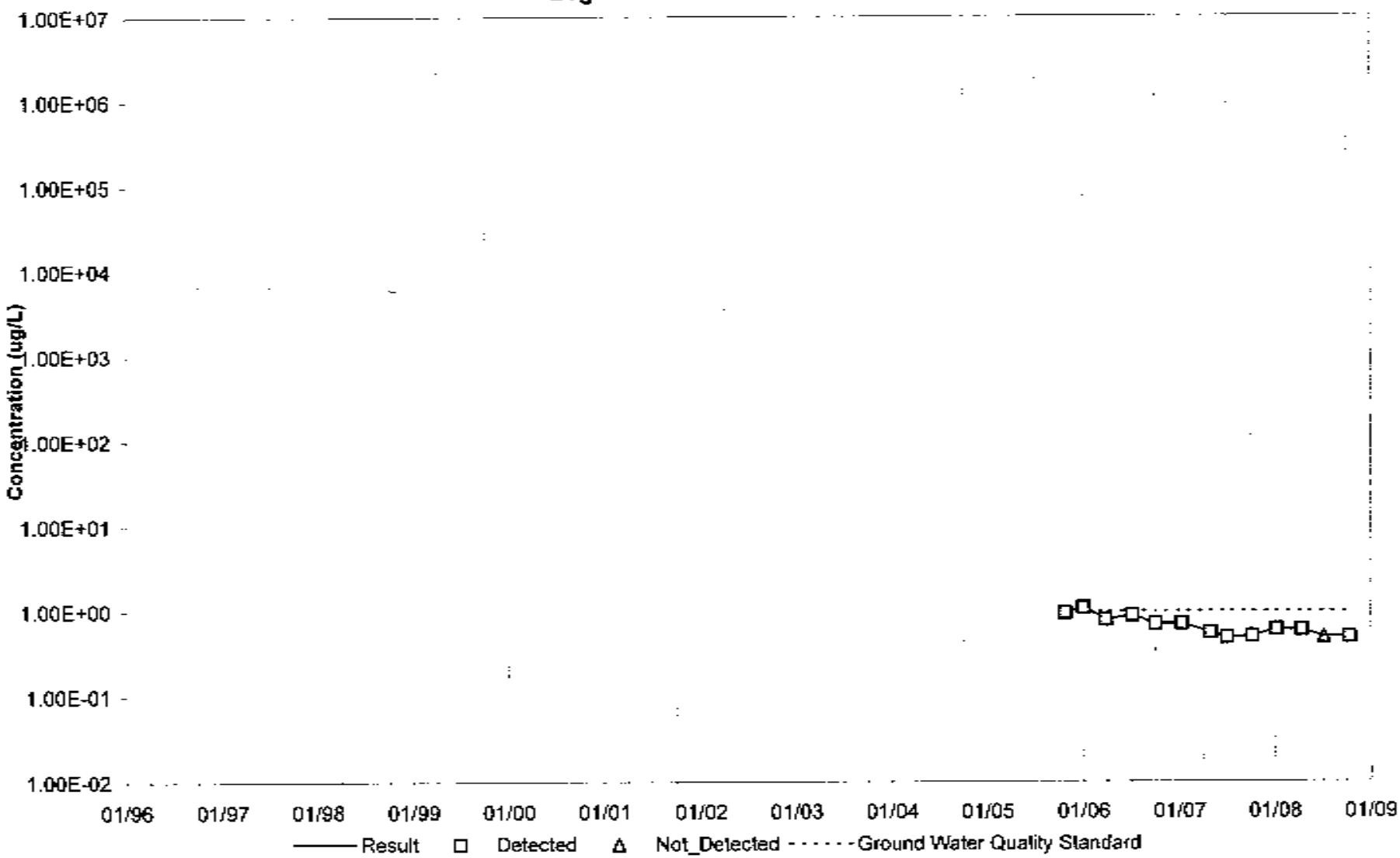
Monitoring Well: TT P3
127-18-4 (Tetrachloroethene)
Log Scale Concentrations

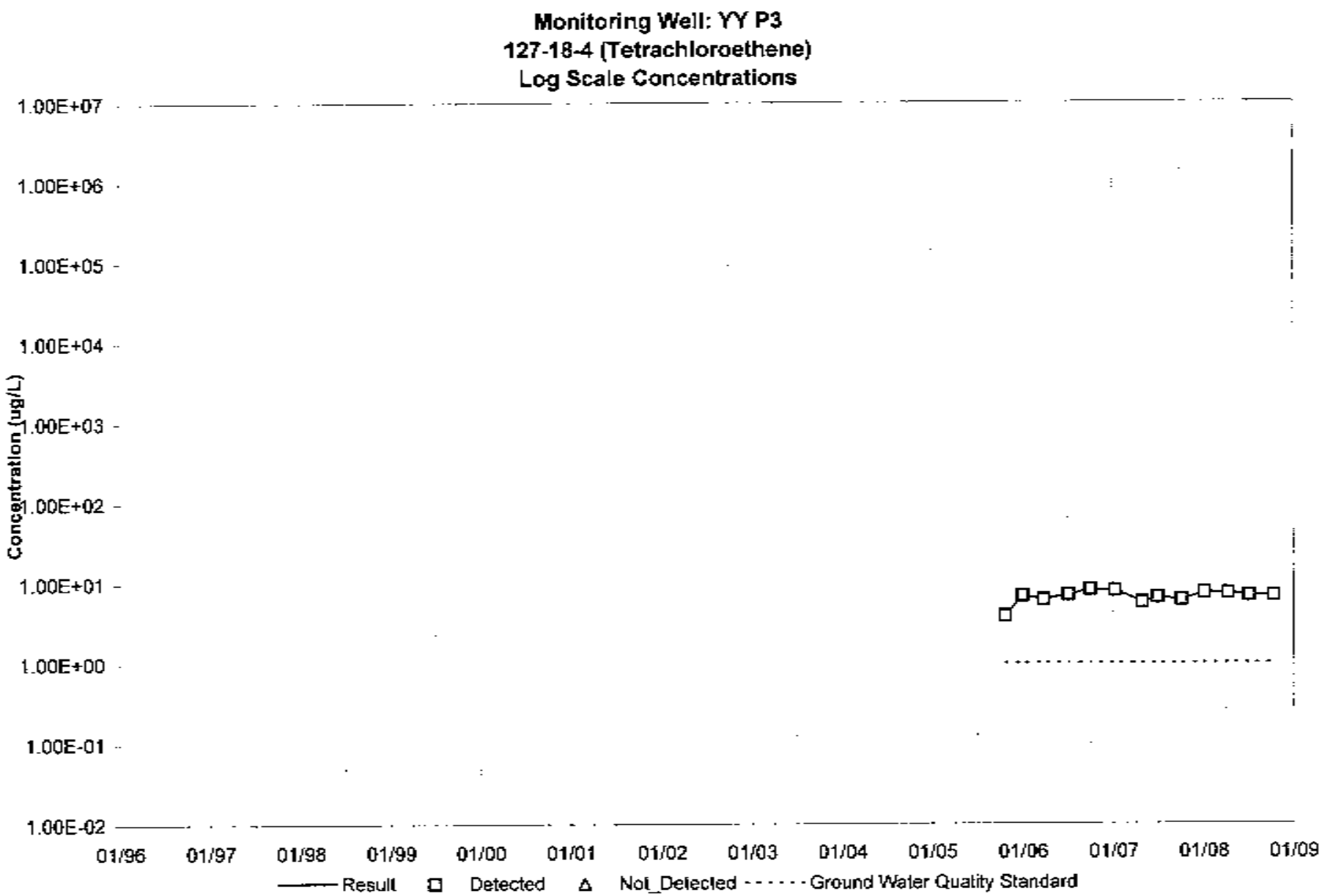


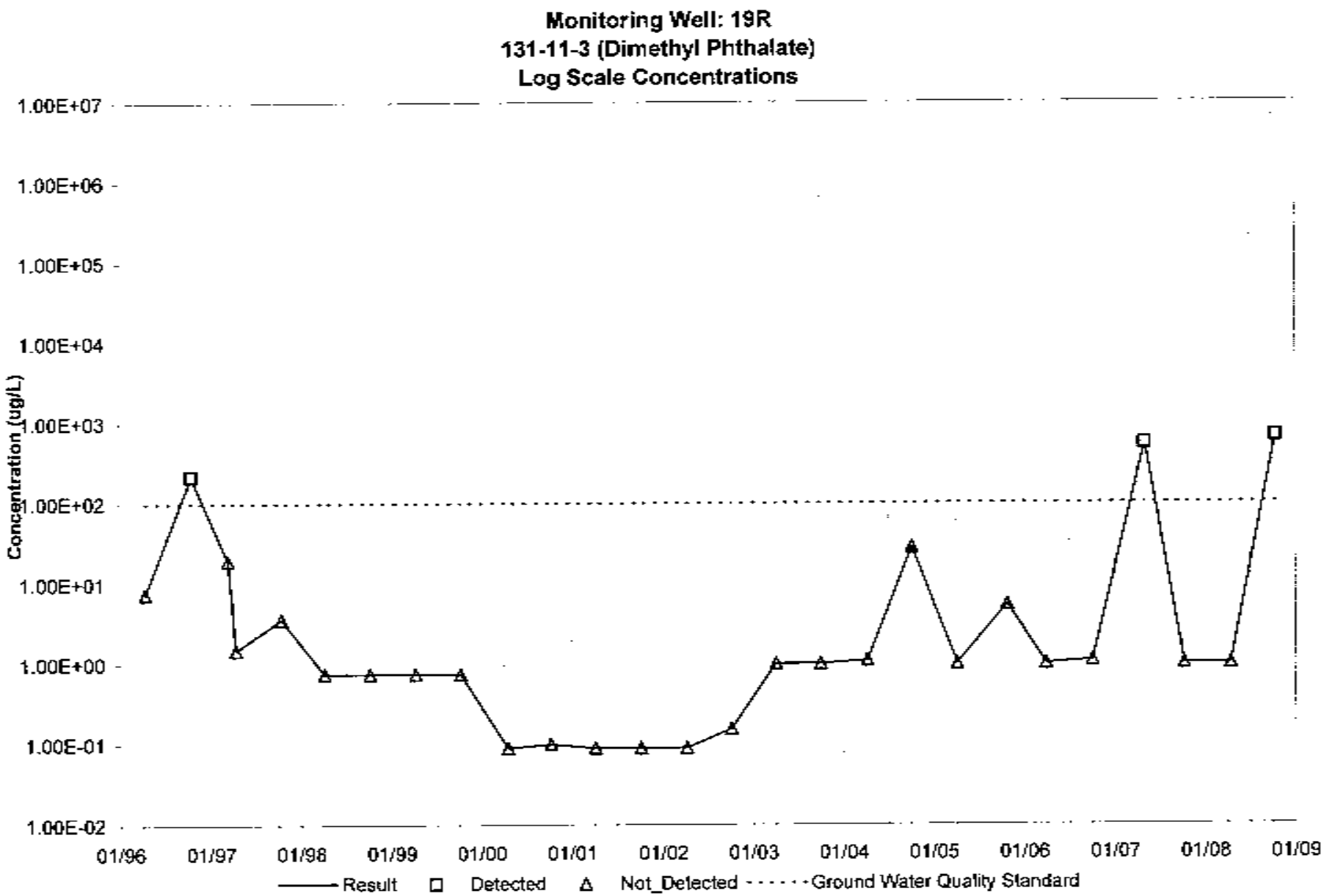

Monitoring Well: WW P1
127-18-4 (Tetrachloroethene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

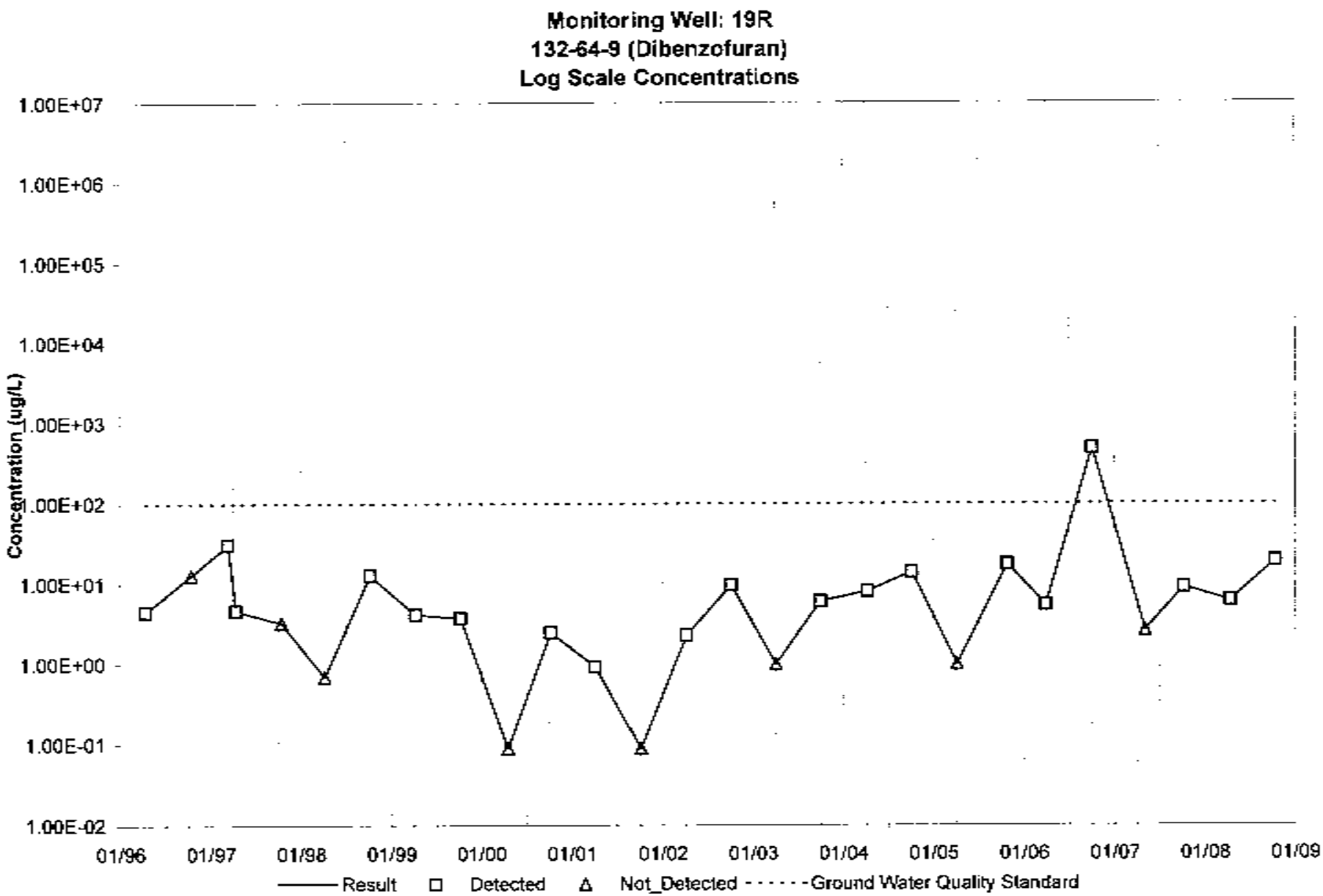

Monitoring Well: WW P3
127-18-4 (Tetrachloroethene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

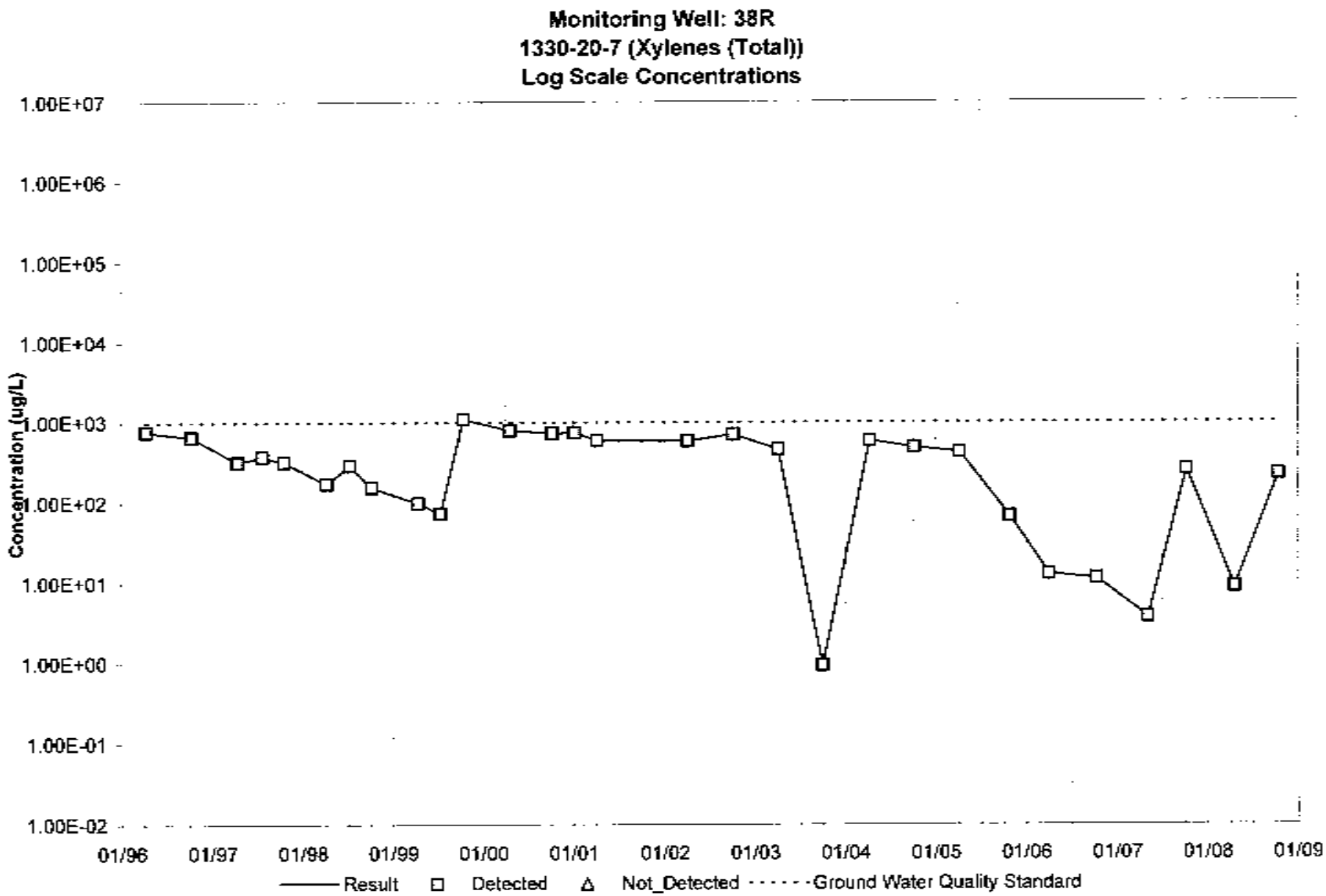
Monitoring Well: YY P2
127-18-4 (Tetrachloroethene)
Log Scale Concentrations

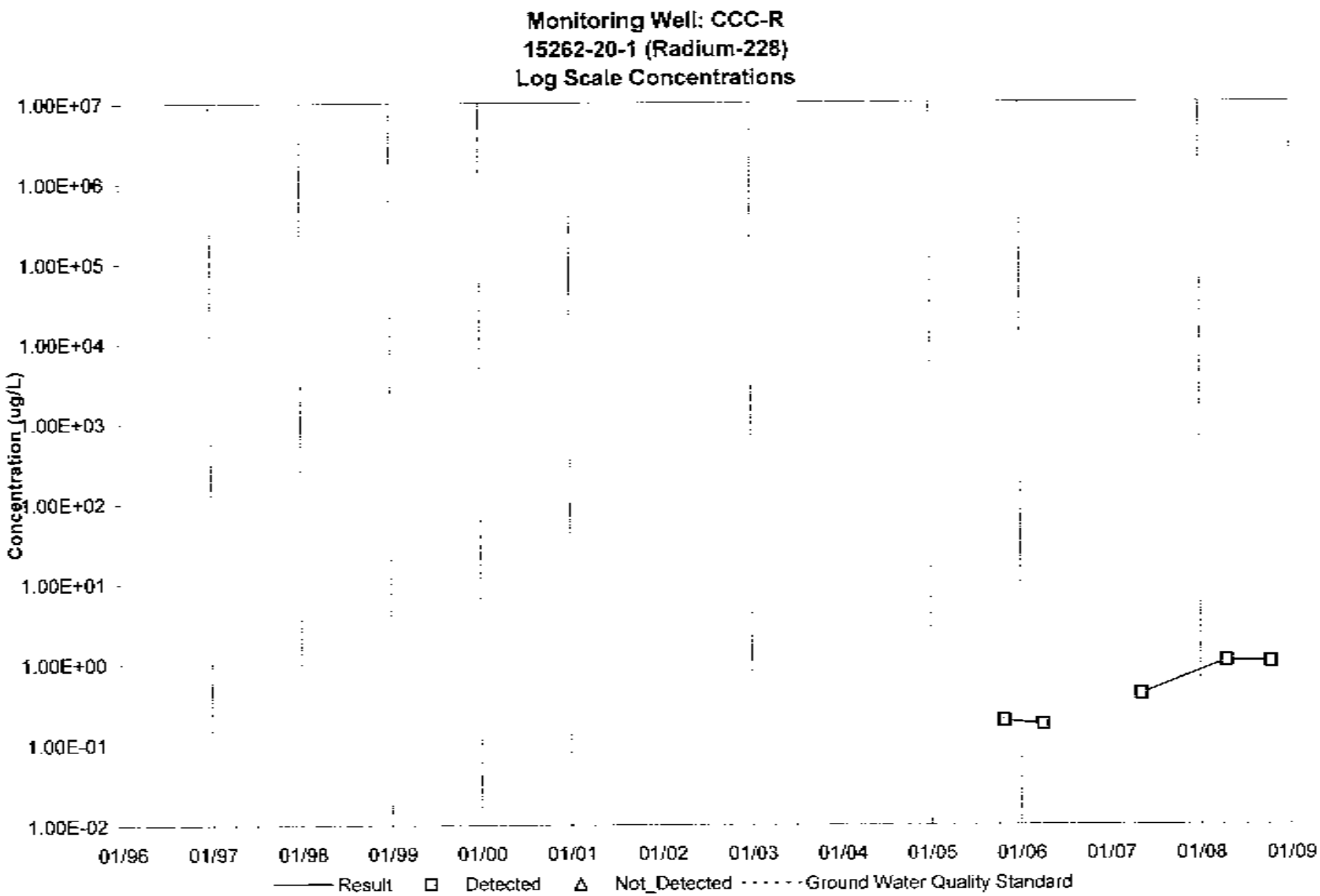



Monitoring Well: YY P3
127-18-4 (Tetrachloroethene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

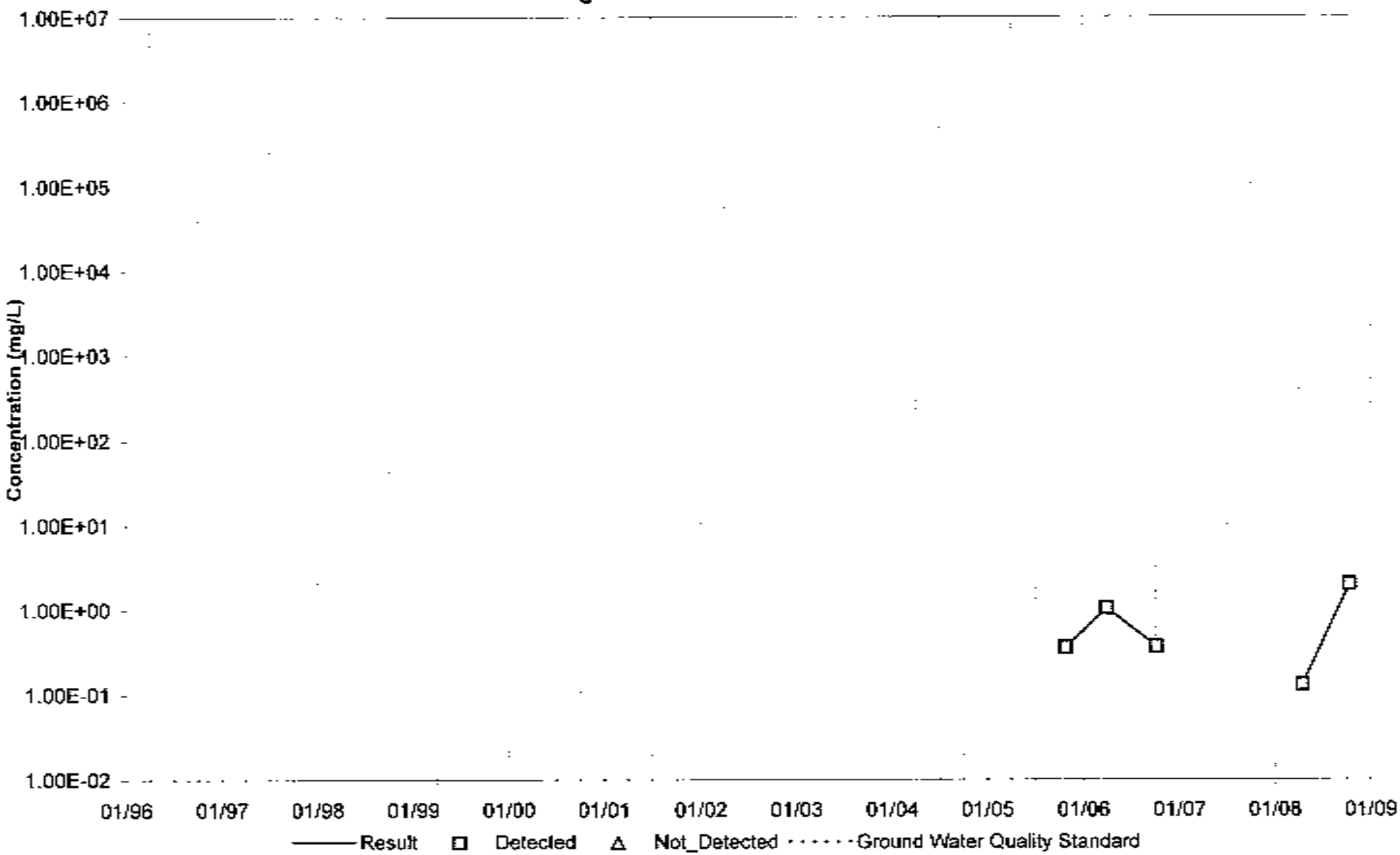

Monitoring Well: 19R
131-11-3 (Dimethyl Phthalate)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

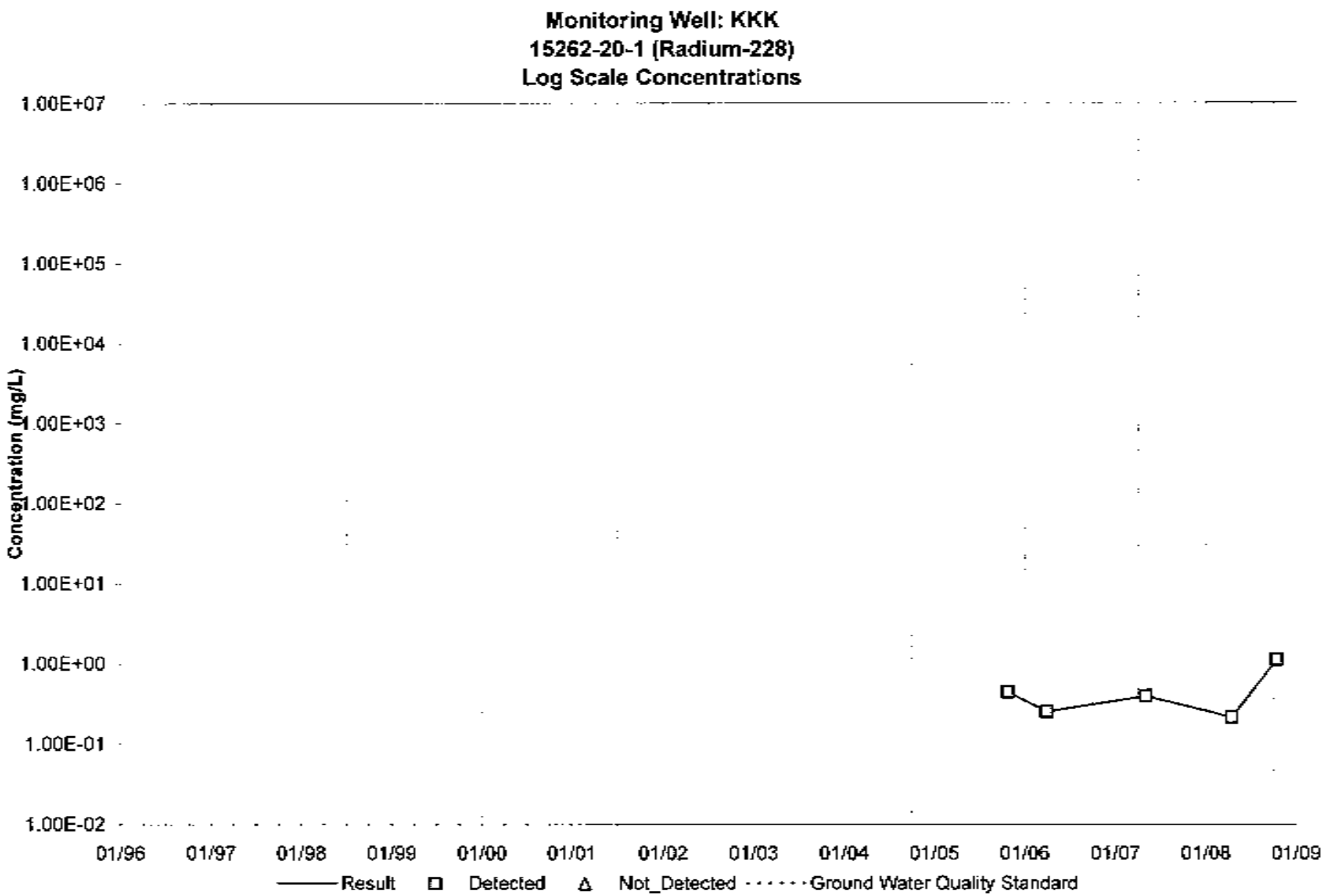

Monitoring Well: 19R
132-64-9 (Dibenzofuran)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

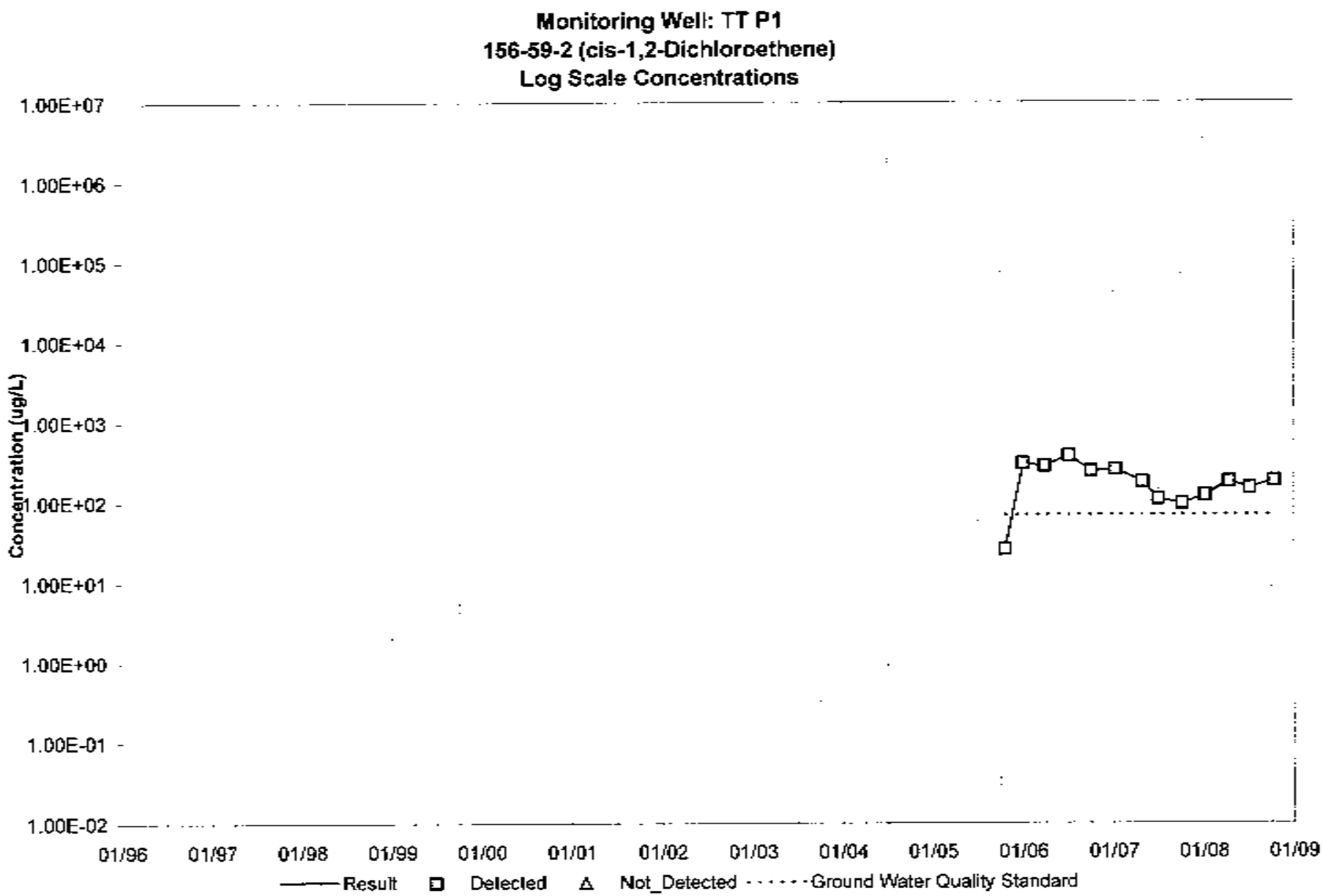

Monitoring Well: 38R
1330-20-7 (Xylenes (Total))
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

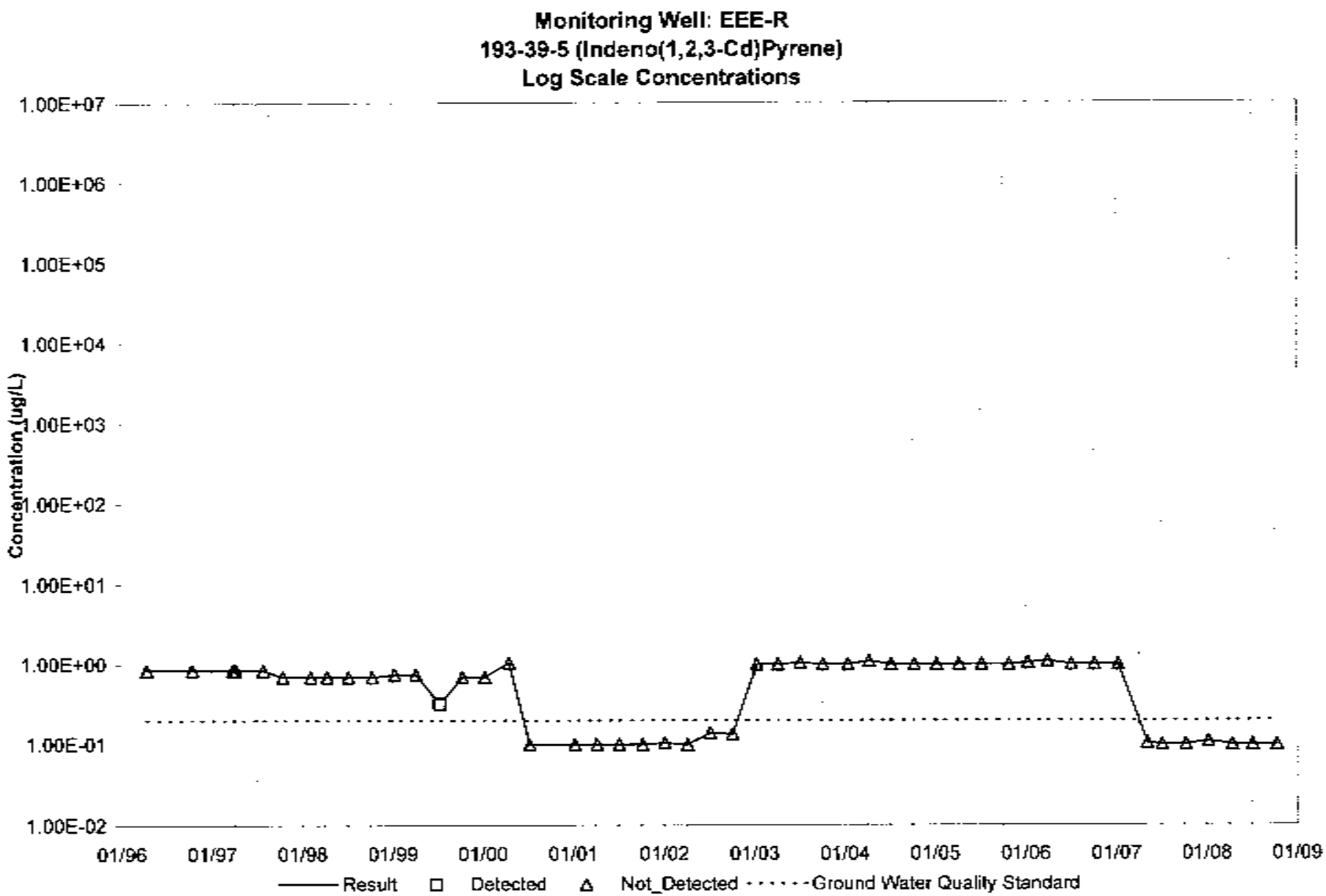

Monitoring Well: CCC-R
15262-20-1 (Radium-228)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

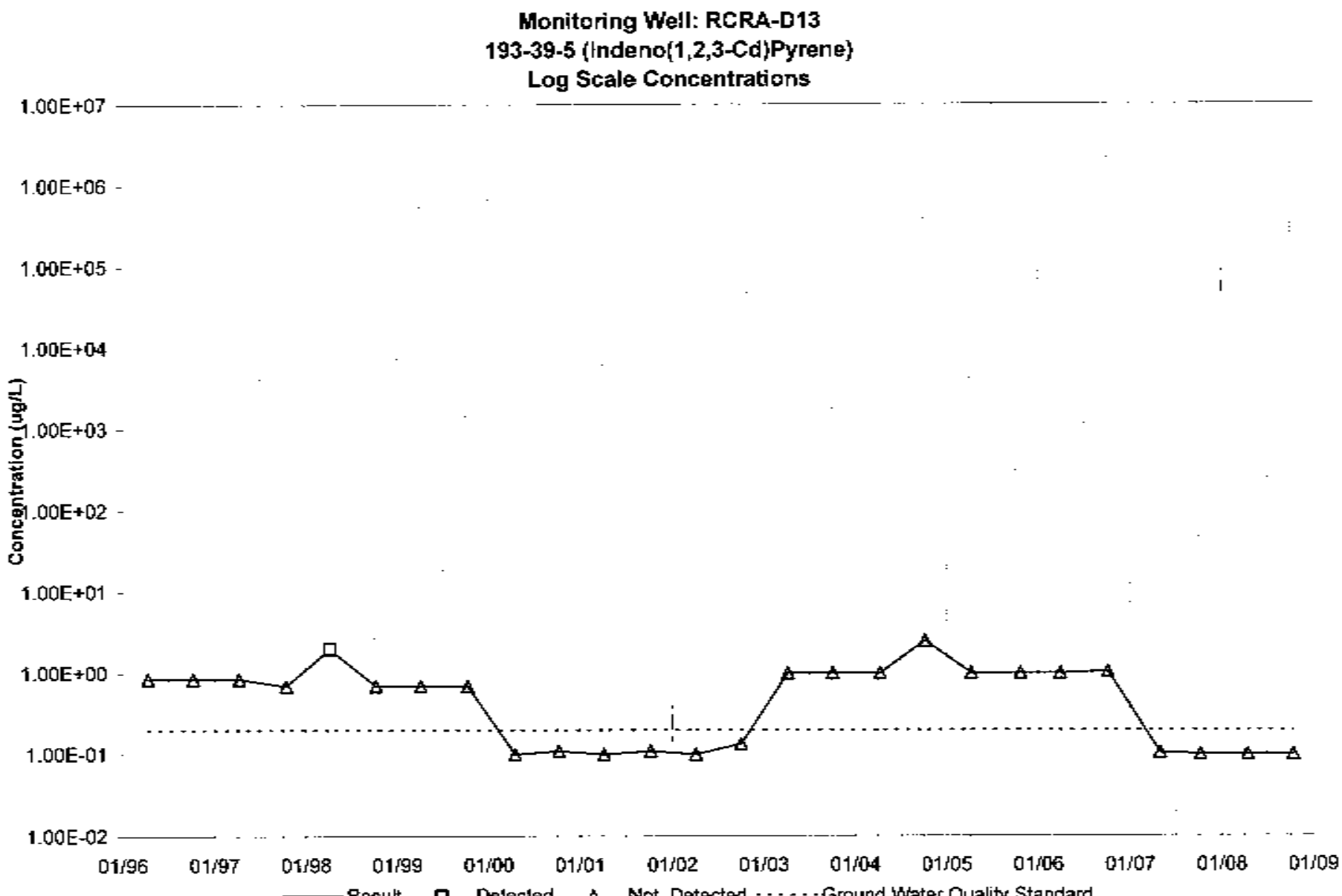
Monitoring Well: EEE-R
15262-20-1 (Radium-228)
Log Scale Concentrations

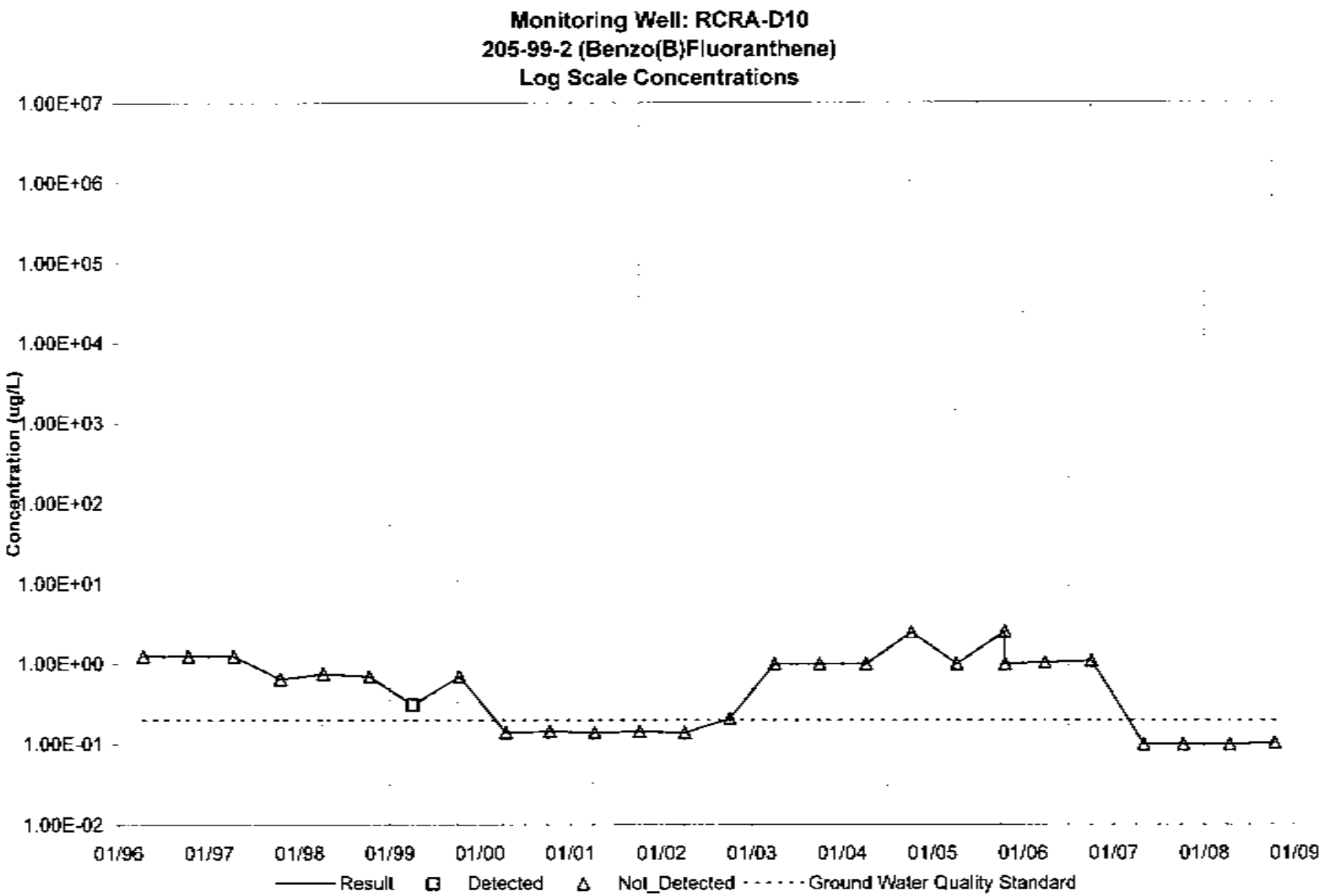


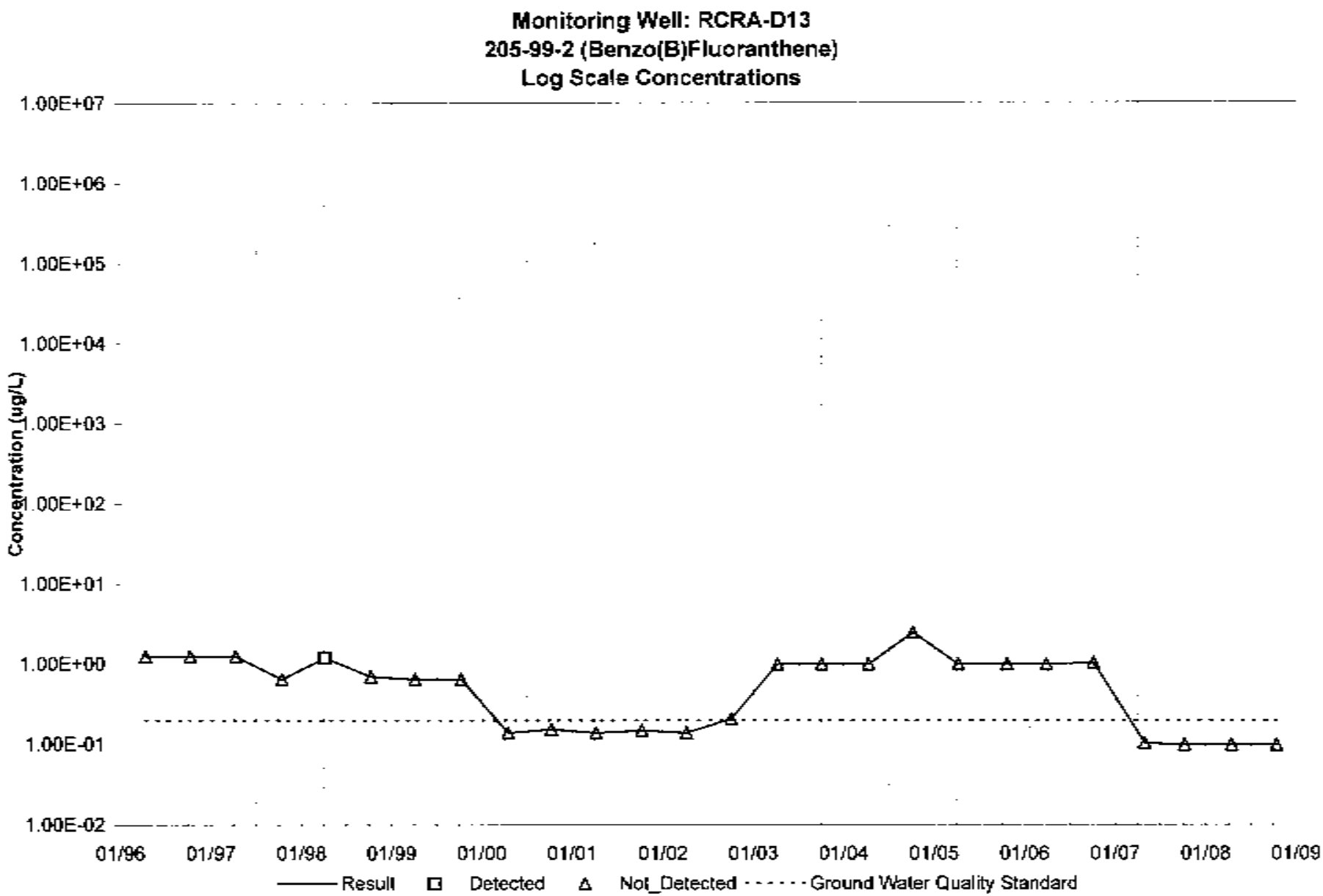

Monitoring Well: KKK
15262-20-1 (Radium-228)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

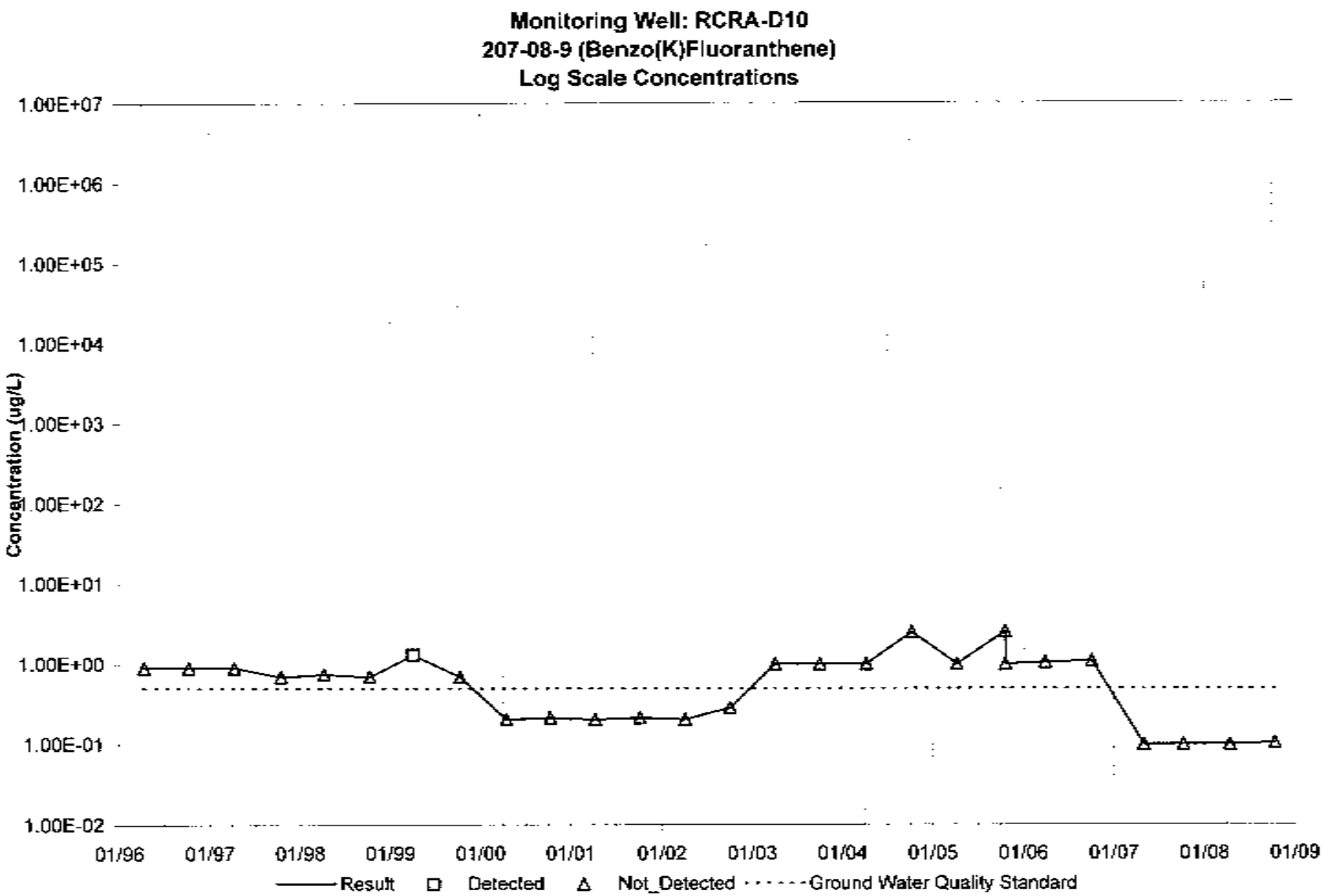

Monitoring Well: TT P1
156-59-2 (cis-1,2-Dichloroethene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

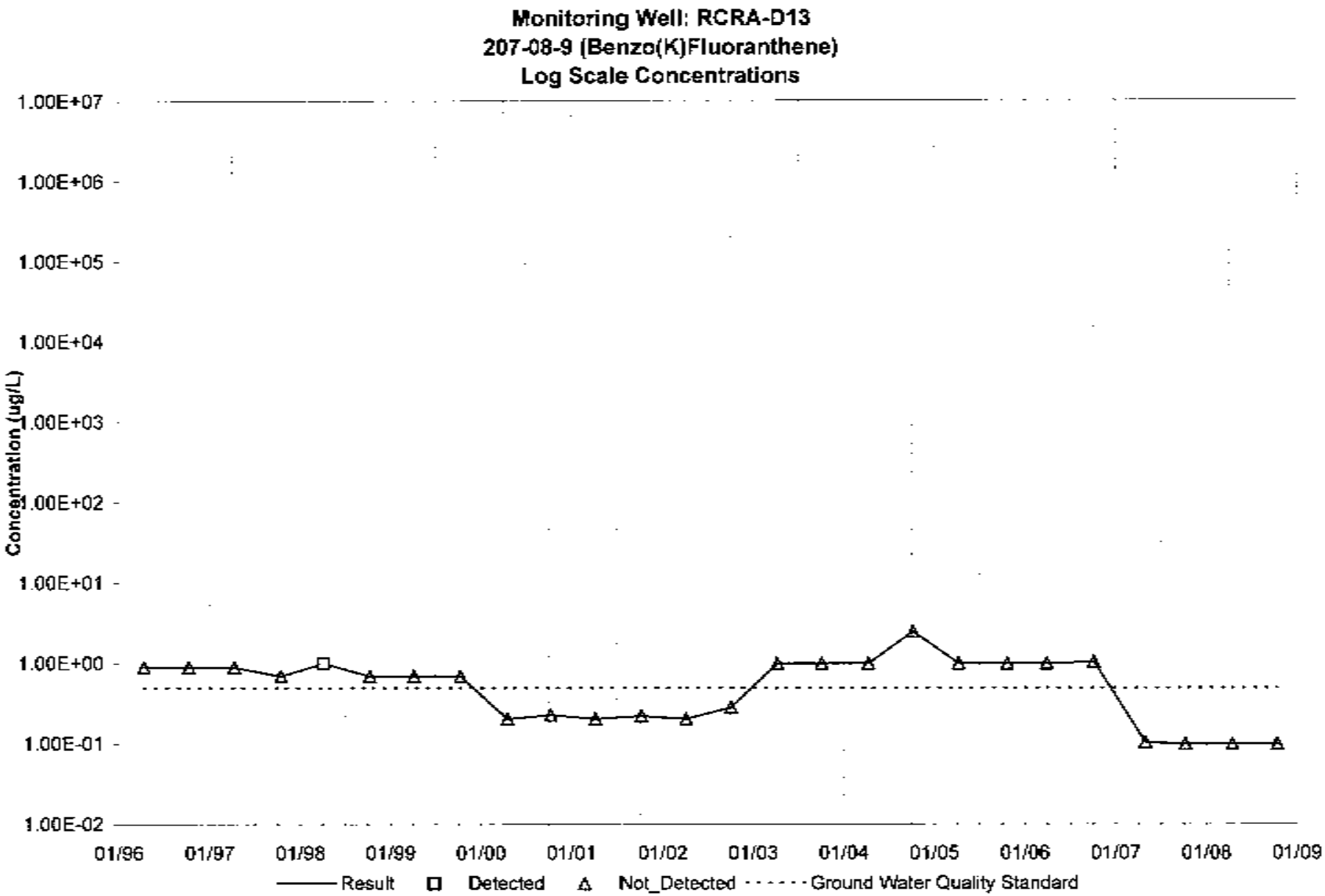

Monitoring Well: EEE-R
193-39-5 (Indeno(1,2,3-Cd)Pyrene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

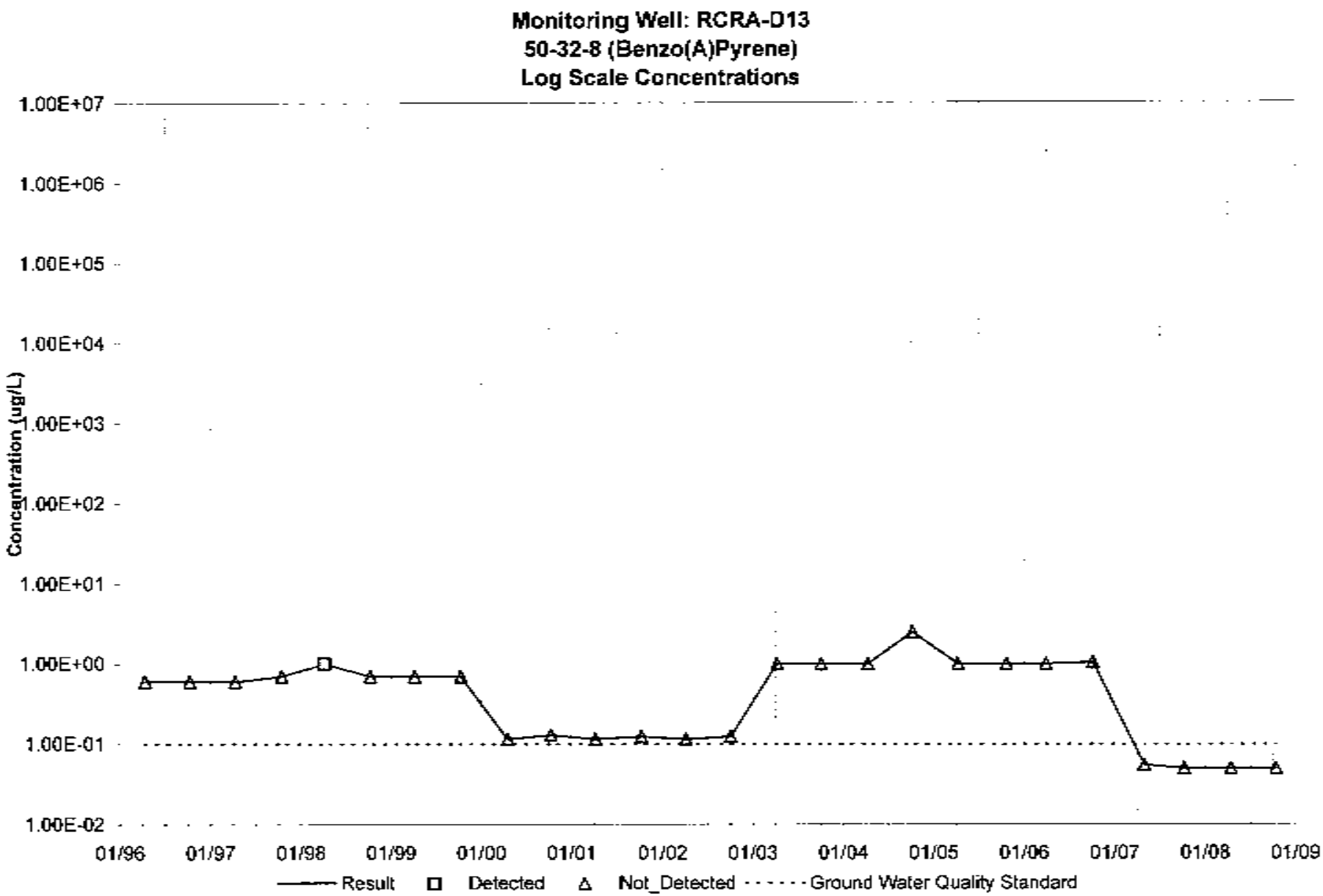

Monitoring Well: RCRA-D13
193-39-5 (Indeno(1,2,3-Cd)Pyrene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

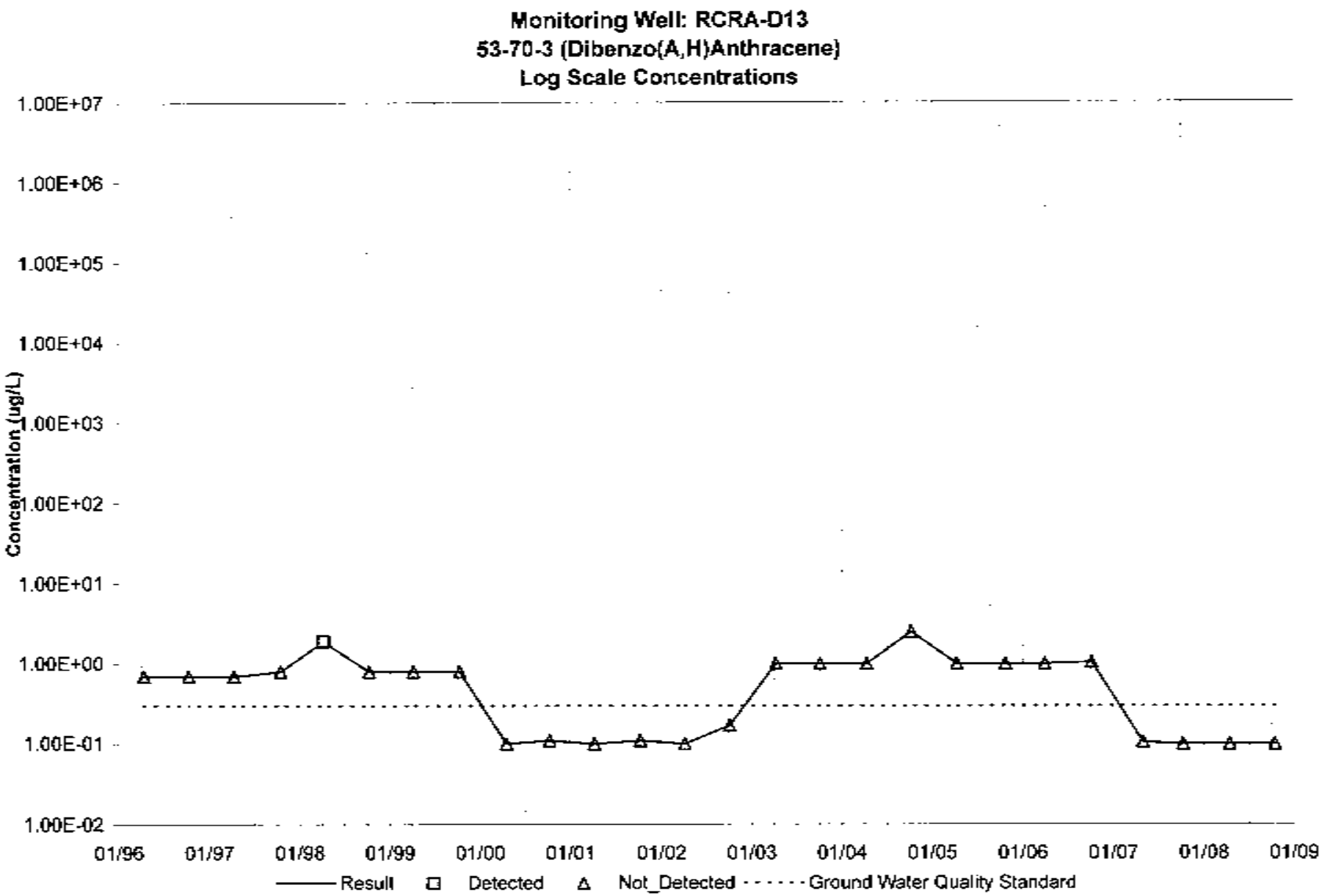

Monitoring Well: RCRA-D10
205-99-2 (Benzo(B)Fluoranthene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

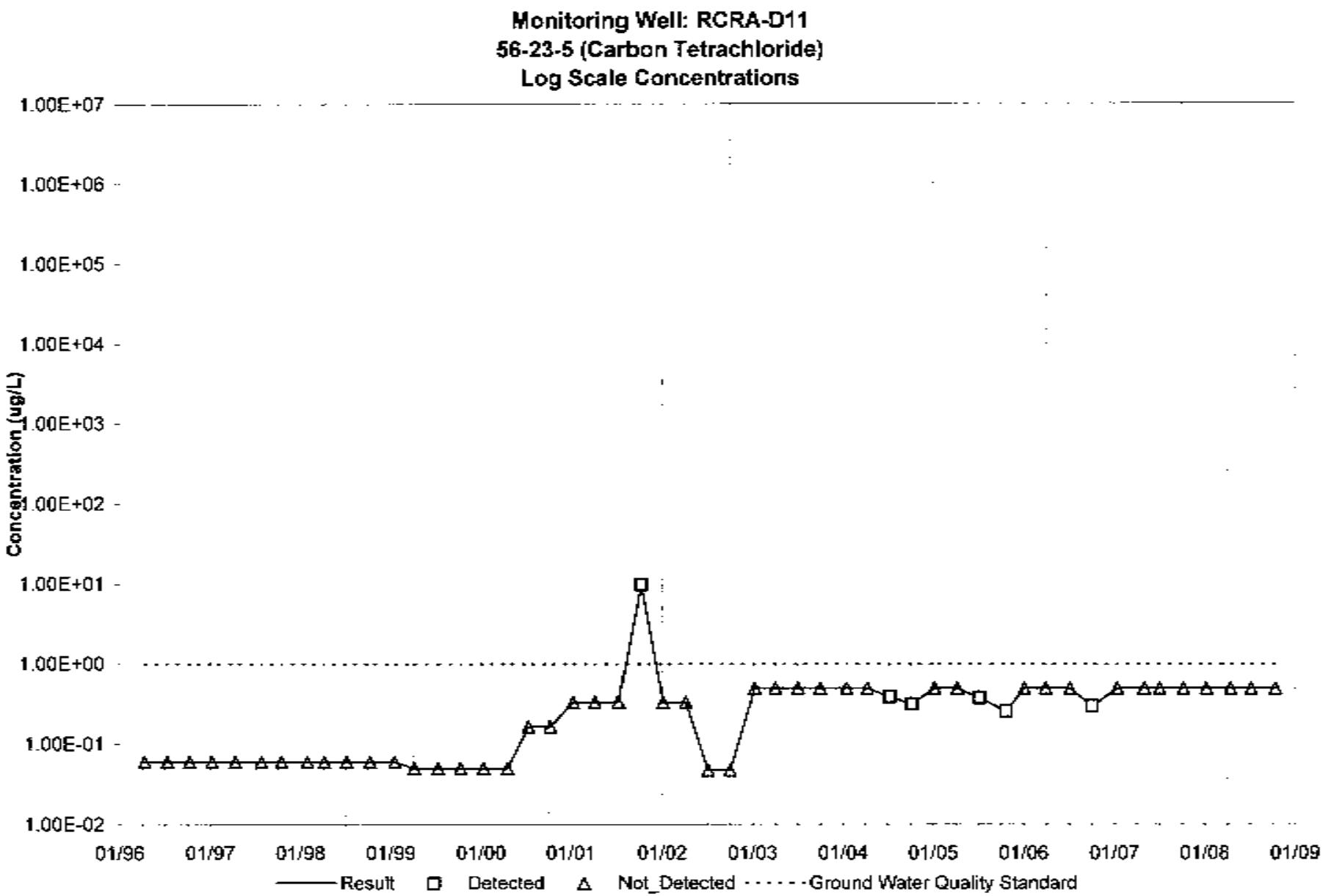

Monitoring Well: RCRA-D13
205-99-2 (Benzo(B)Fluoranthene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

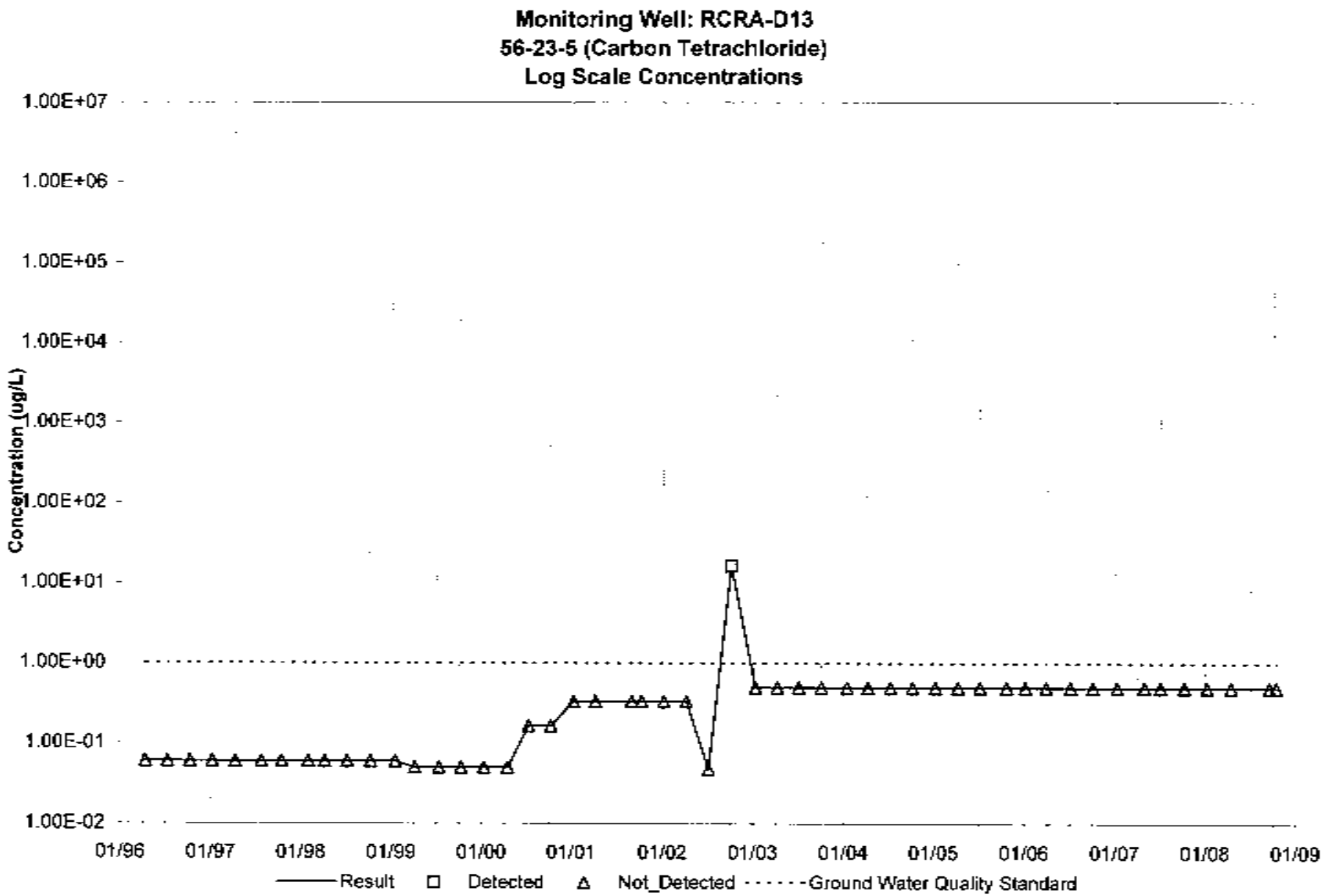

Monitoring Well: RCRA-D10
207-08-9 (Benzo(K)Fluoranthene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

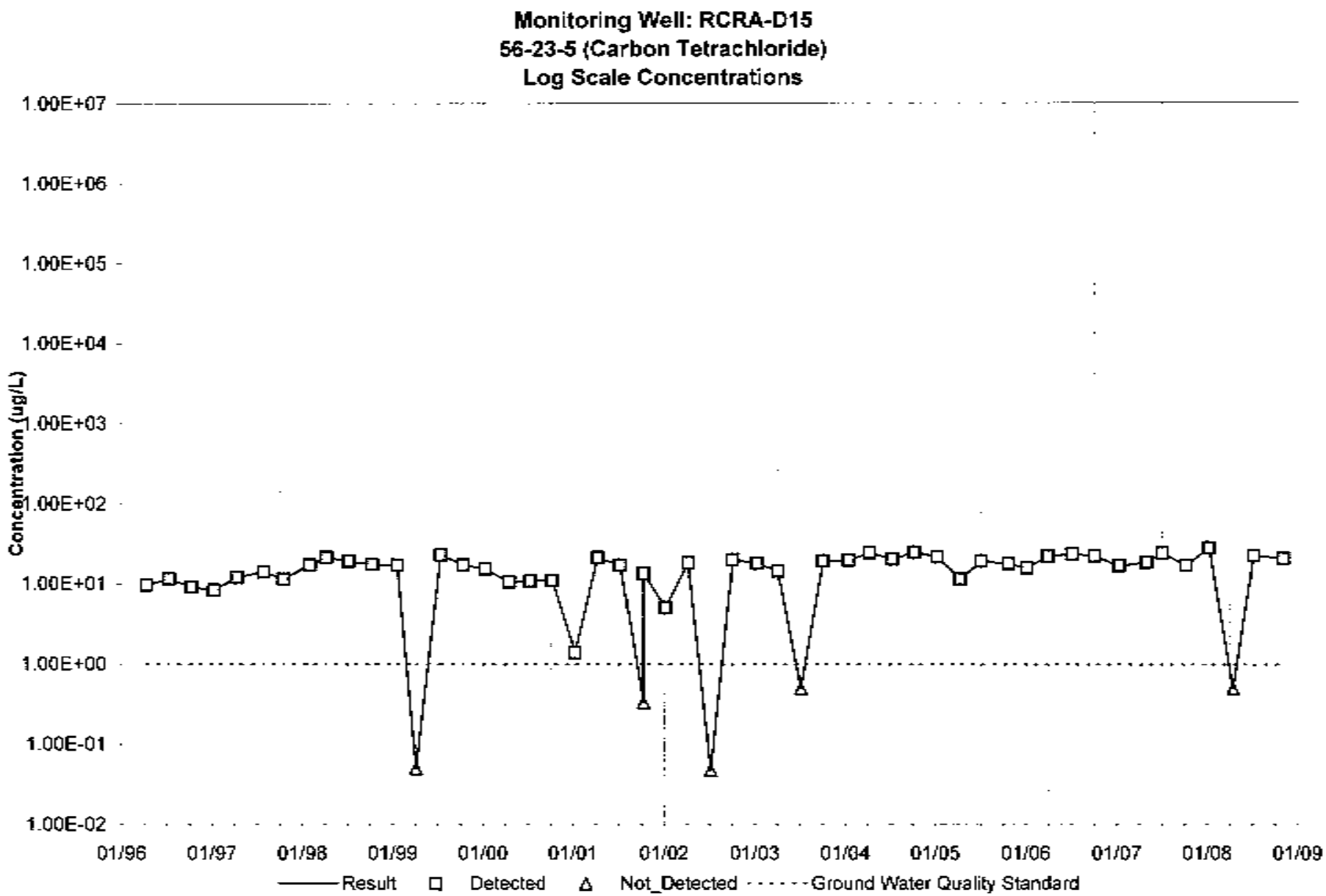

Monitoring Well: RCRA-D13
207-08-9 (Benzo(K)Fluoranthene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

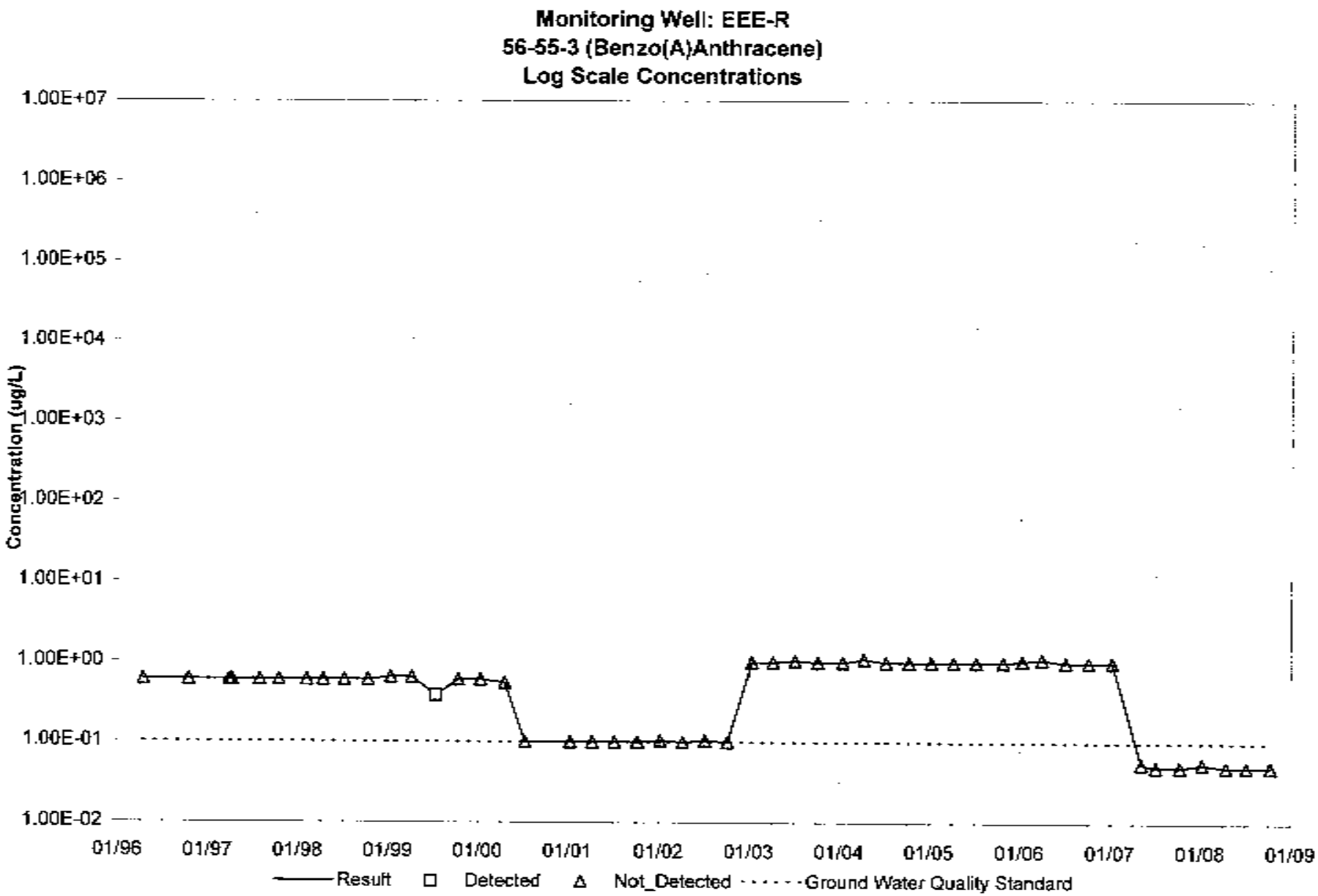

Monitoring Well: RCRA-D13
50-32-8 (Benzo(A)Pyrene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

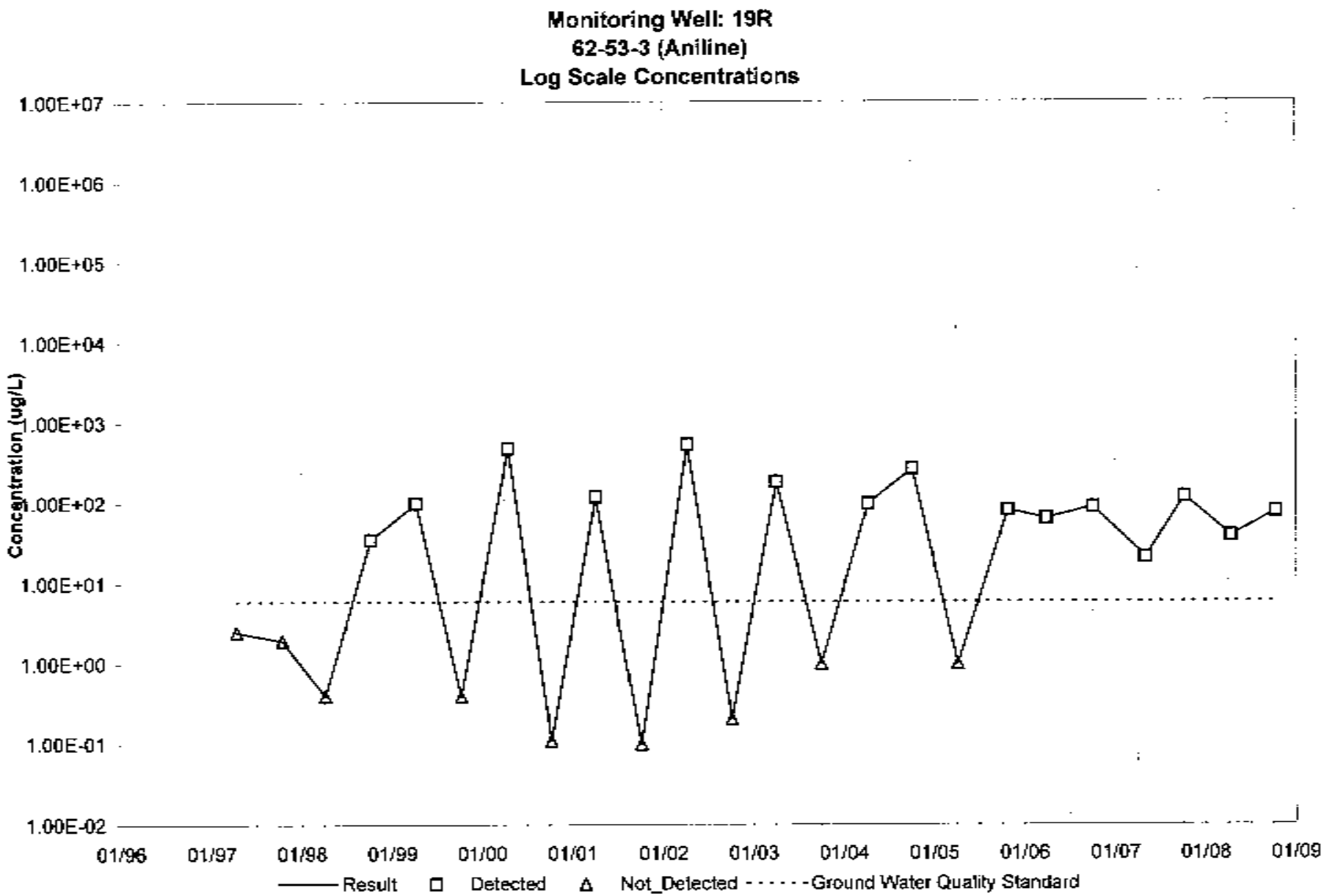

Monitoring Well: RCRA-D13
53-70-3 (Dibenzo(A,H)Anthracene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

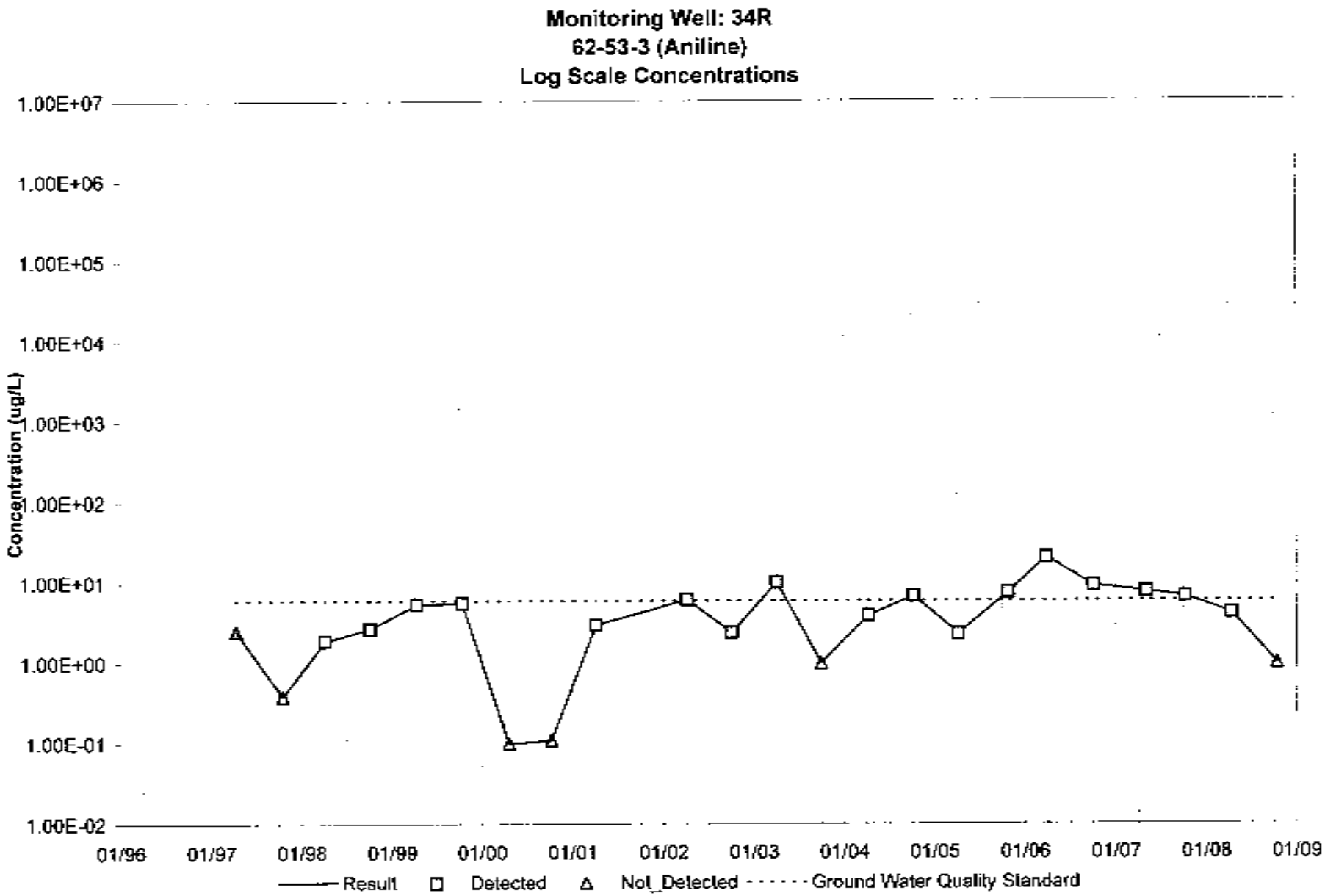

Monitoring Well: RCRA-D11
56-23-5 (Carbon Tetrachloride)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

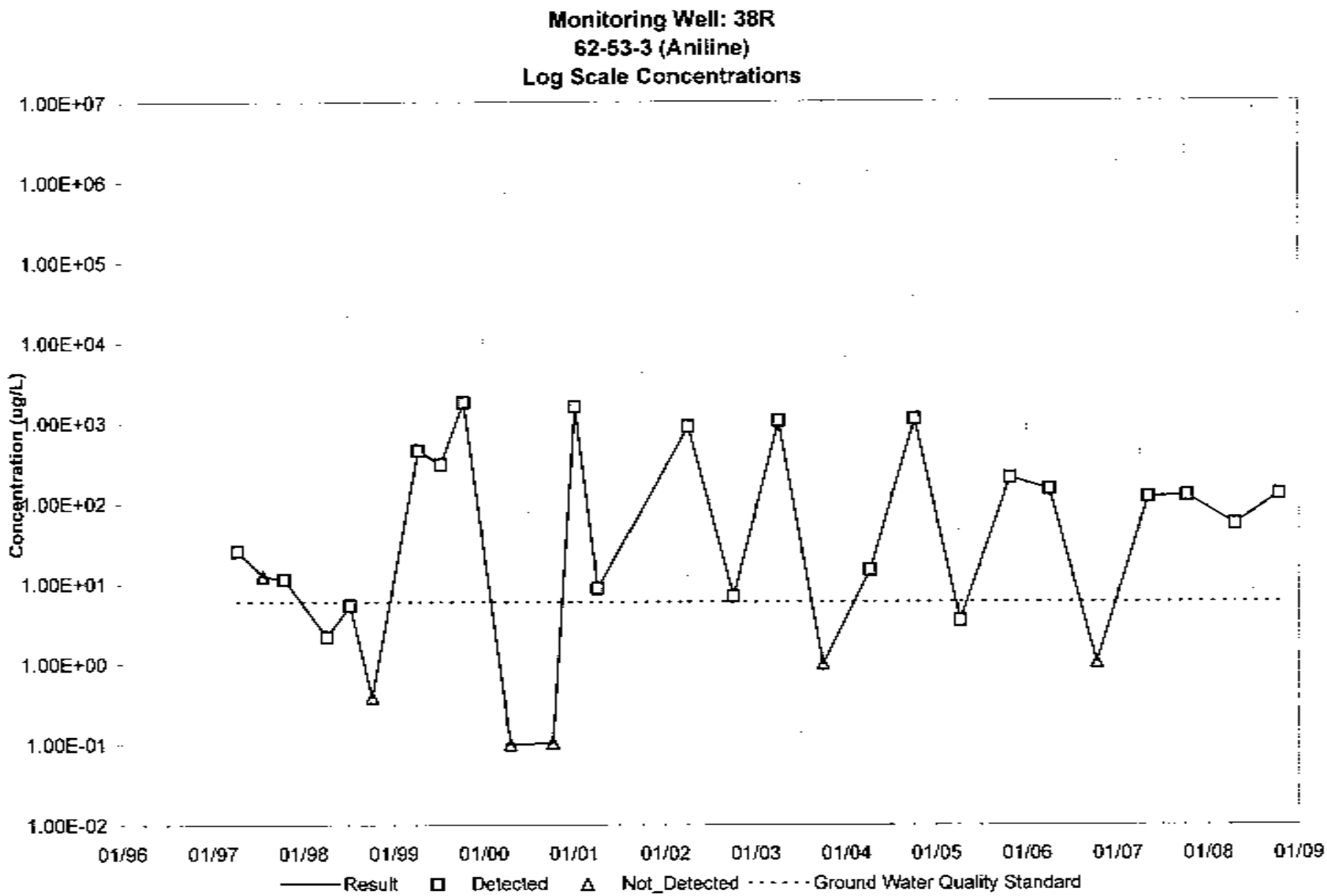

Monitoring Well: RCRA-D13
56-23-5 (Carbon Tetrachloride)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

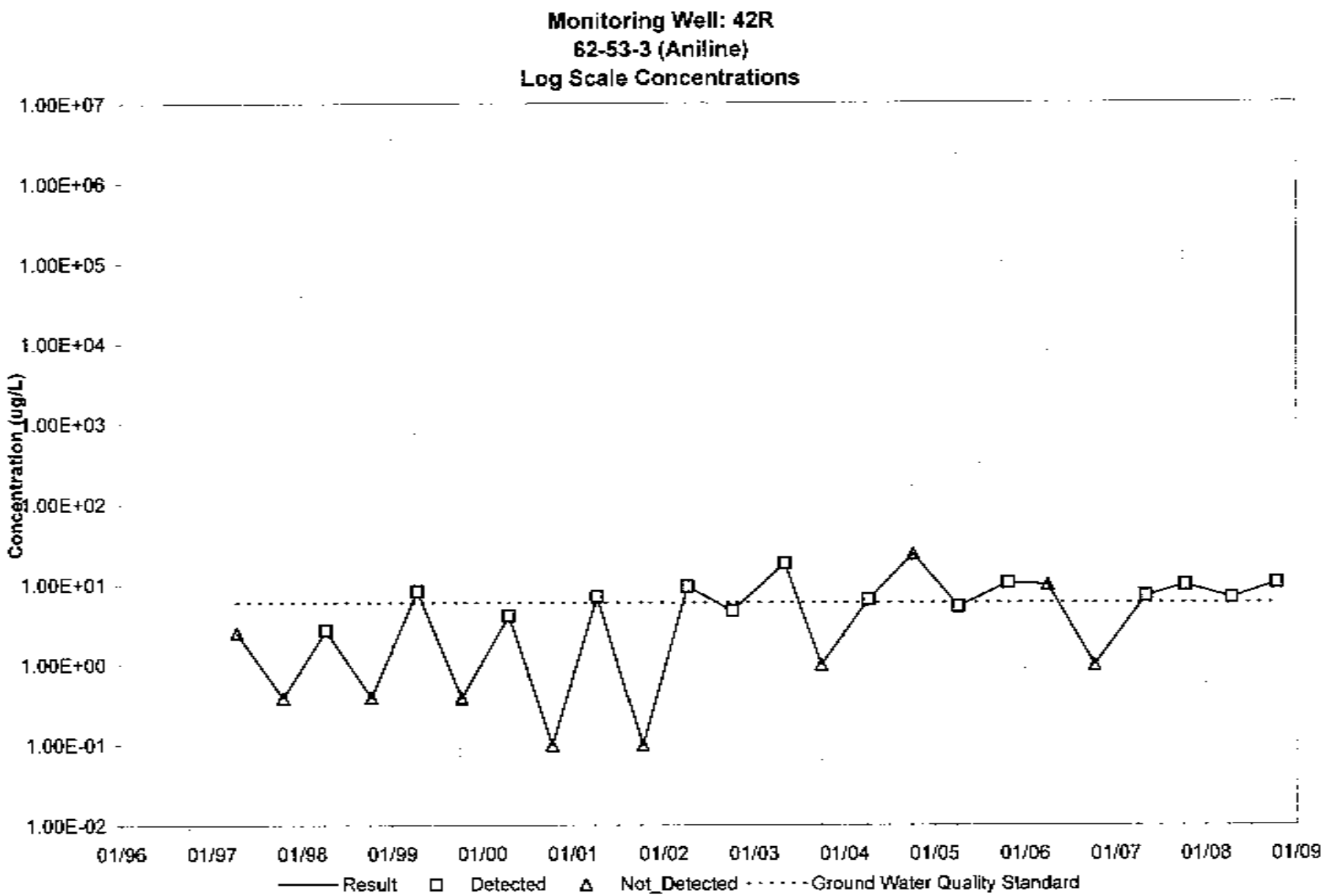

Monitoring Well: RCRA-D15
56-23-5 (Carbon Tetrachloride)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

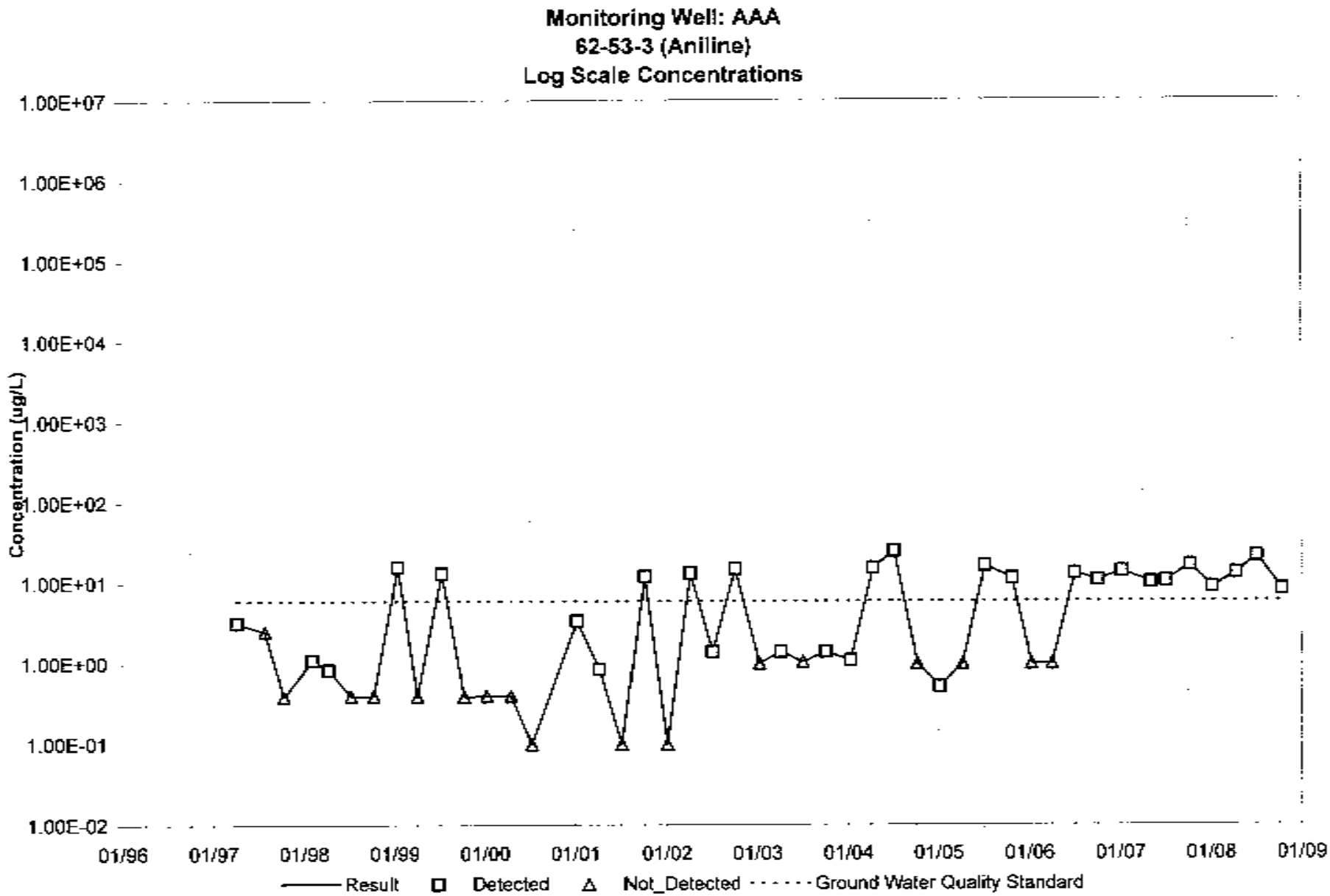

Monitoring Well: EEE-R
56-55-3 (Benzo(A)Anthracene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

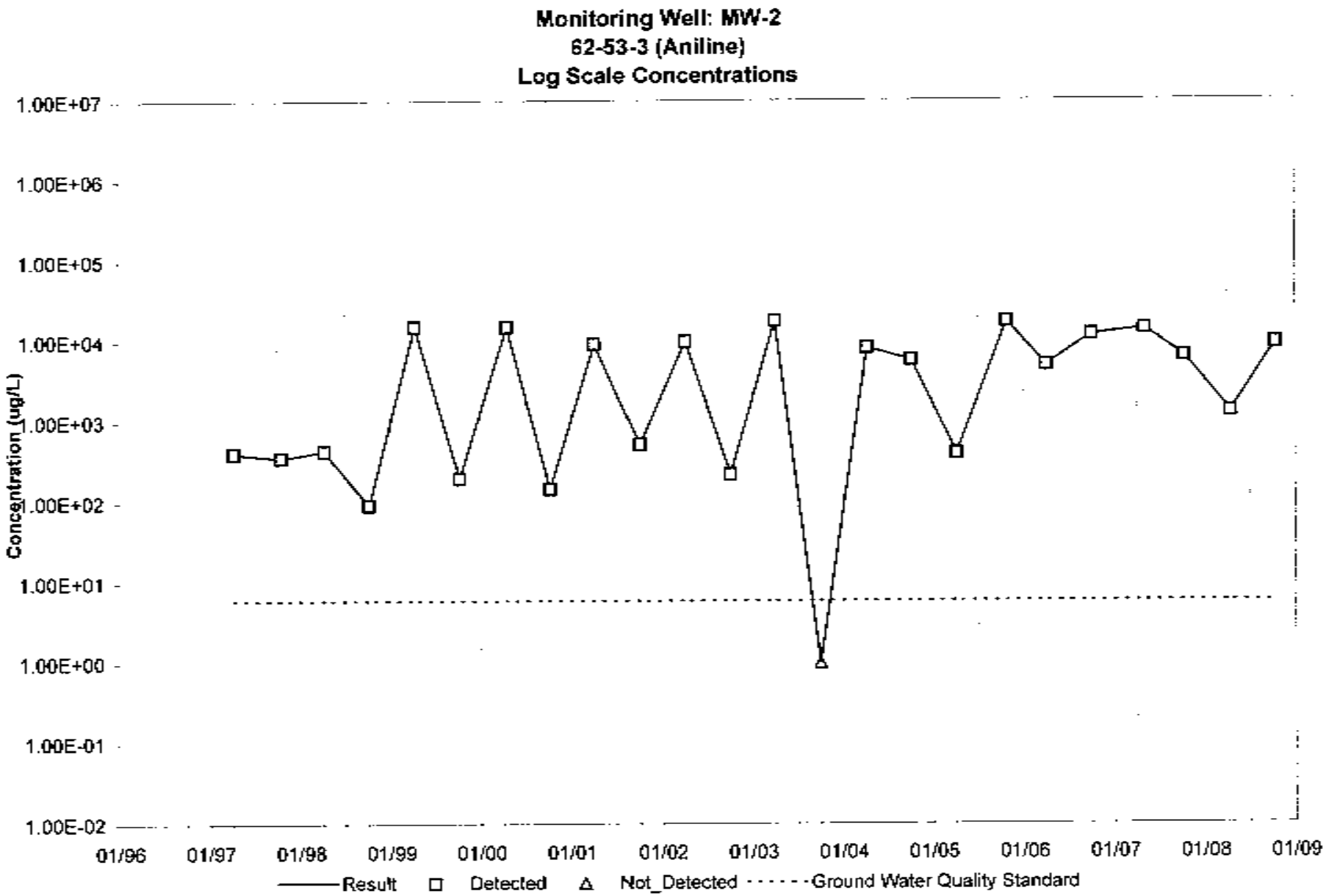

Monitoring Well: 19R
62-53-3 (Aniline)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

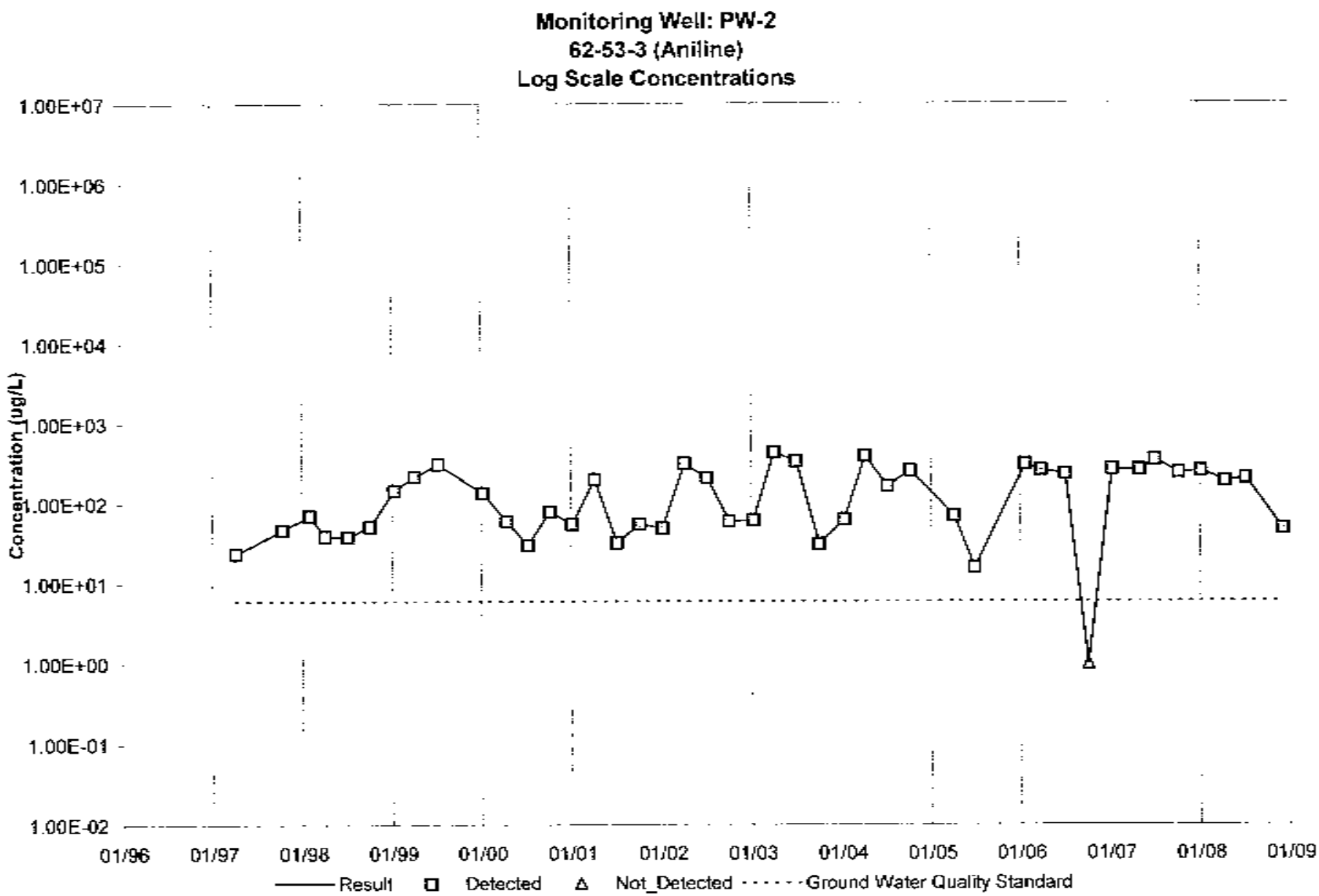

Monitoring Well: 34R
62-53-3 (Aniline)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not Detected
Ground Water Quality Standard

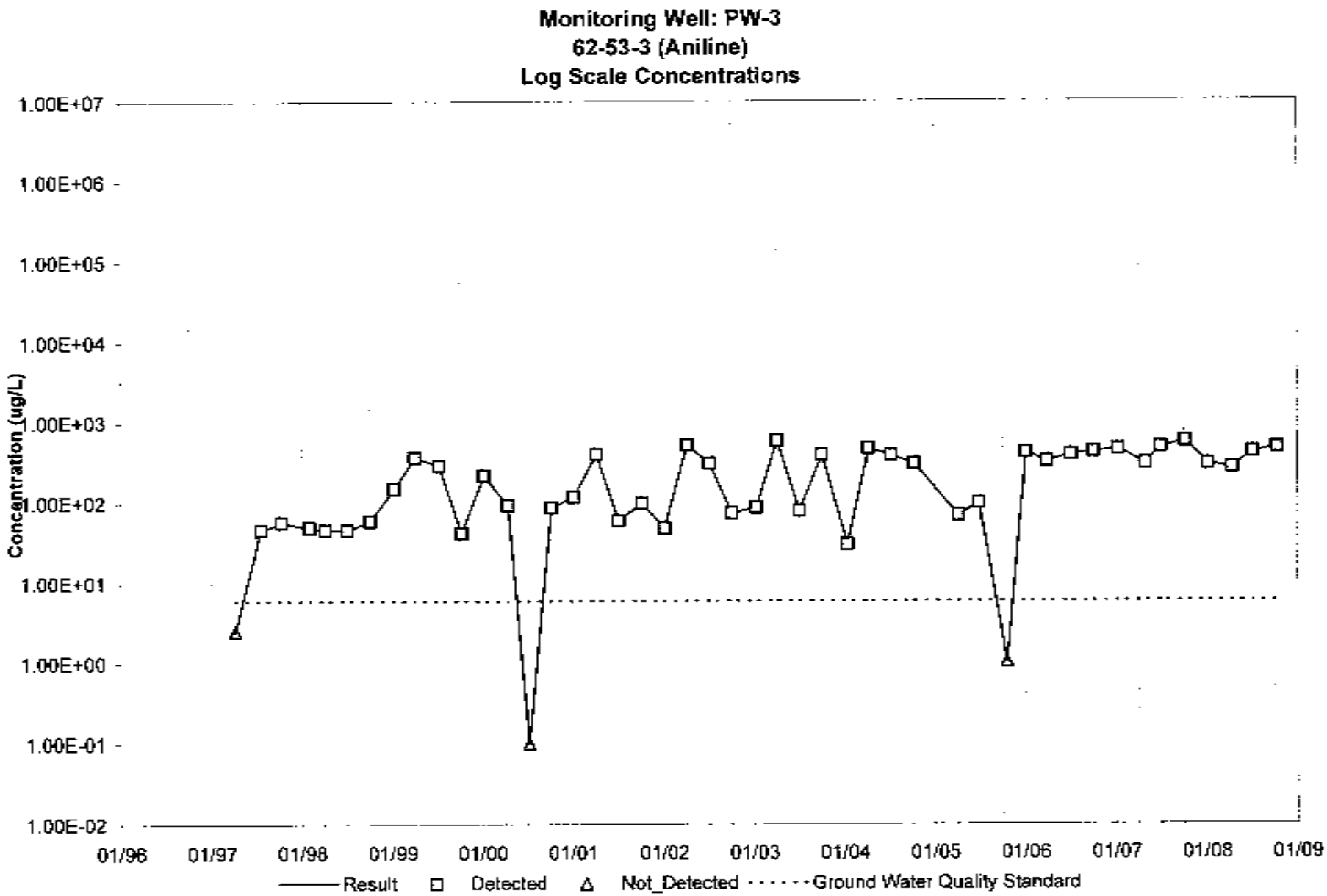

Monitoring Well: 38R
62-53-3 (Aniline)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

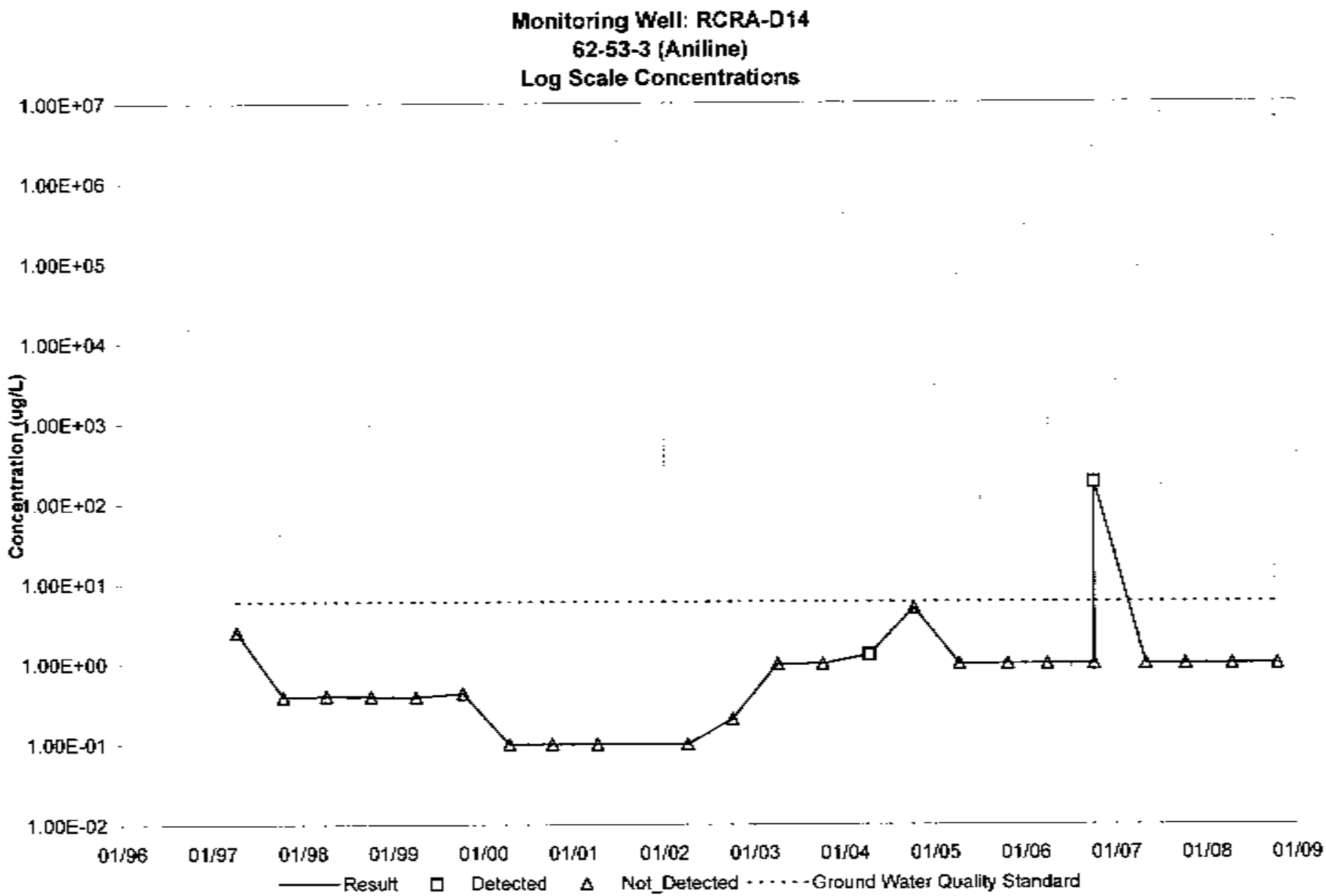

Monitoring Well: 42R
62-53-3 (Aniline)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

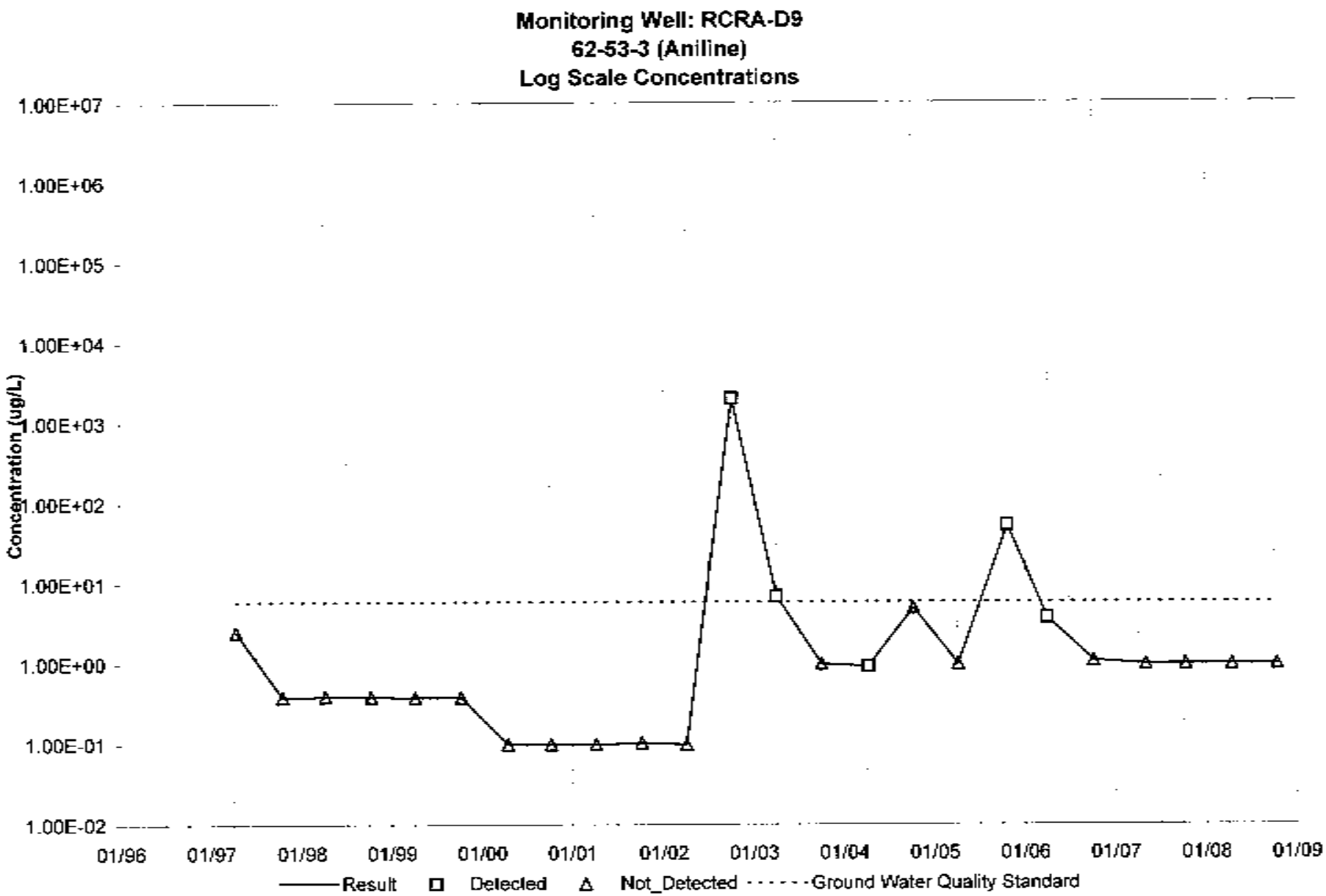

Monitoring Well: AAA
62-53-3 (Aniline)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

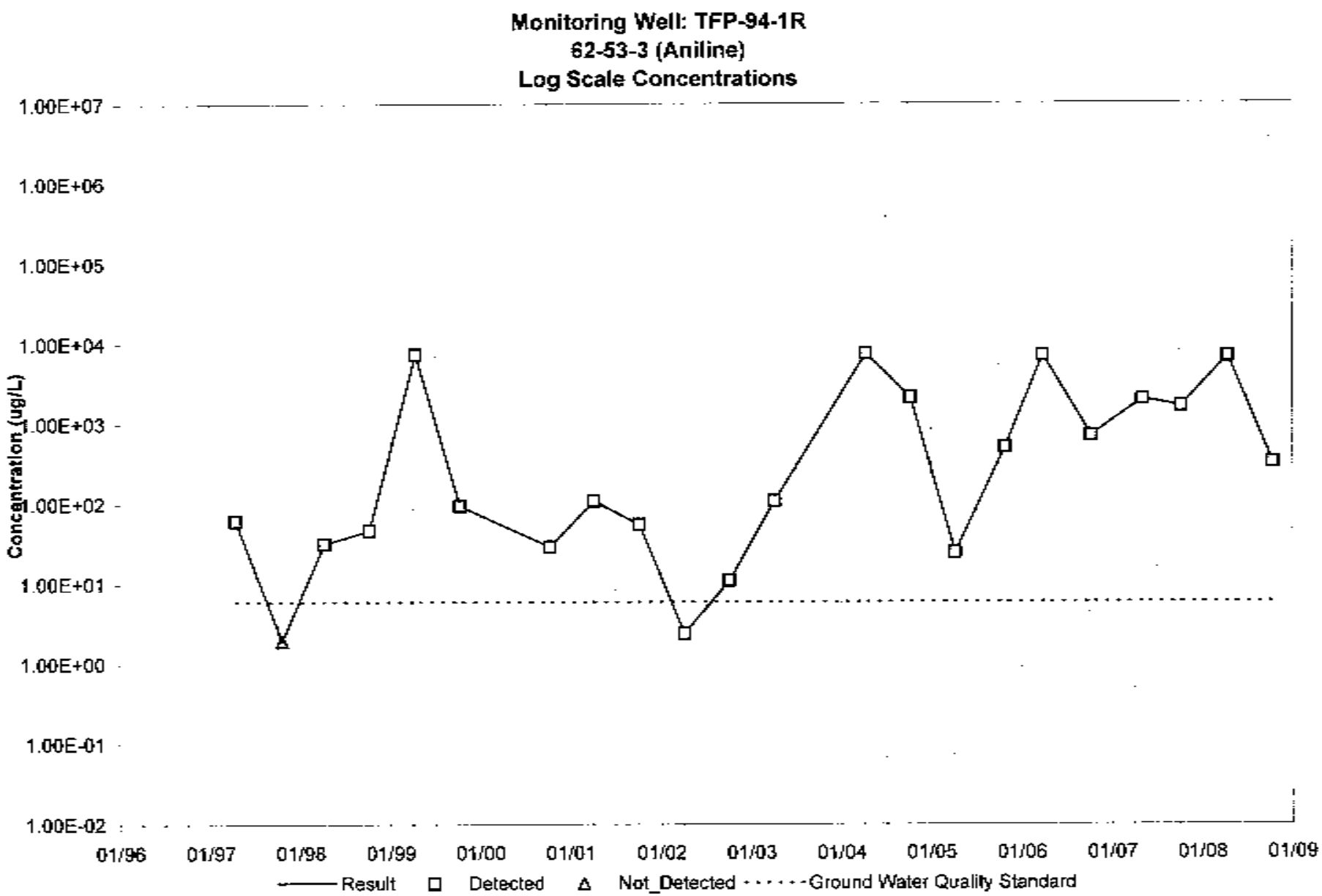

Monitoring Well: MW-2
62-53-3 (Aniline)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

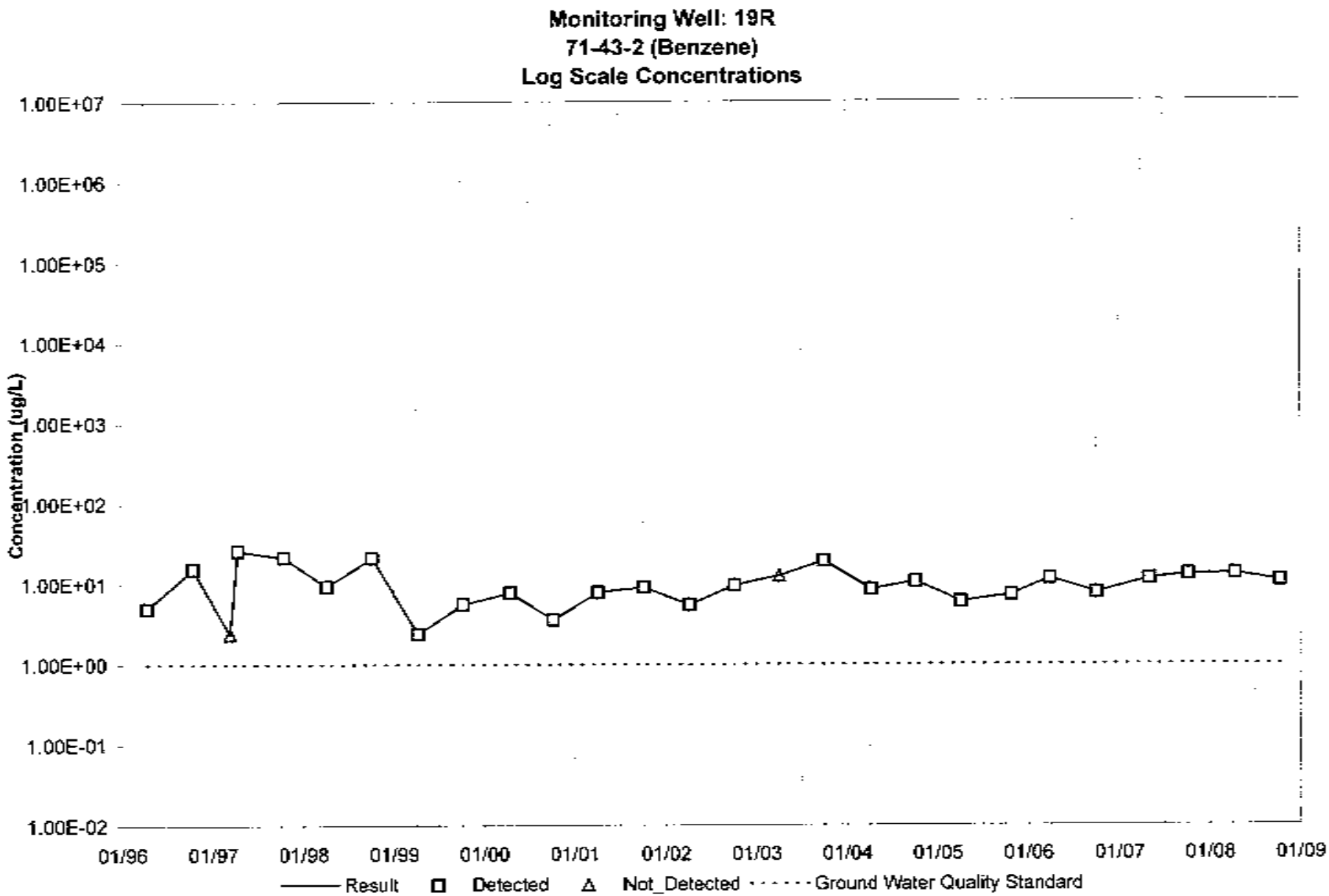

Monitoring Well: PW-2
62-53-3 (Aniline)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

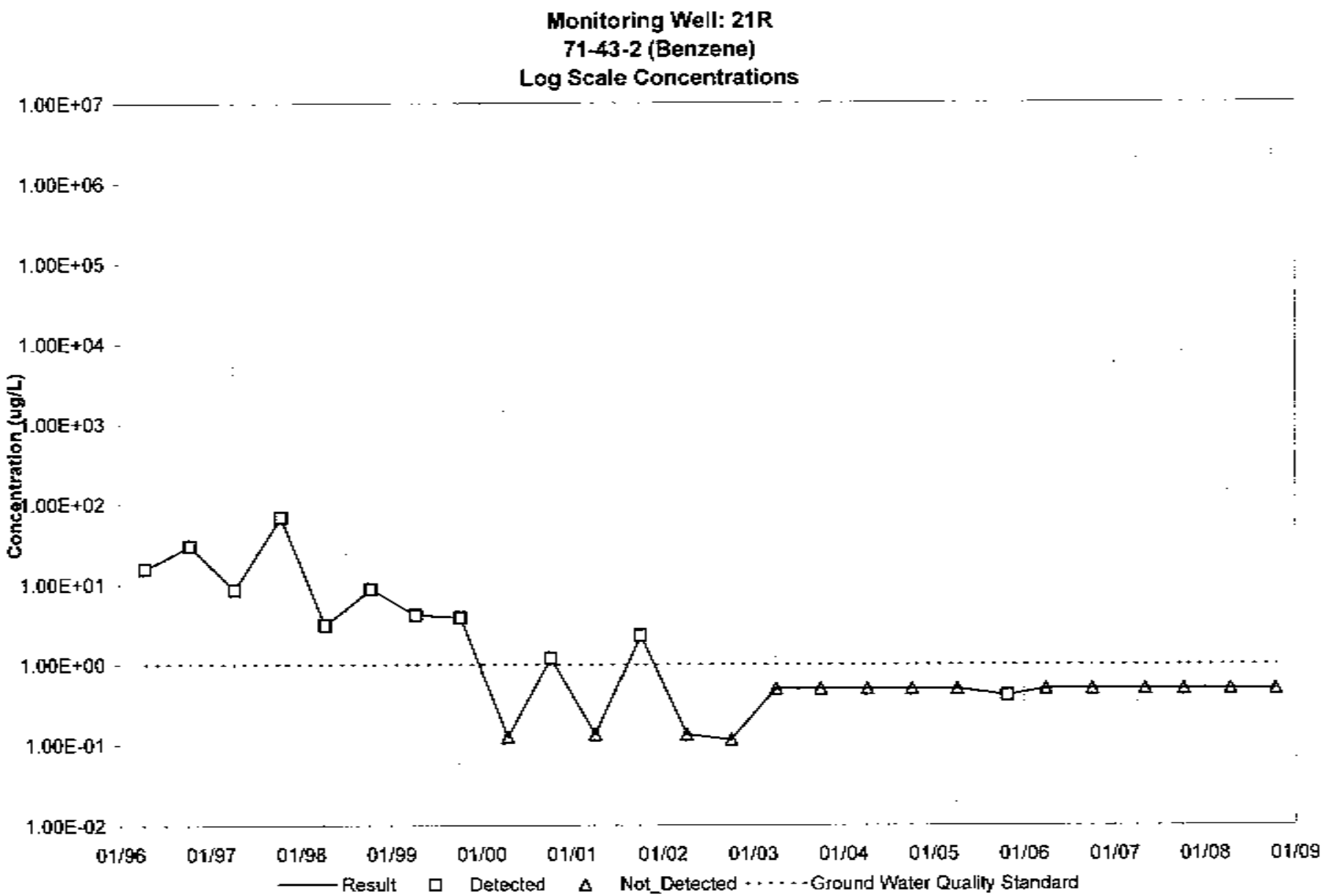

Monitoring Well: PW-3
62-53-3 (Aniline)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

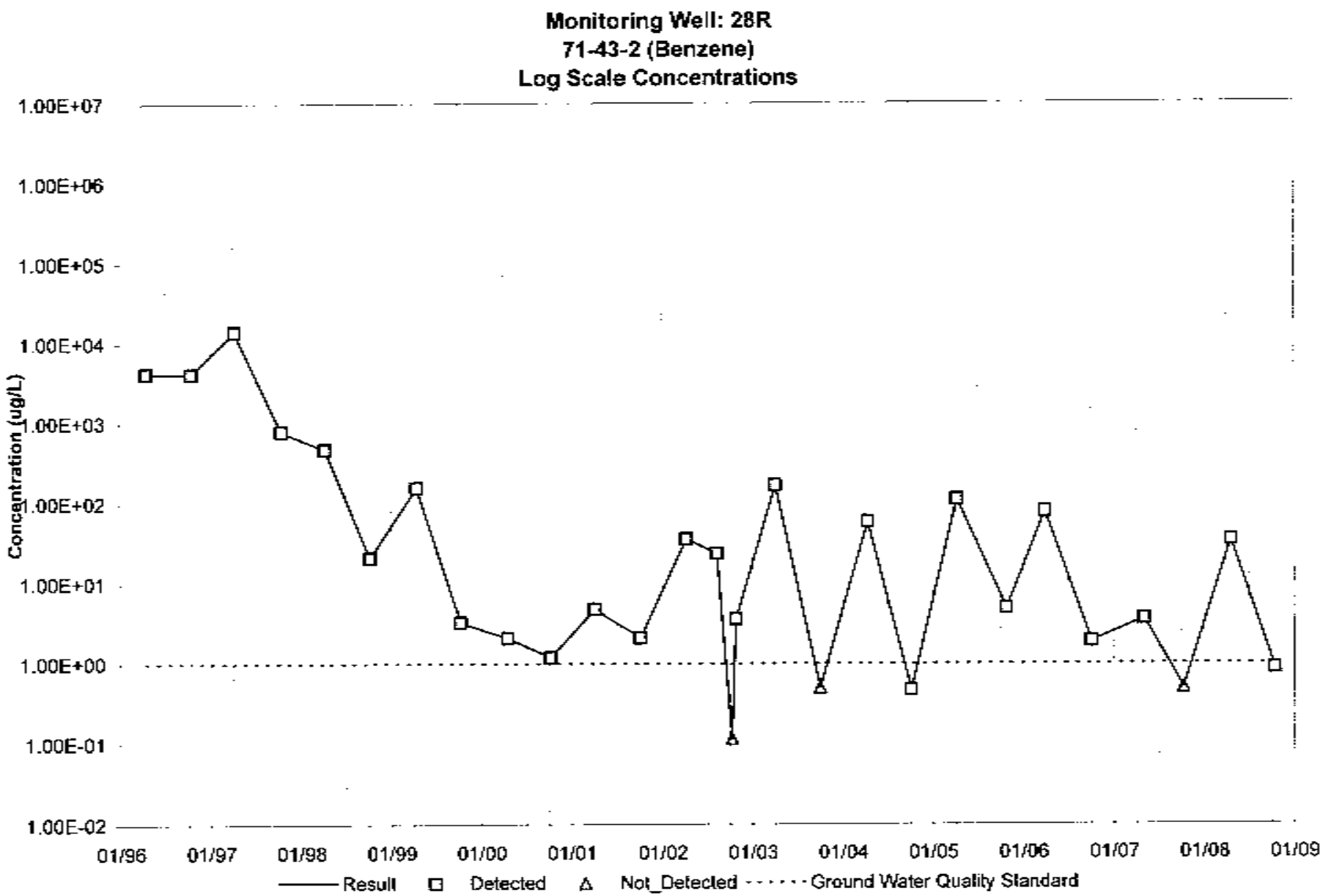

Monitoring Well: RCRA-D14
62-53-3 (Aniline)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

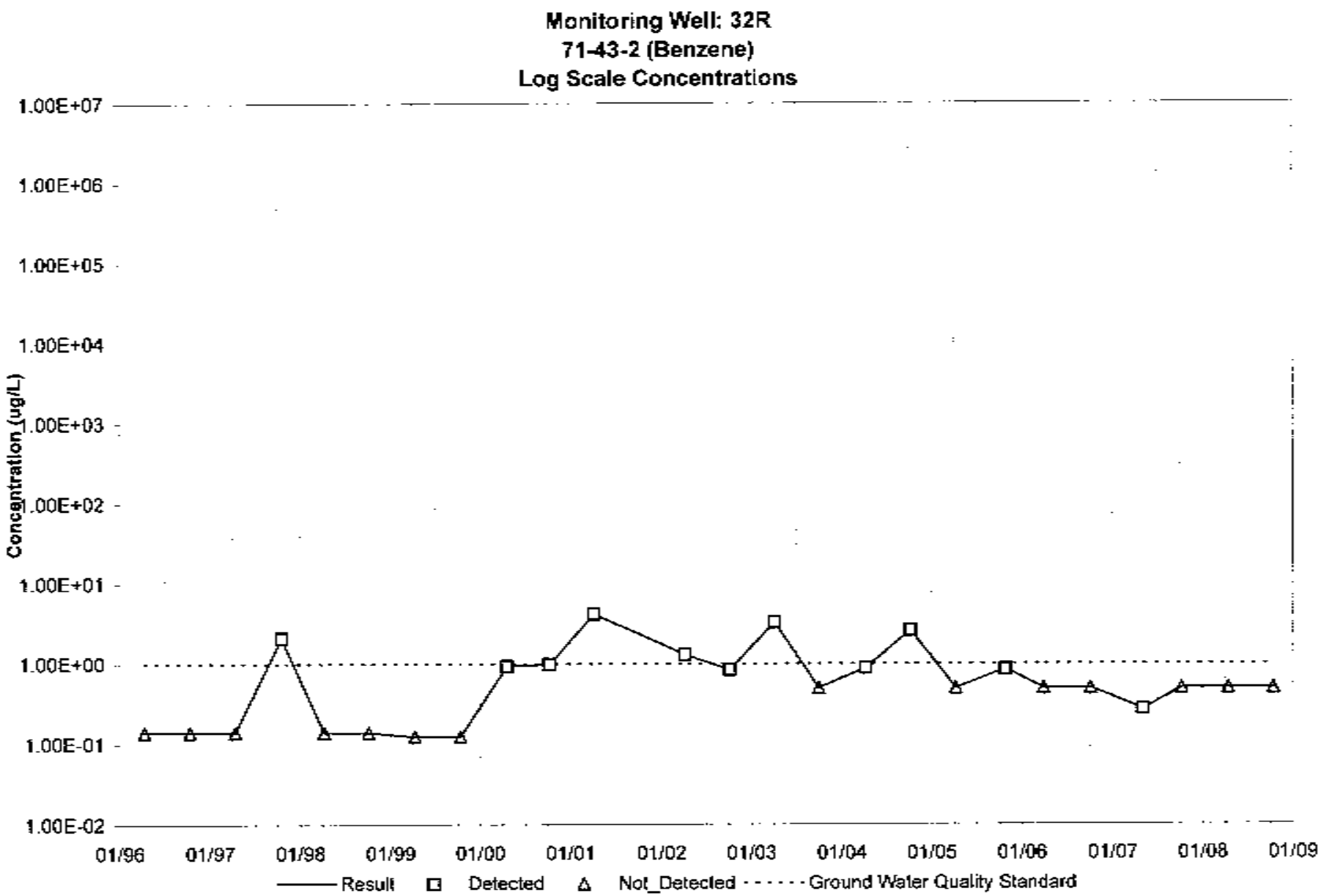

Monitoring Well: RCRA-D9
62-53-3 (Aniline)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

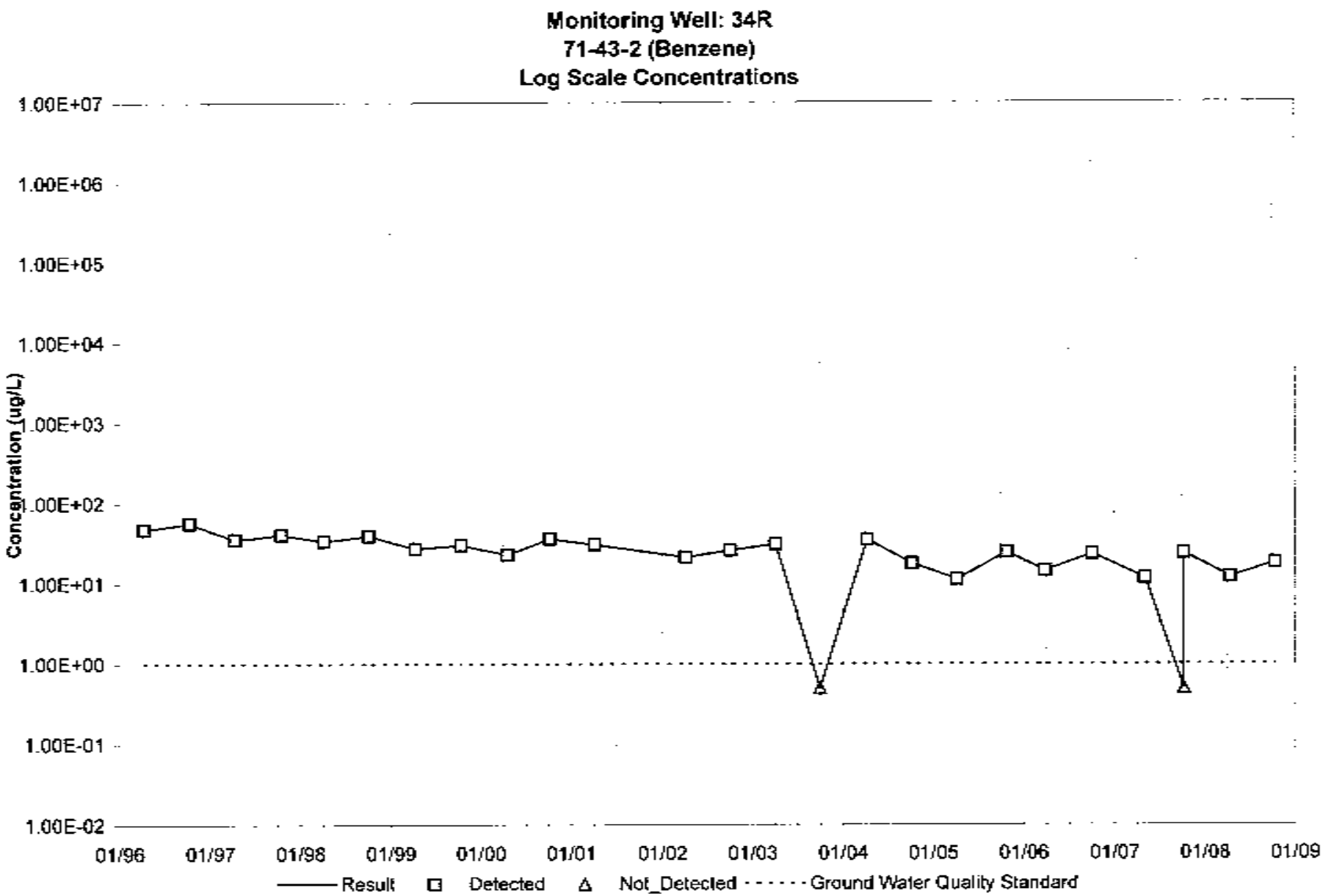

Monitoring Well: TFP-94-1R
62-53-3 (Aniline)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

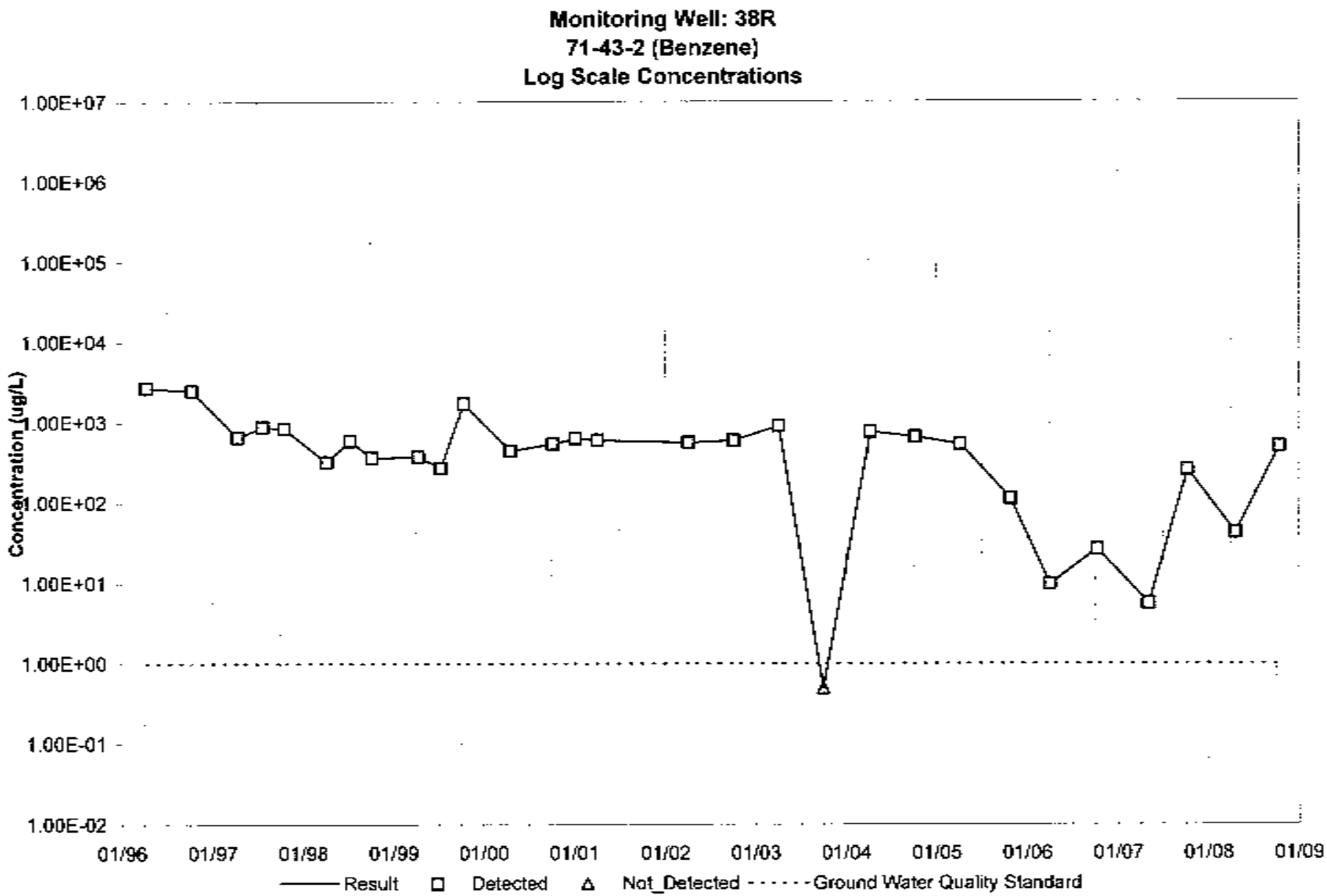

Monitoring Well: 19R
71-43-2 (Benzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

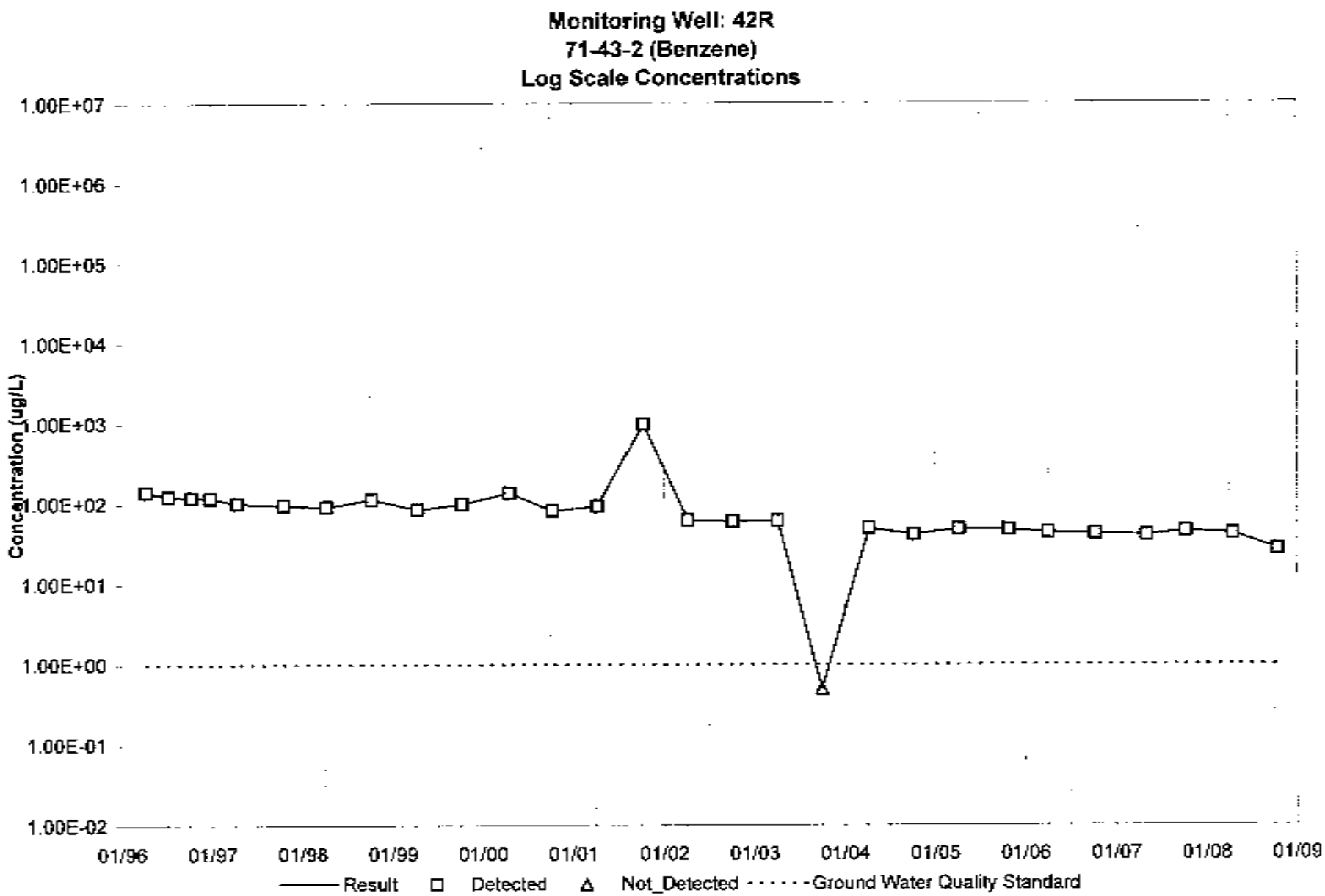

Monitoring Well: 21R
71-43-2 (Benzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

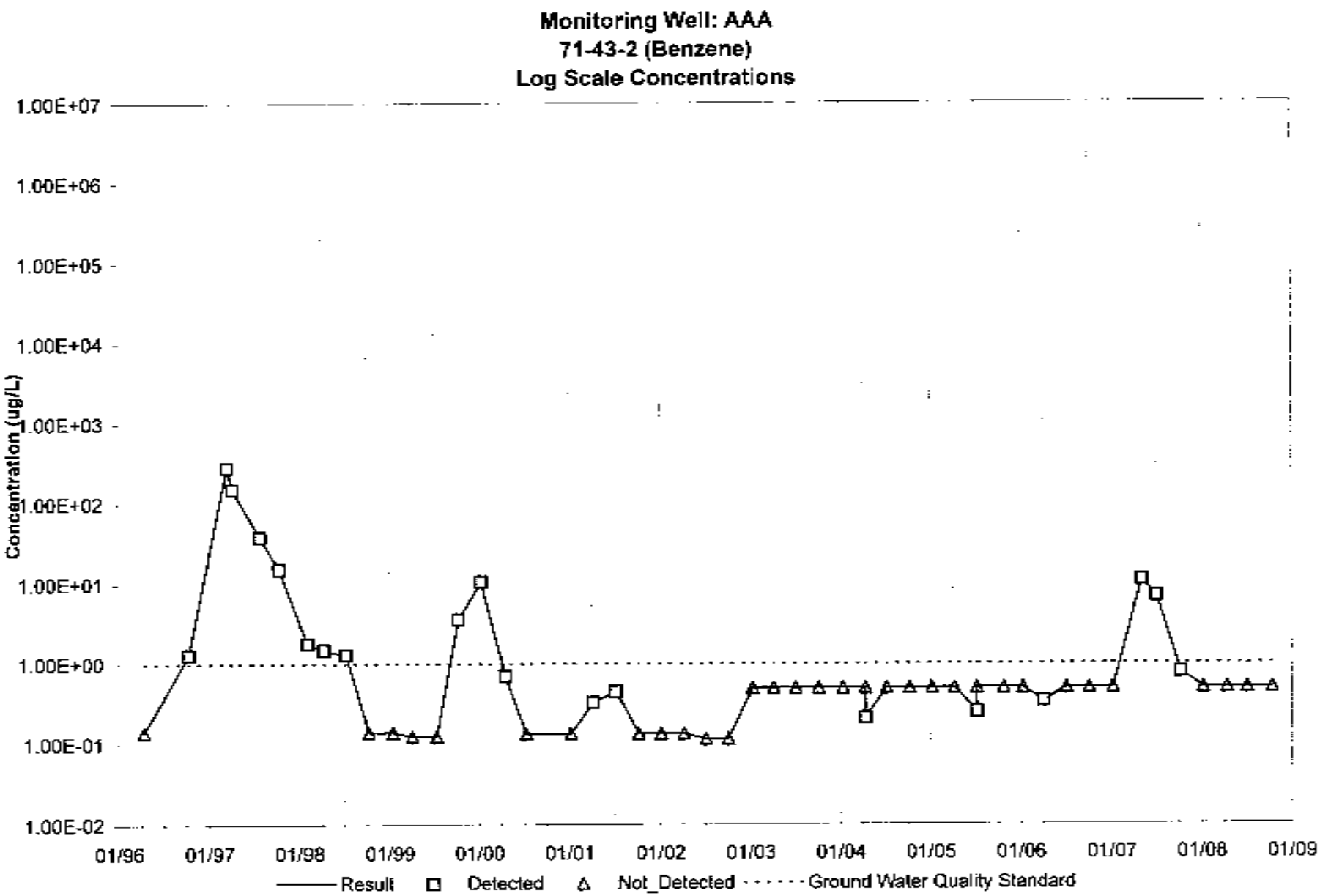

Monitoring Well: 28R
71-43-2 (Benzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

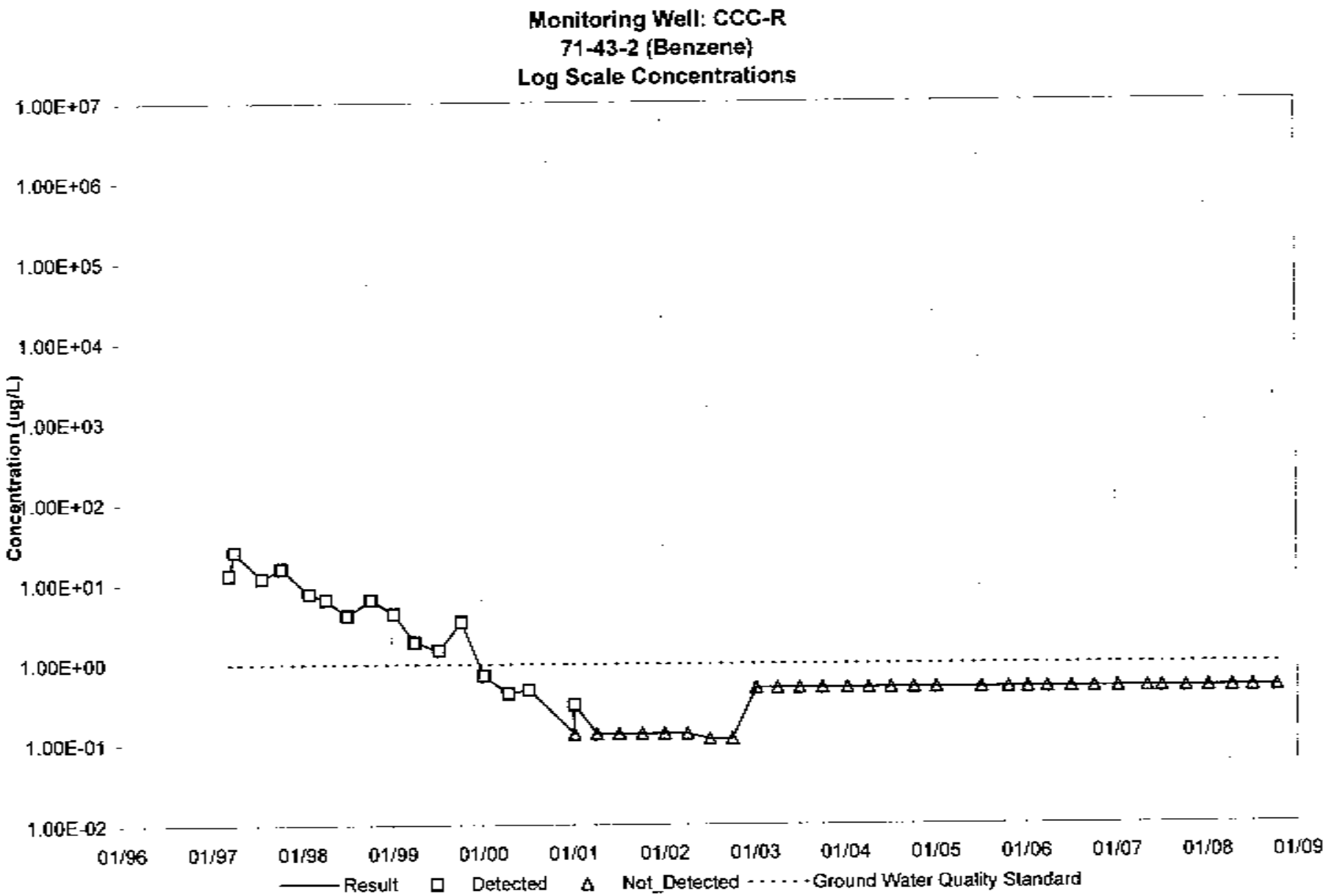

Monitoring Well: 32R
71-43-2 (Benzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

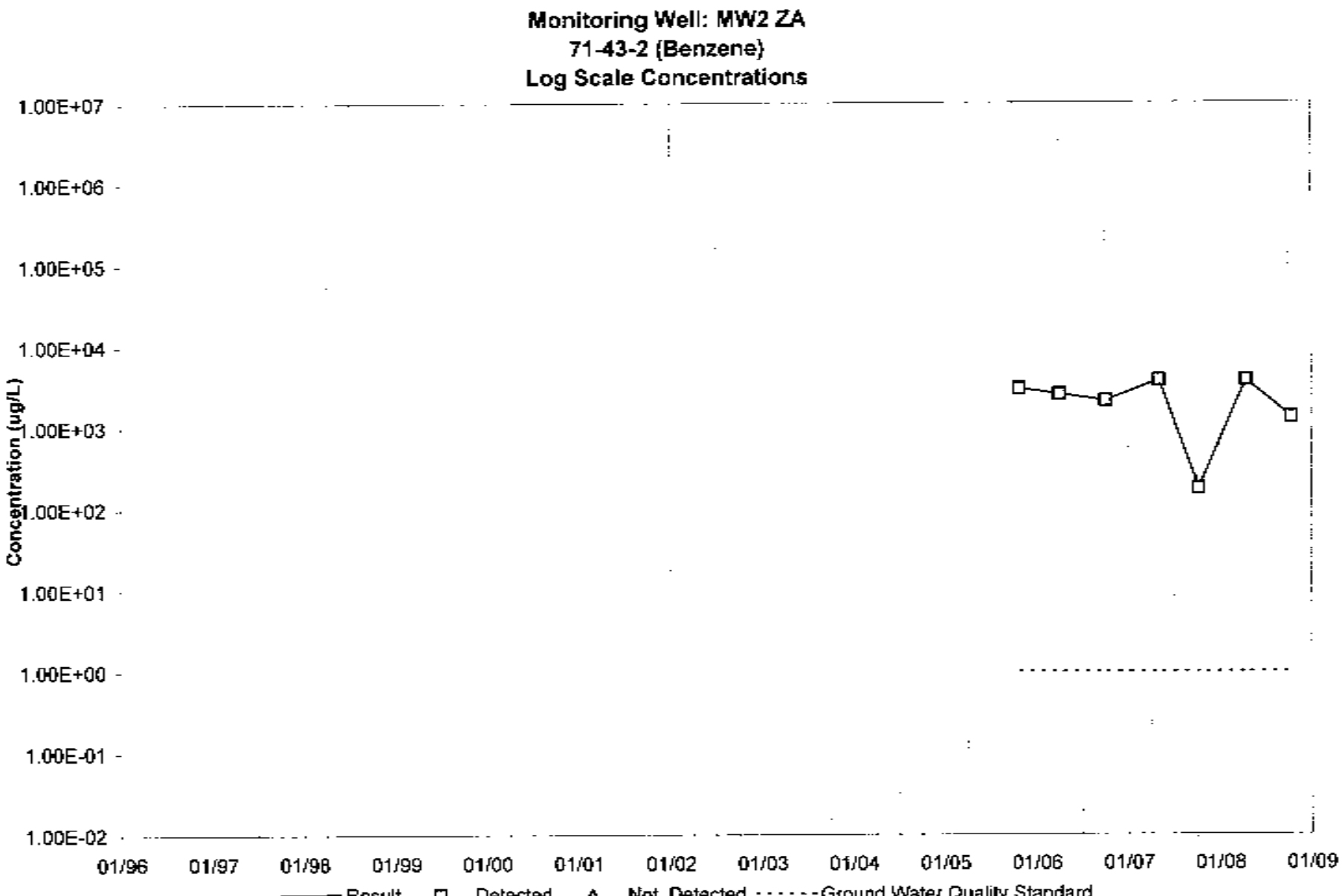

Monitoring Well: 34R
71-43-2 (Benzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard


Monitoring Well: 38R
71-43-2 (Benzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

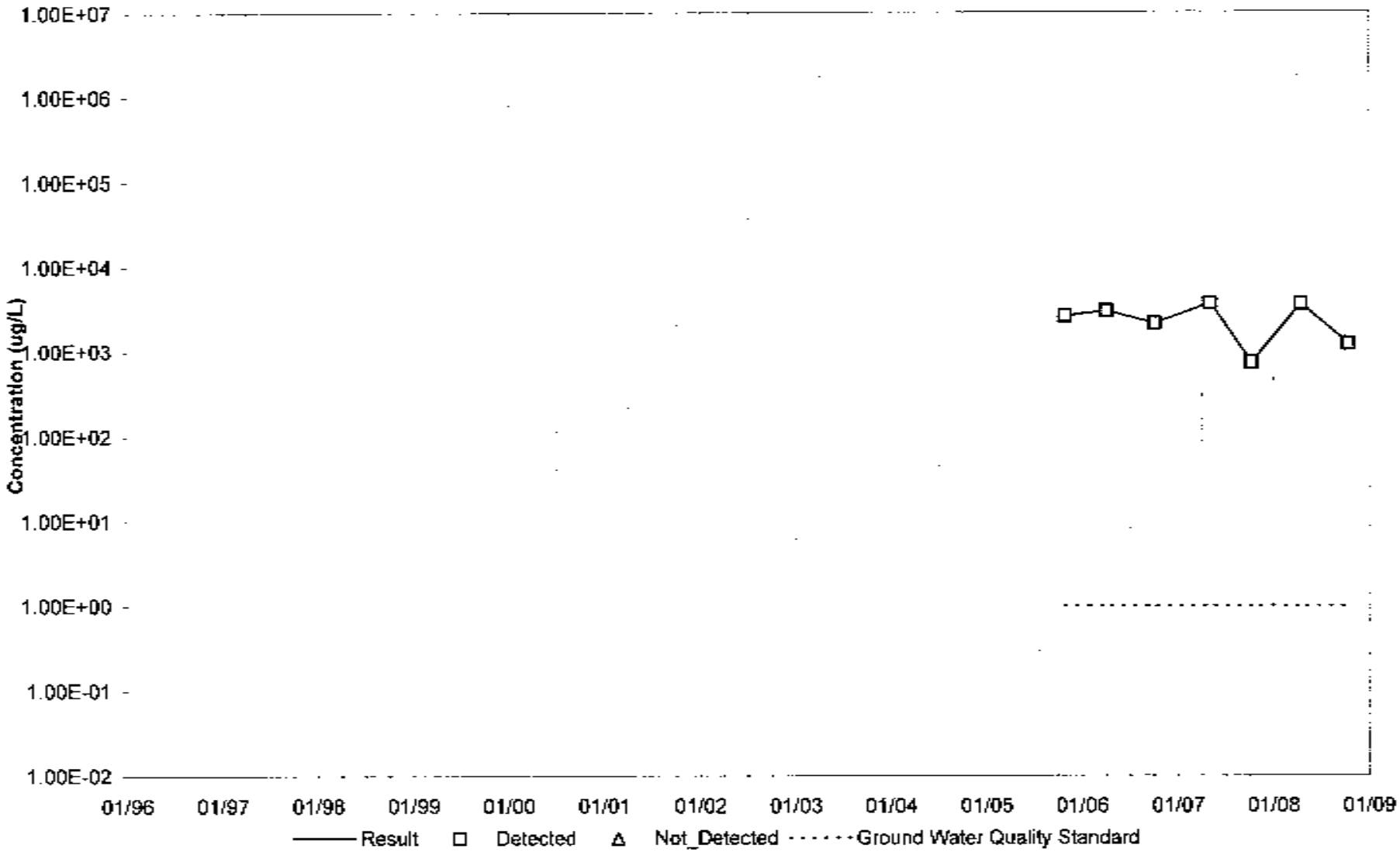

Monitoring Well: 42R
71-43-2 (Benzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

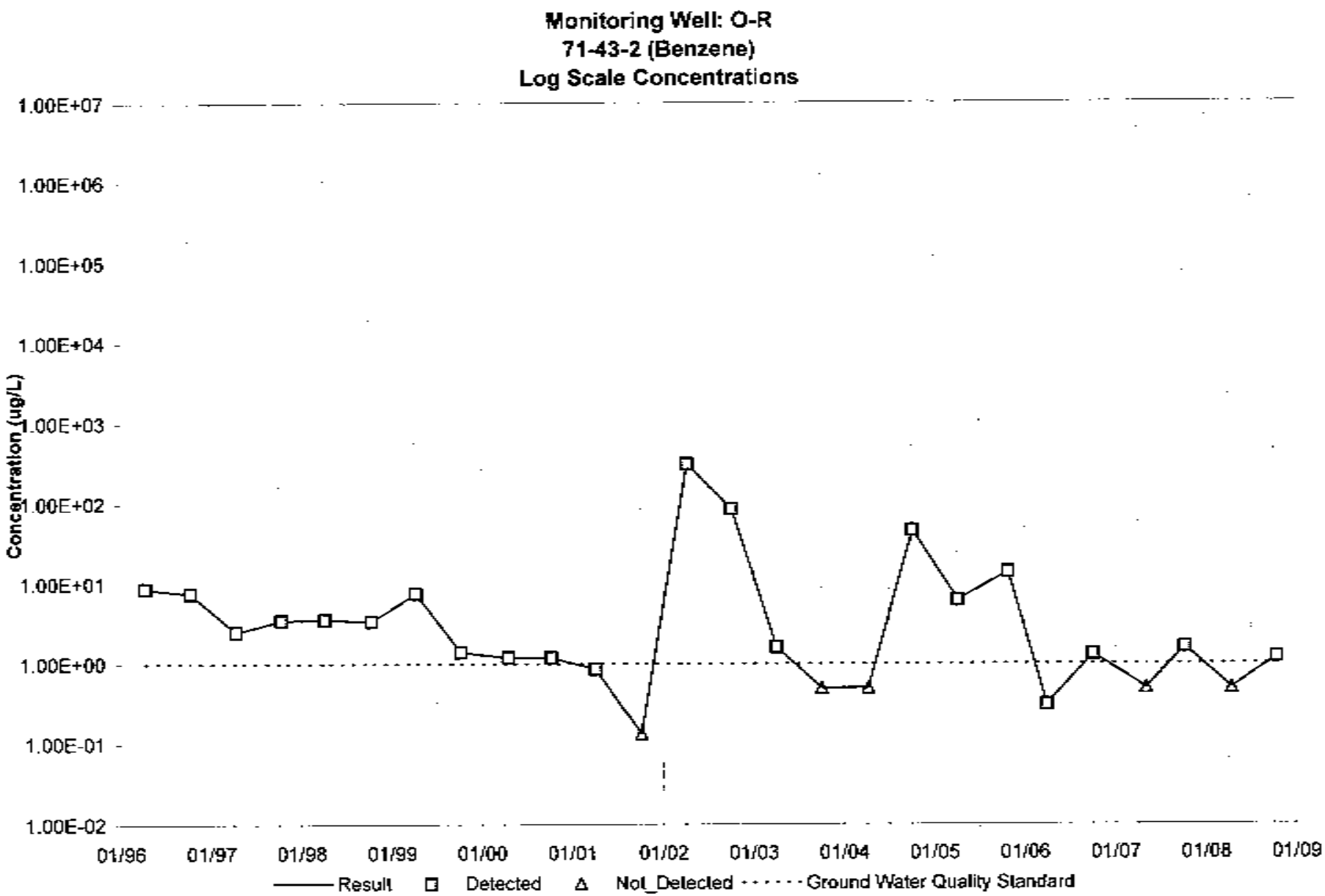

Monitoring Well: AAA
71-43-2 (Benzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

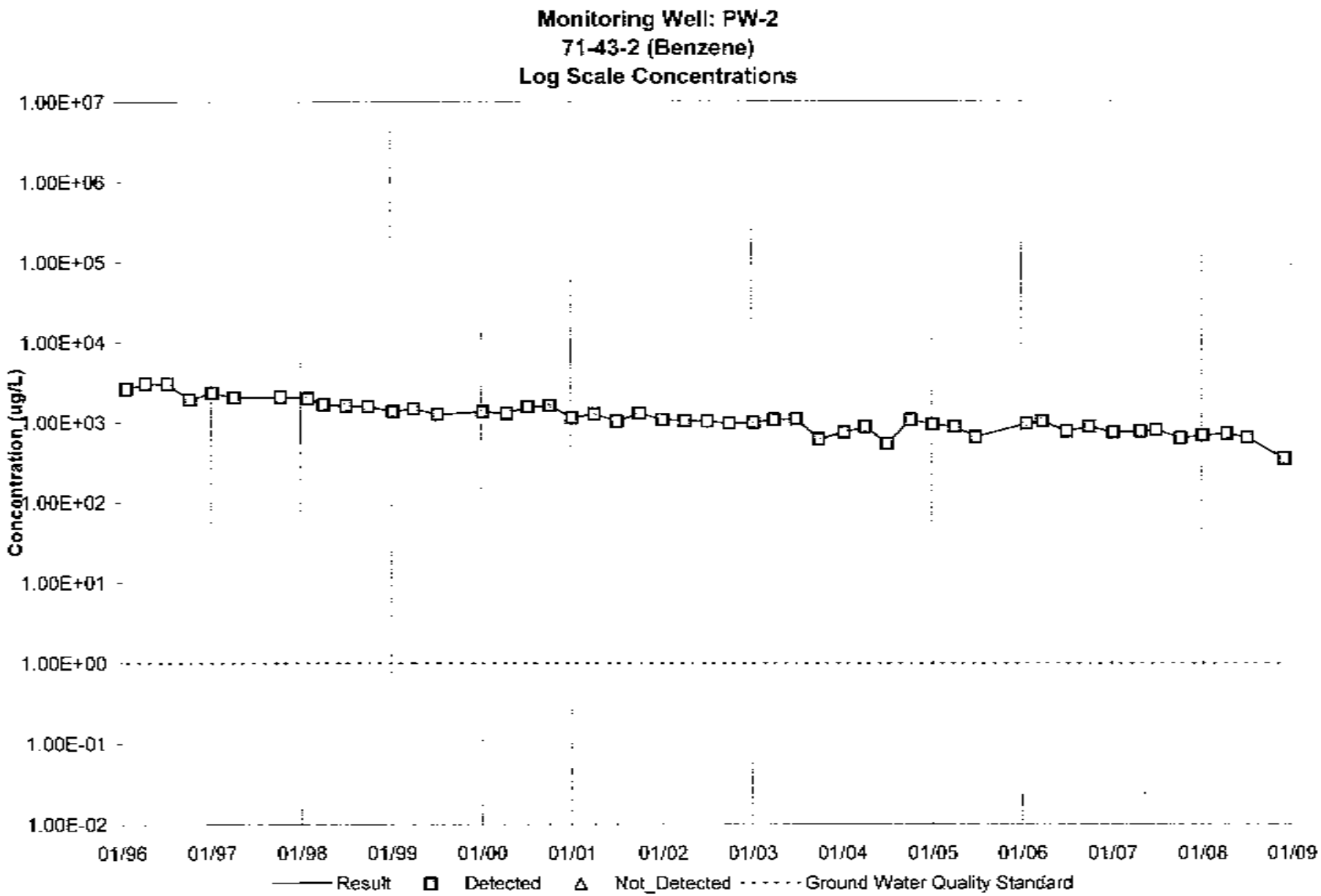

Monitoring Well: CCC-R
71-43-2 (Benzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

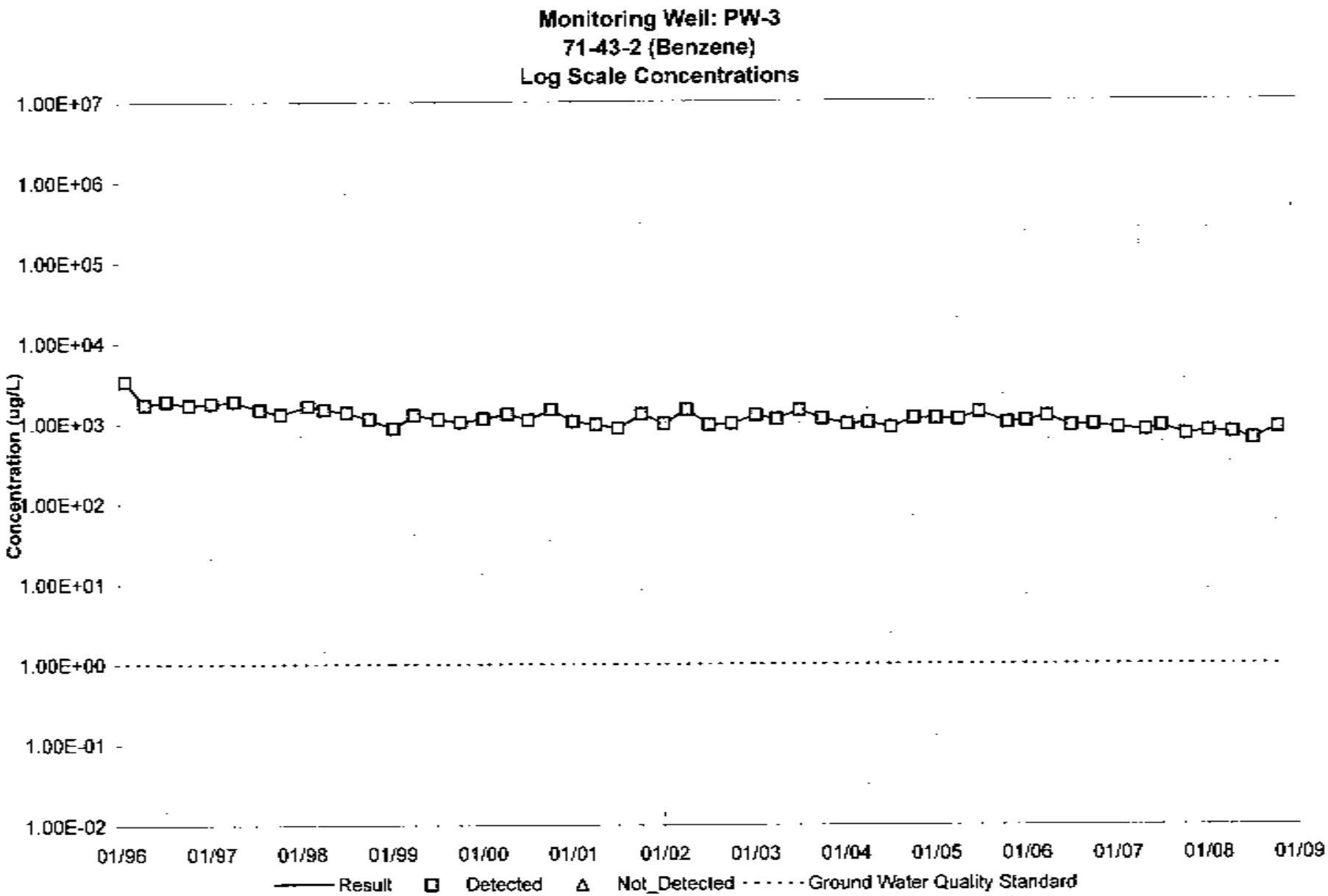

Monitoring Well: MW2 ZA
71-43-2 (Benzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

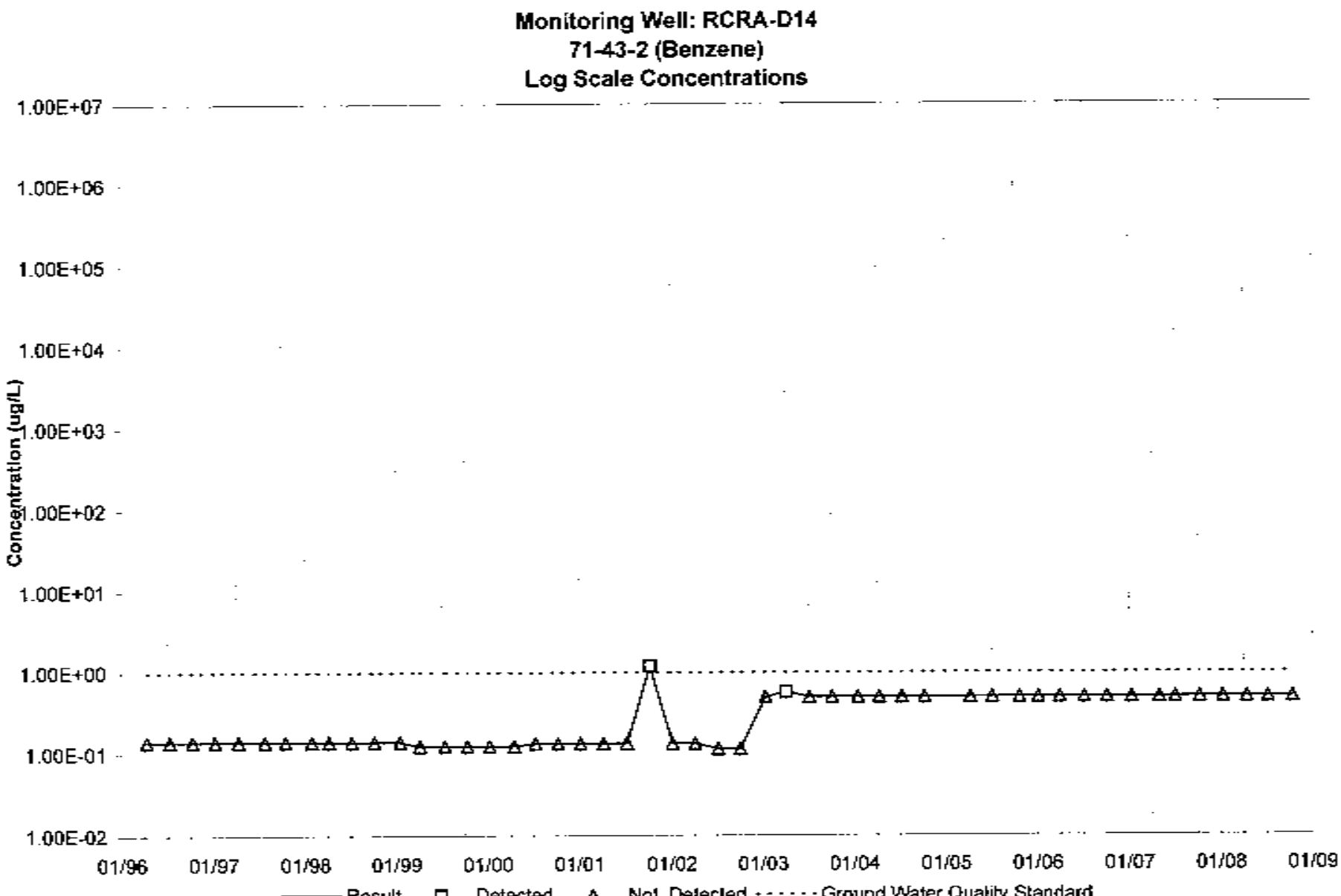
Monitoring Well: MW2 ZB
71-43-2 (Benzene)
Log Scale Concentrations

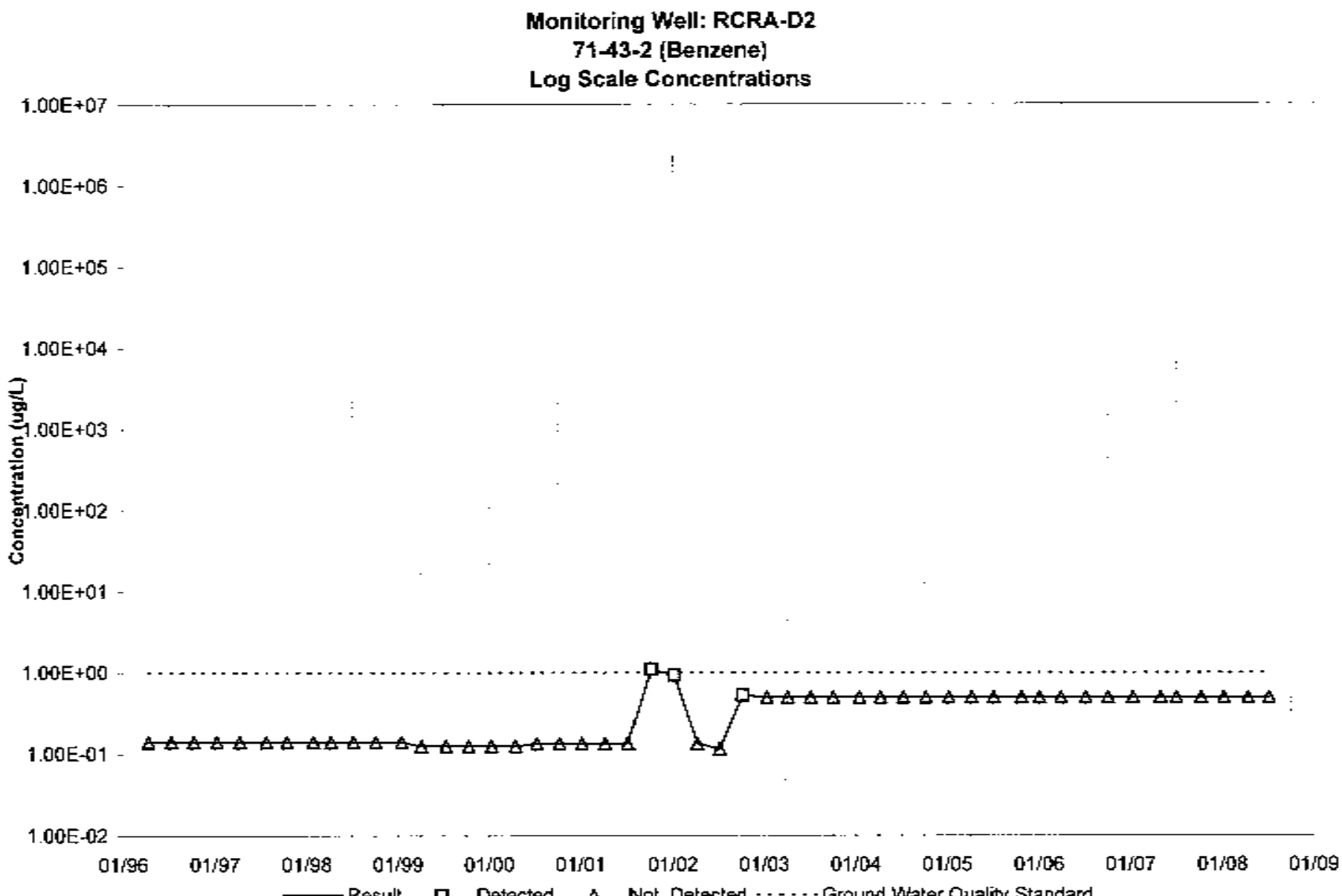


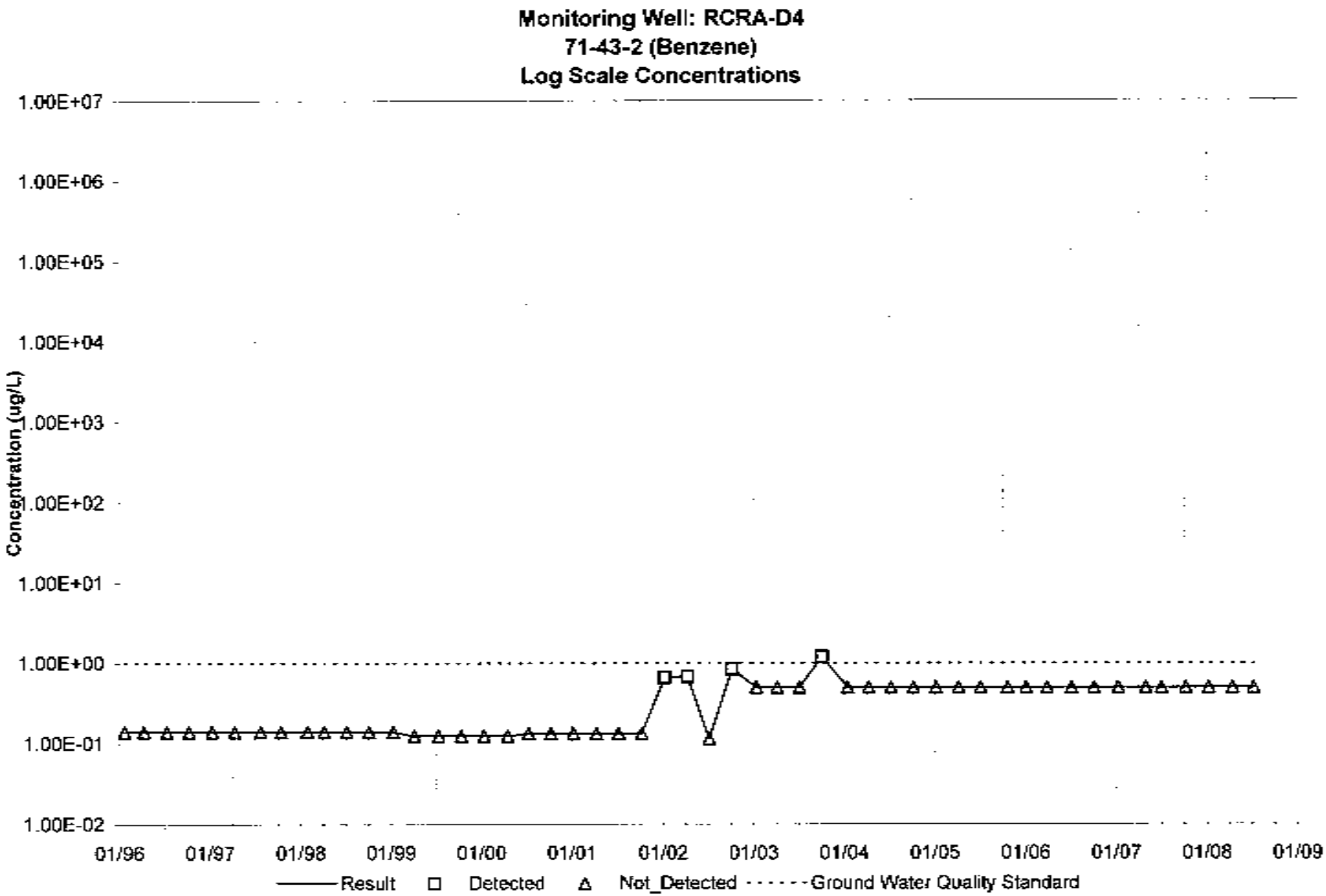

Monitoring Well: O-R
71-43-2 (Benzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

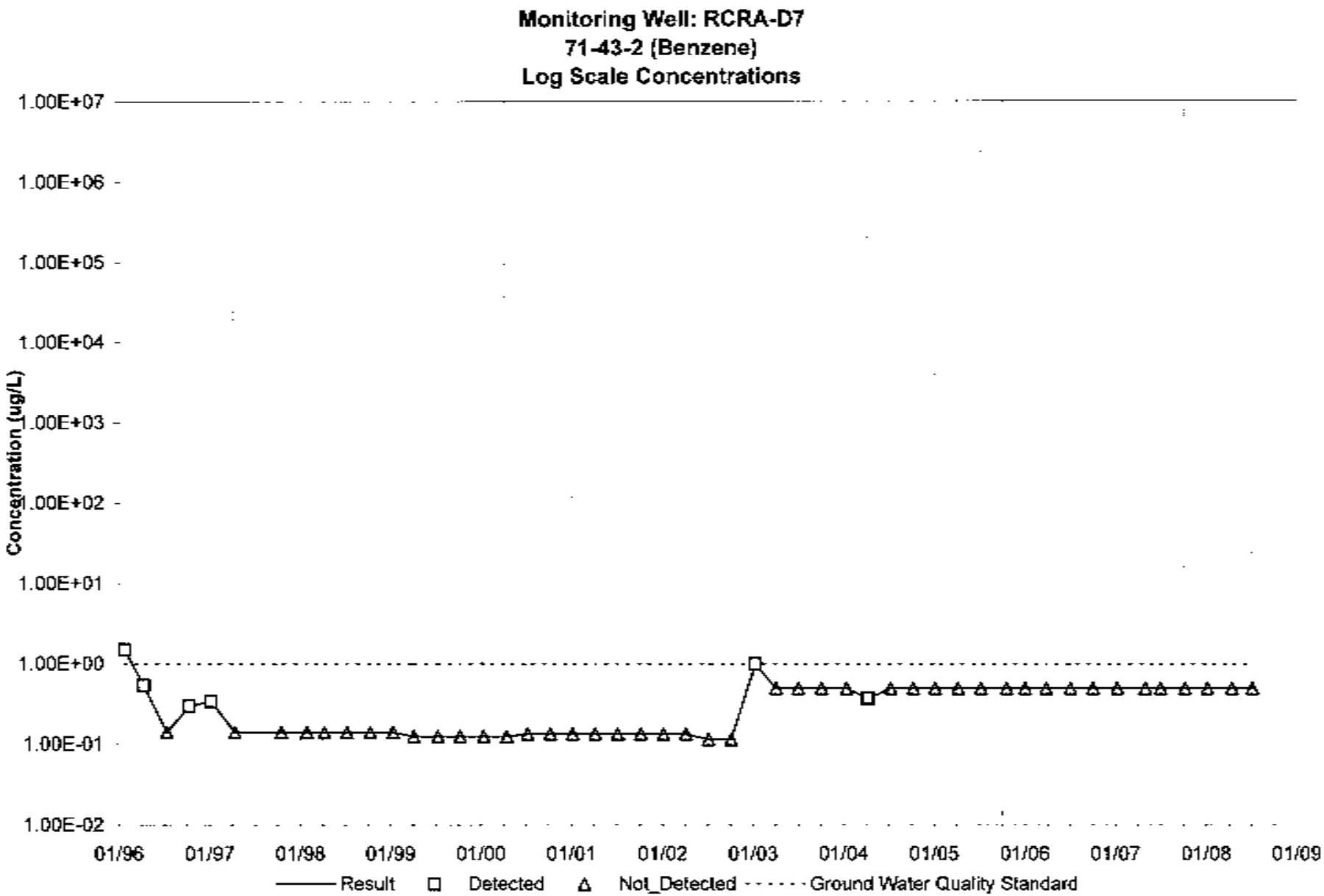

Monitoring Well: PW-2
71-43-2 (Benzene)
Log Scale Concentrations
Concentration (µg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

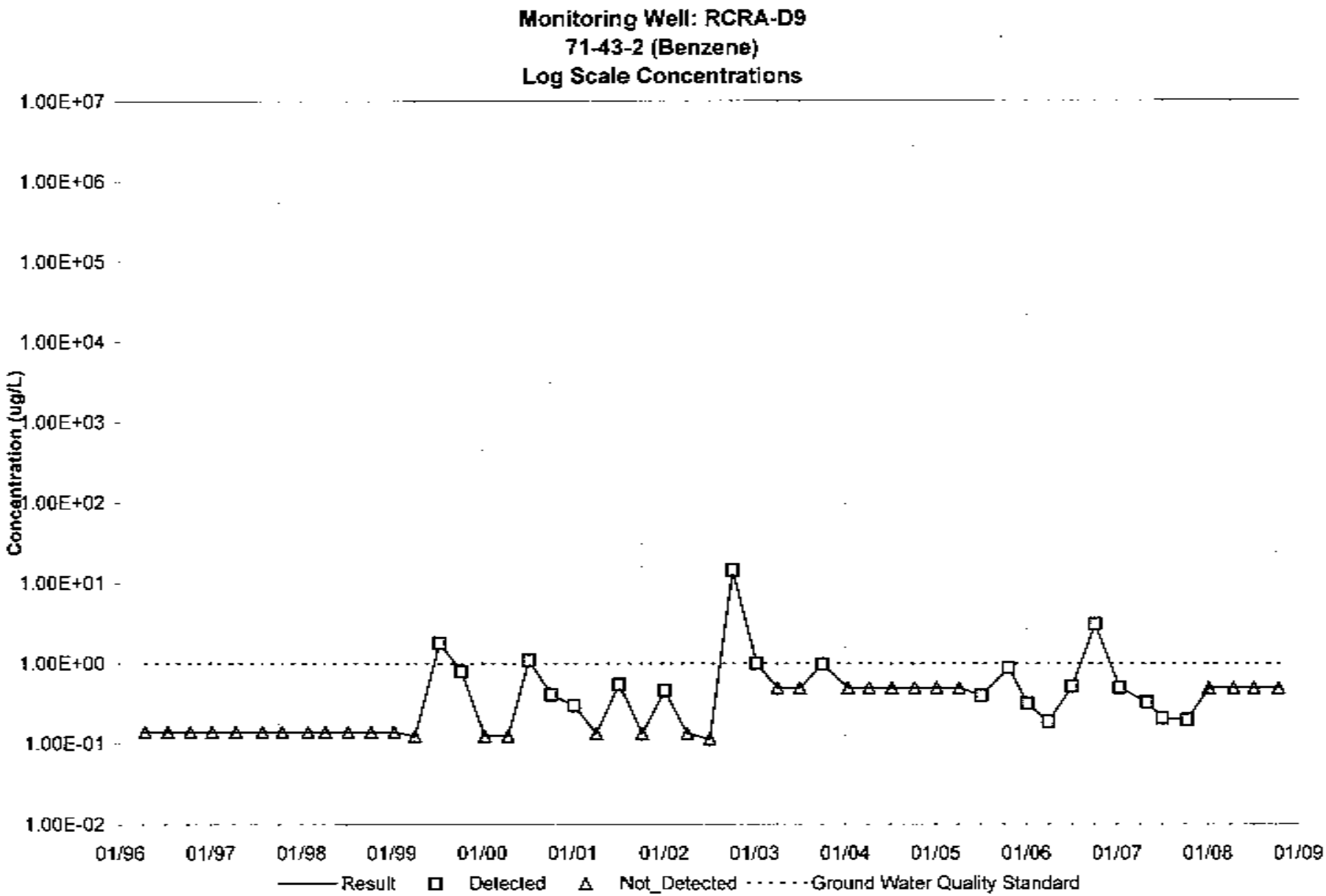

Monitoring Well: PW-3
71-43-2 (Benzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

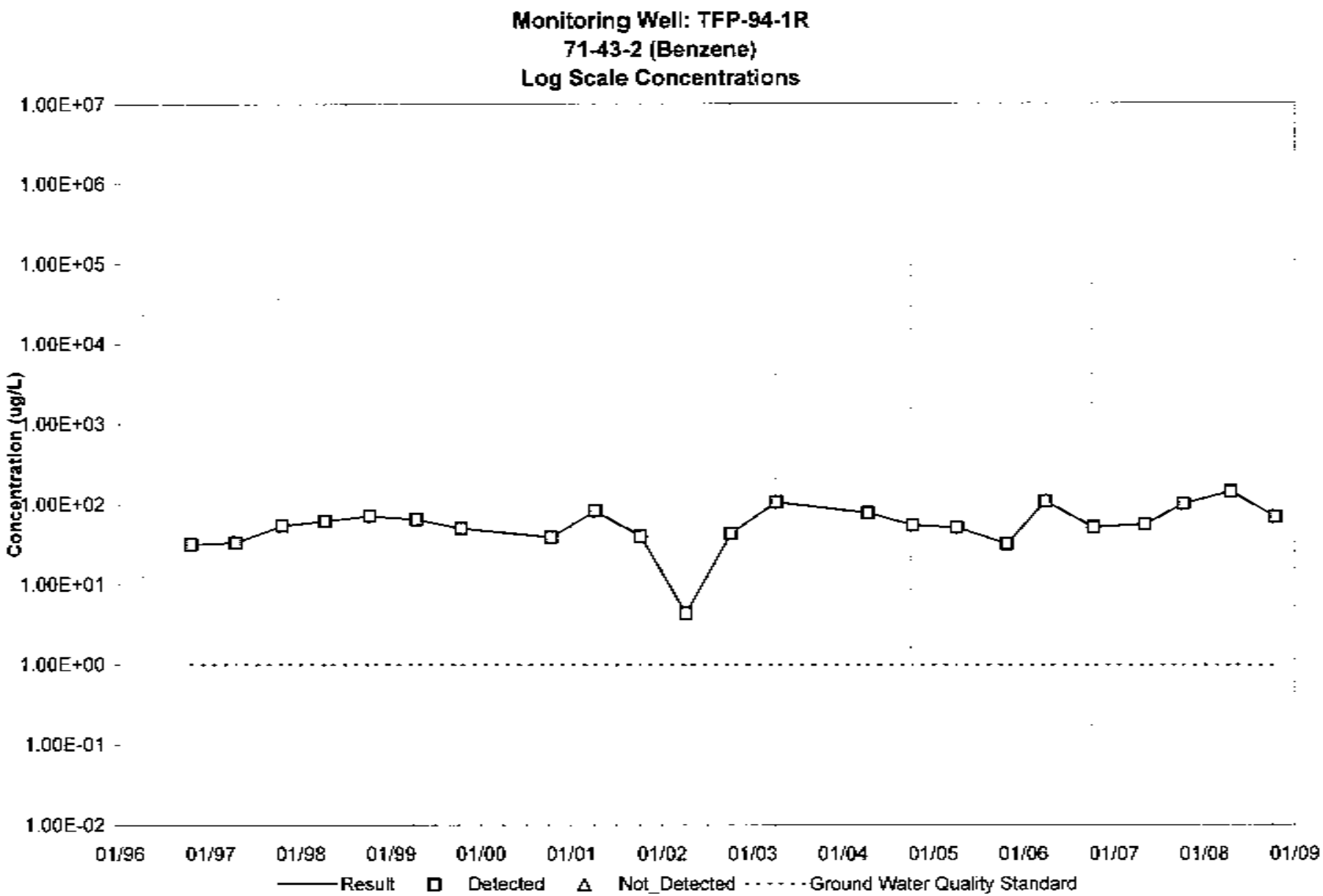

Monitoring Well: RCRA-D14
71-43-2 (Benzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

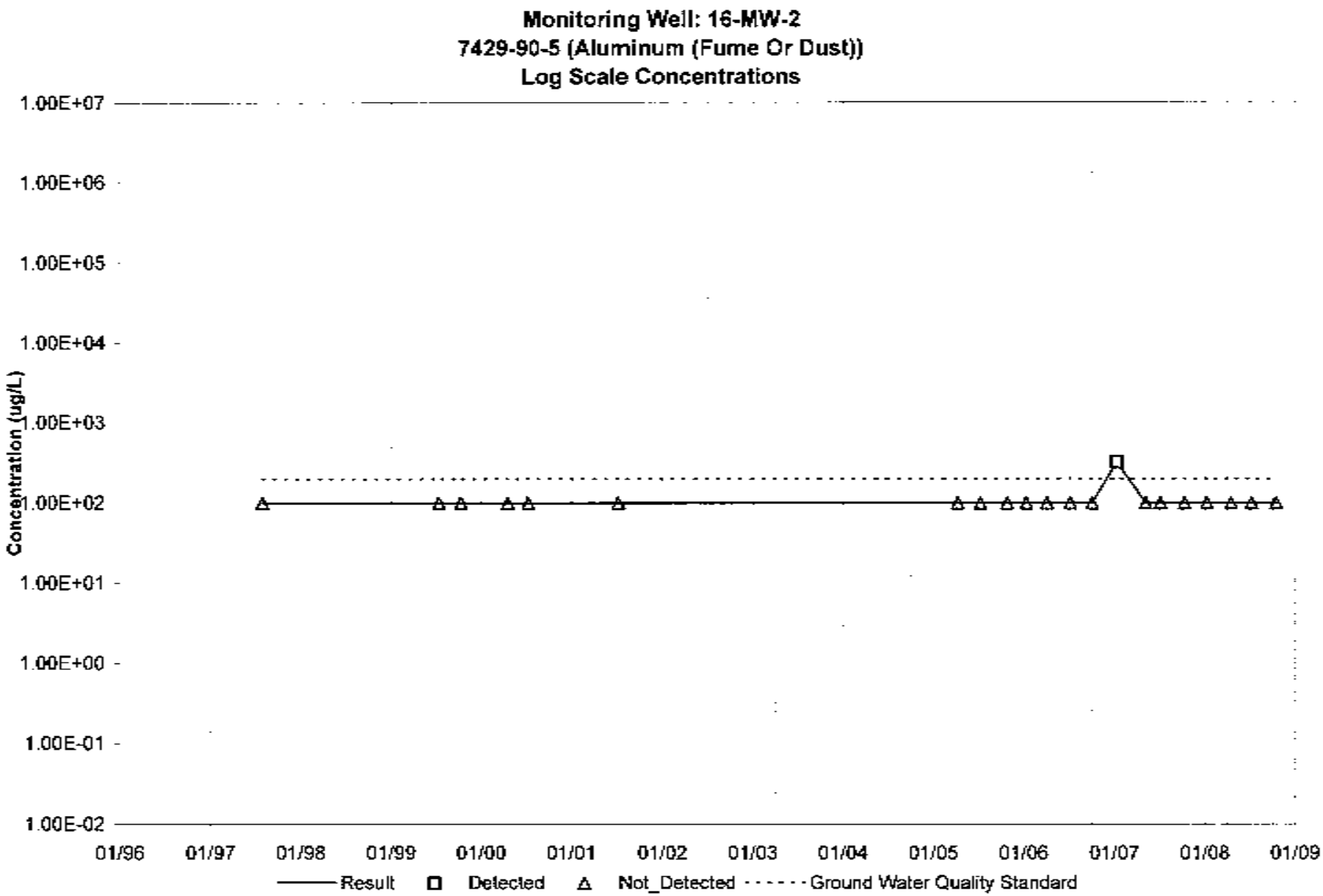

Monitoring Well: RCRA-D2
71-43-2 (Benzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

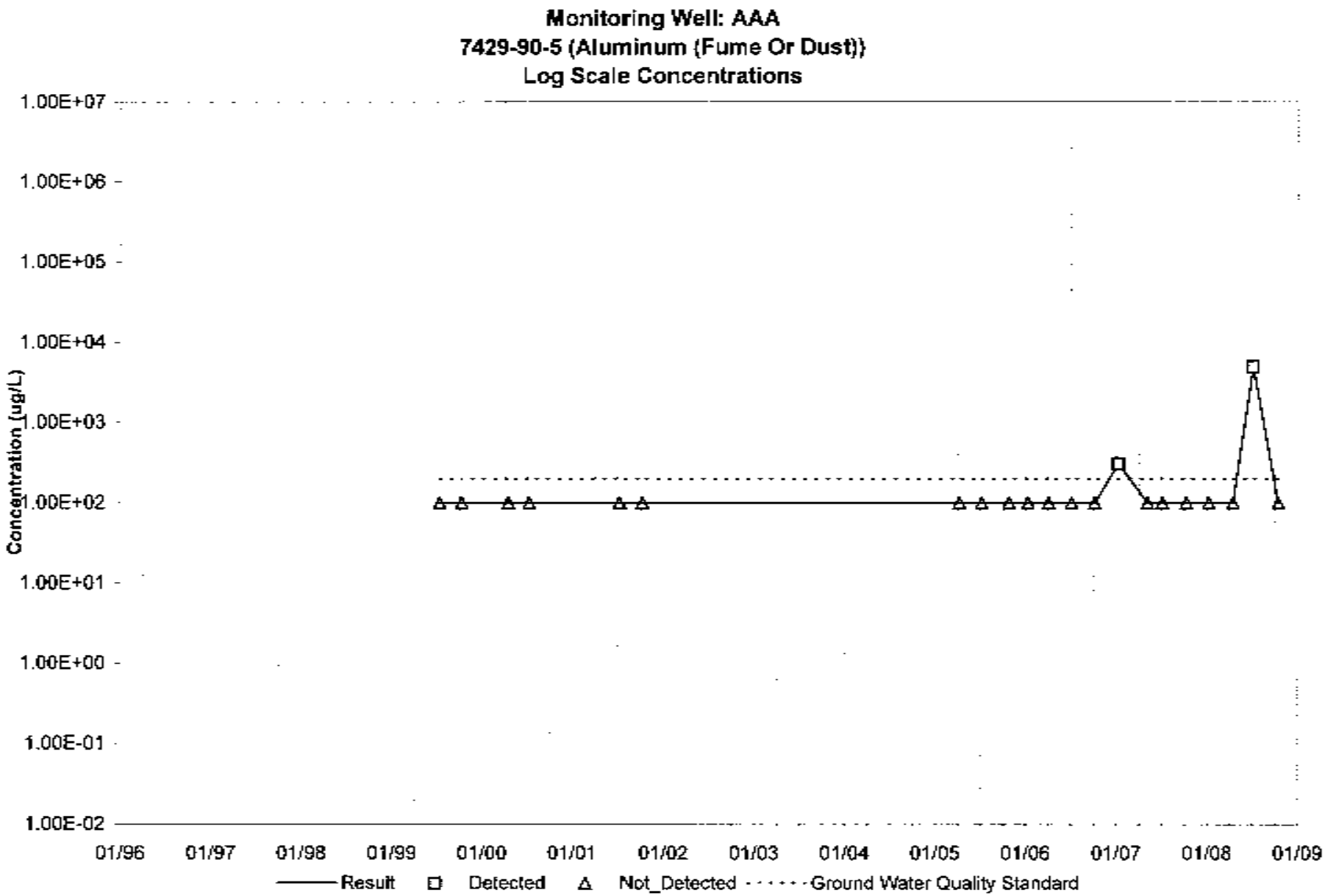

Monitoring Well: RCRA-D4
71-43-2 (Benzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

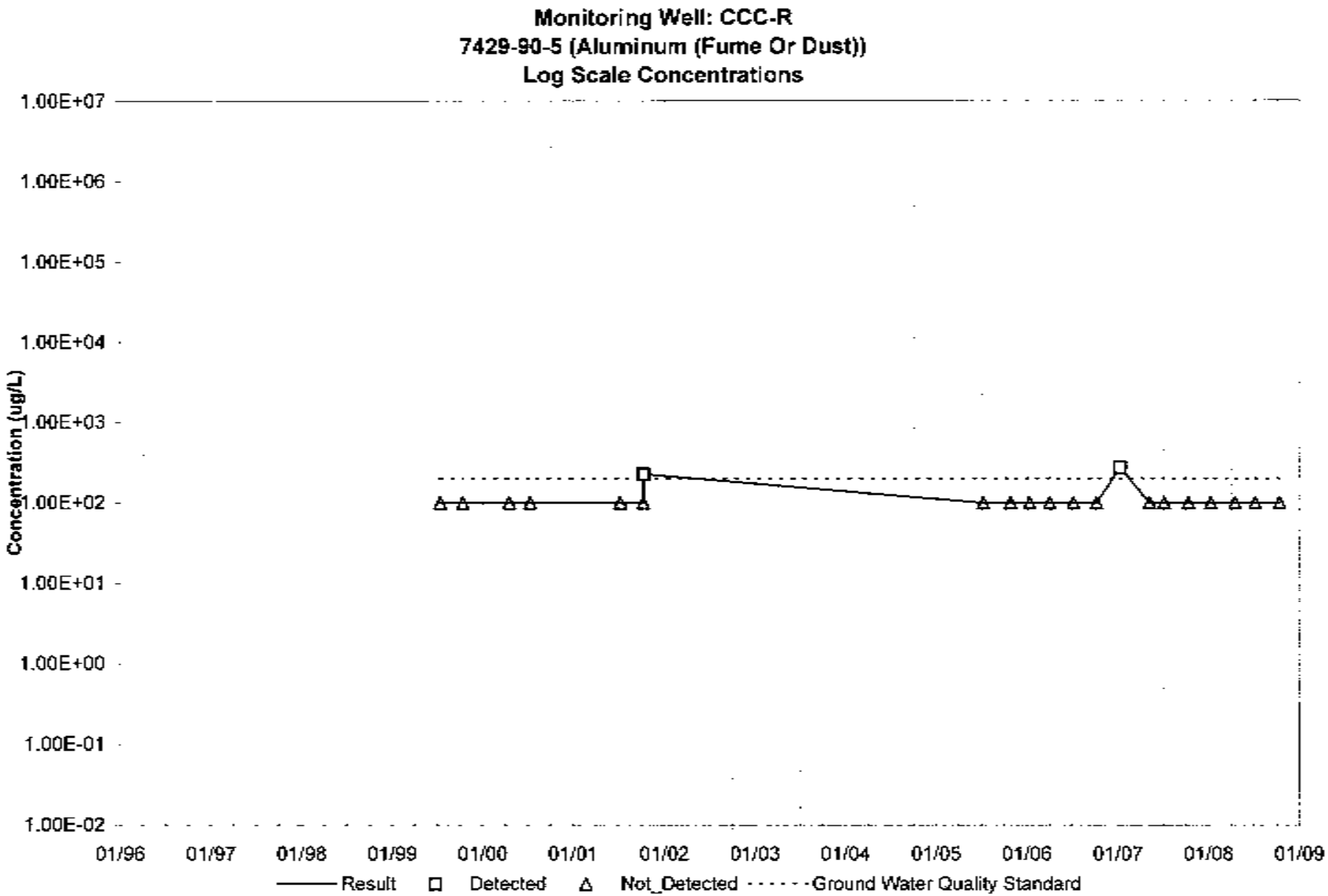

Monitoring Well: RCRA-D7
71-43-2 (Benzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

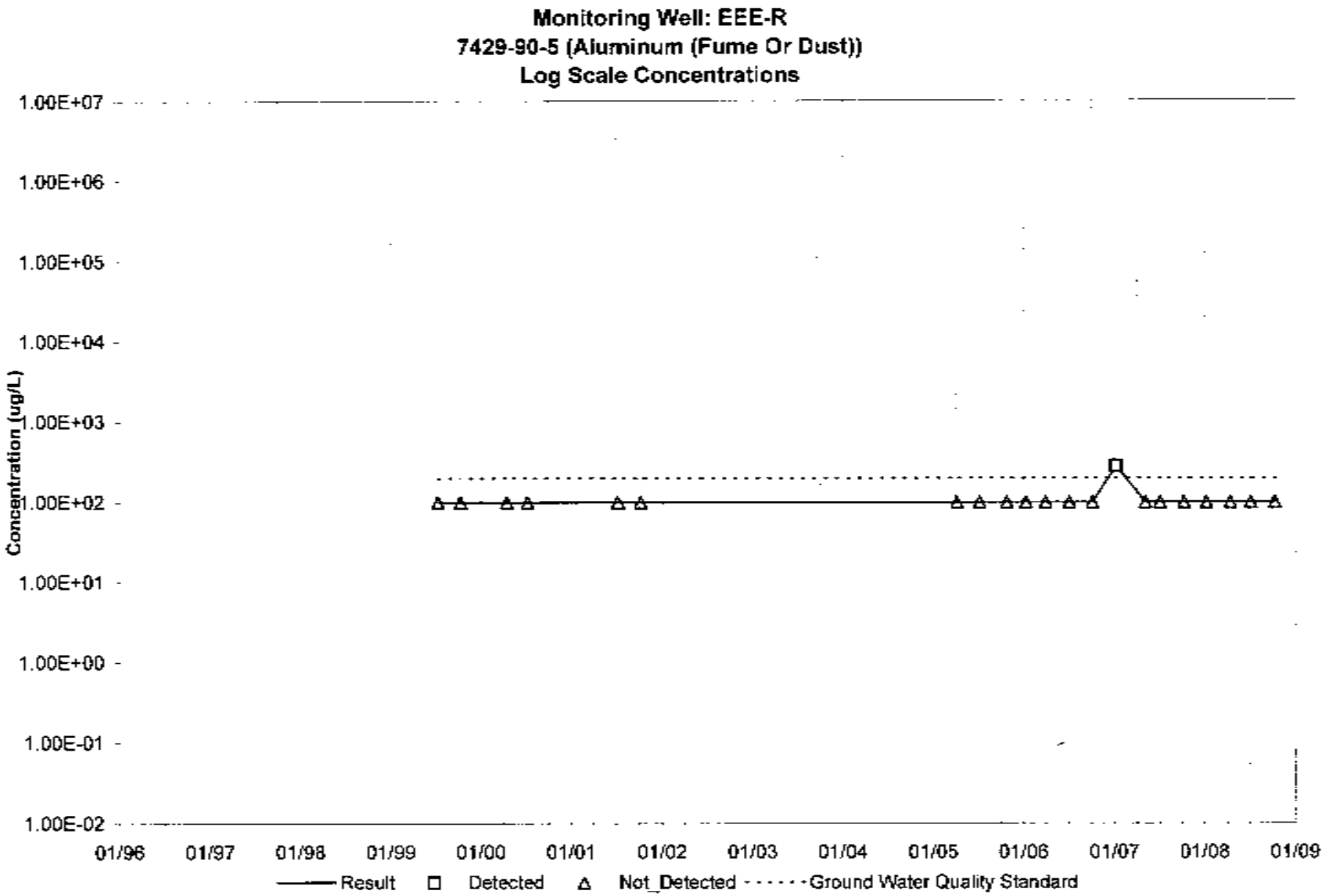

Monitoring Well: RCRA-D9
71-43-2 (Benzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

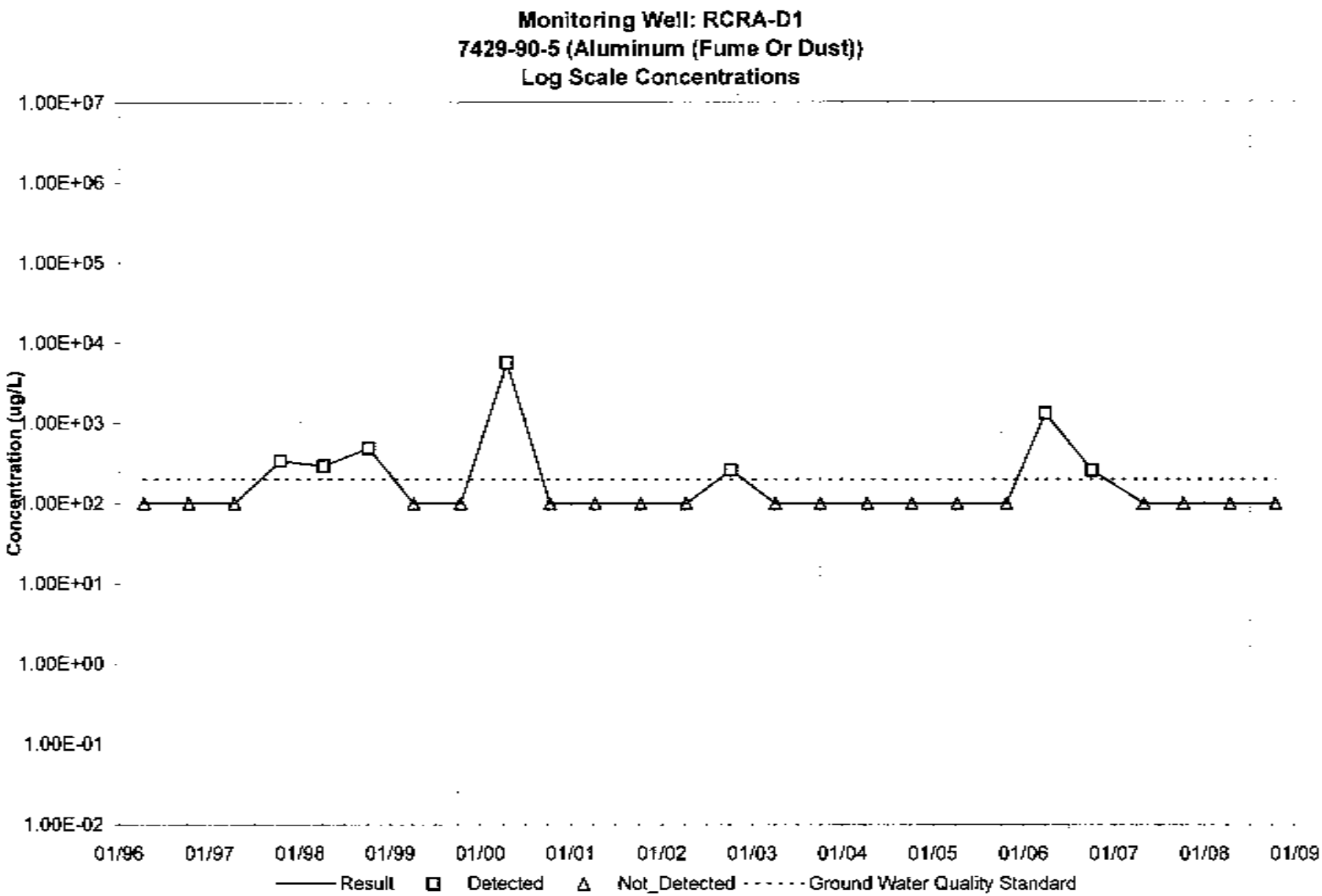

Monitoring Well: TFP-94-1R
71-43-2 (Benzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

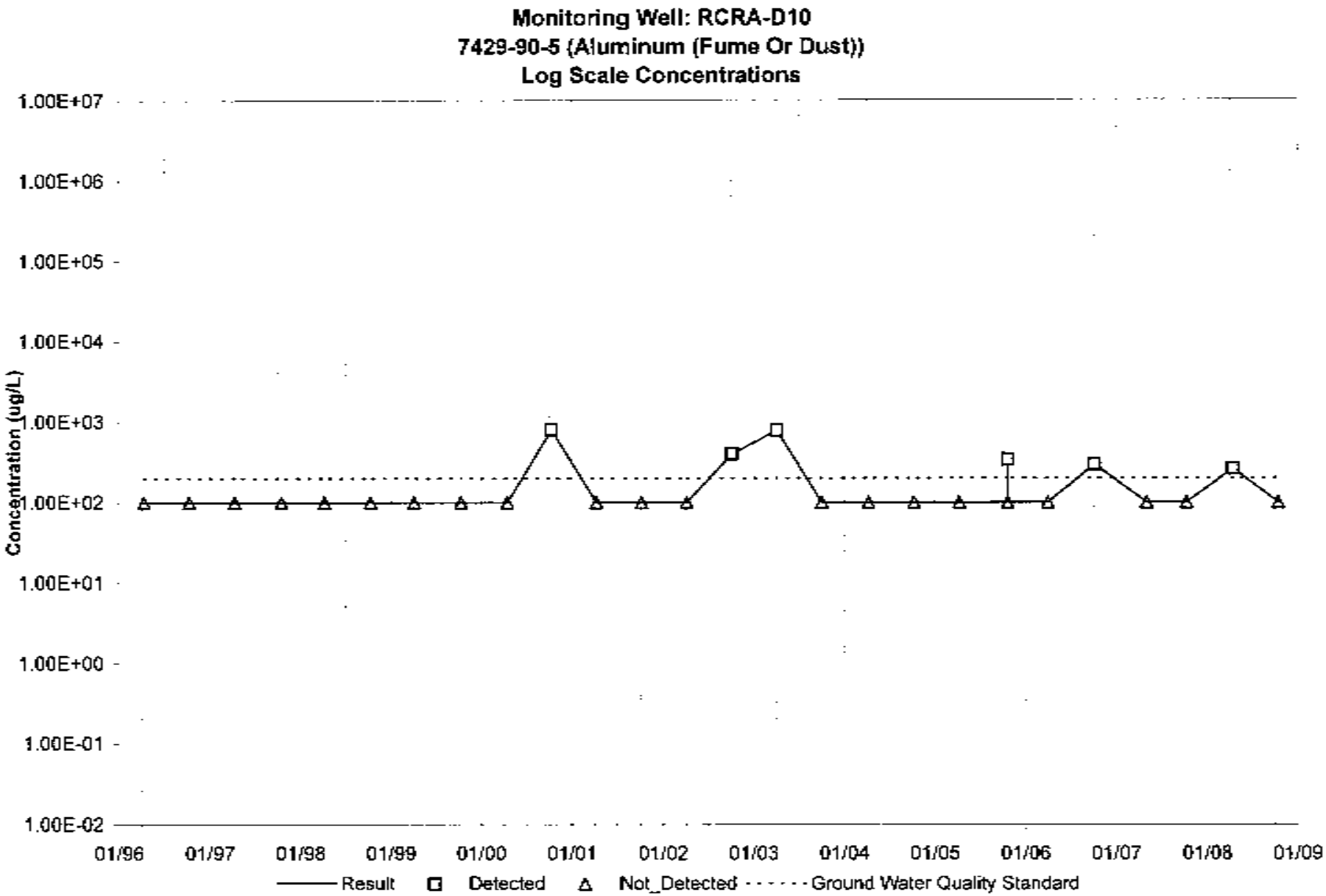

Monitoring Well: 16-MW-2
7429-90-5 (Aluminum (Fume Or Dust))
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

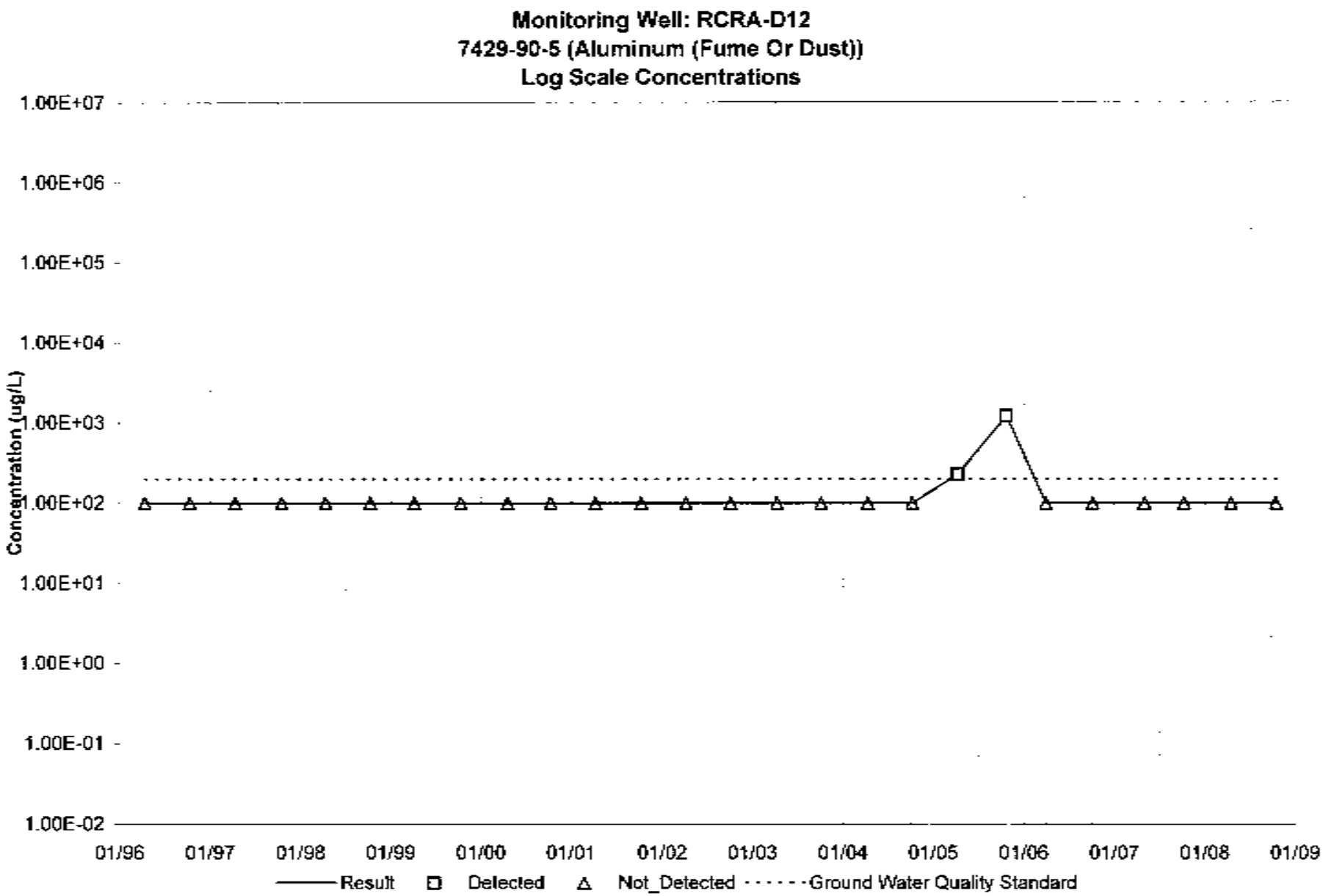

Monitoring Well: AAA
7429-90-5 (Aluminum (Fume Or Dust))
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

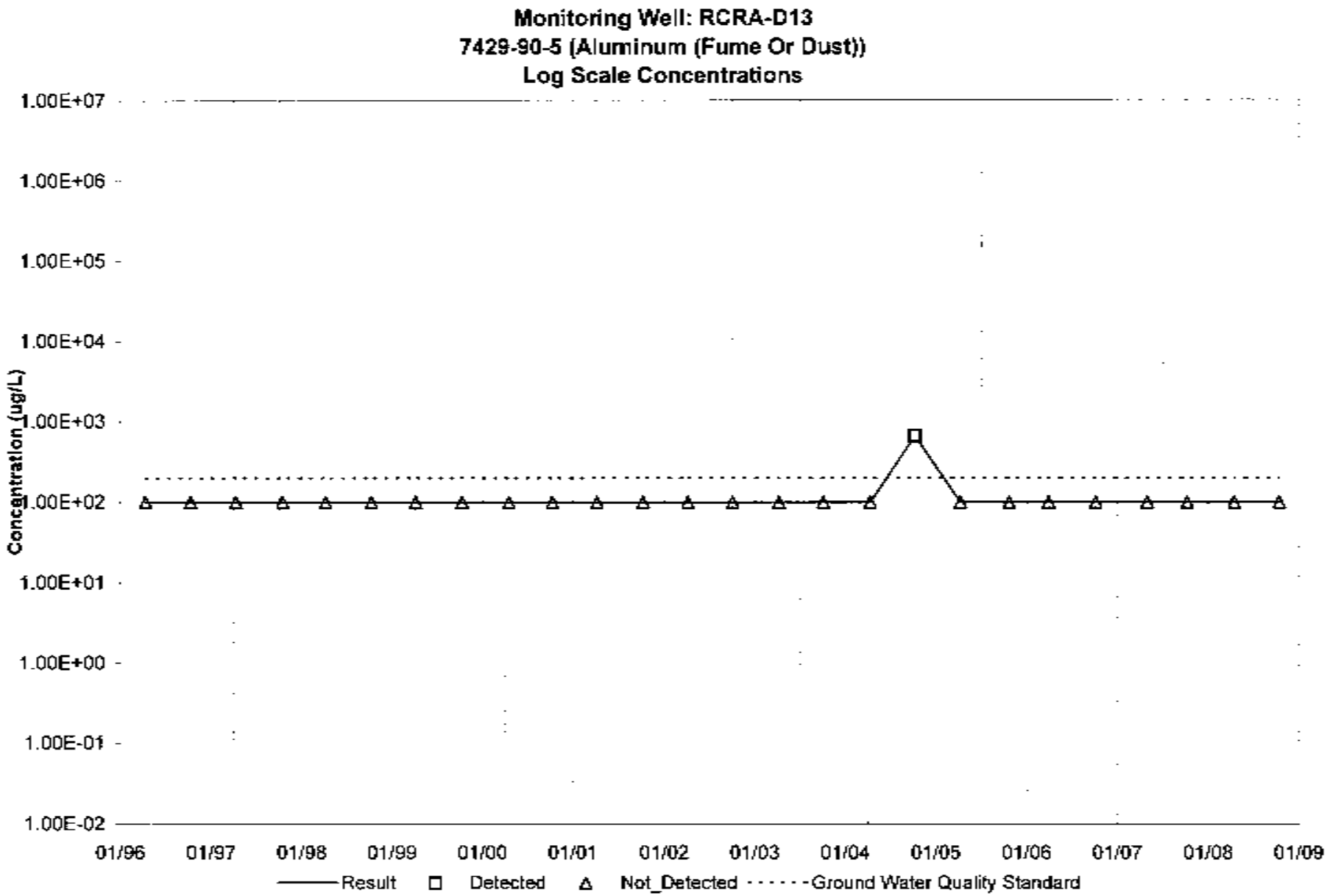

Monitoring Well: CCC-R
7429-90-5 (Aluminum (Fume Or Dust))
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

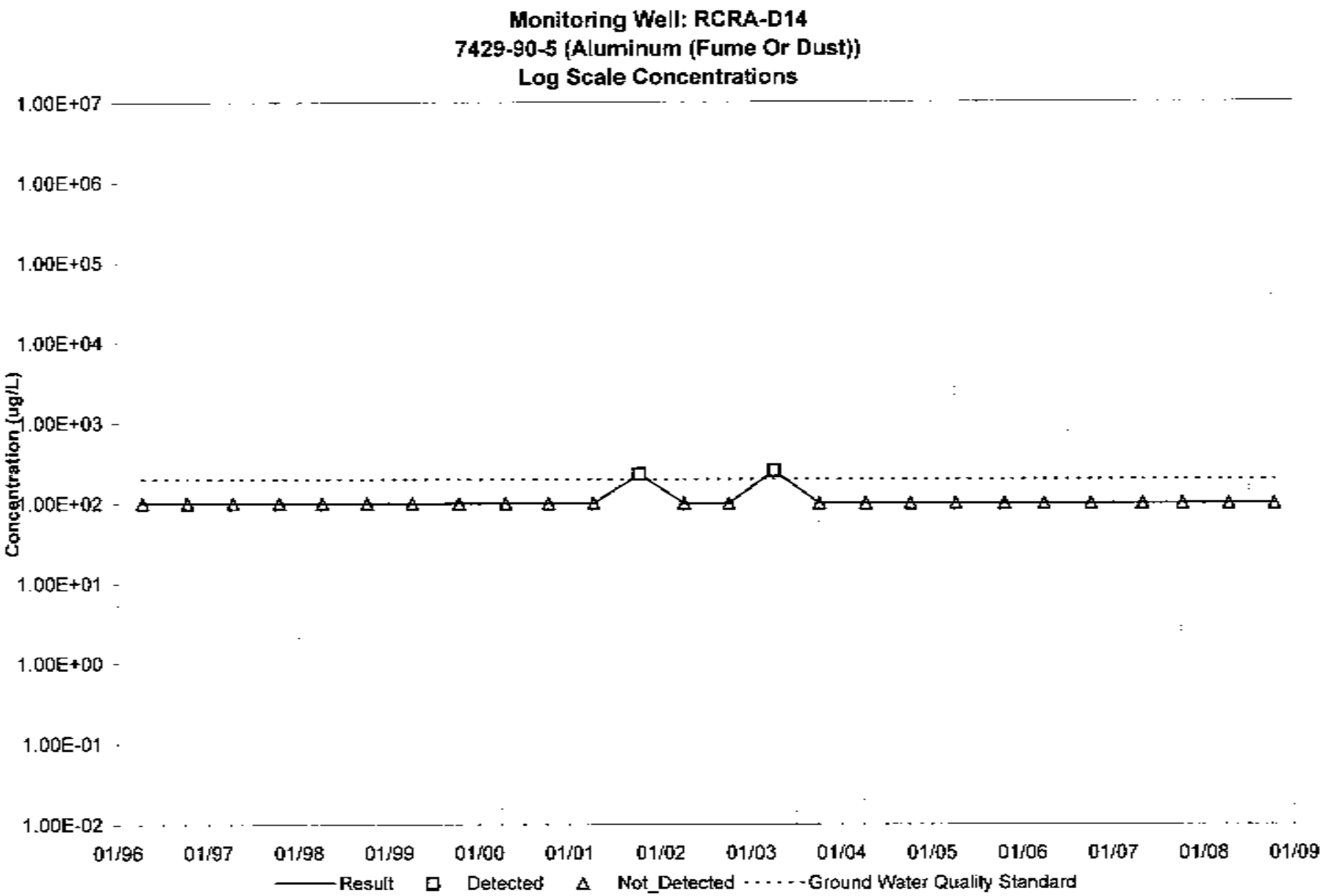

Monitoring Well: EEE-R
7429-90-5 (Aluminum (Fume Or Dust))
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

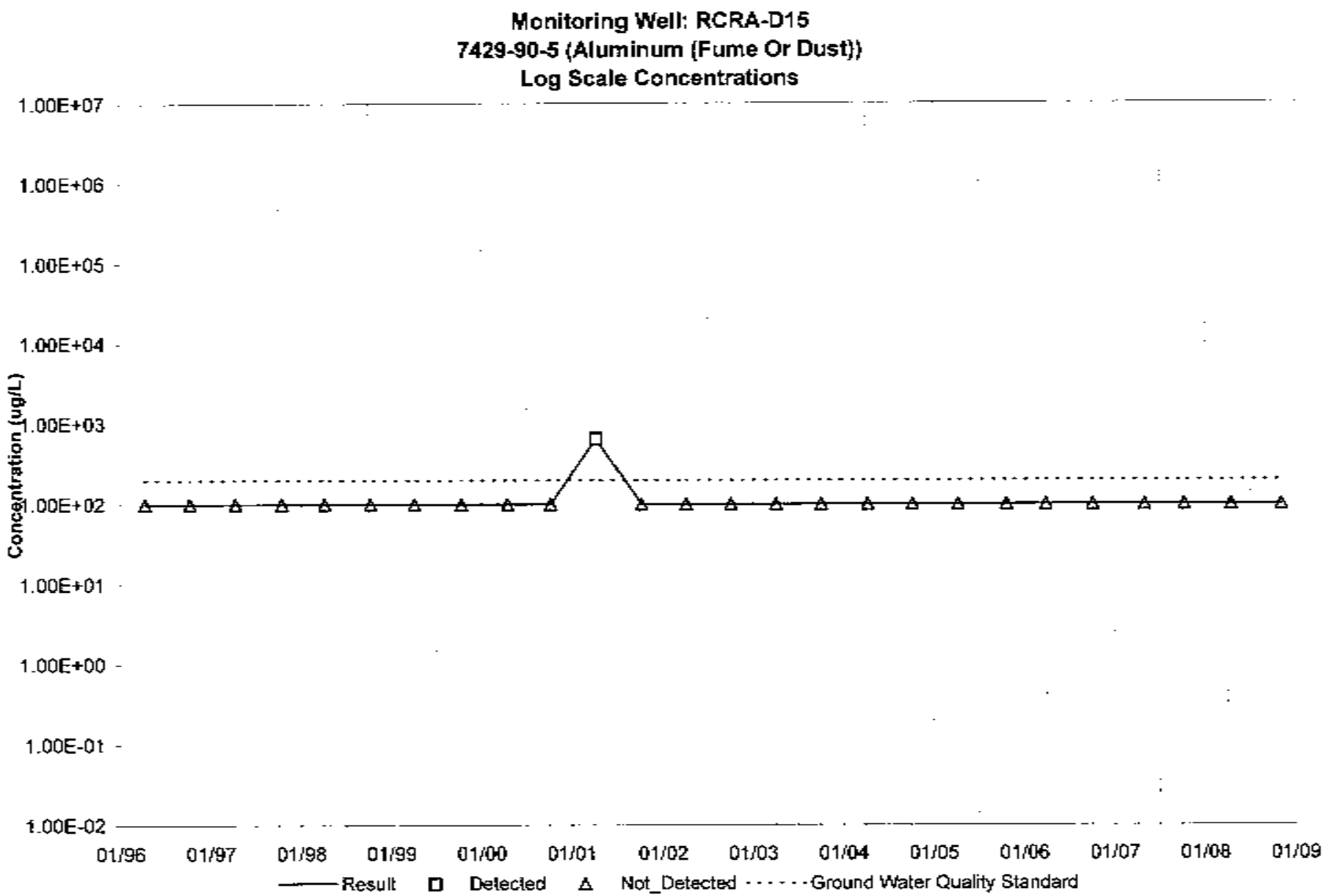

Monitoring Well: RCRA-D1
7429-90-5 (Aluminum (Fume Or Dust))
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

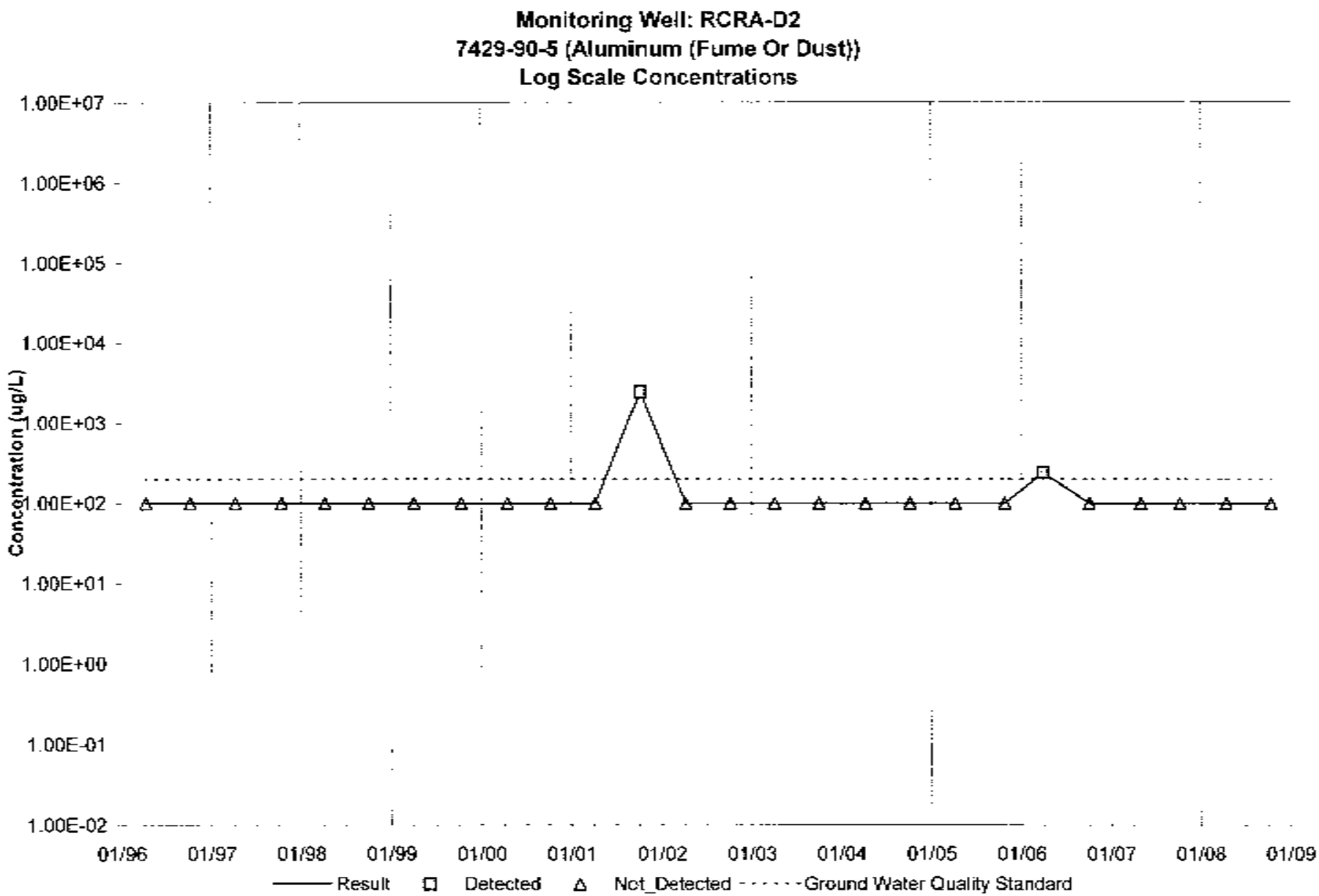

Monitoring Well: RCRA-D10
7429-90-5 (Aluminum (Fume Or Dust))
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

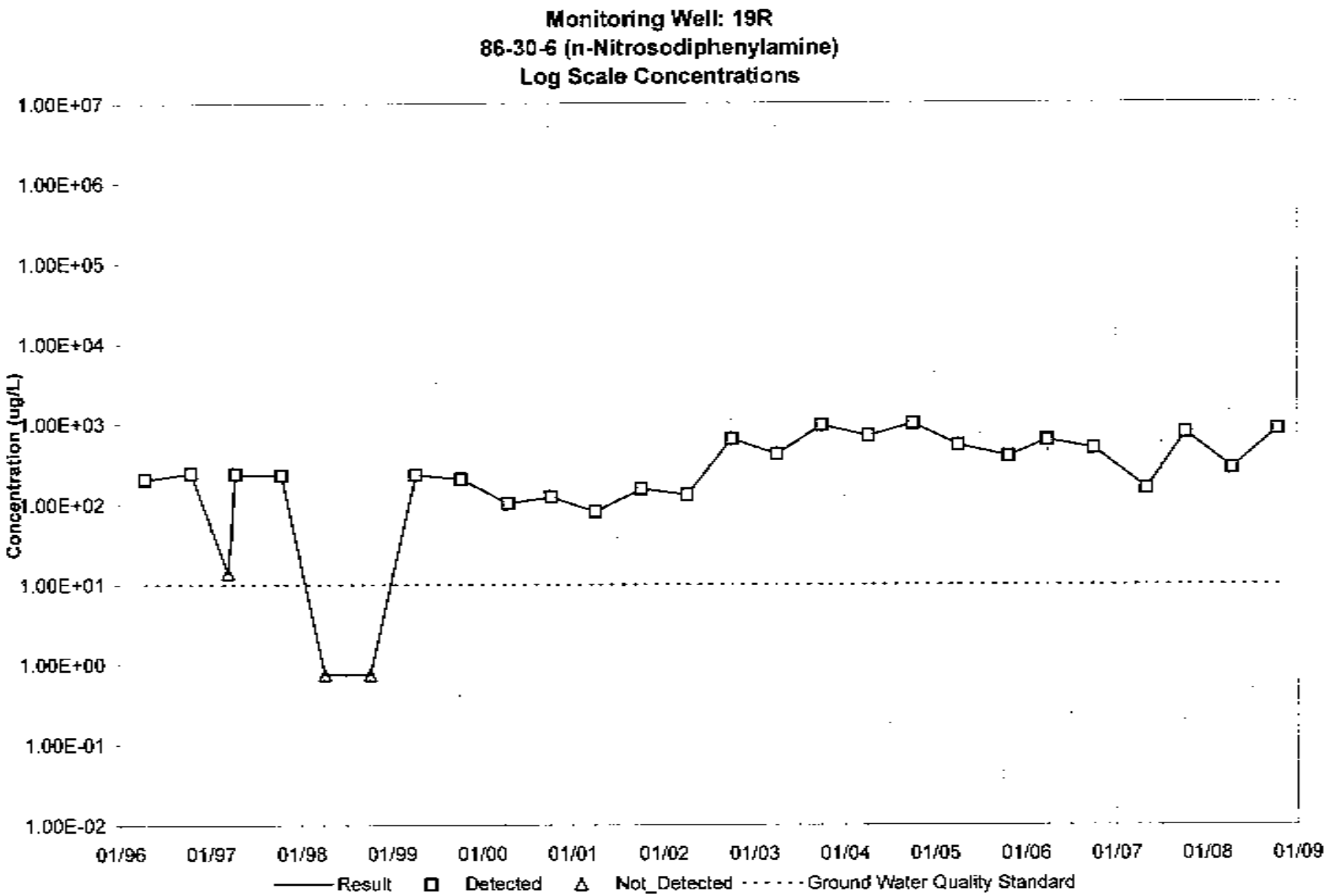

Monitoring Well: RCRA-D12
7429-90-5 (Aluminum (Fume Or Dust))
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

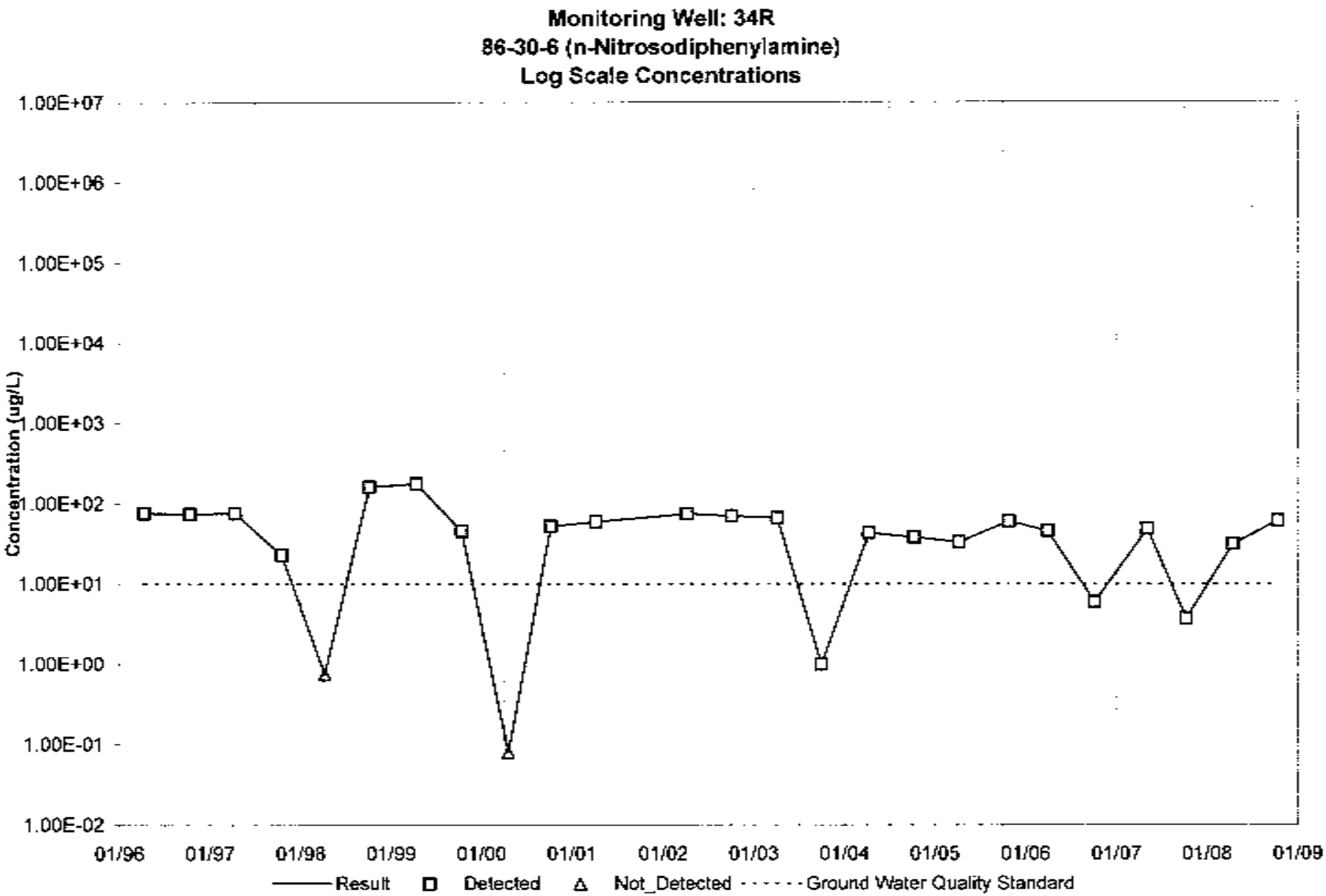

Monitoring Well: RCRA-D13
7429-90-5 (Aluminum (Fume Or Dust))
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

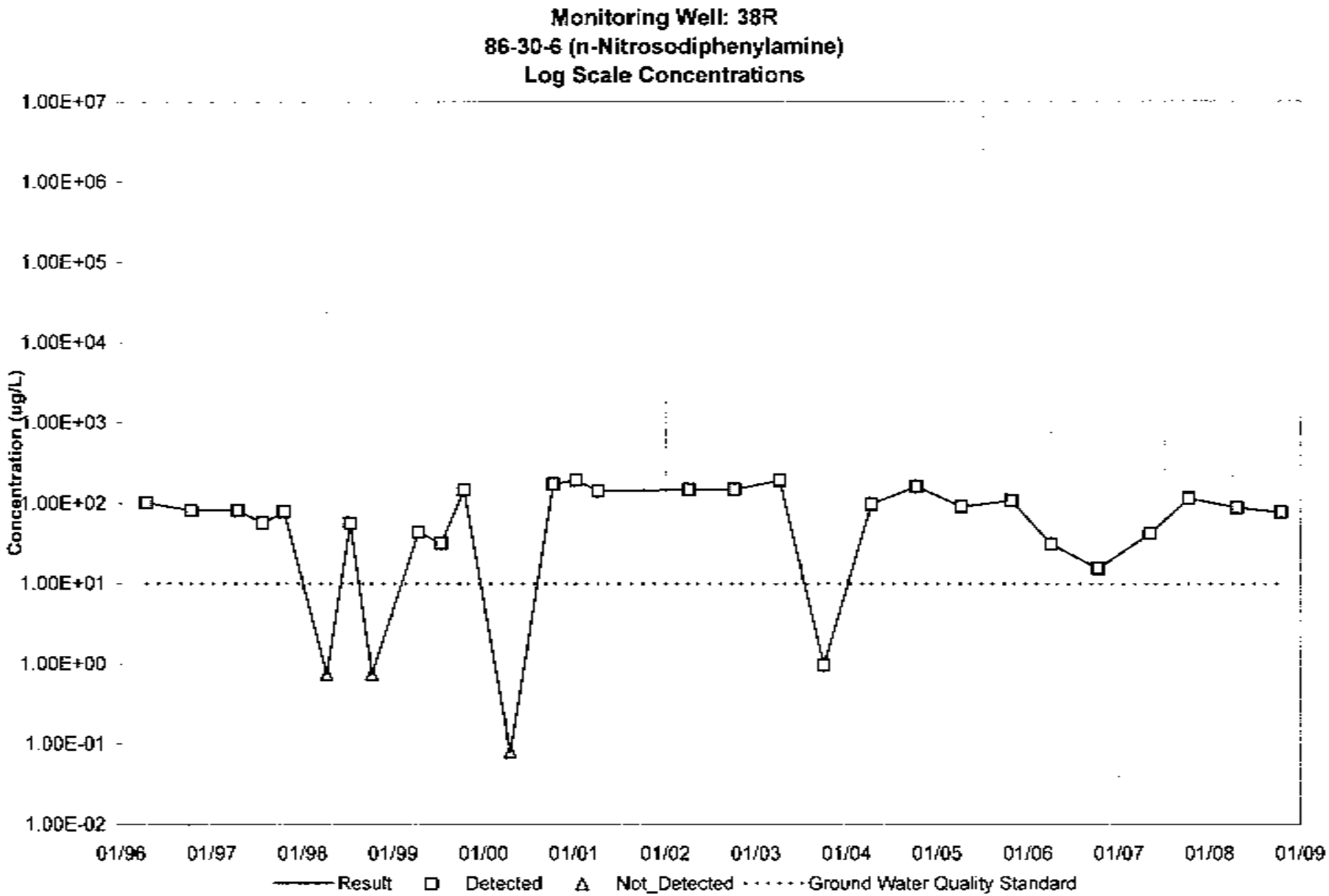

Monitoring Well: RCRA-D14
7429-90-5 (Aluminum (Fume Or Dust))
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

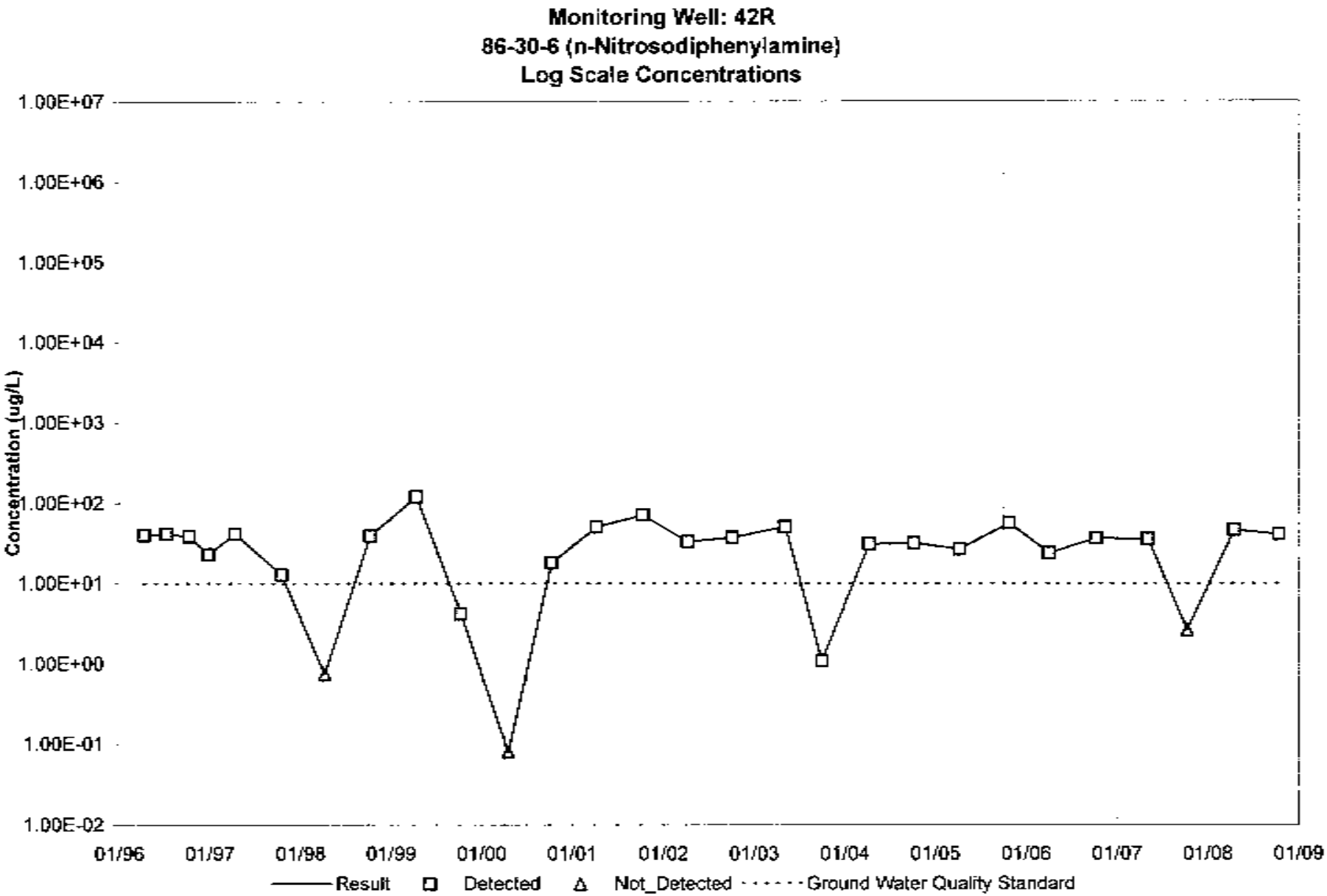

Monitoring Well: RCRA-D15
7429-90-5 (Aluminum (Fume Or Dust))
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

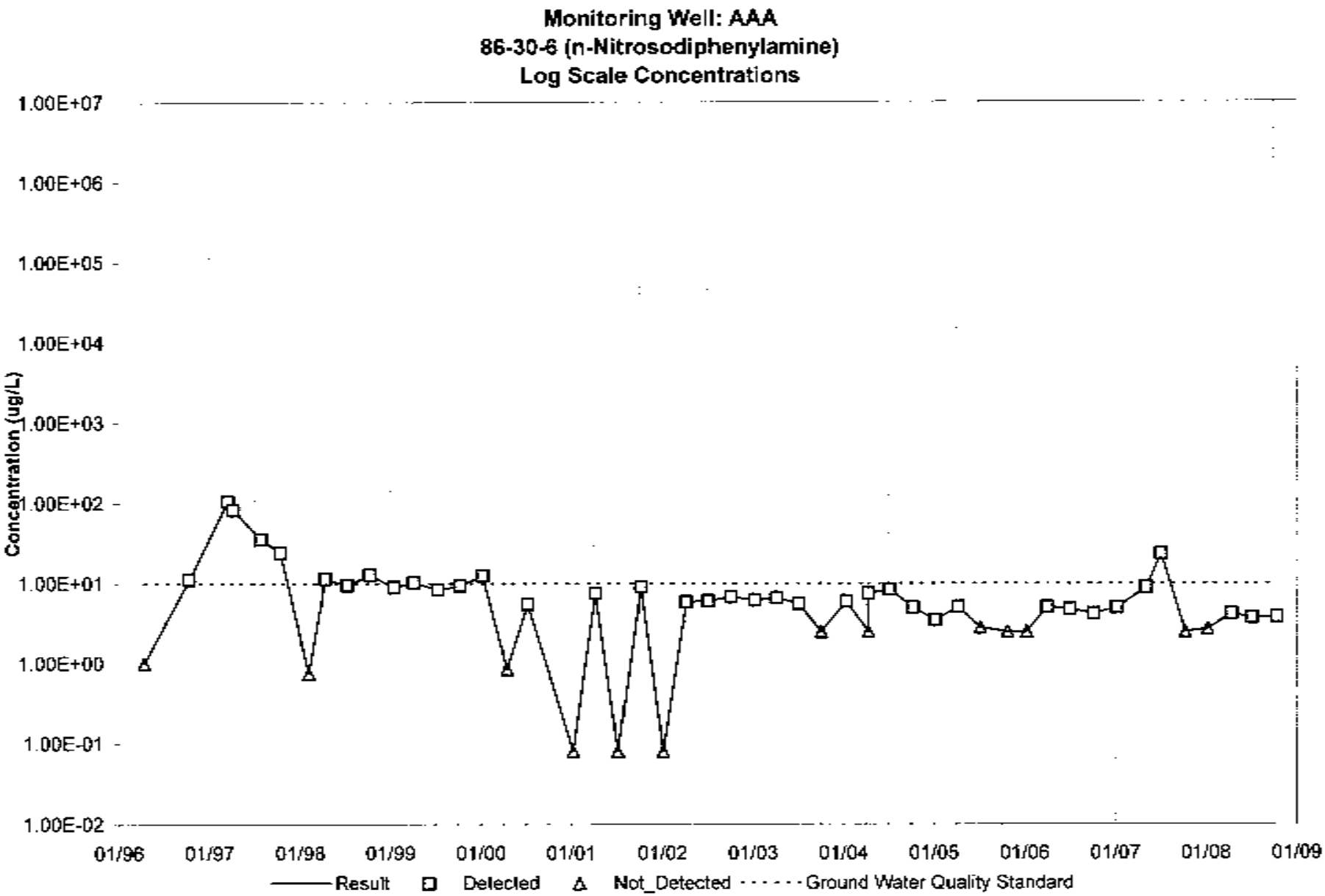

Monitoring Well: RCRA-D2
7429-90-5 (Aluminum (Fume Or Dust))
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

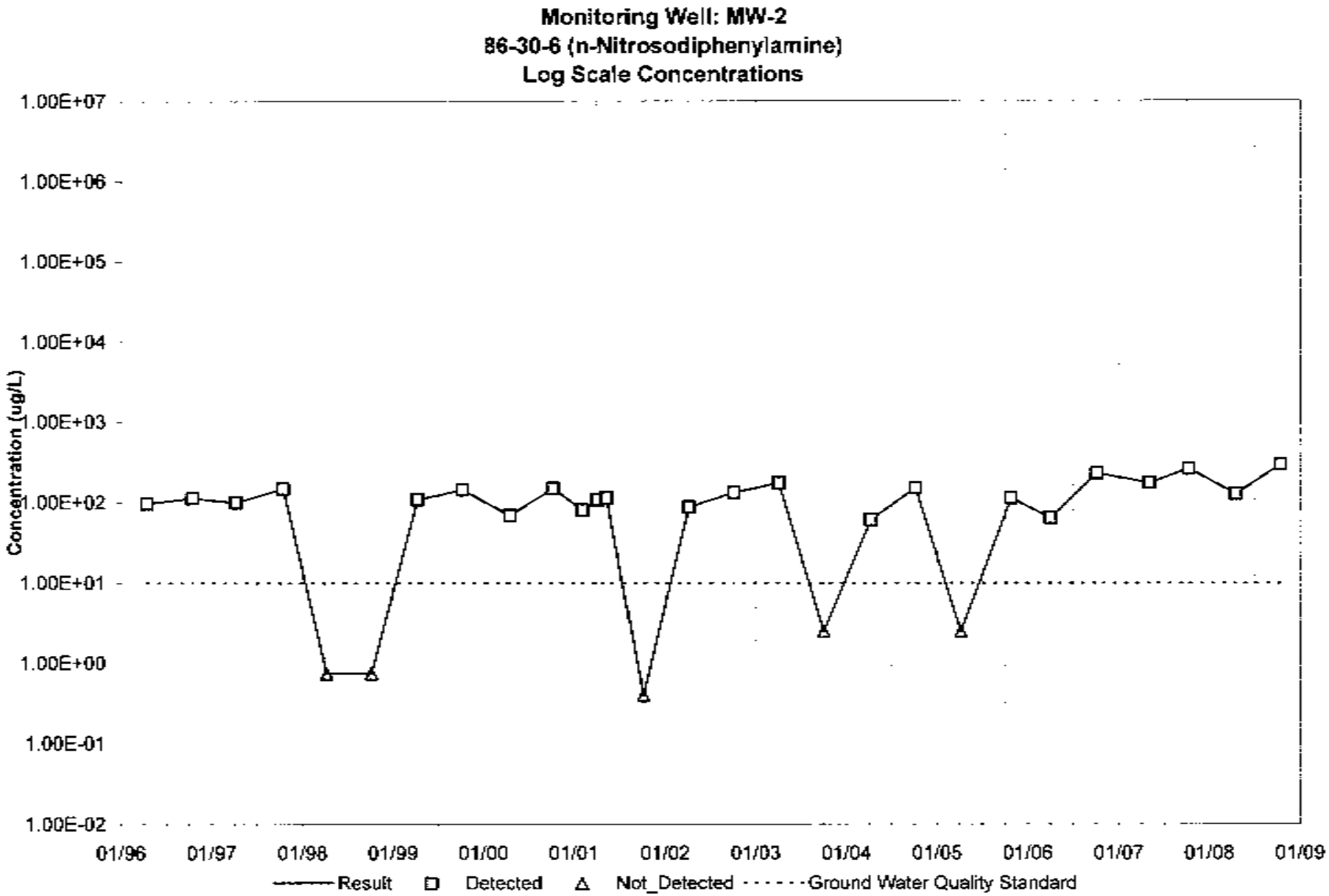

Monitoring Well: 19R
86-30-6 (n-Nitrosodiphenylamine)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard


Monitoring Well: 34R
86-30-6 (n-Nitrosodiphenylamine)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

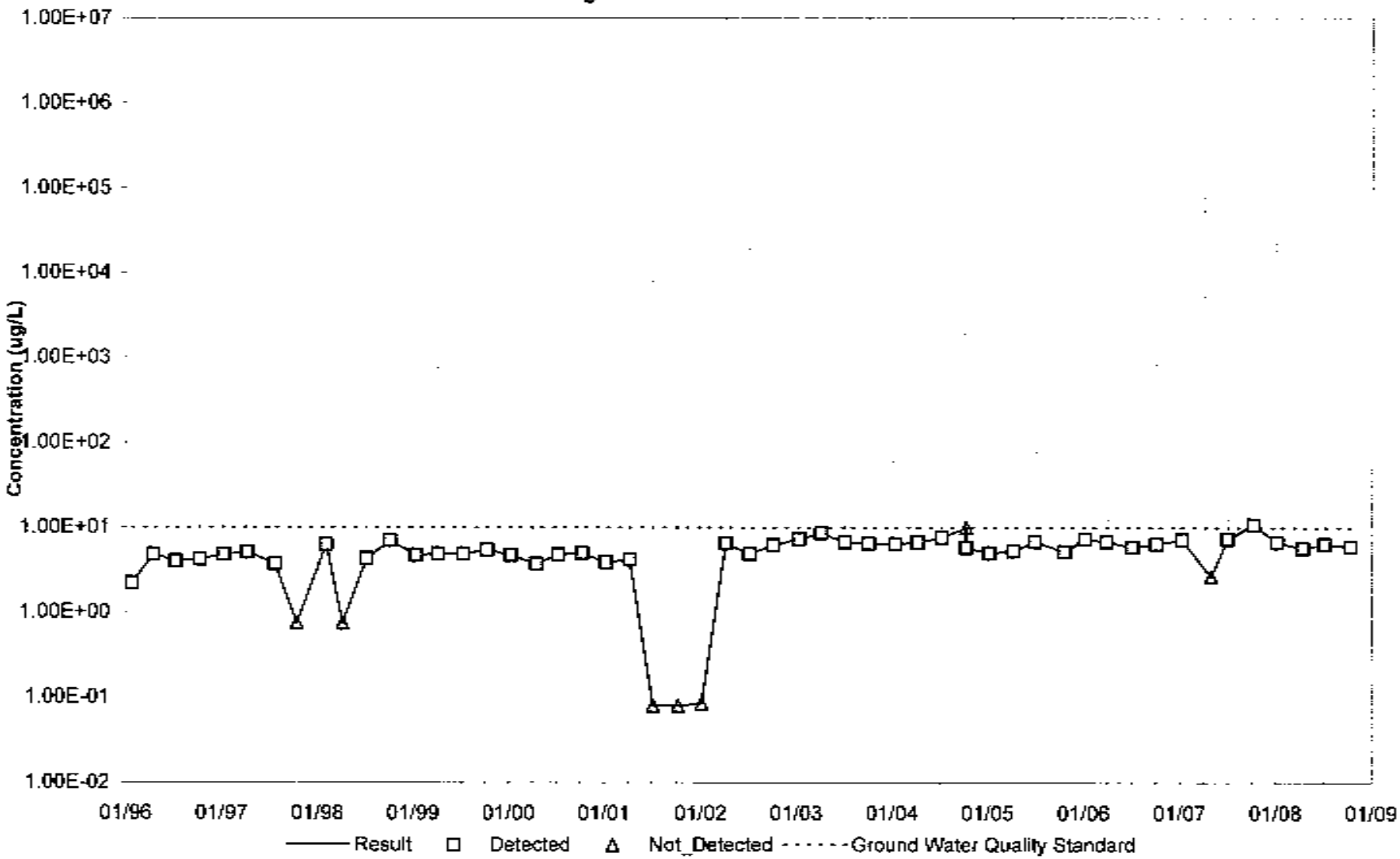

Monitoring Well: 38R
86-30-6 (n-Nitrosodiphenylamine)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

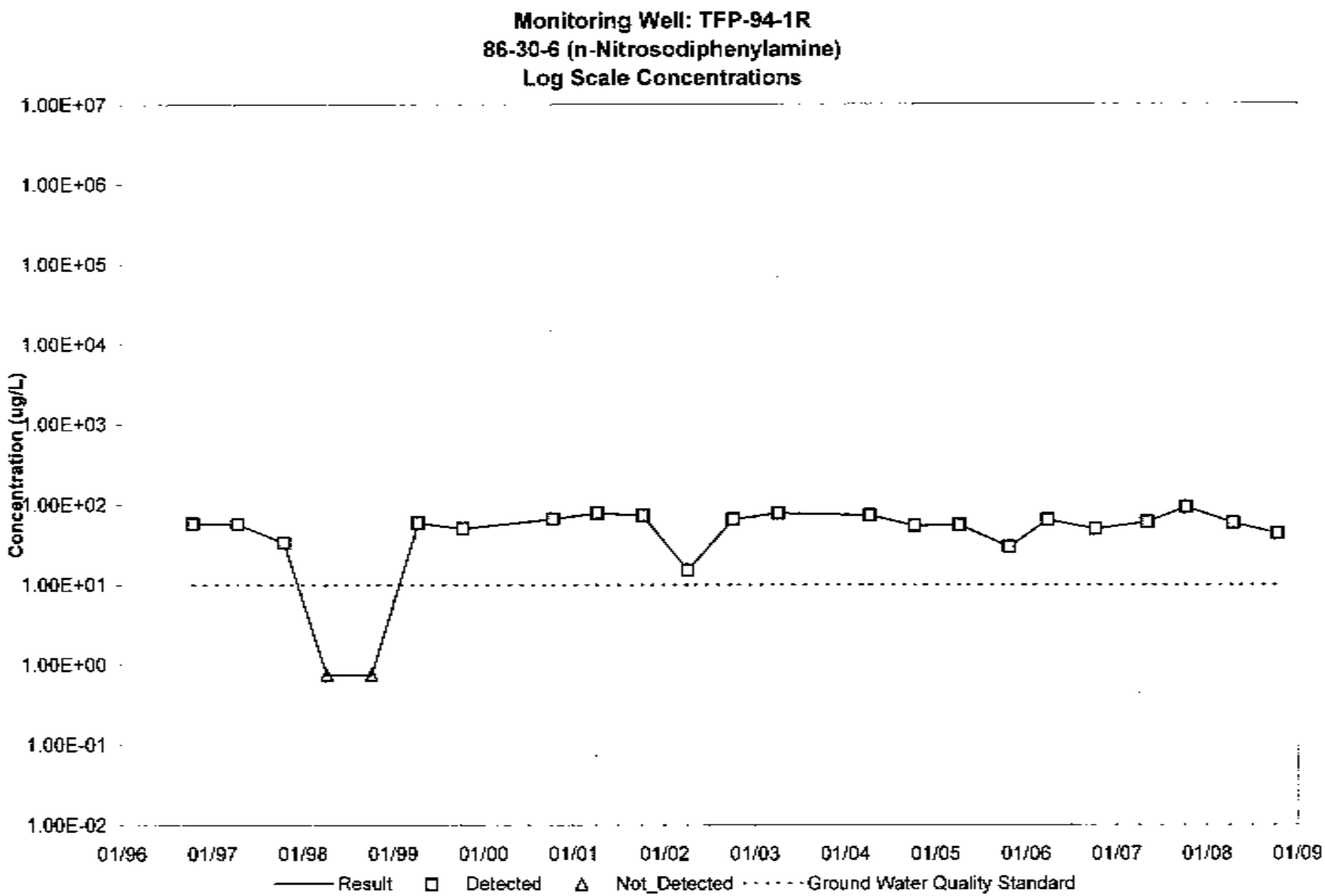

Monitoring Well: 42R
86-30-6 (n-Nitrosodiphenylamine)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

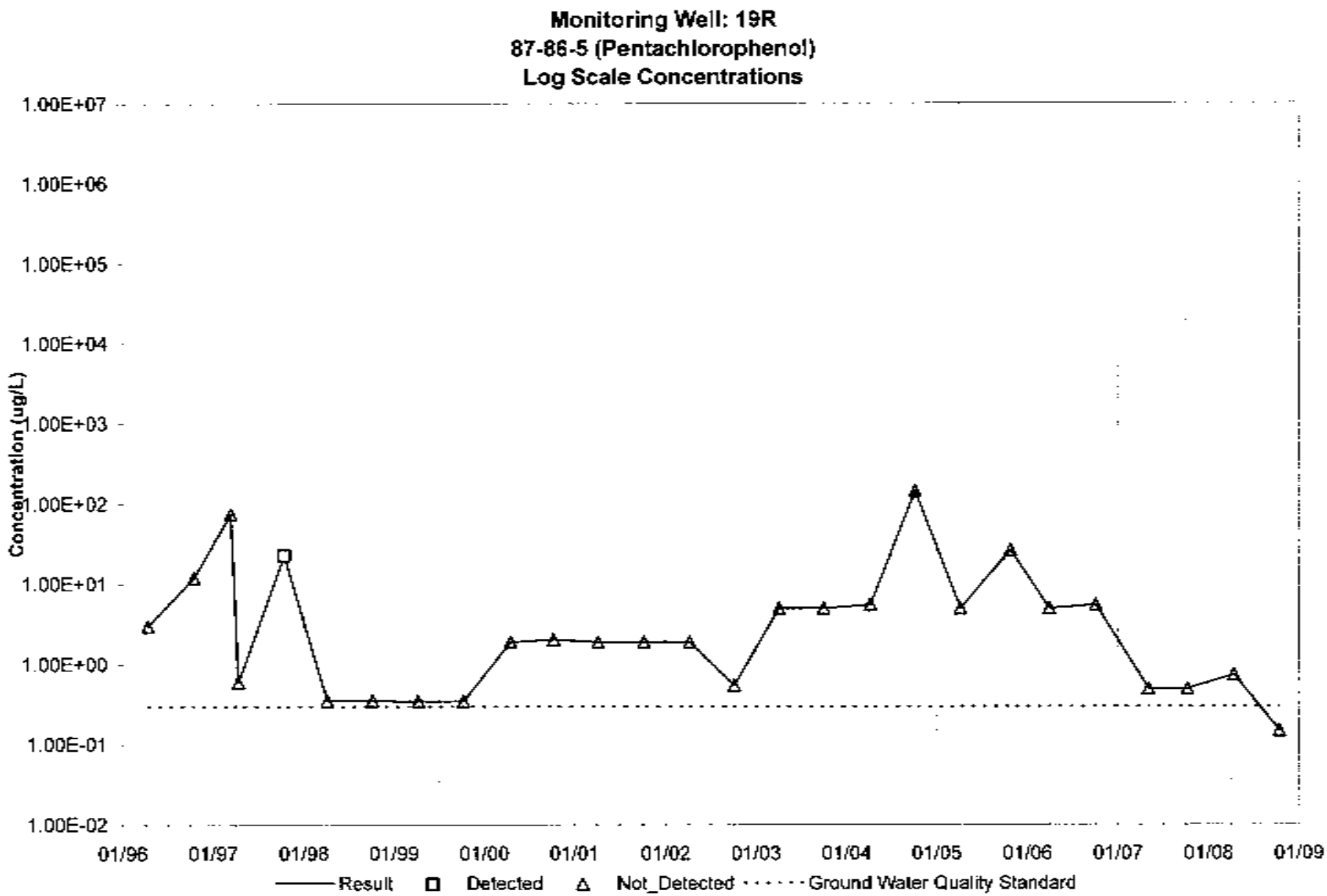

Monitoring Well: AAA
86-30-6 (n-Nitrosodiphenylamine)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

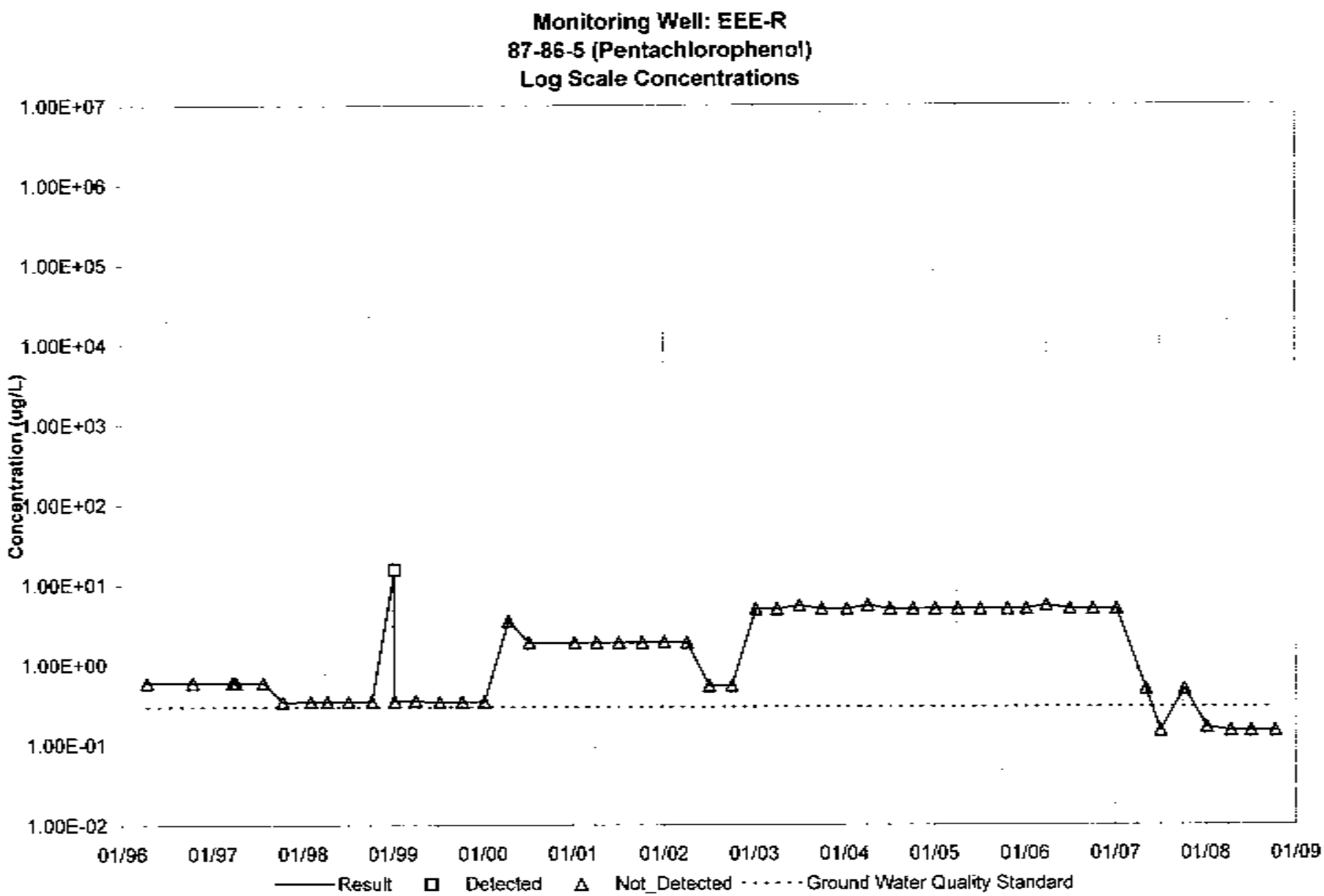

Monitoring Well: MW-2
86-30-6 (n-Nitrosodiphenylamine)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

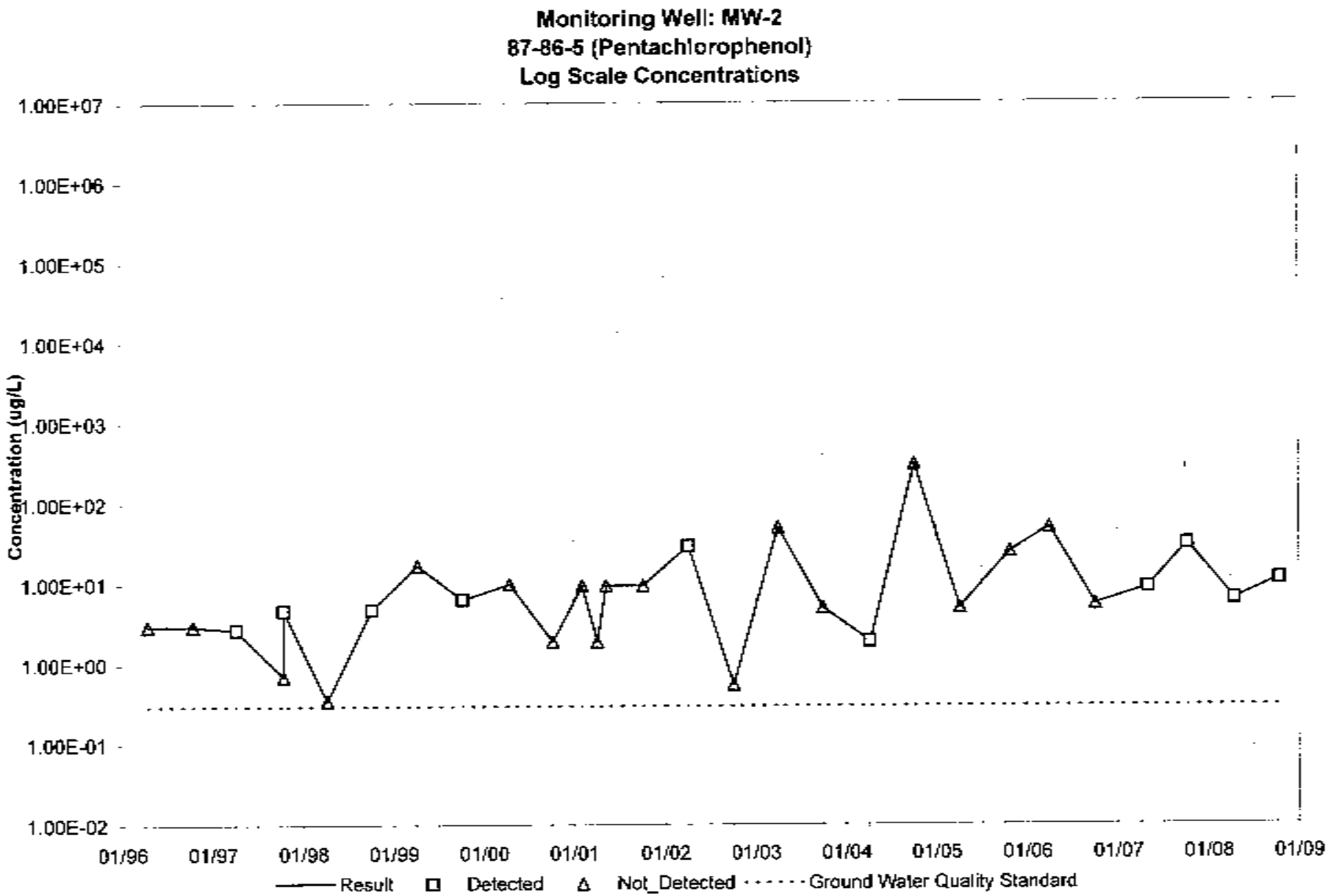
Monitoring Well: PW-3
86-30-6 (n-Nitrosodiphenylamine)
Log Scale Concentrations

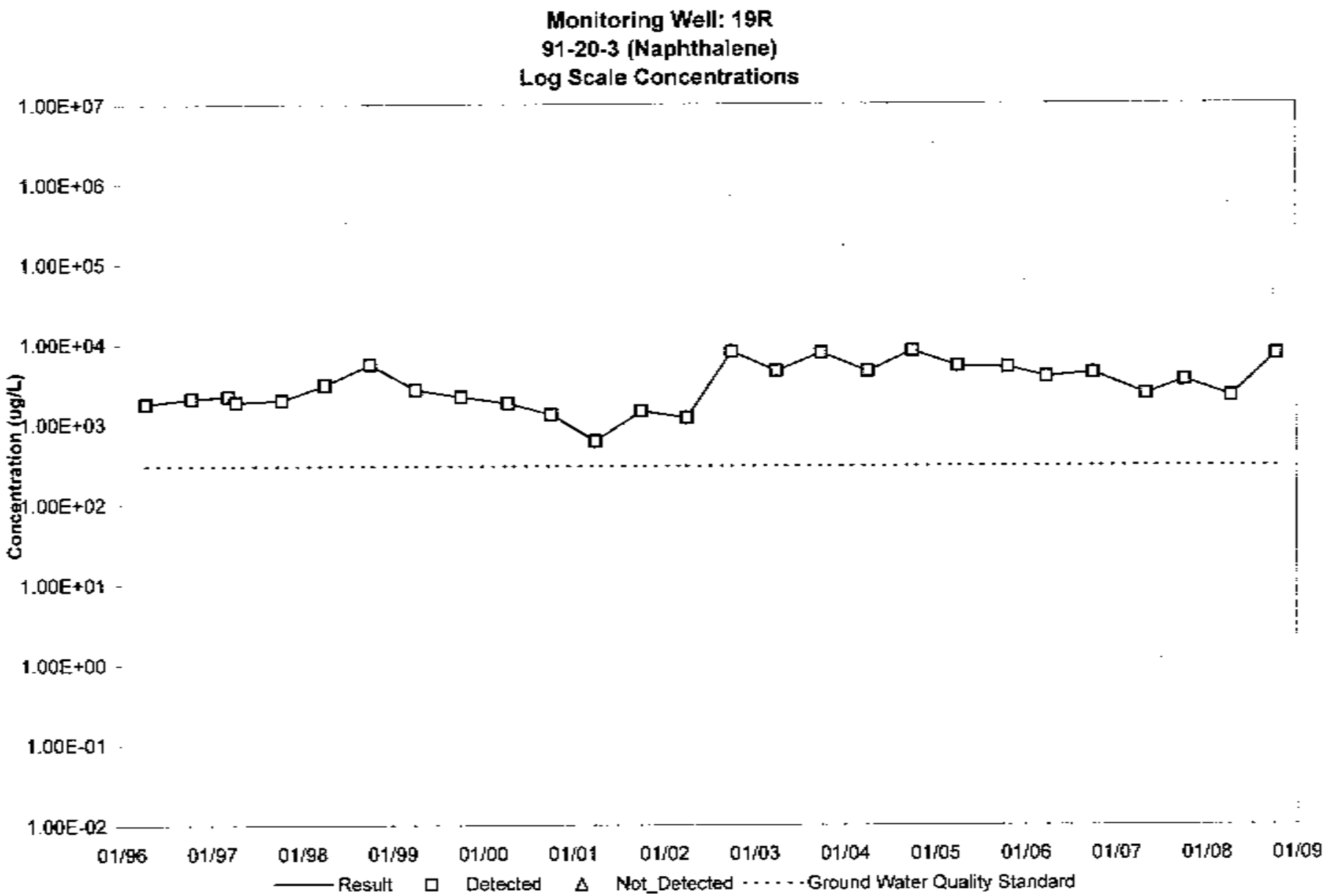


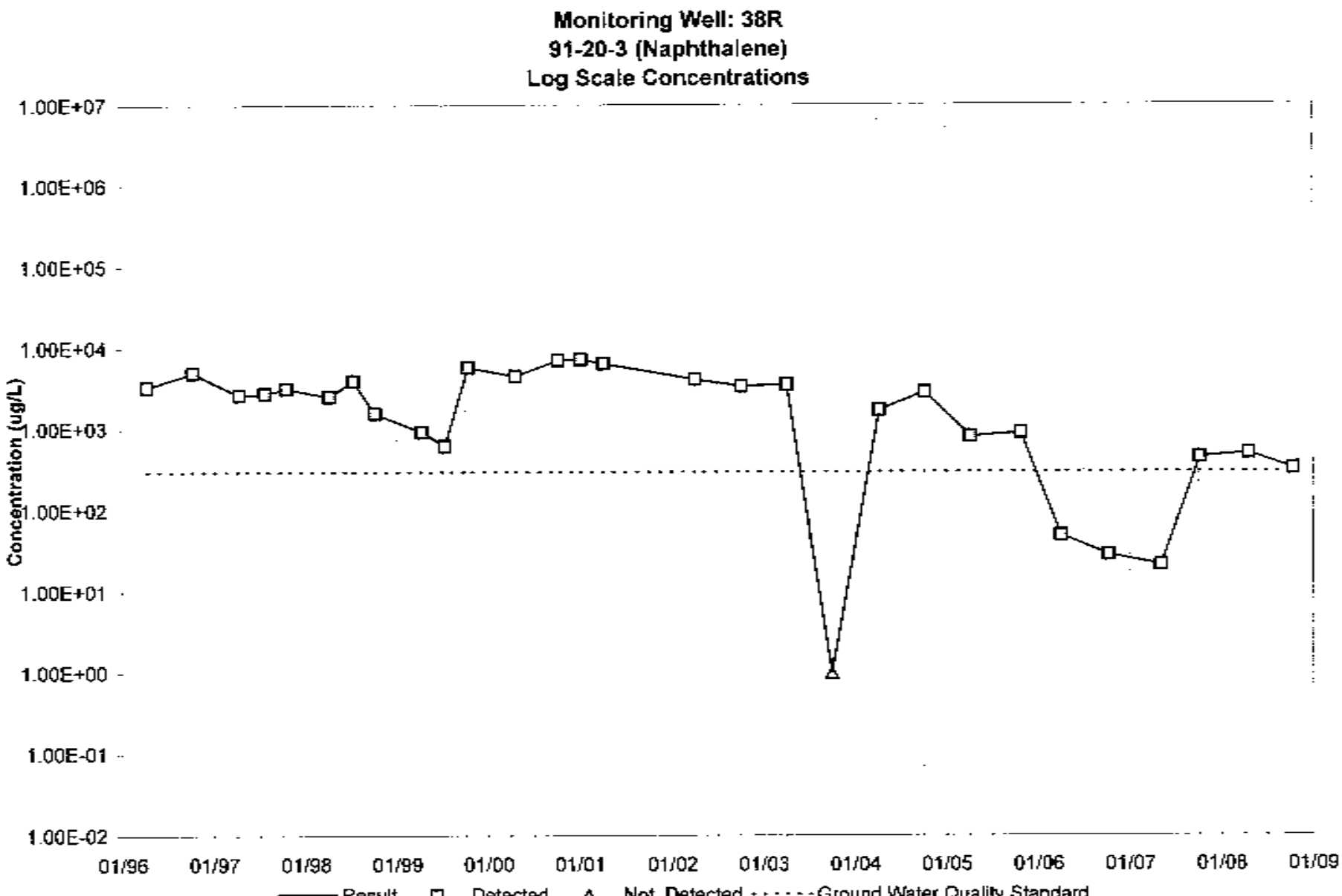

Monitoring Well: TFP-94-1R
86-30-6 (n-Nitrosodiphenylamine)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

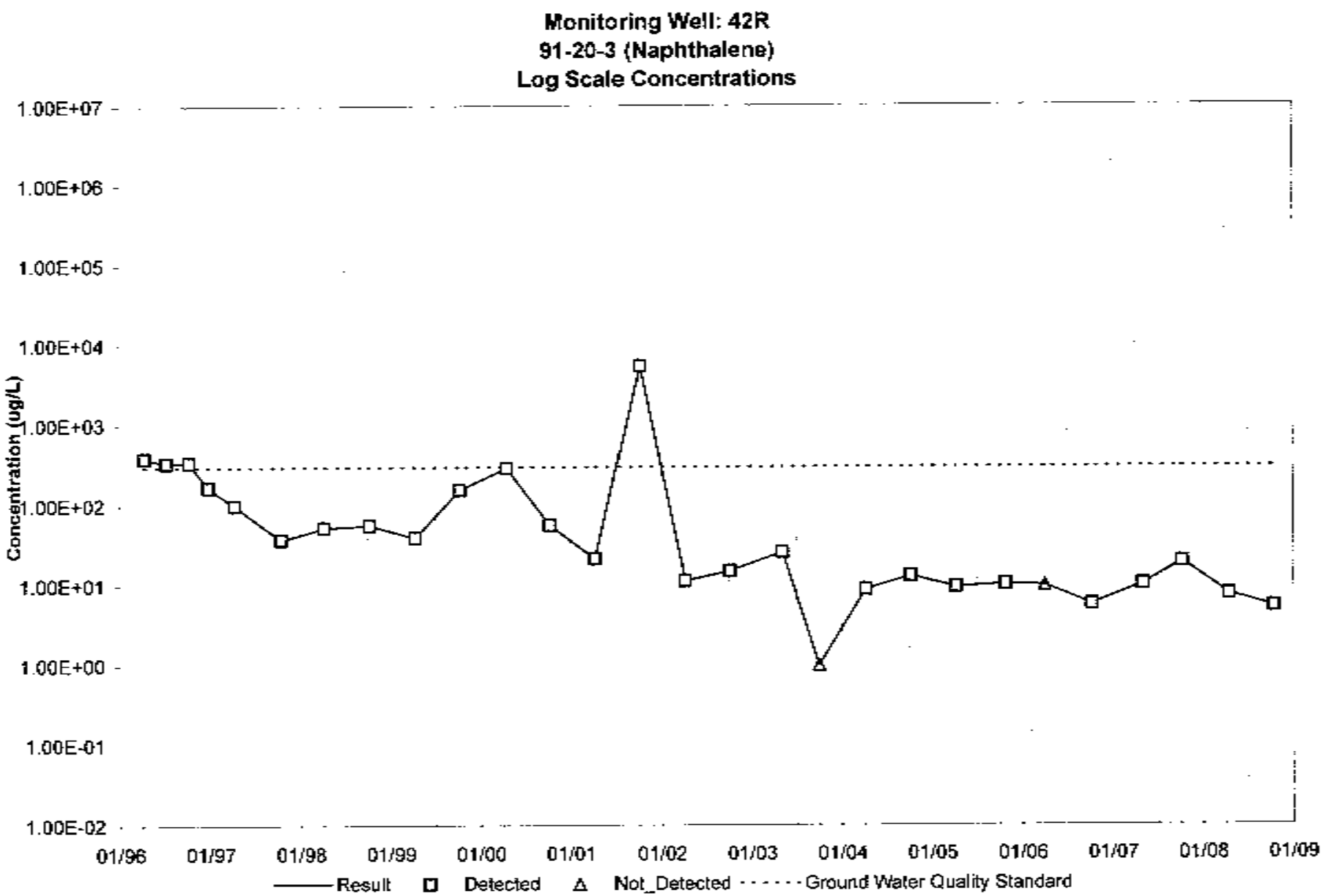

Monitoring Well: 19R
87-86-5 (Pentachlorophenol)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

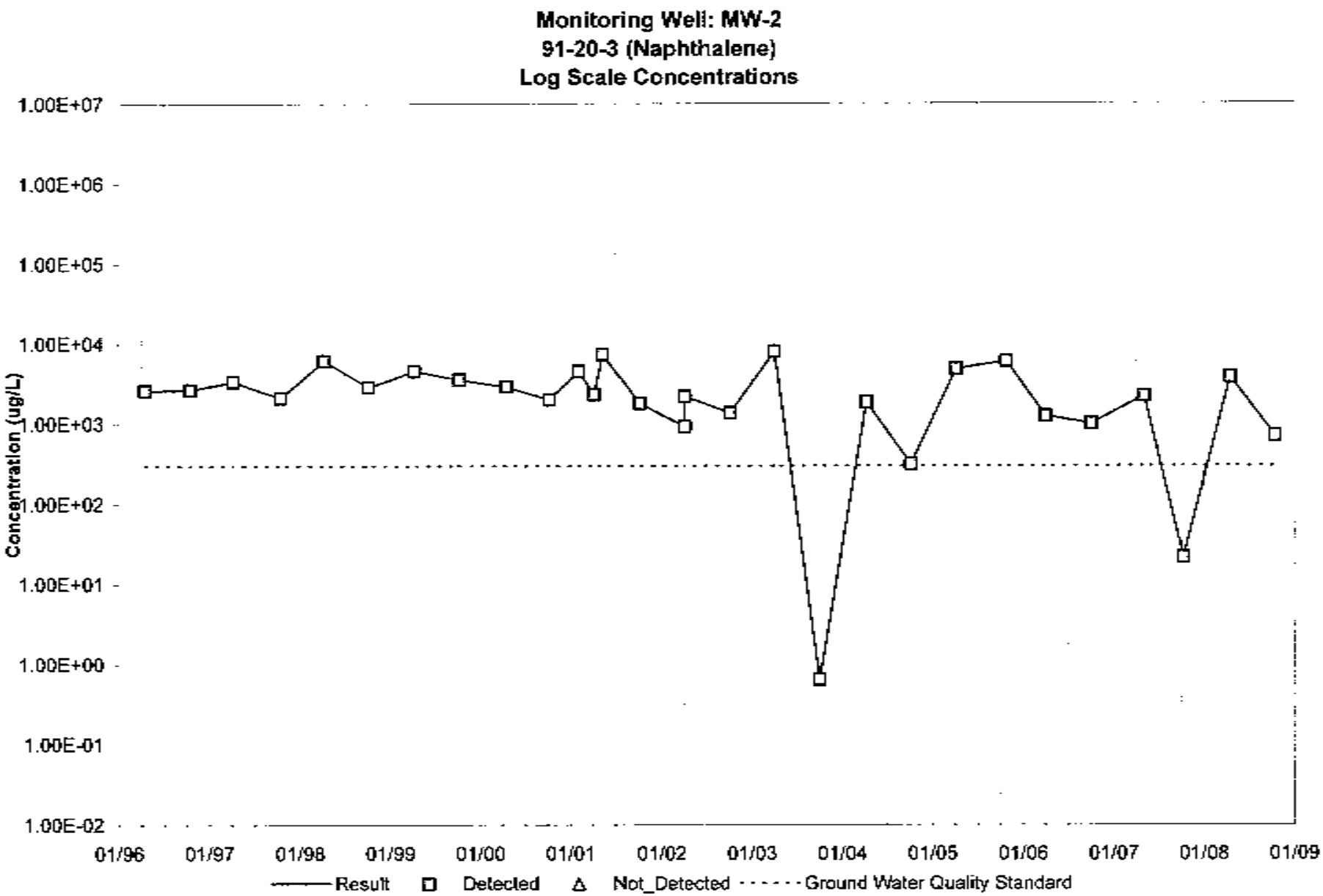

Monitoring Well: EEE-R
87-86-5 (Pentachlorophenol)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

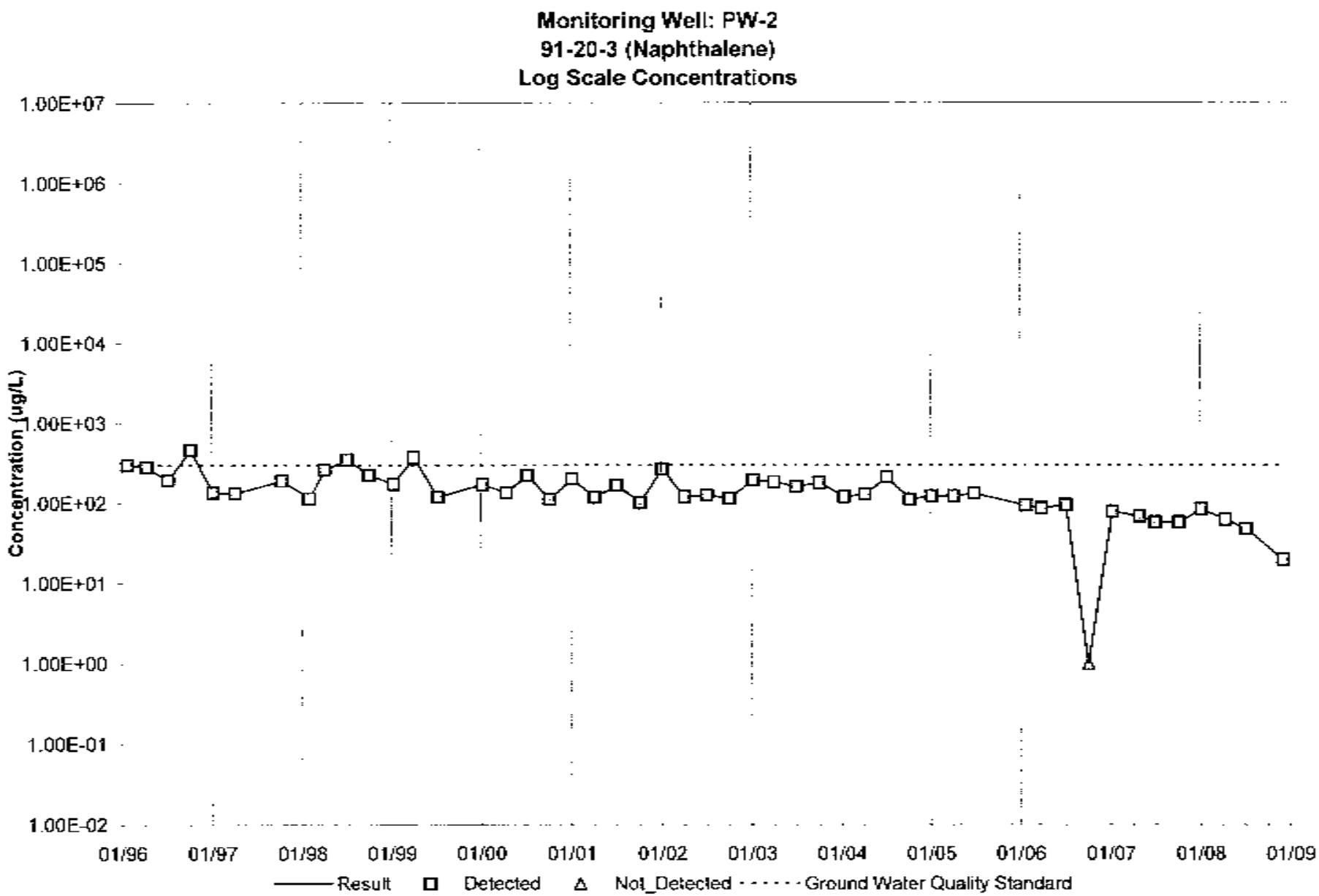

Monitoring Well: MW-2
87-86-5 (Pentachlorophenol)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

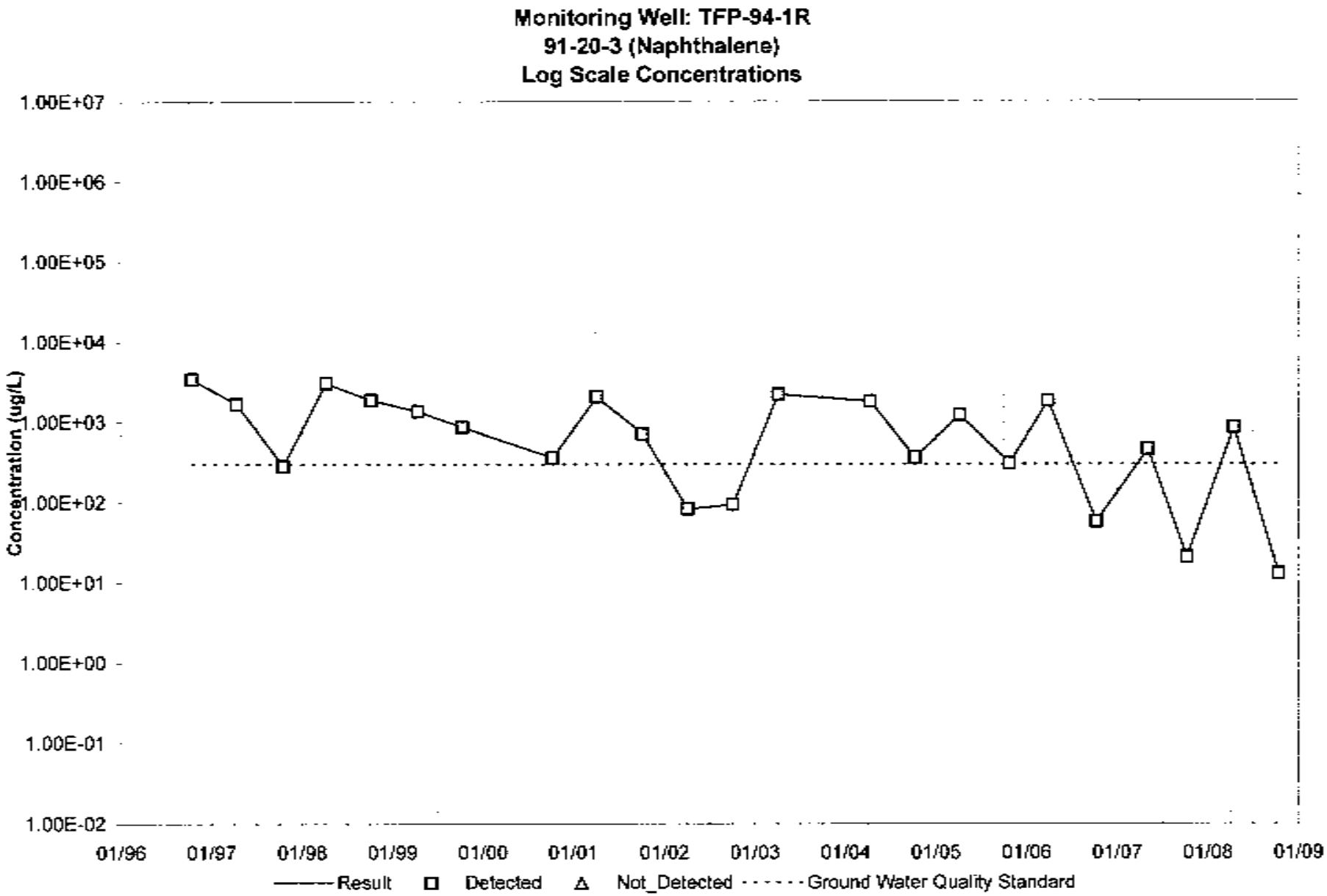

Monitoring Well: 19R
91-20-3 (Naphthalene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

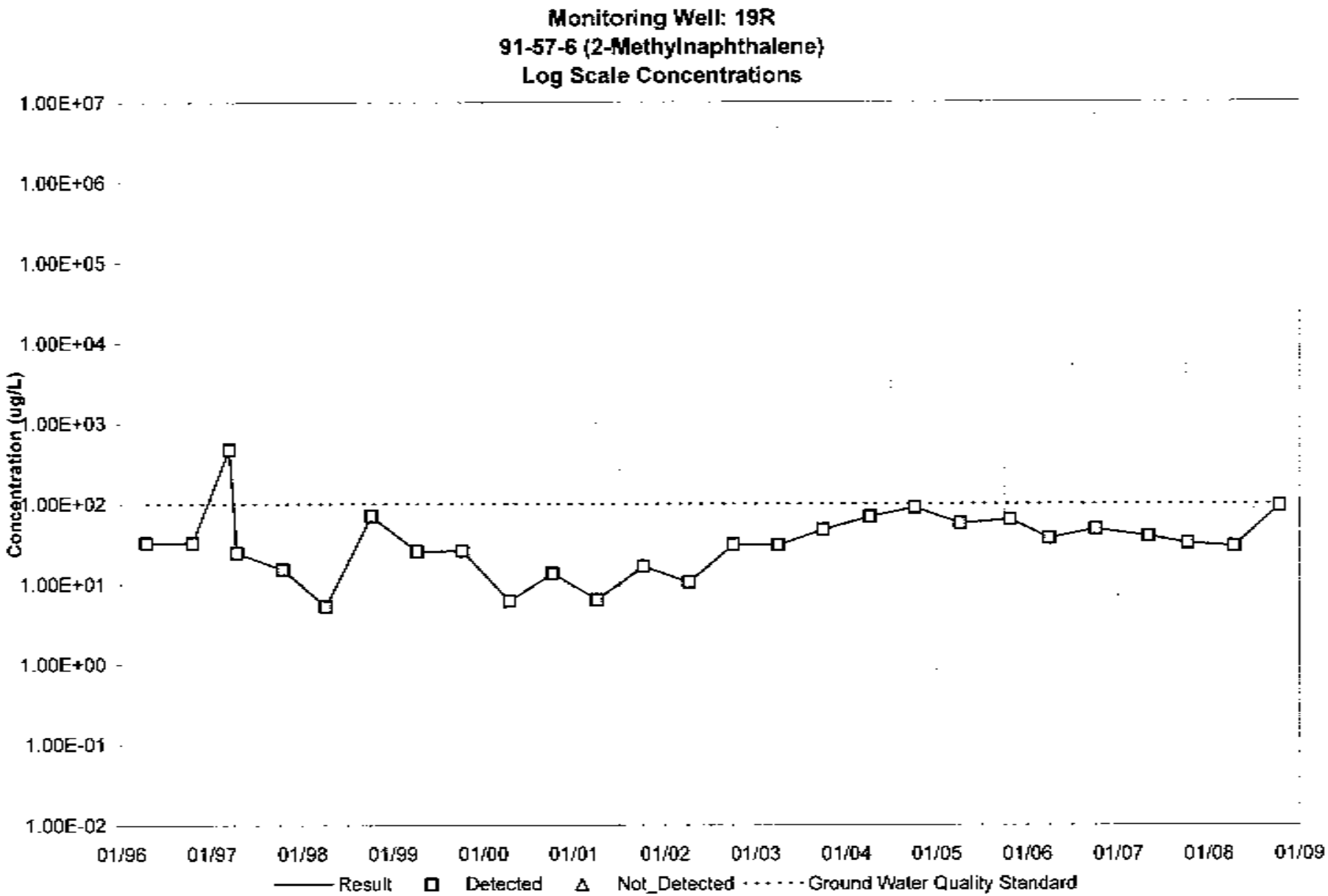

Monitoring Well: 38R
91-20-3 (Naphthalene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

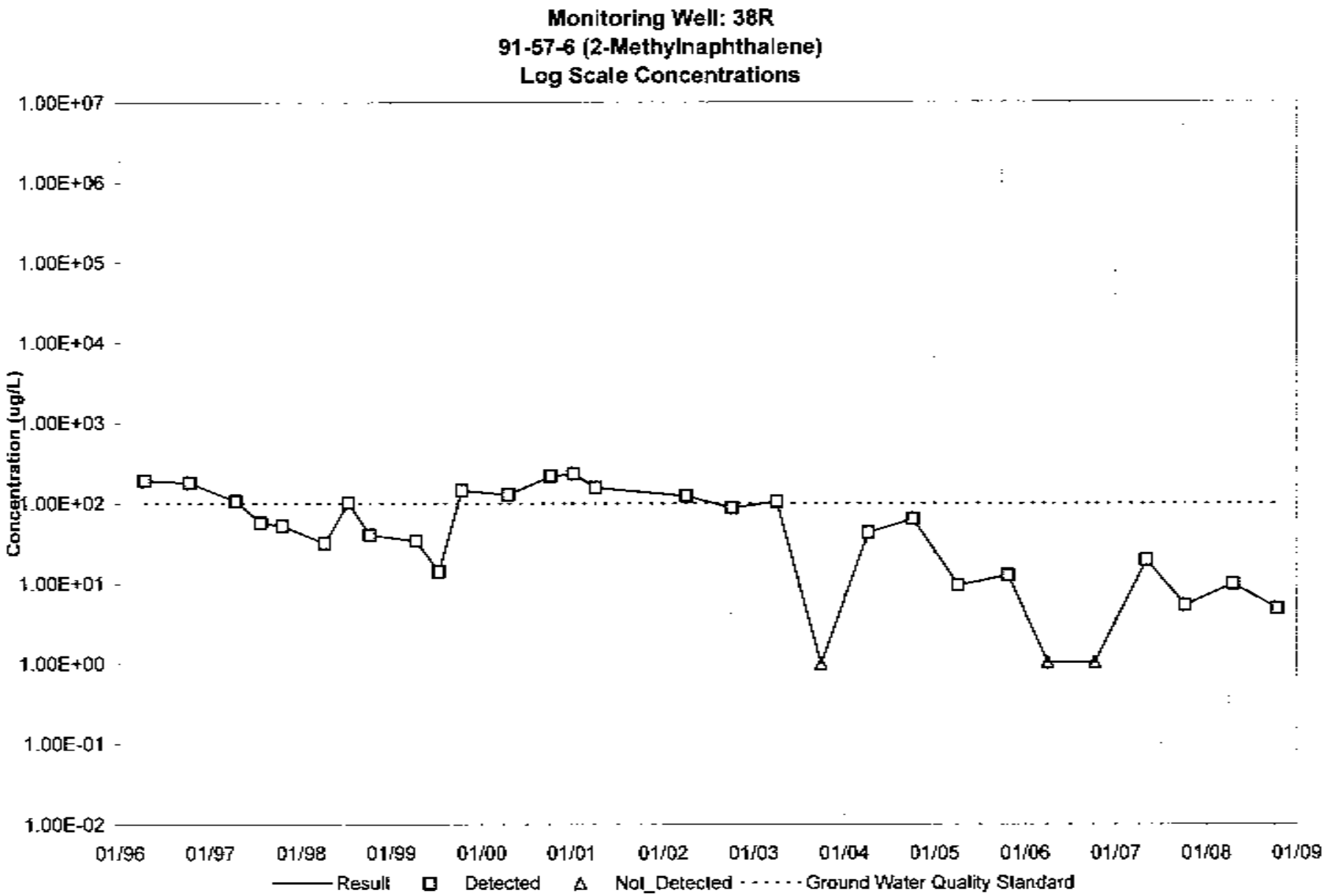

Monitoring Well: 42R
91-20-3 (Naphthalene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

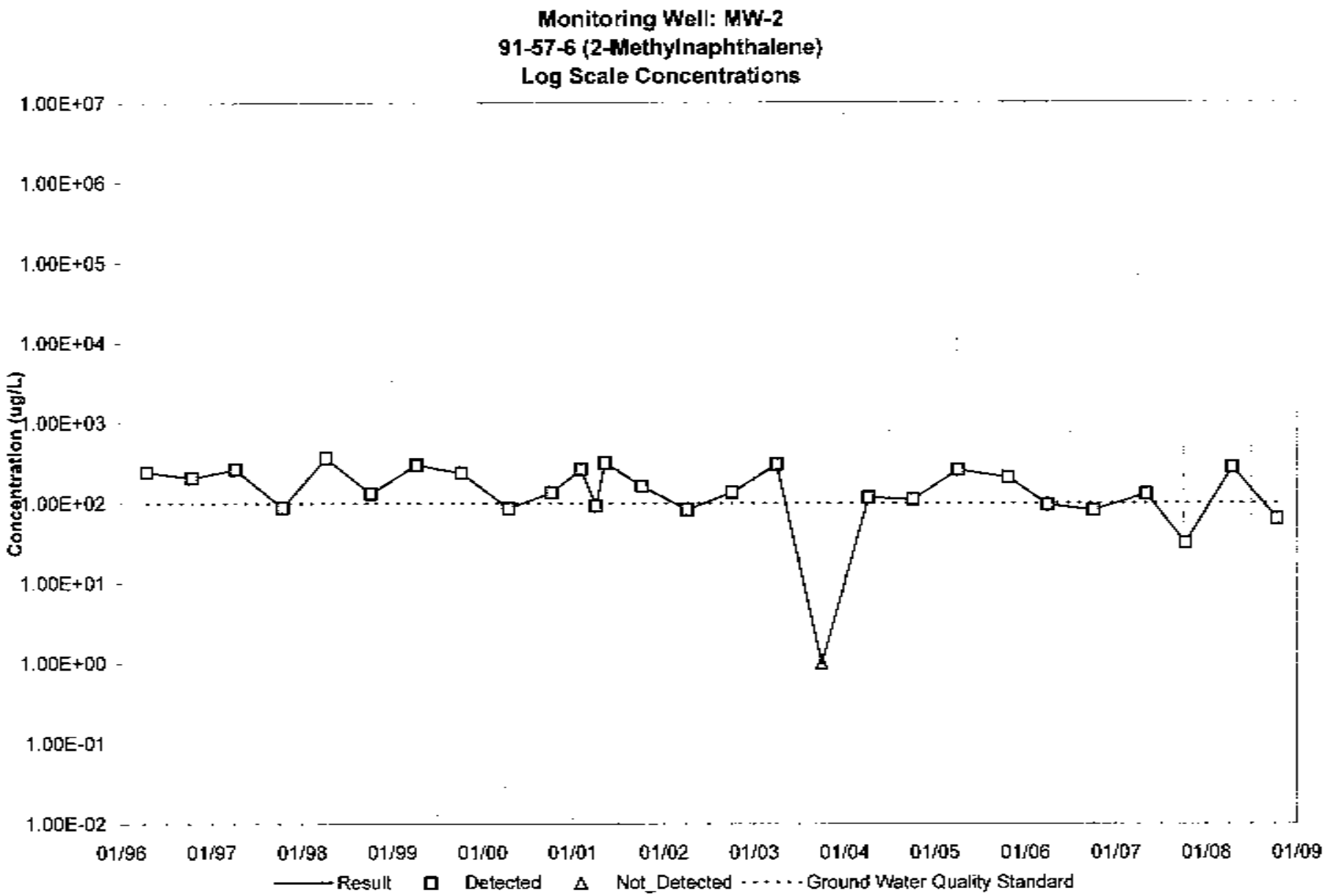

Monitoring Well: MW-2
91-20-3 (Naphthalene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

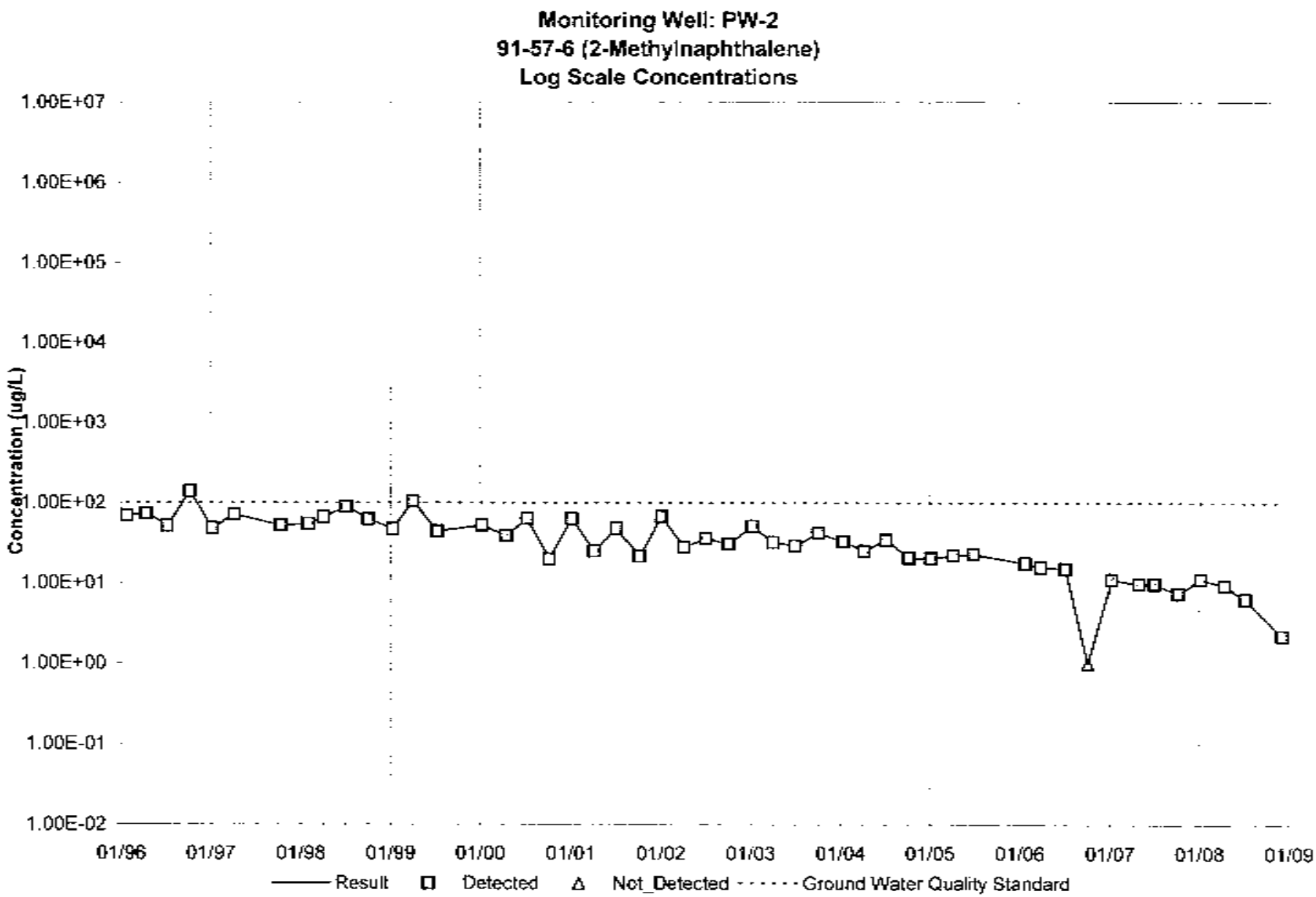

Monitoring Well: PW-2
91-20-3 (Naphthalene)
Log Scale Concentrations
Concentration (µg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

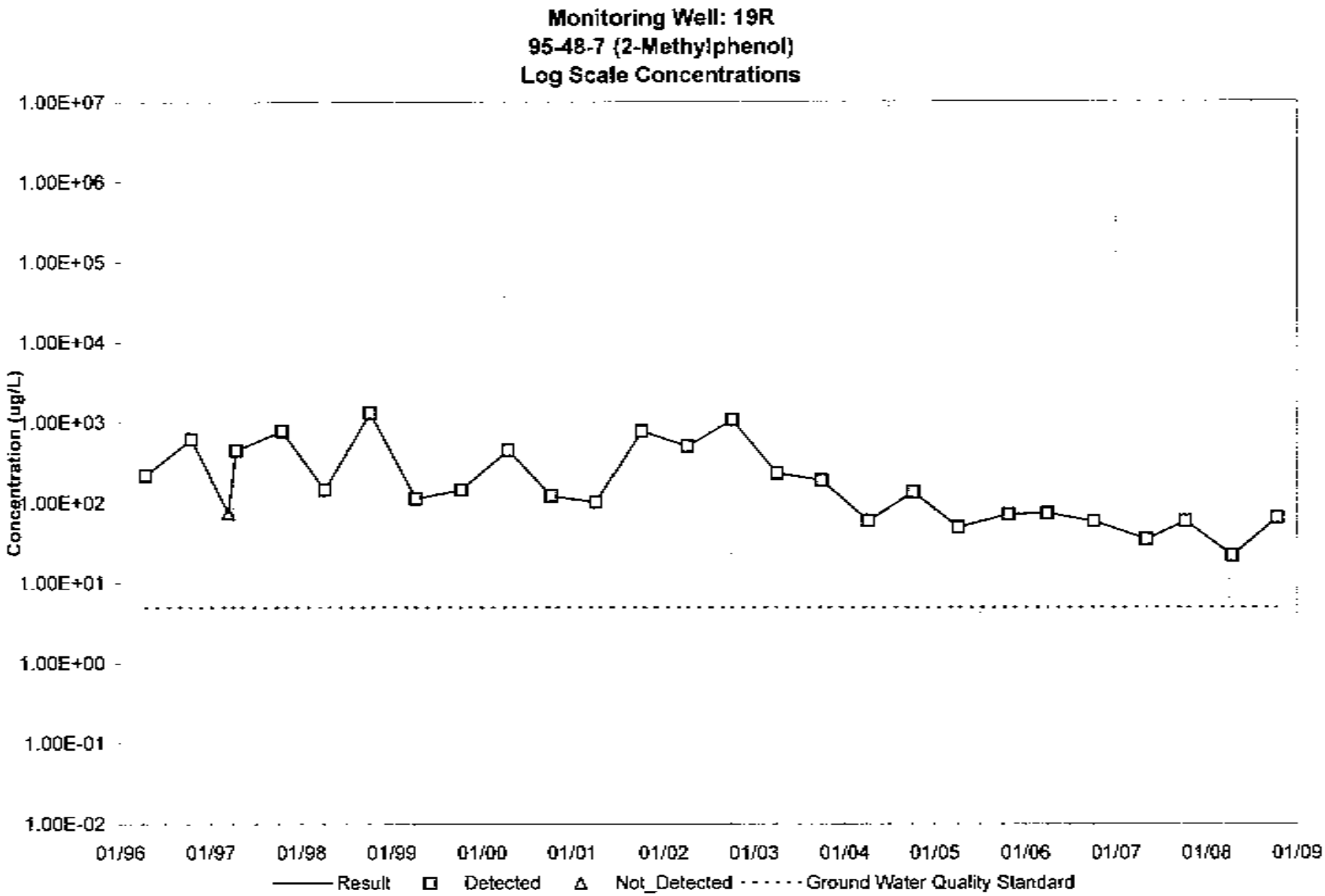

Monitoring Well: TFP-94-1R
91-20-3 (Naphthalene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

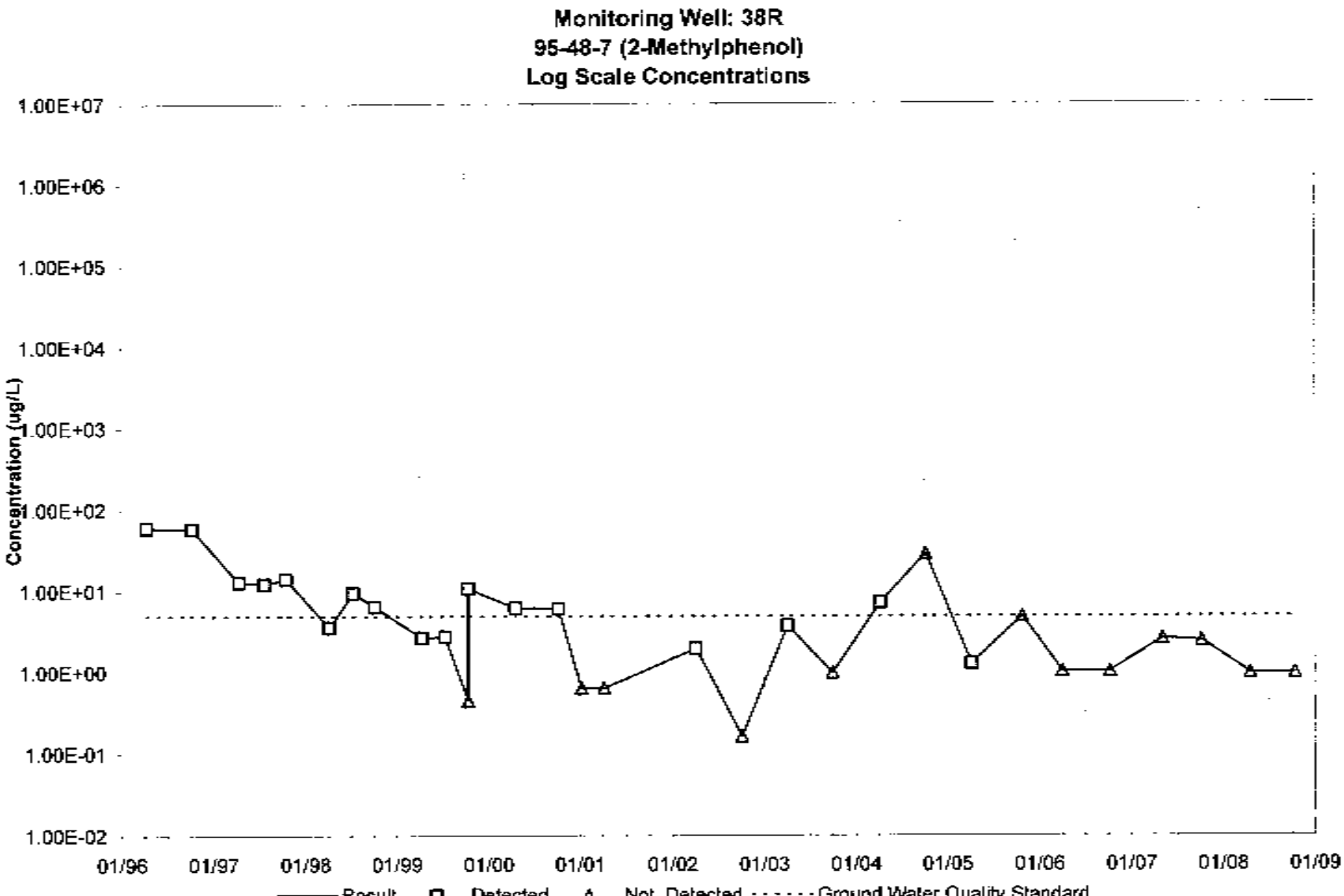

Monitoring Well: 19R
91-57-6 (2-Methylnaphthalene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

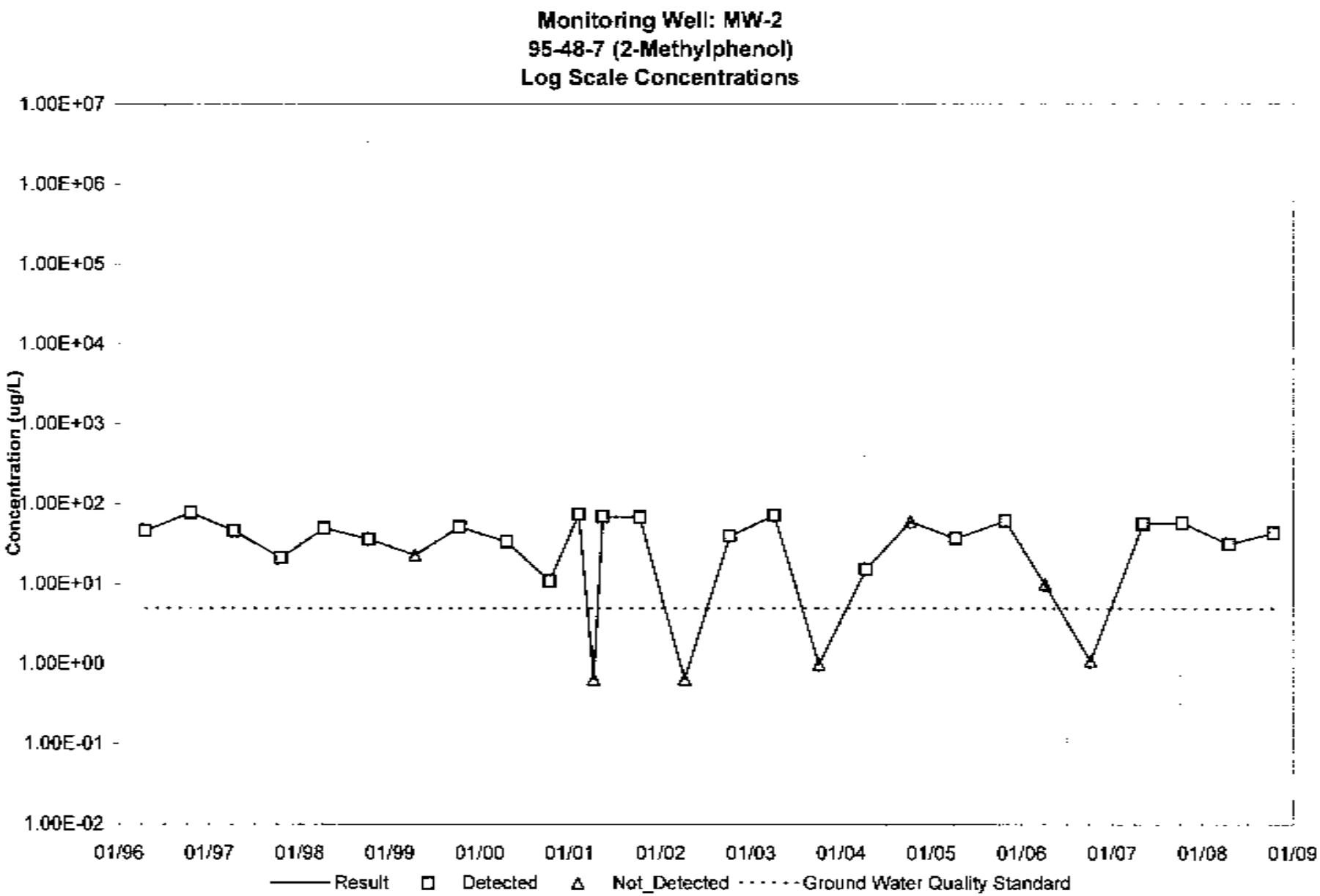

Monitoring Well: 38R
91-57-6 (2-Methylnaphthalene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

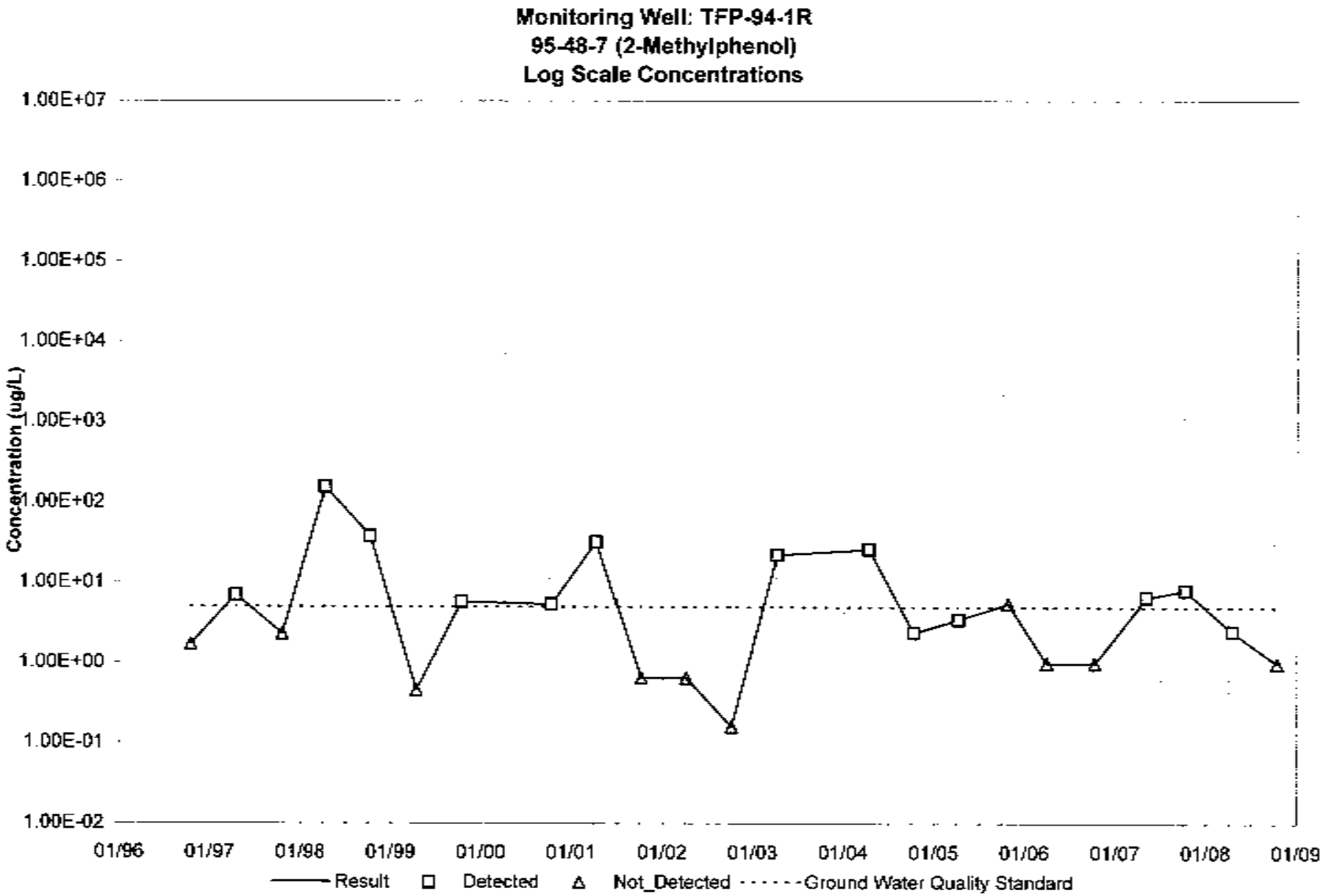

Monitoring Well: MW-2
91-57-6 (2-Methylnaphthalene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

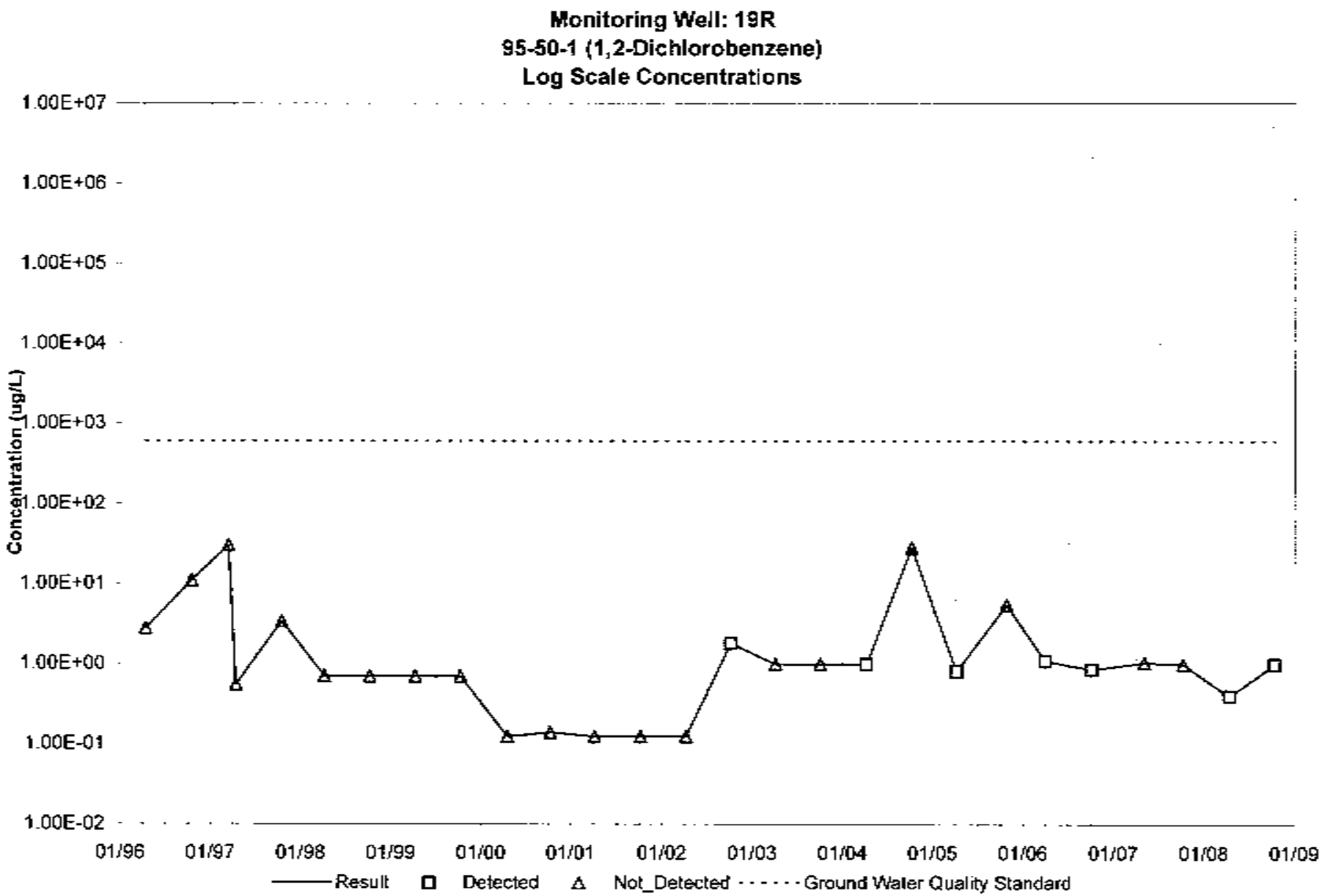

Monitoring Well: PW-2
91-57-6 (2-Methylnaphthalene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

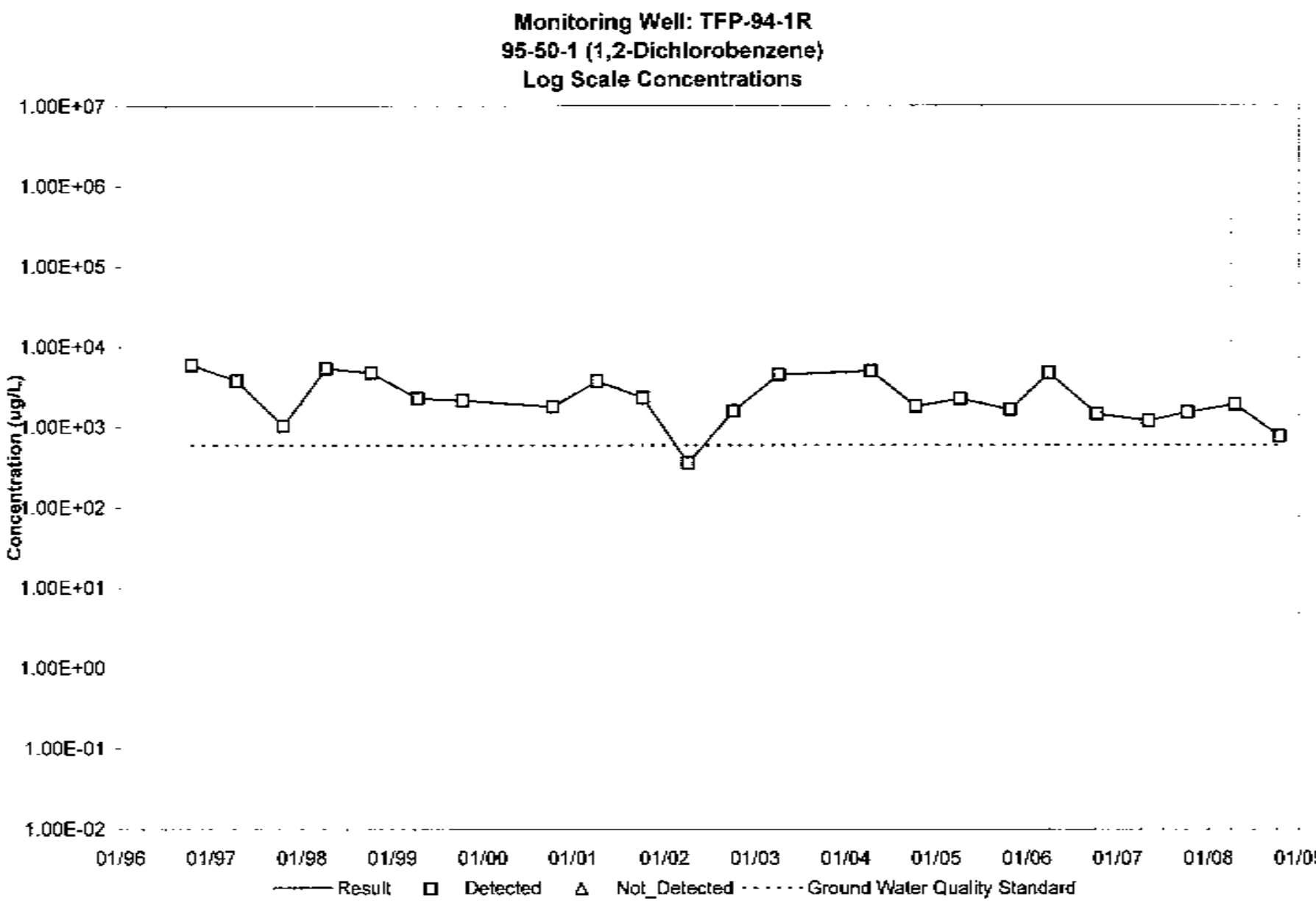

Monitoring Well: 19R
95-48-7 (2-Methylphenol)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

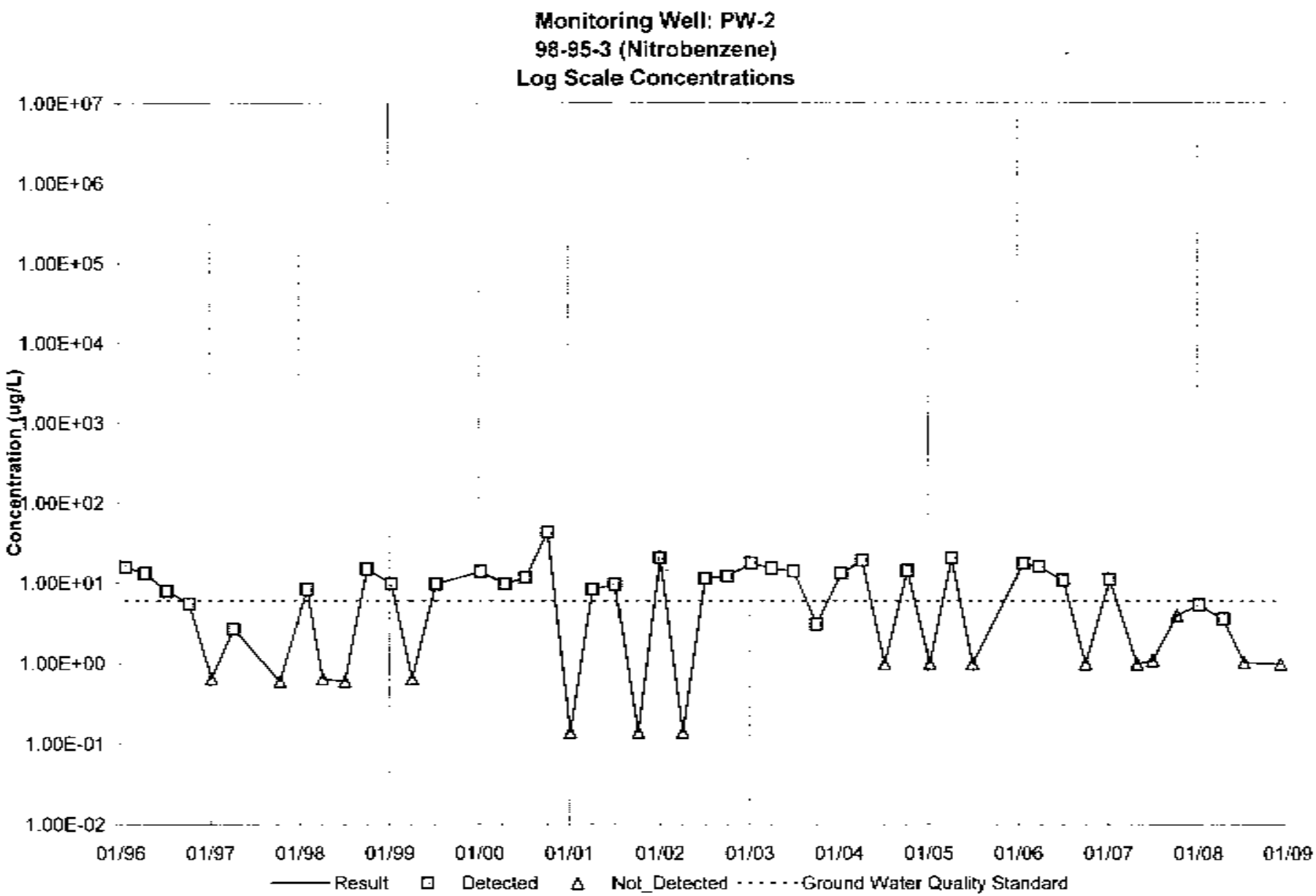

Monitoring Well: 38R
95-48-7 (2-Methylphenol)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

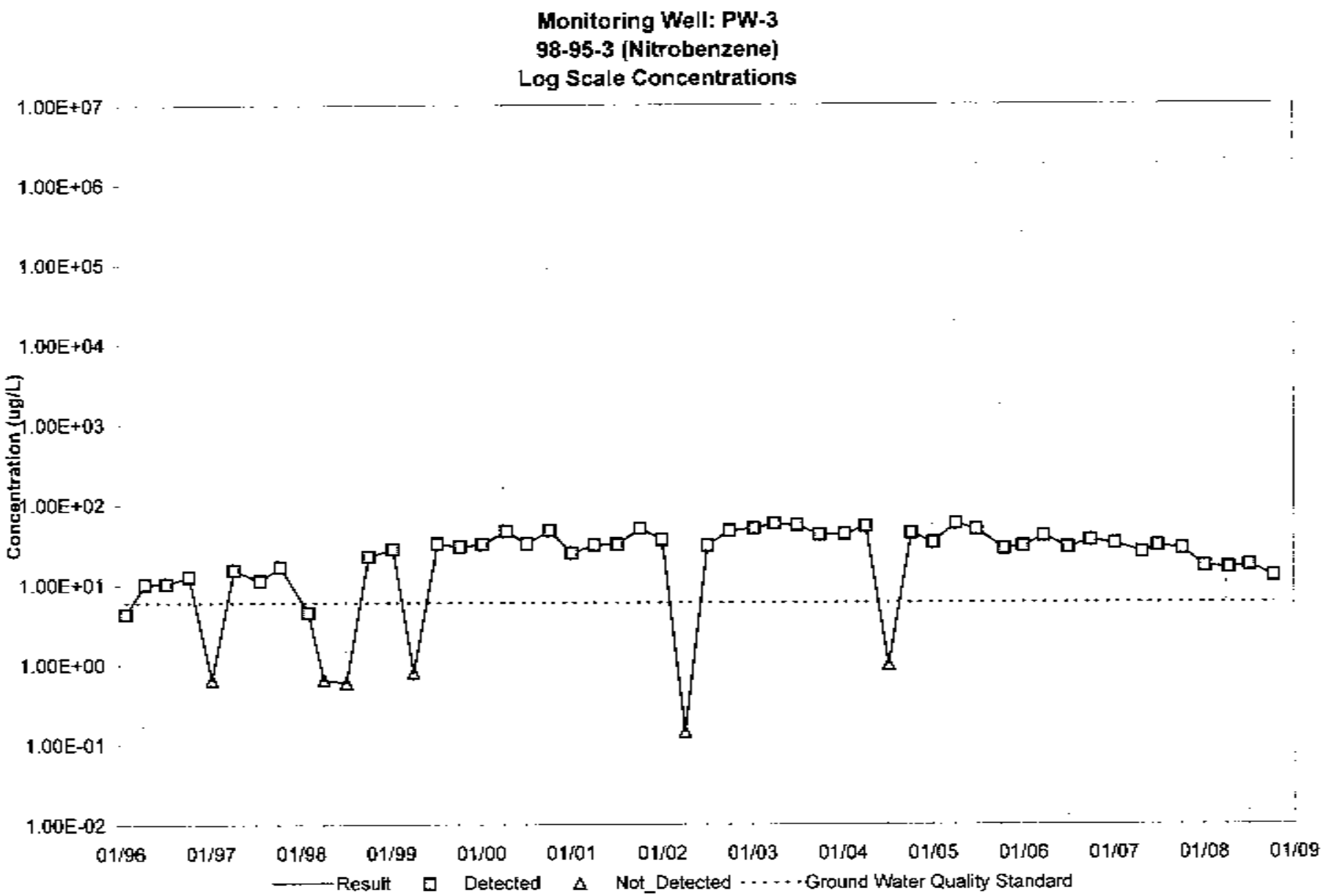

Monitoring Well: MW-2
95-48-7 (2-Methylphenol)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

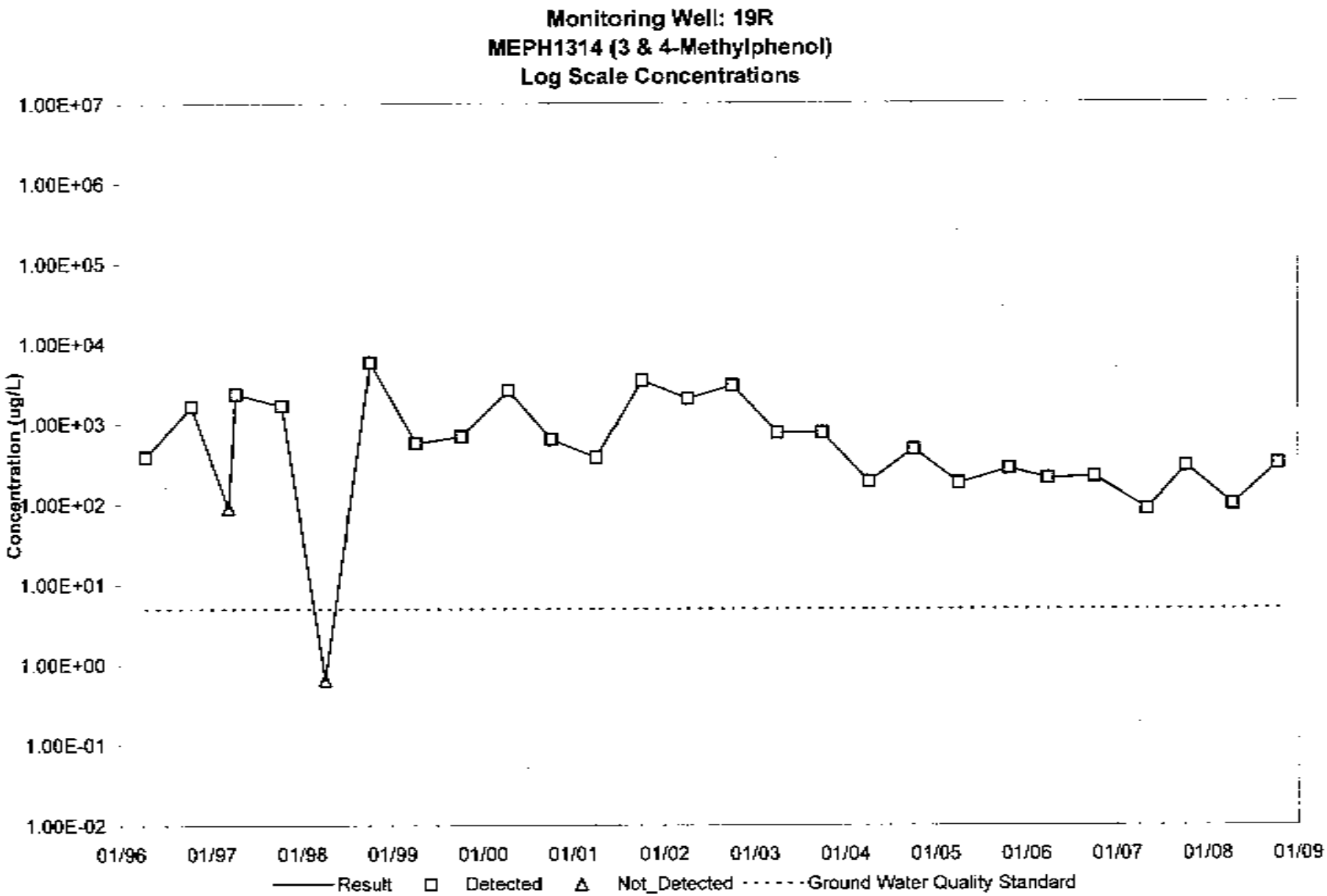

Monitoring Well: TFP-94-1R
95-48-7 (2-Methylphenol)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

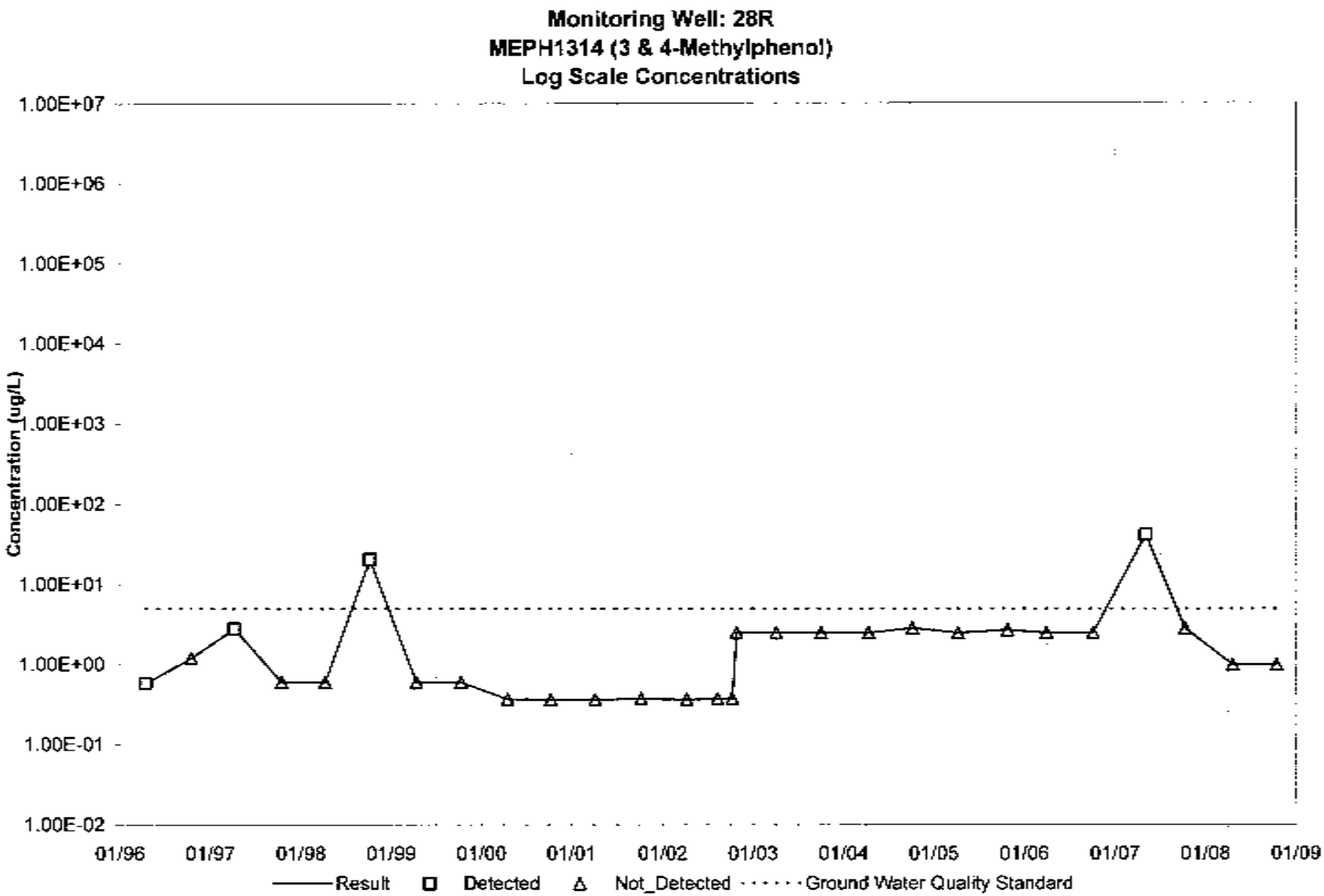

Monitoring Well: 19R
95-50-1 (1,2-Dichlorobenzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

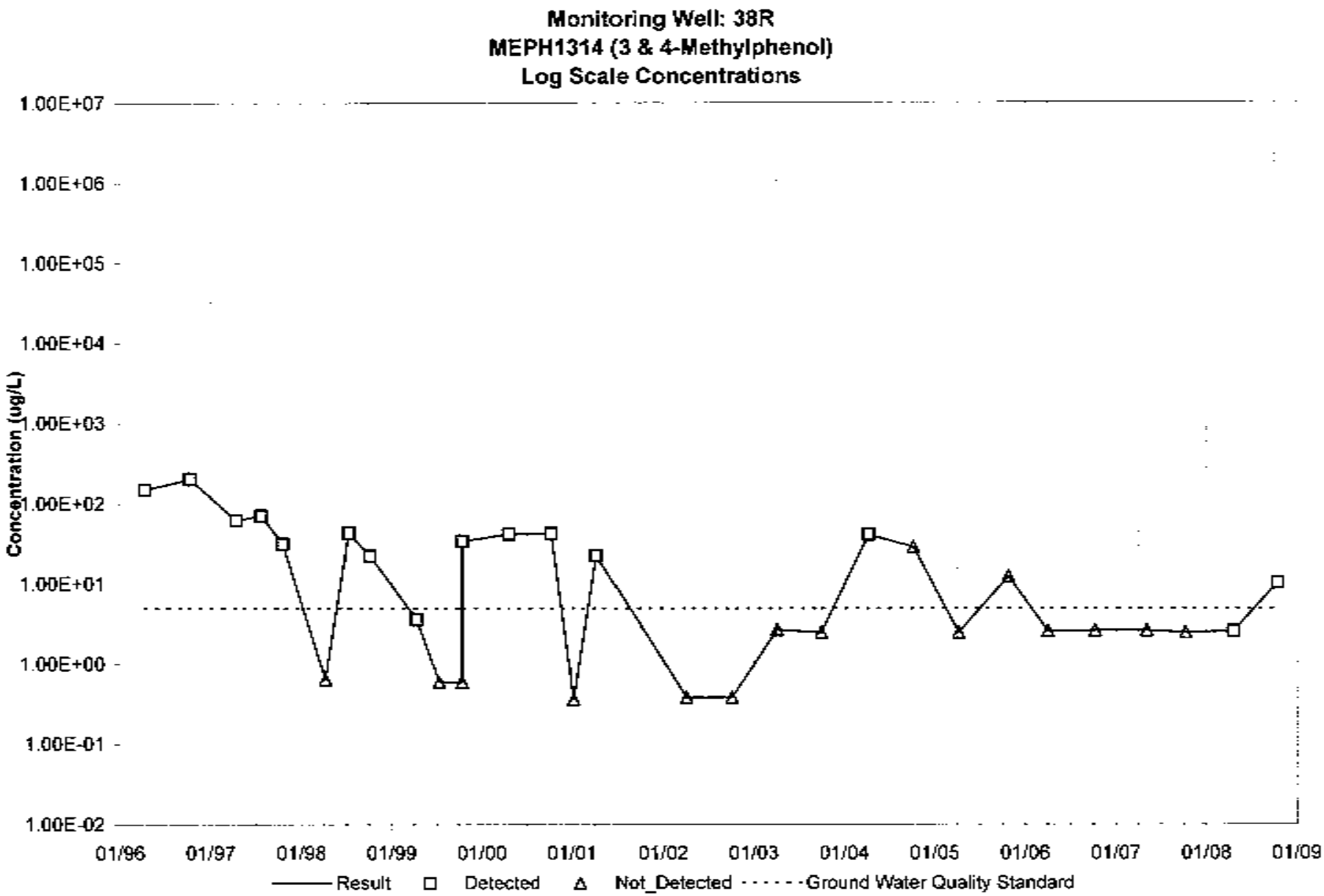

Monitoring Well: TFP-94-1R
95-50-1 (1,2-Dichlorobenzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

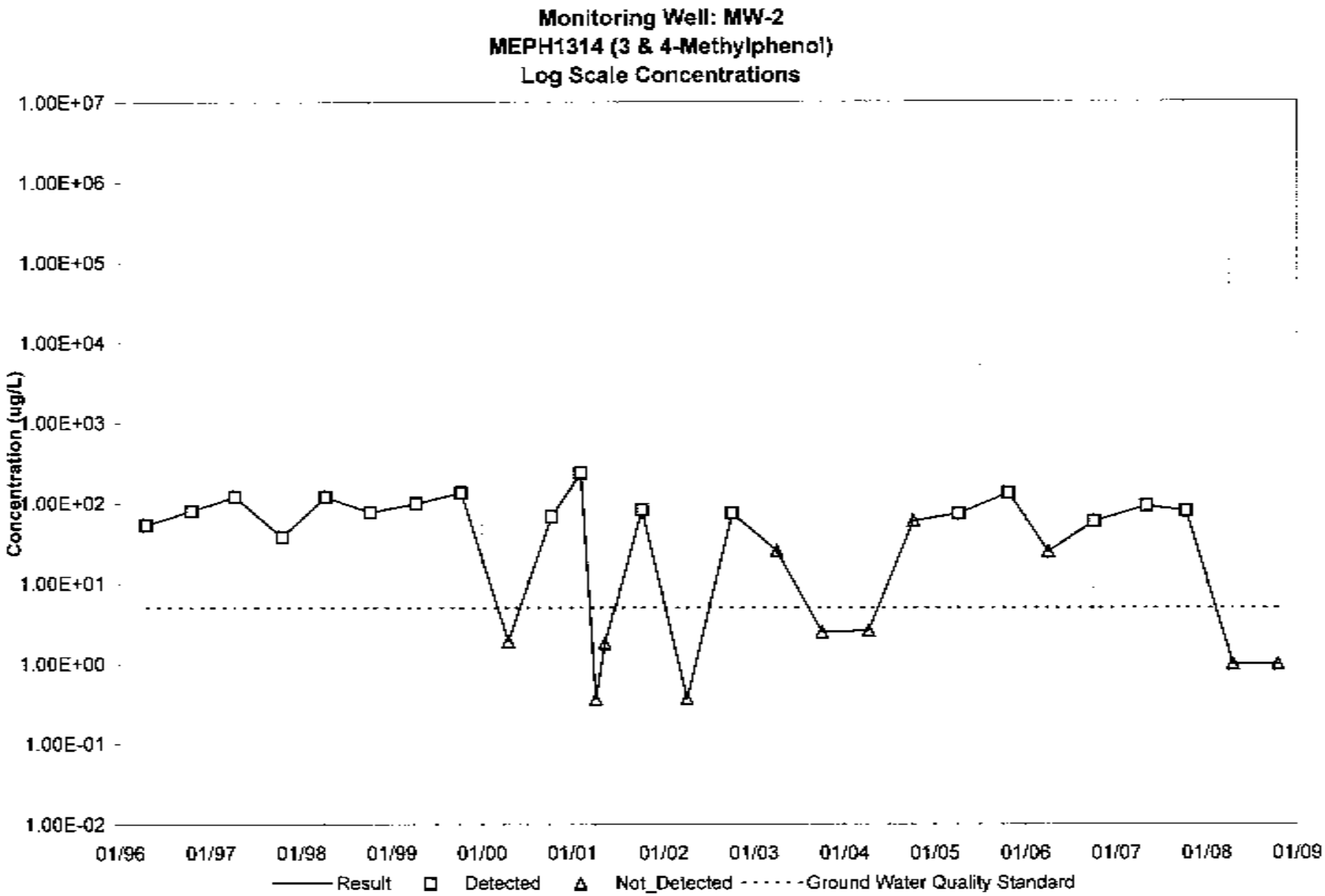

Monitoring Well: PW-2
98-95-3 (Nitrobenzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

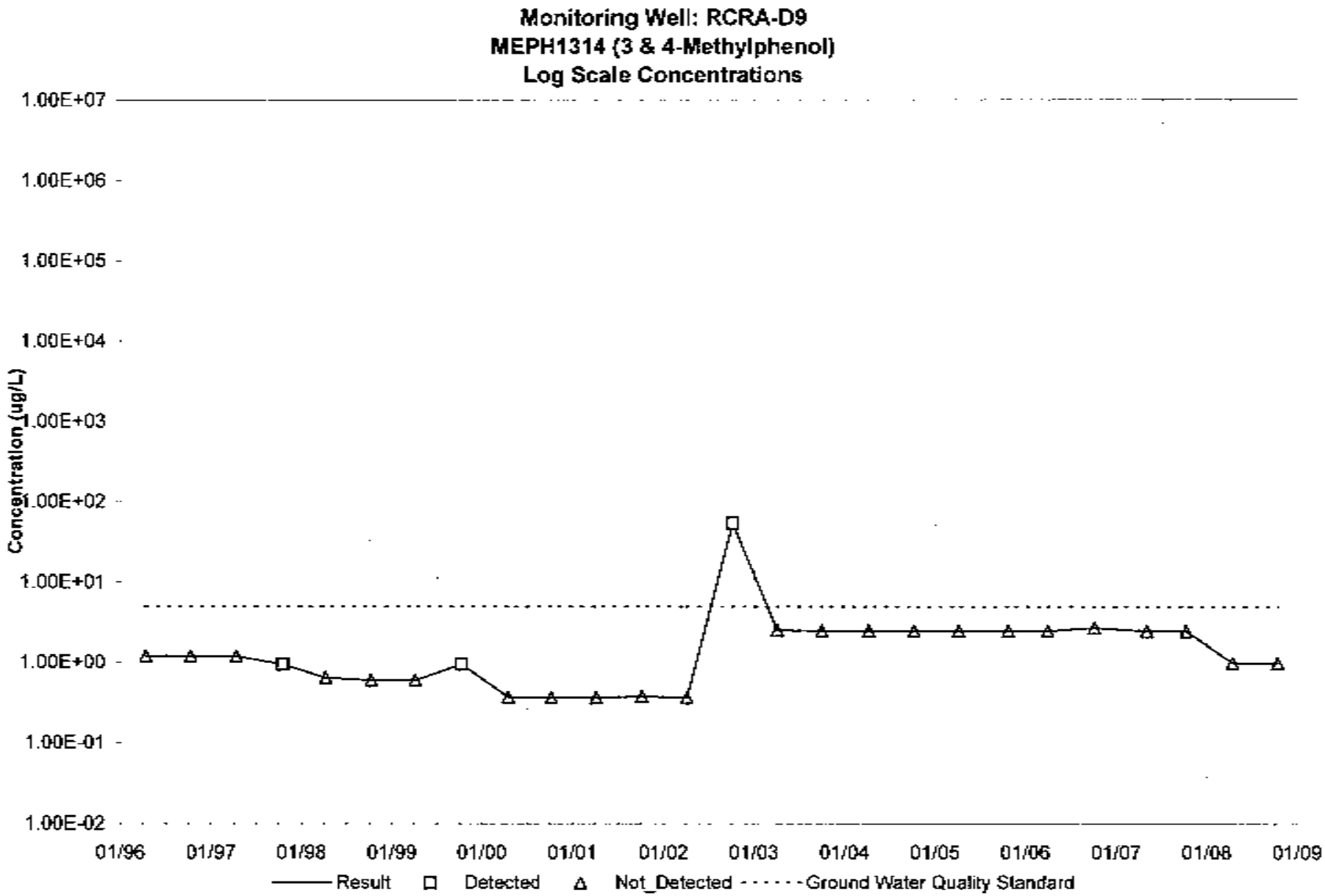

Monitoring Well: PW-3
98-95-3 (Nitrobenzene)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

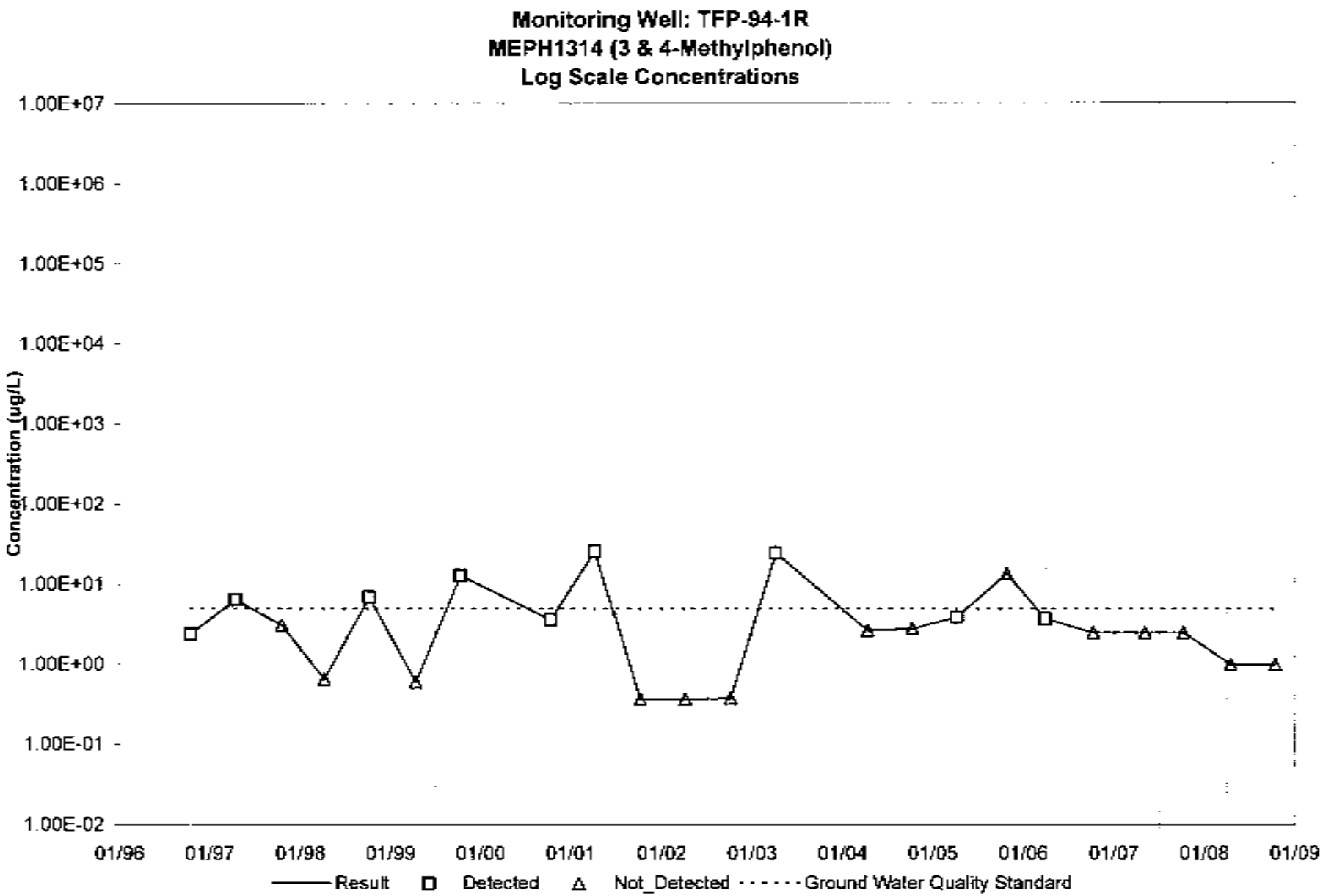

Monitoring Well: 19R
MEPH1314 (3 & 4-Methylphenol)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard


Monitoring Well: 28R
MEPH1314 (3 & 4-Methylphenol)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

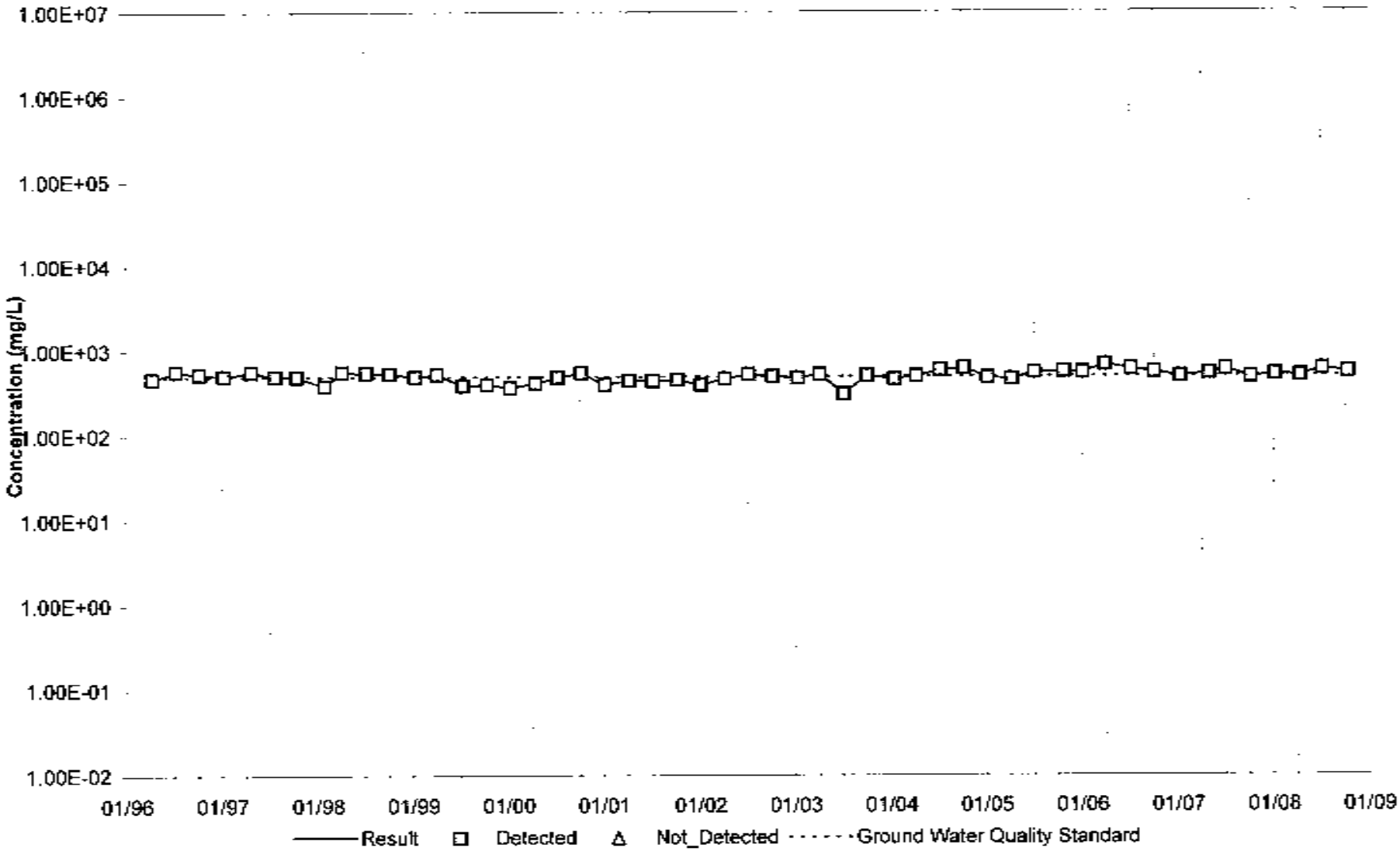

Monitoring Well: 38R
MEPH1314 (3 & 4-Methylphenol)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

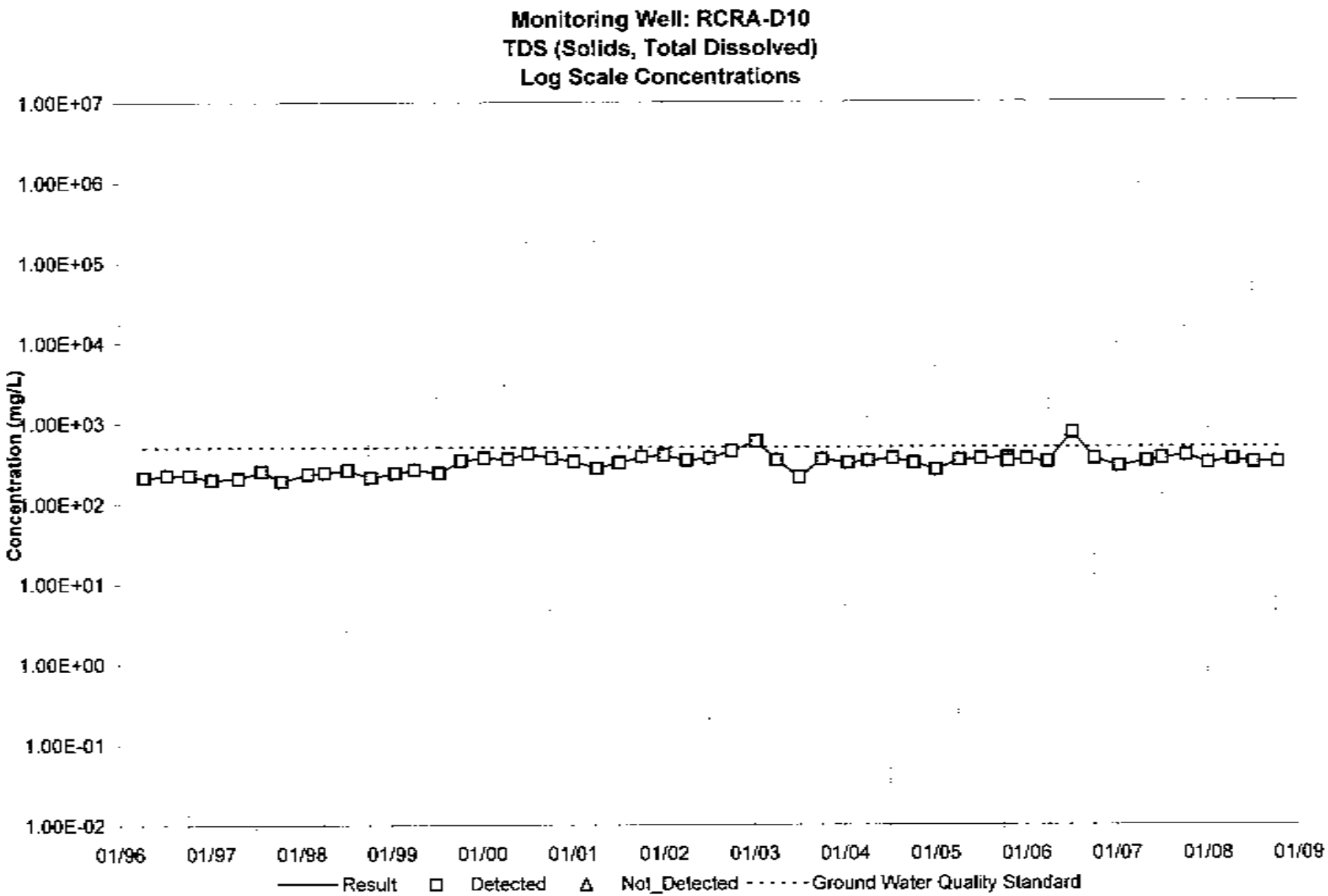

Monitoring Well: MW-2
MEPH1314 (3 & 4-Methylphenol)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

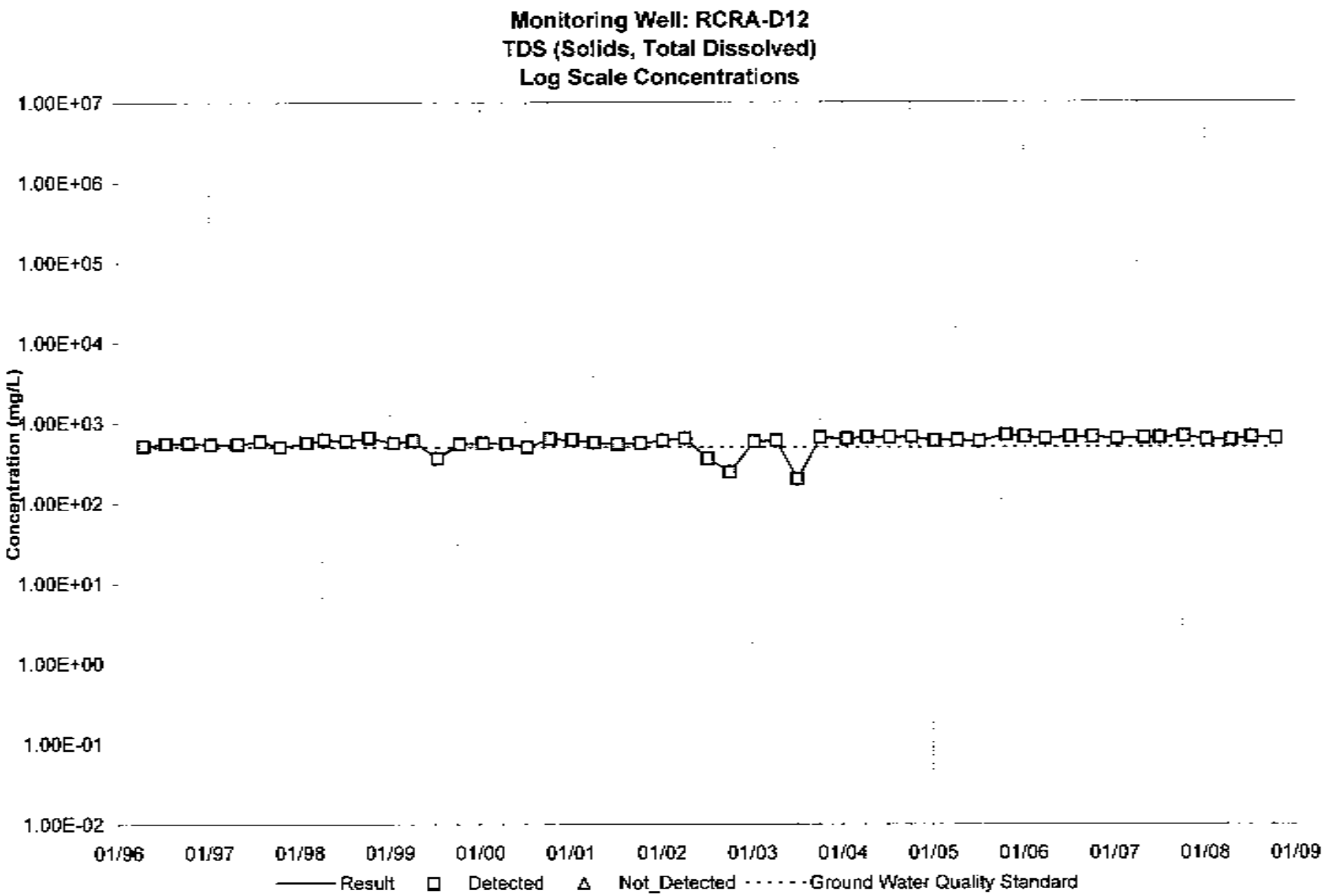

Monitoring Well: RCRA-D9
MEPH1314 (3 & 4-Methylphenol)
Log Scale Concentrations
Concentration (ug/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

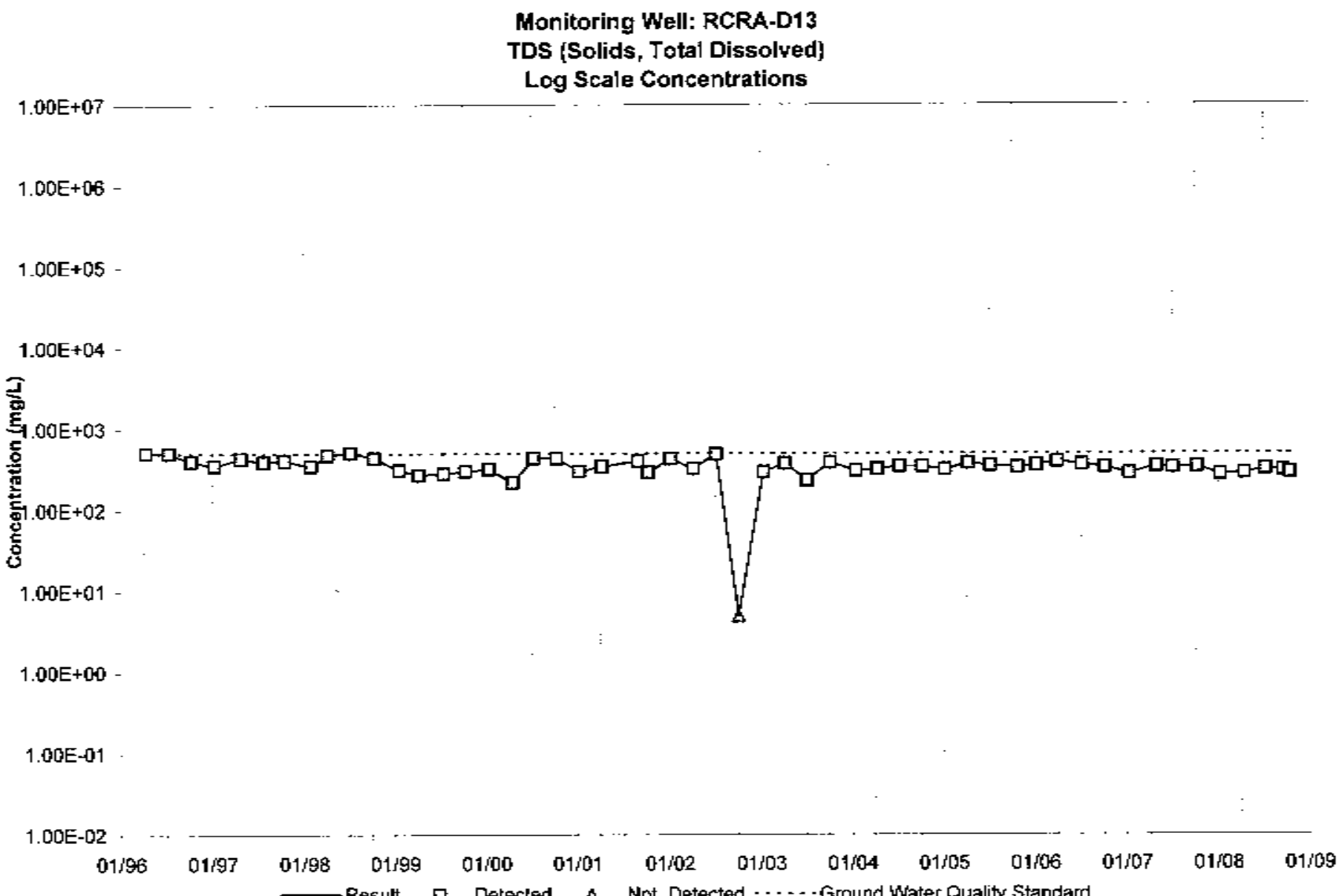

Monitoring Well: TFP-94-1R
MEPH1314 (3 & 4-Methylphenol)
Log Scale Concentrations
Concentration (µg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

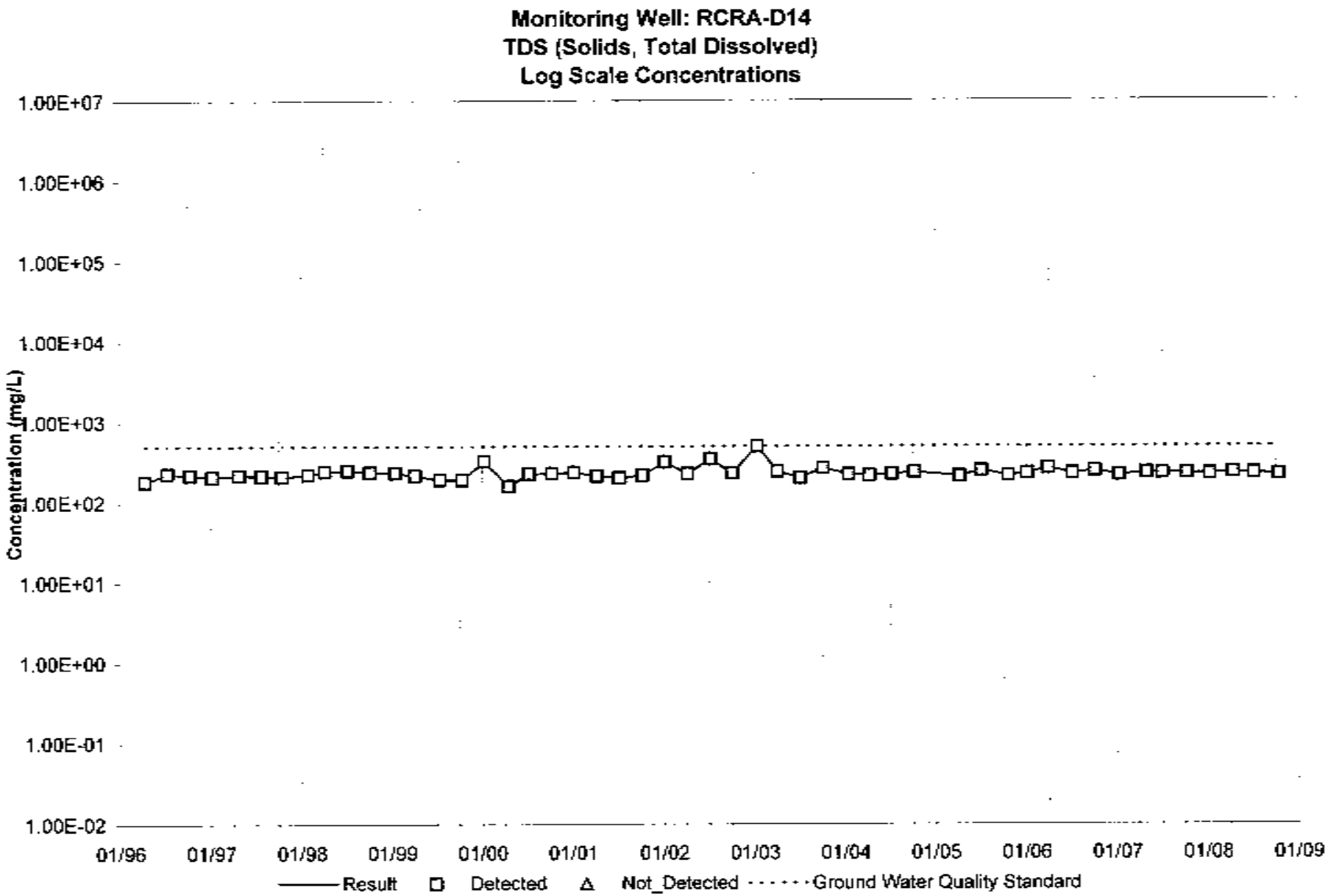
Monitoring Well: RCRA-D1
TDS (Solids, Total Dissolved)
Log Scale Concentrations

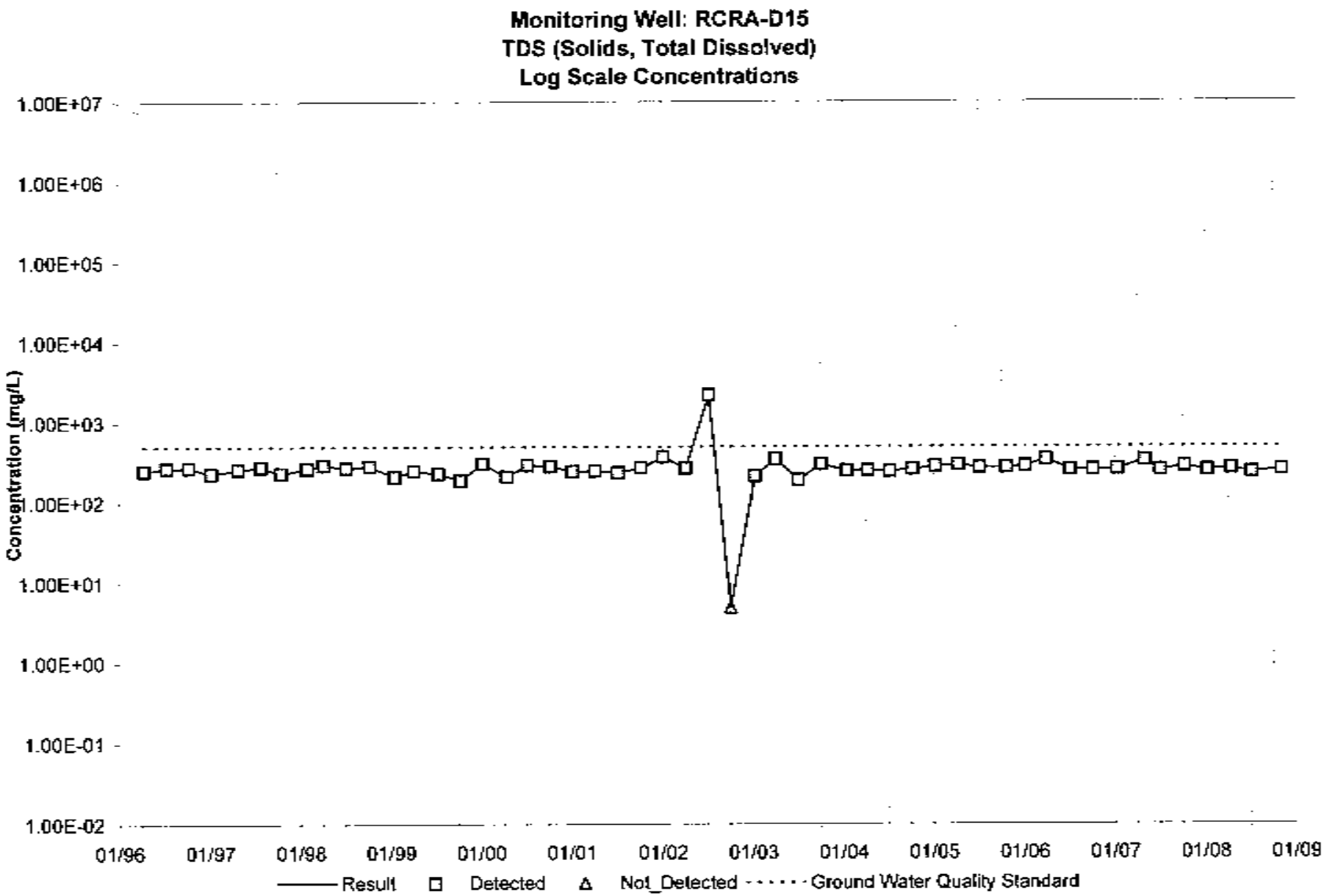


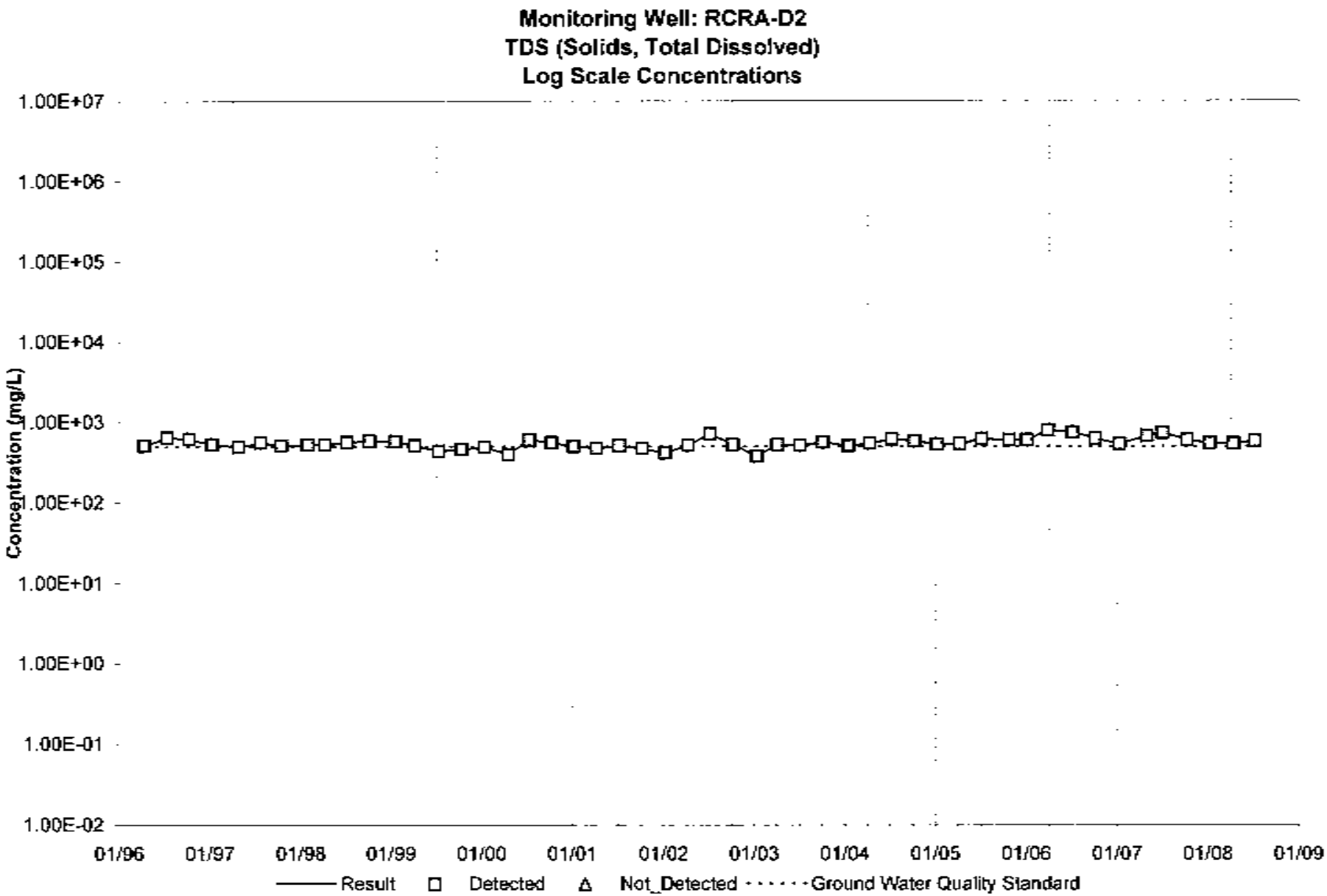

Monitoring Well: RCRA-D10
TDS (Solids, Total Dissolved)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

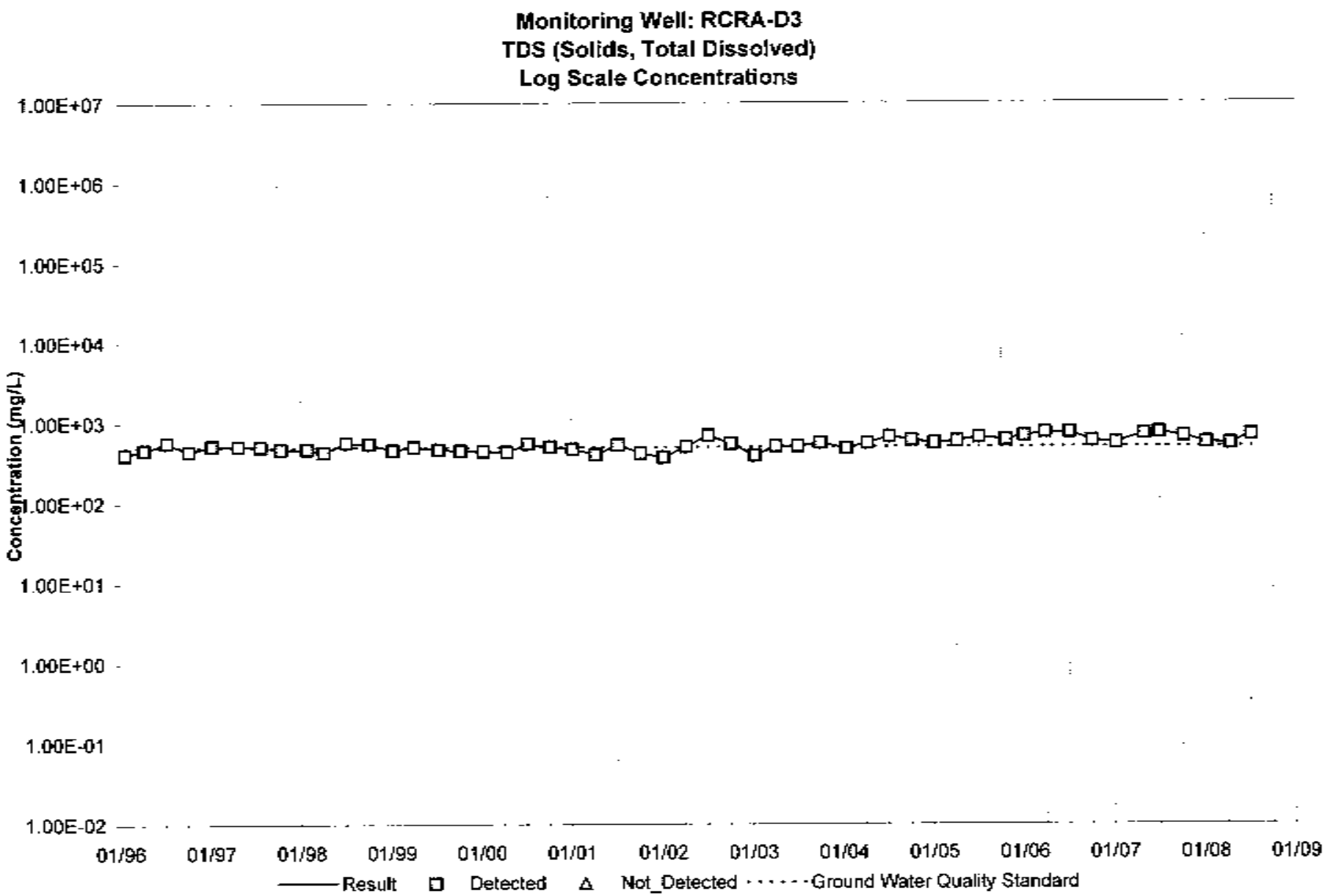

Monitoring Well: RCRA-D12
TDS (Solids, Total Dissolved)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

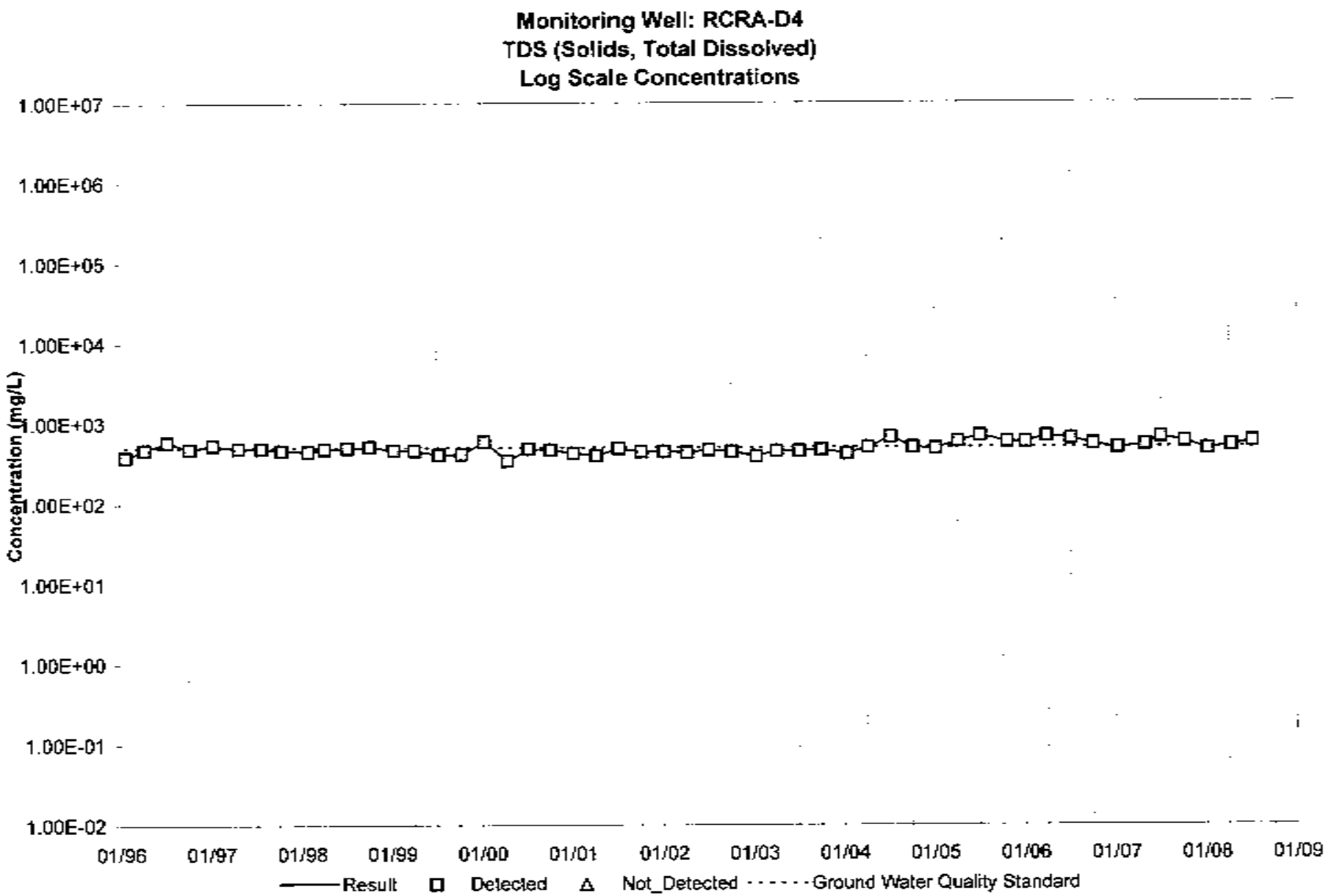

Monitoring Well: RCRA-D13
TDS (Solids, Total Dissolved)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

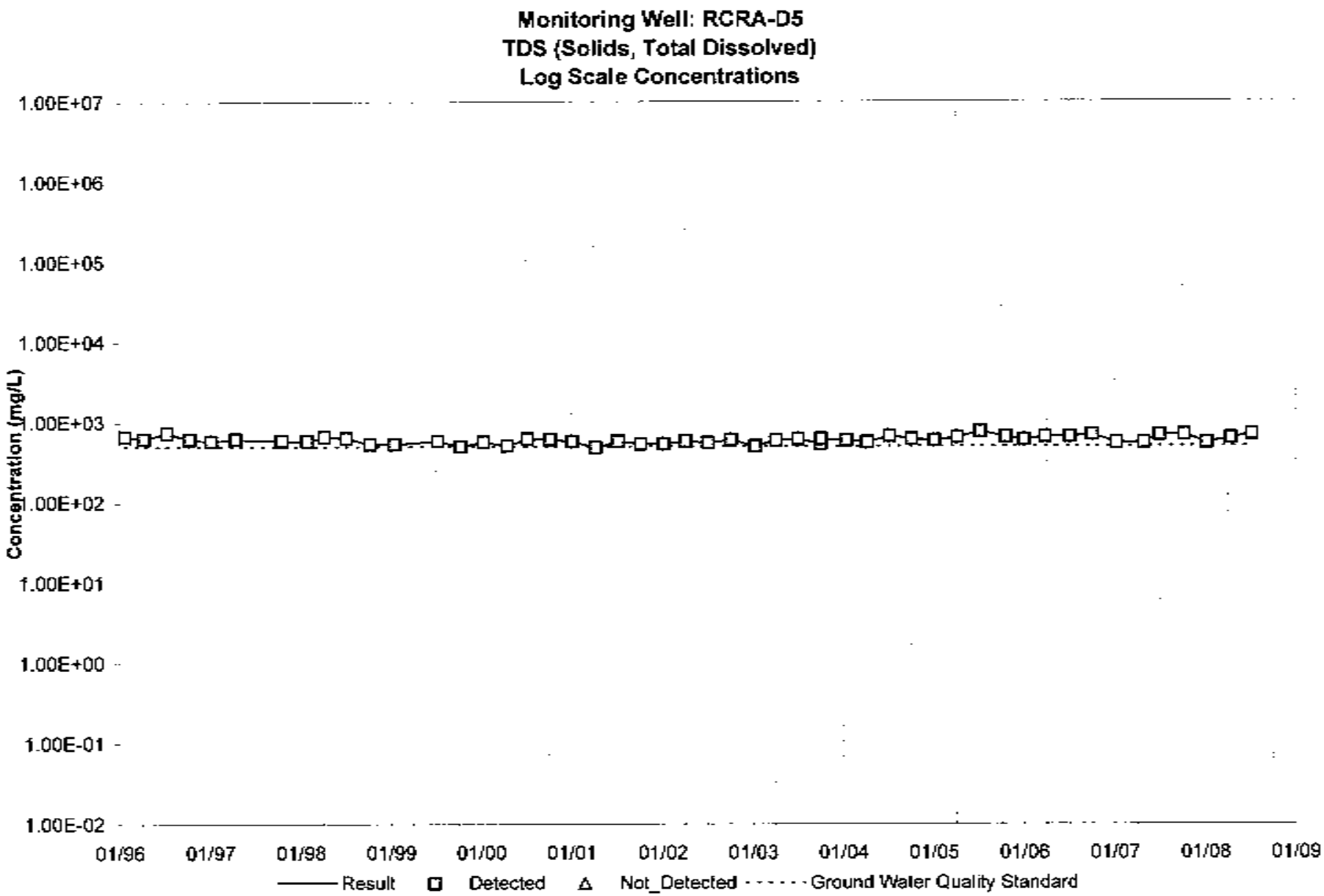

Monitoring Well: RCRA-D14
TDS (Solids, Total Dissolved)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

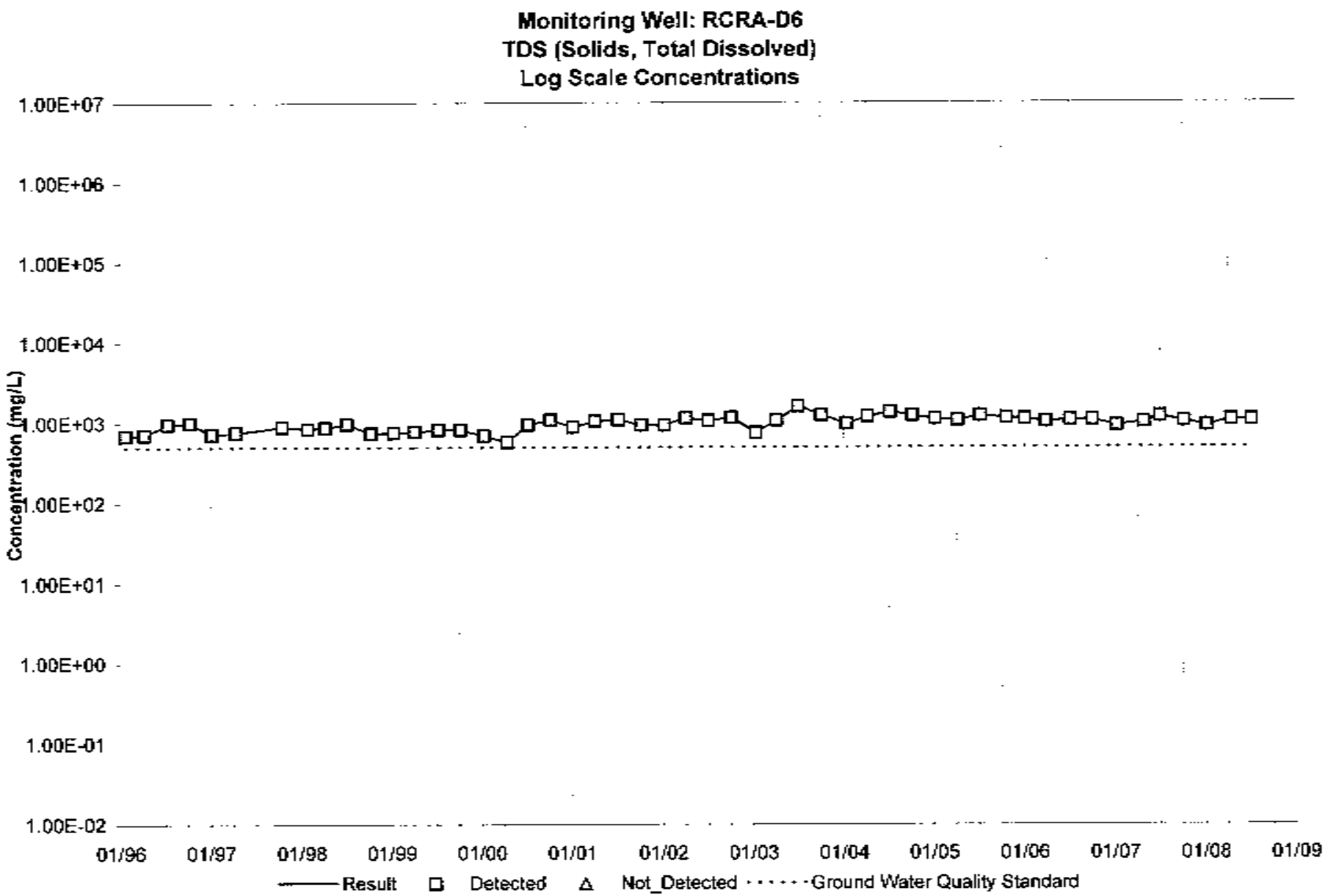

Monitoring Well: RCRA-D15
TDS (Solids, Total Dissolved)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

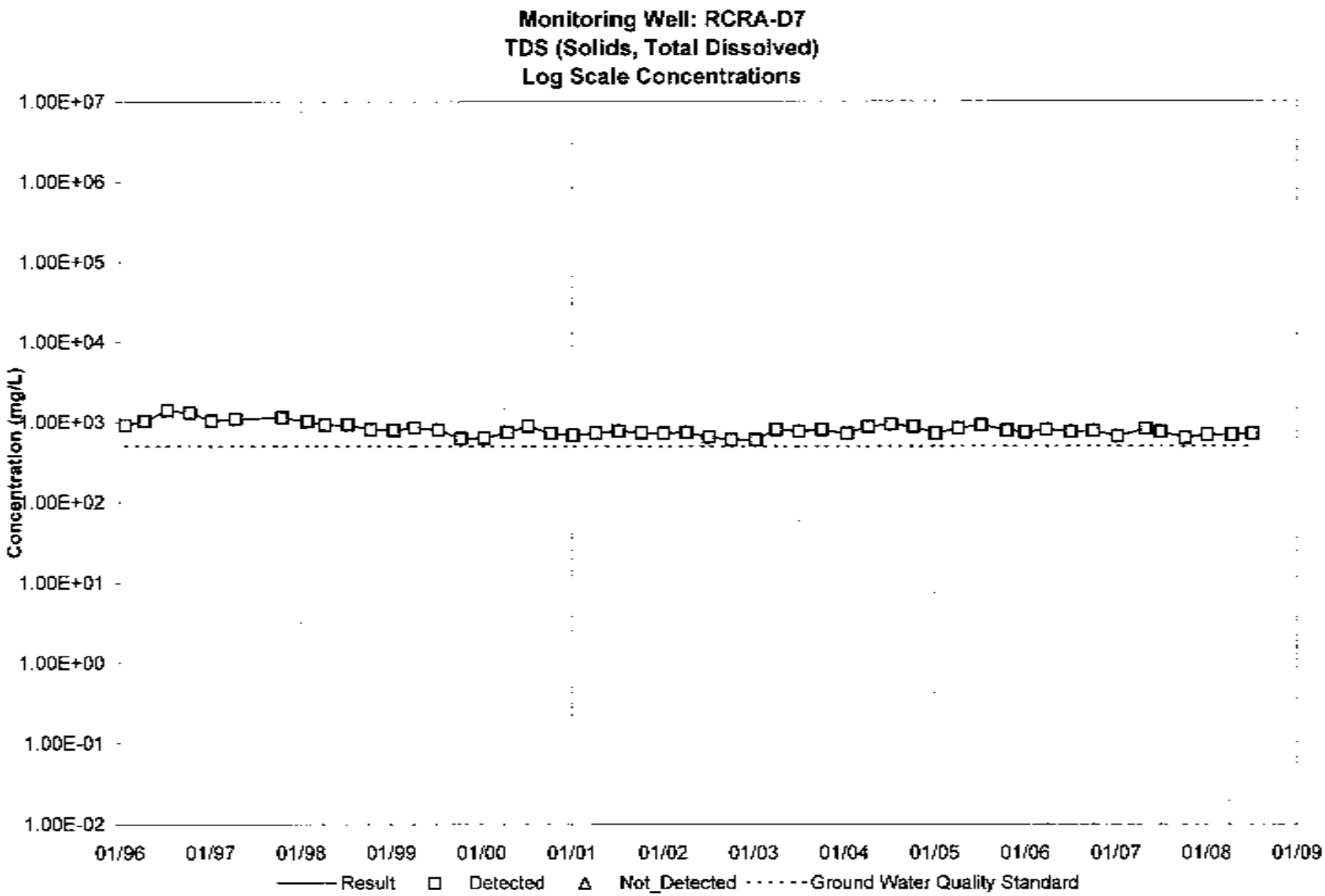

Monitoring Well: RCRA-D2
TDS (Solids, Total Dissolved)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

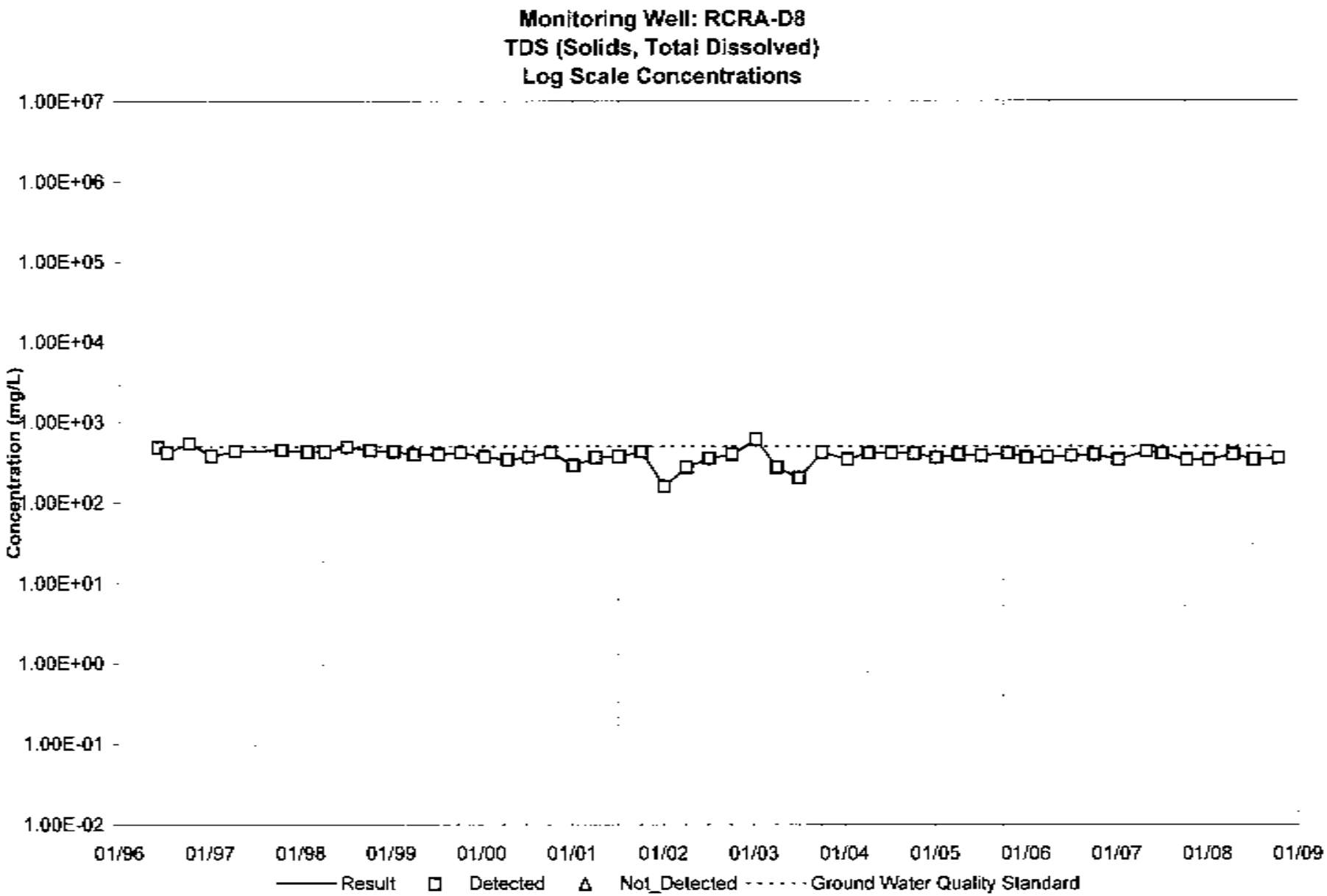

Monitoring Well: RCRA-D3
TDS (Solids, Total Dissolved)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

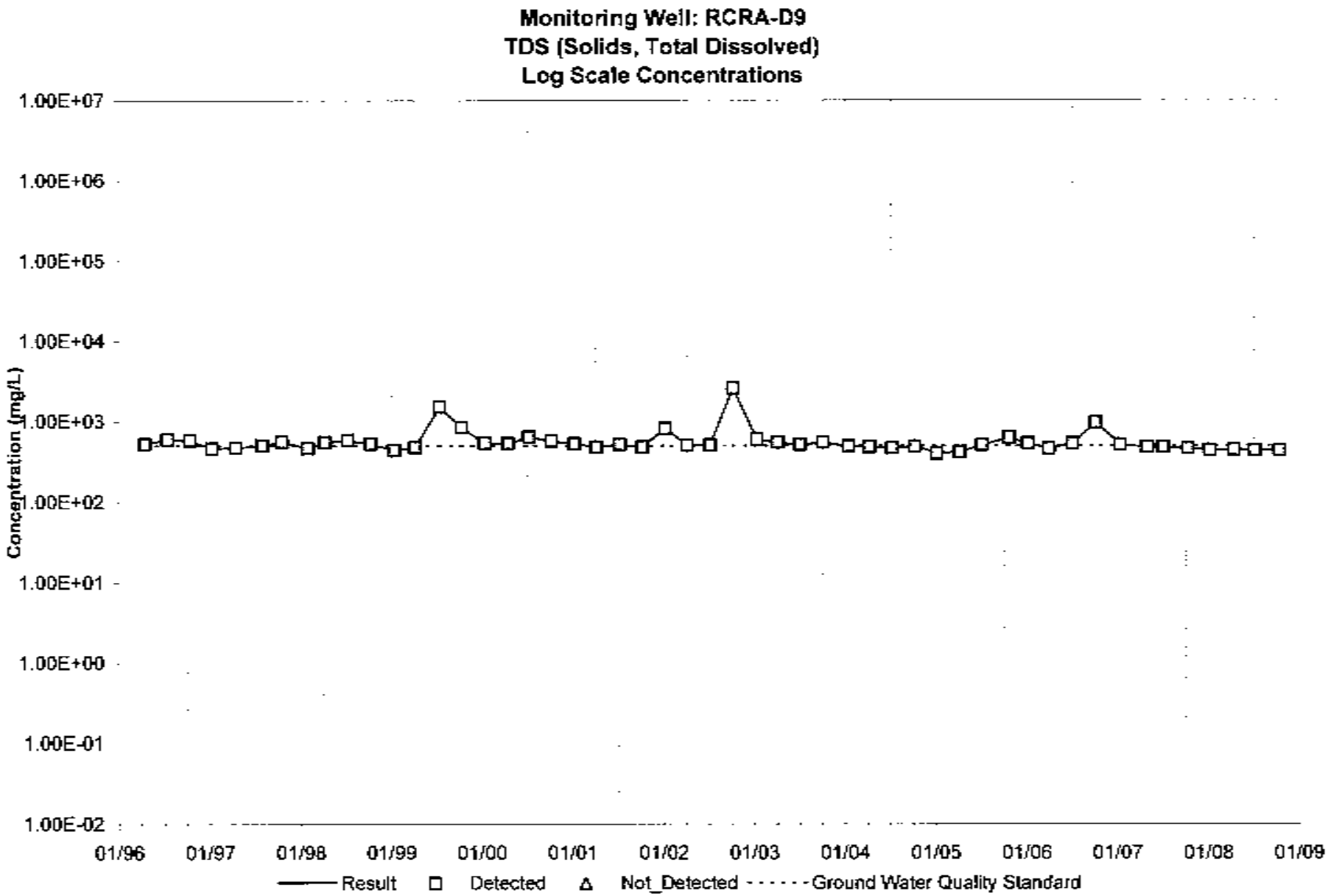

Monitoring Well: RCRA-D4
TDS (Solids, Total Dissolved)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

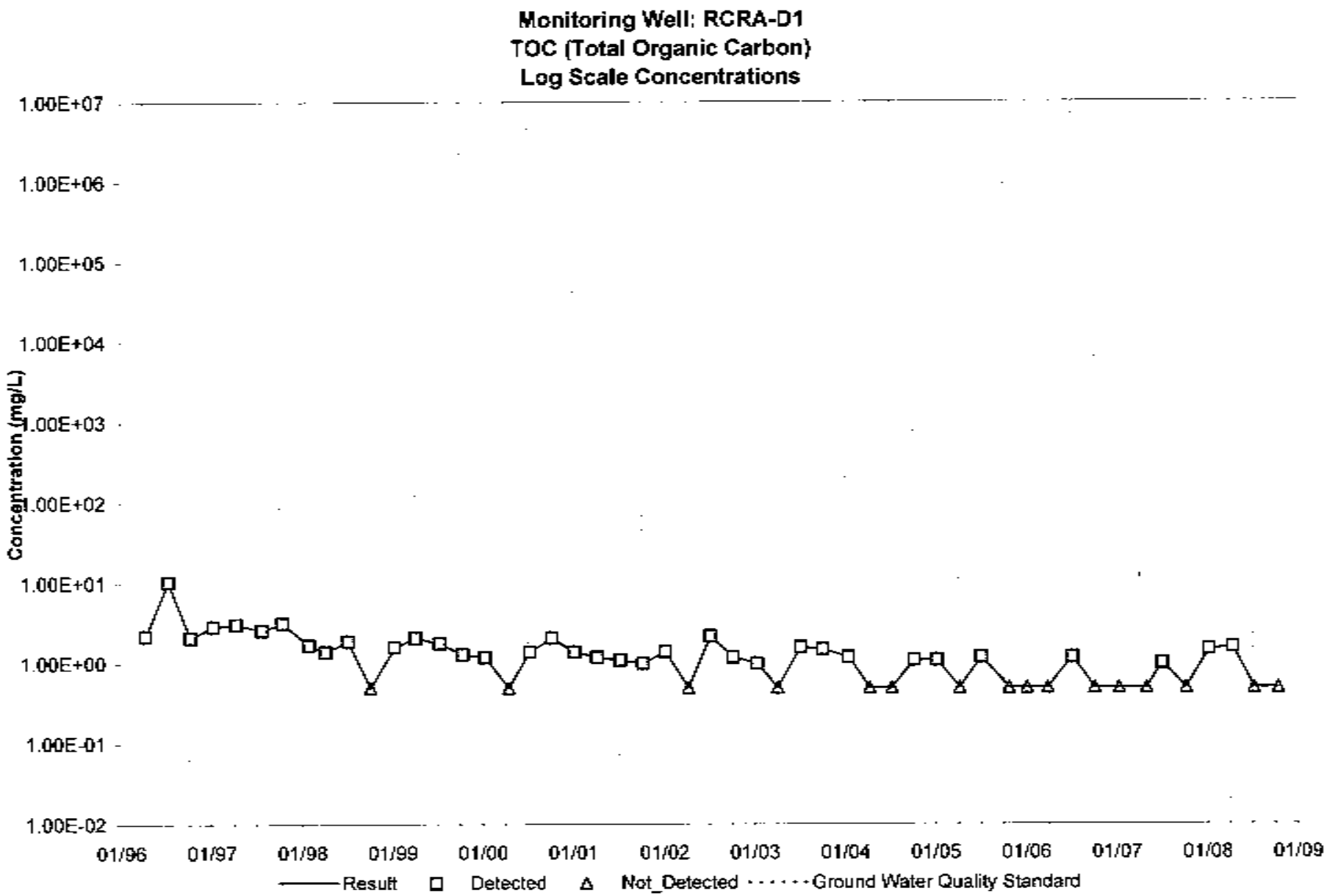

Monitoring Well: RCRA-D5
TDS (Solids, Total Dissolved)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

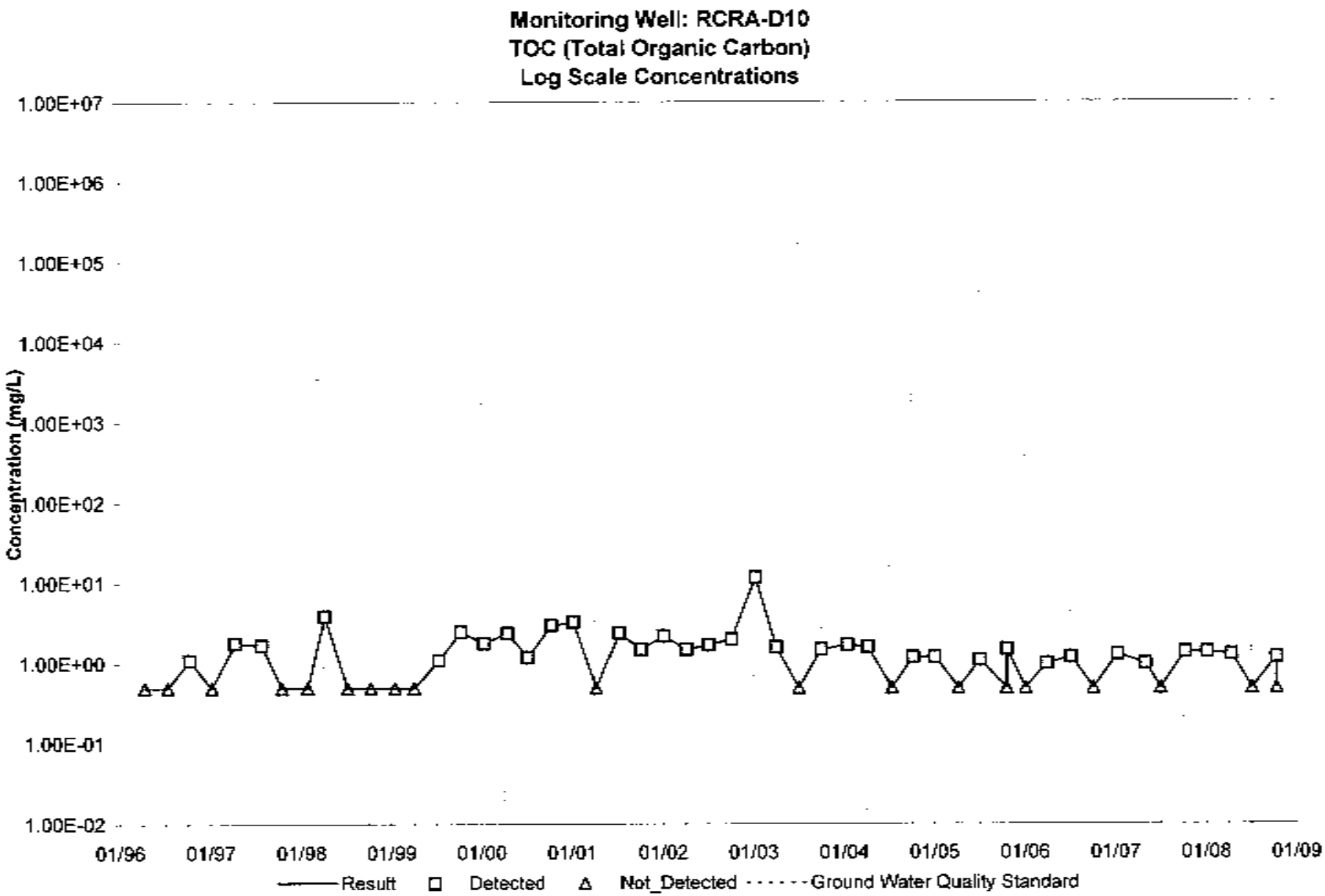

Monitoring Well: RCRA-D6
TDS (Solids, Total Dissolved)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

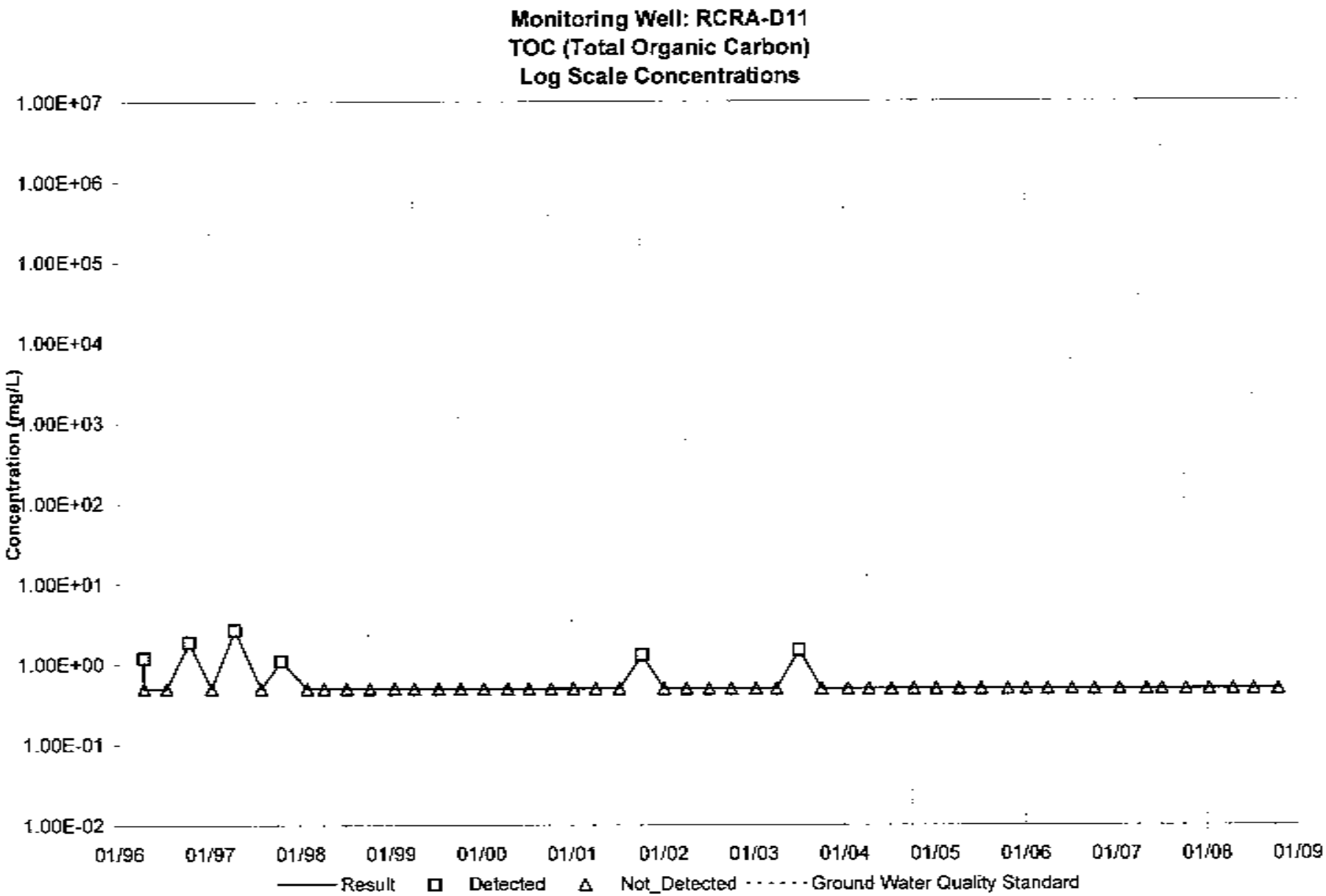

Monitoring Well: RCRA-D7
TDS (Solids, Total Dissolved)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

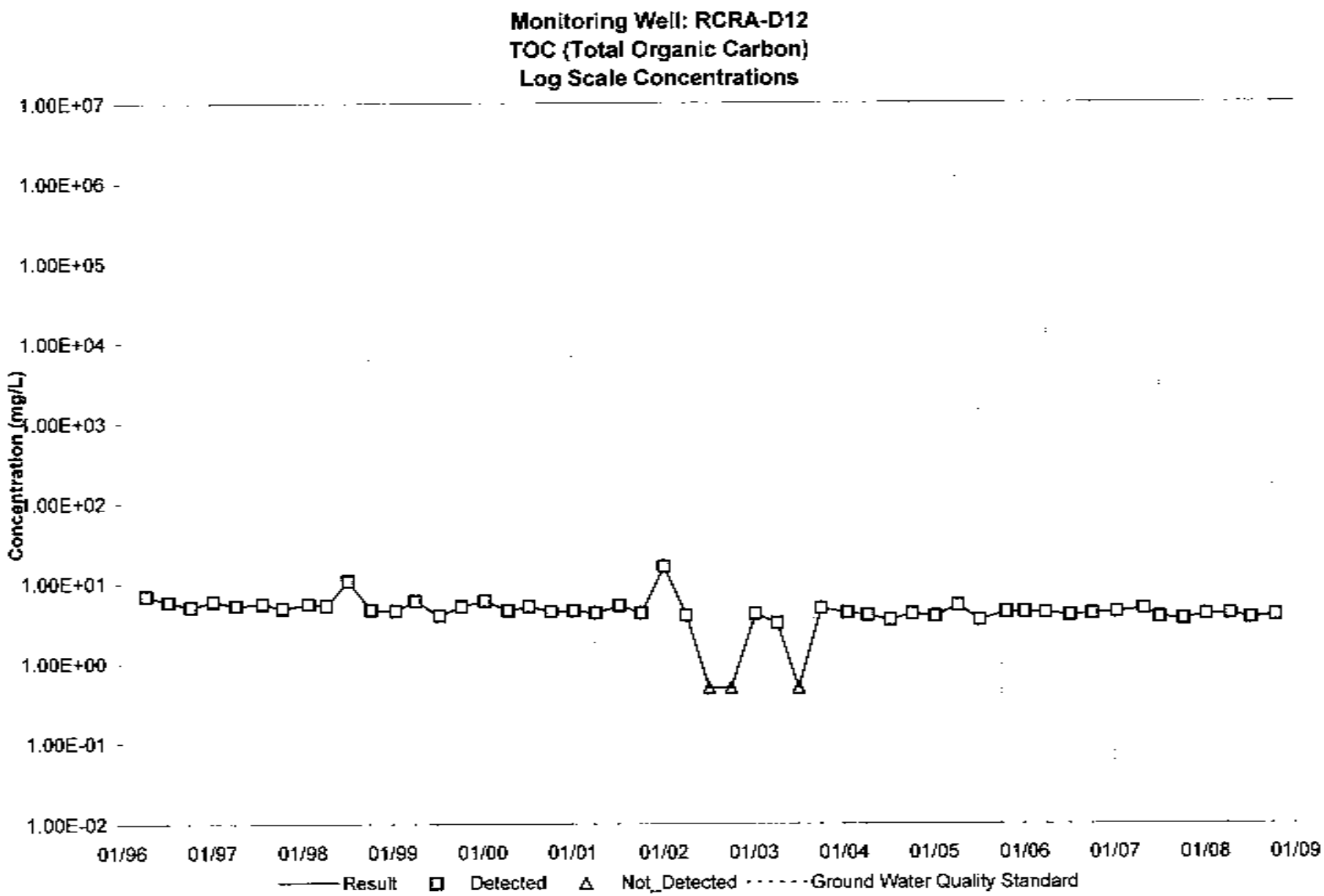

Monitoring Well: RCRA-D8
TDS (Solids, Total Dissolved)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

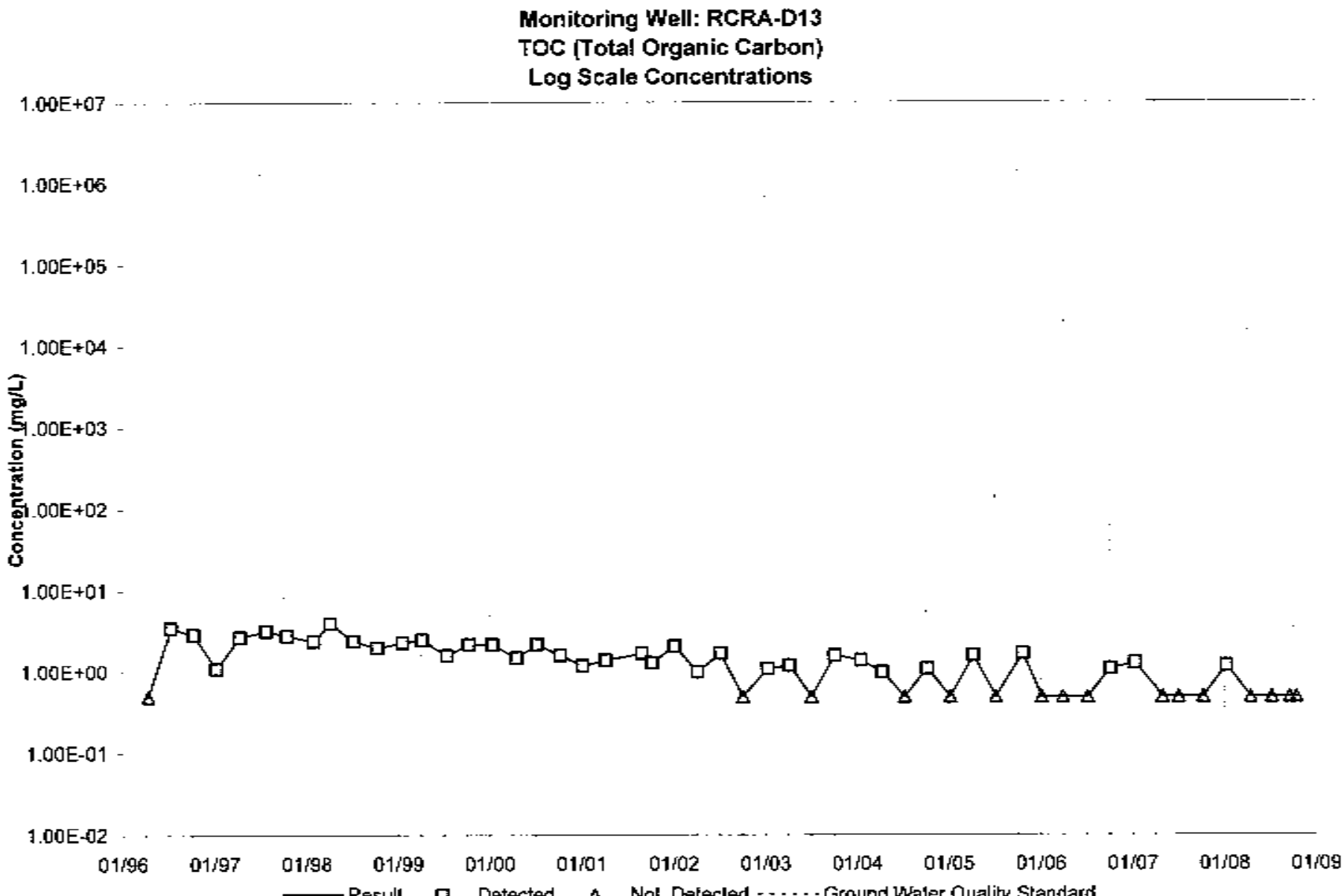

Monitoring Well: RCRA-D9
TDS (Solids, Total Dissolved)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

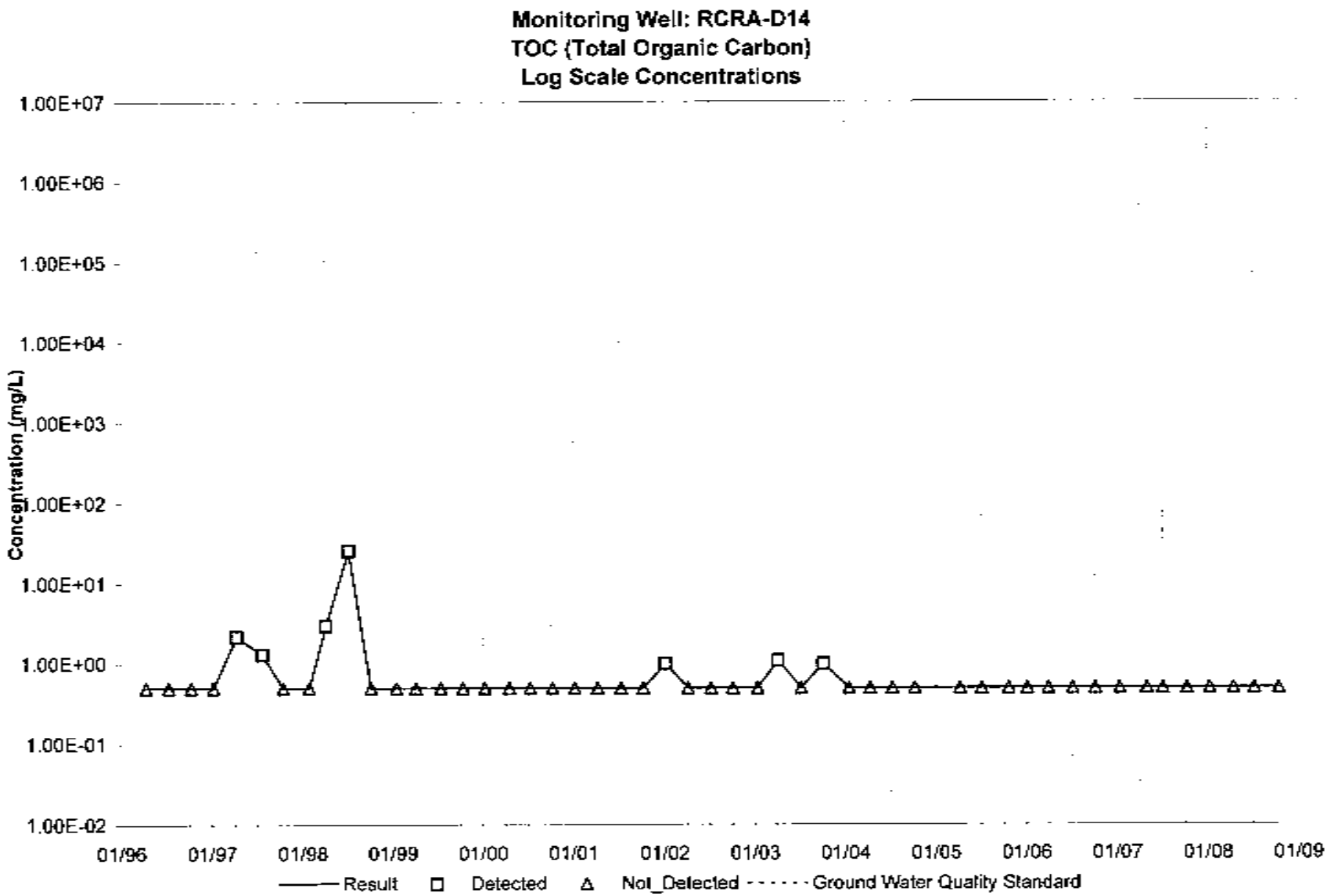

Monitoring Well: RCRA-D1
TOC (Total Organic Carbon)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

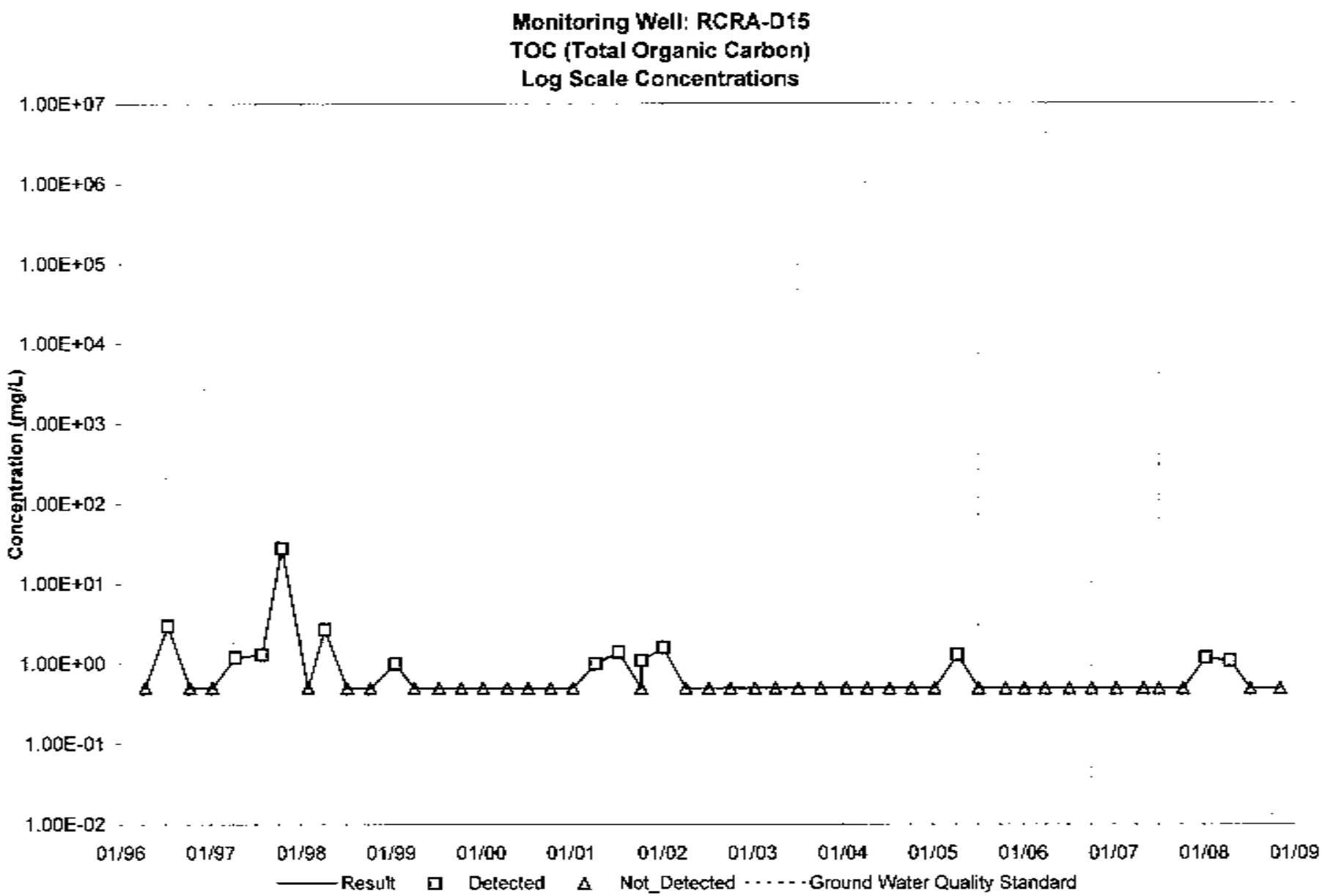

Monitoring Well: RCRA-D10
TOC (Total Organic Carbon)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard


Monitoring Well: RCRA-D11
TOC (Total Organic Carbon)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

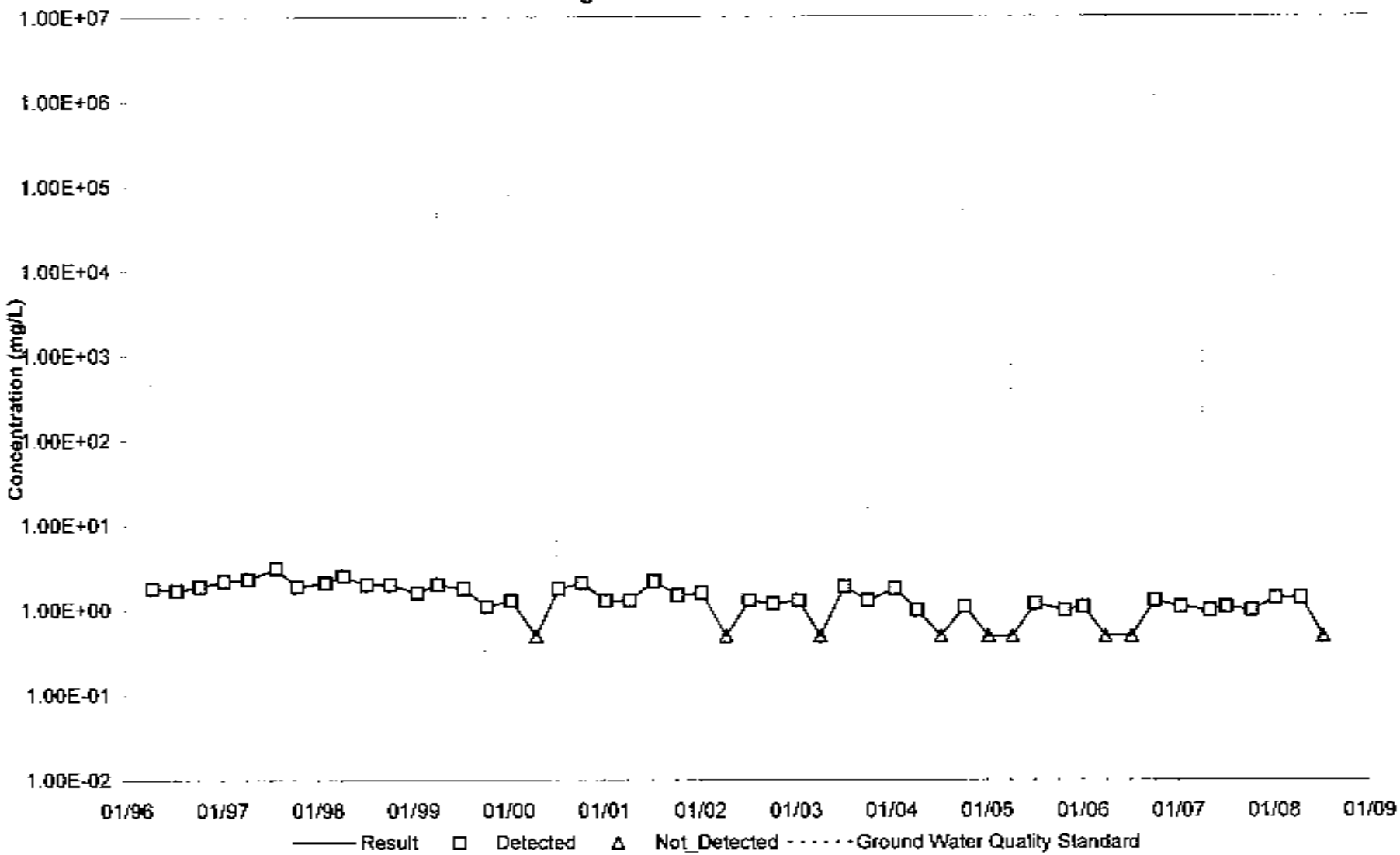

Monitoring Well: RCRA-D12
TOC (Total Organic Carbon)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

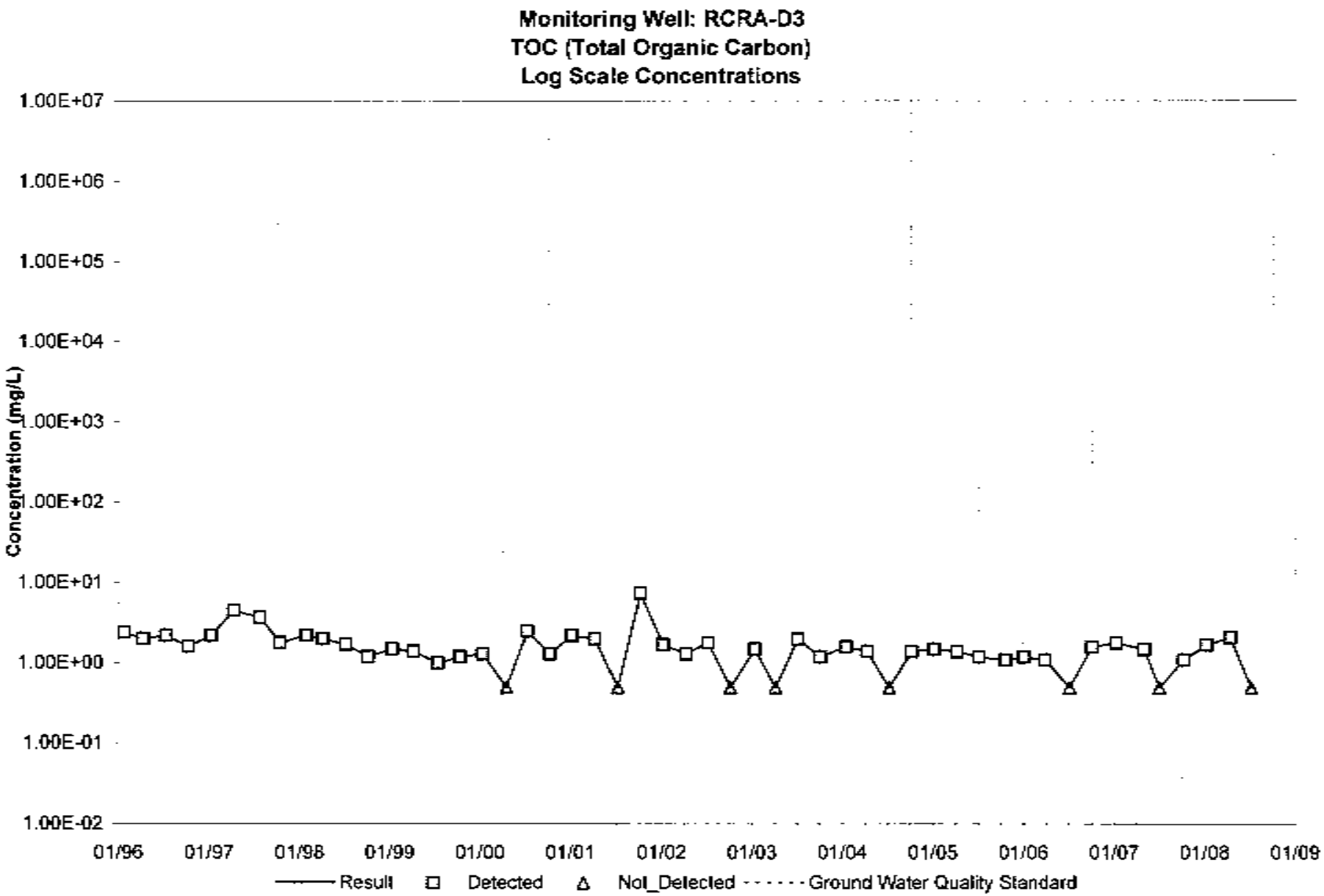

Monitoring Well: RCRA-D13
TOC (Total Organic Carbon)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

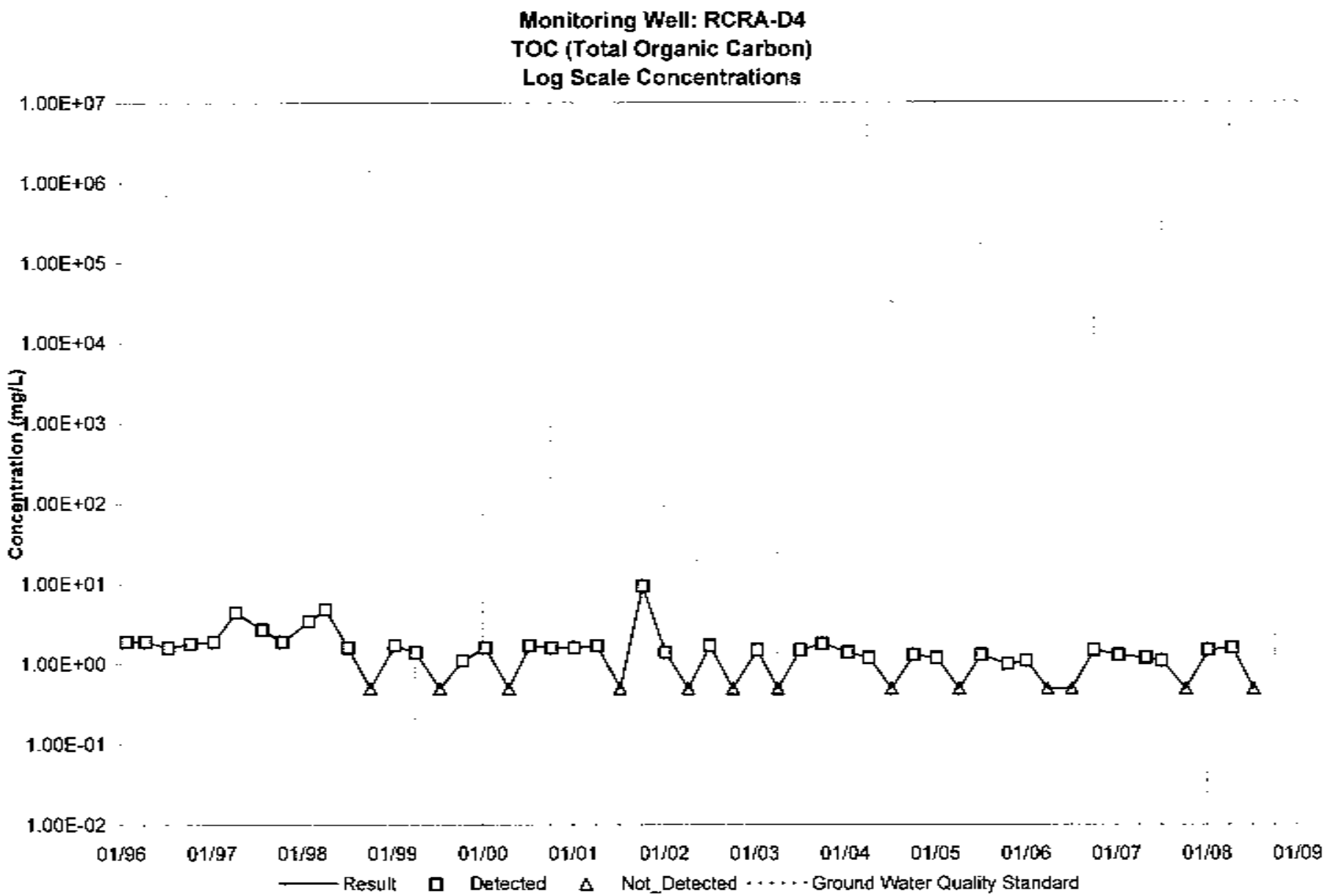

Monitoring Well: RCRA-D14
TOC (Total Organic Carbon)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

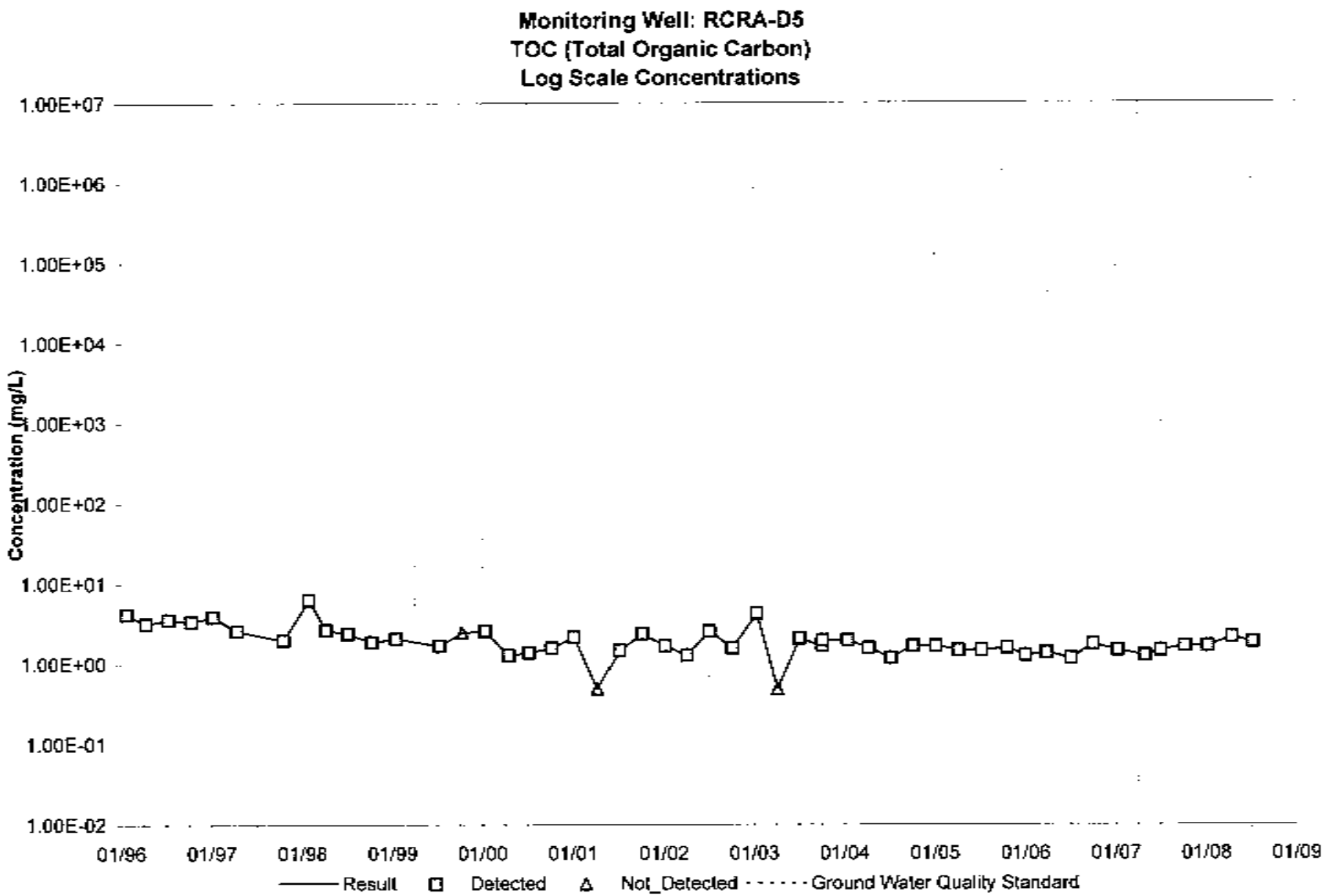

Monitoring Well: RCRA-D15
TOC (Total Organic Carbon)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

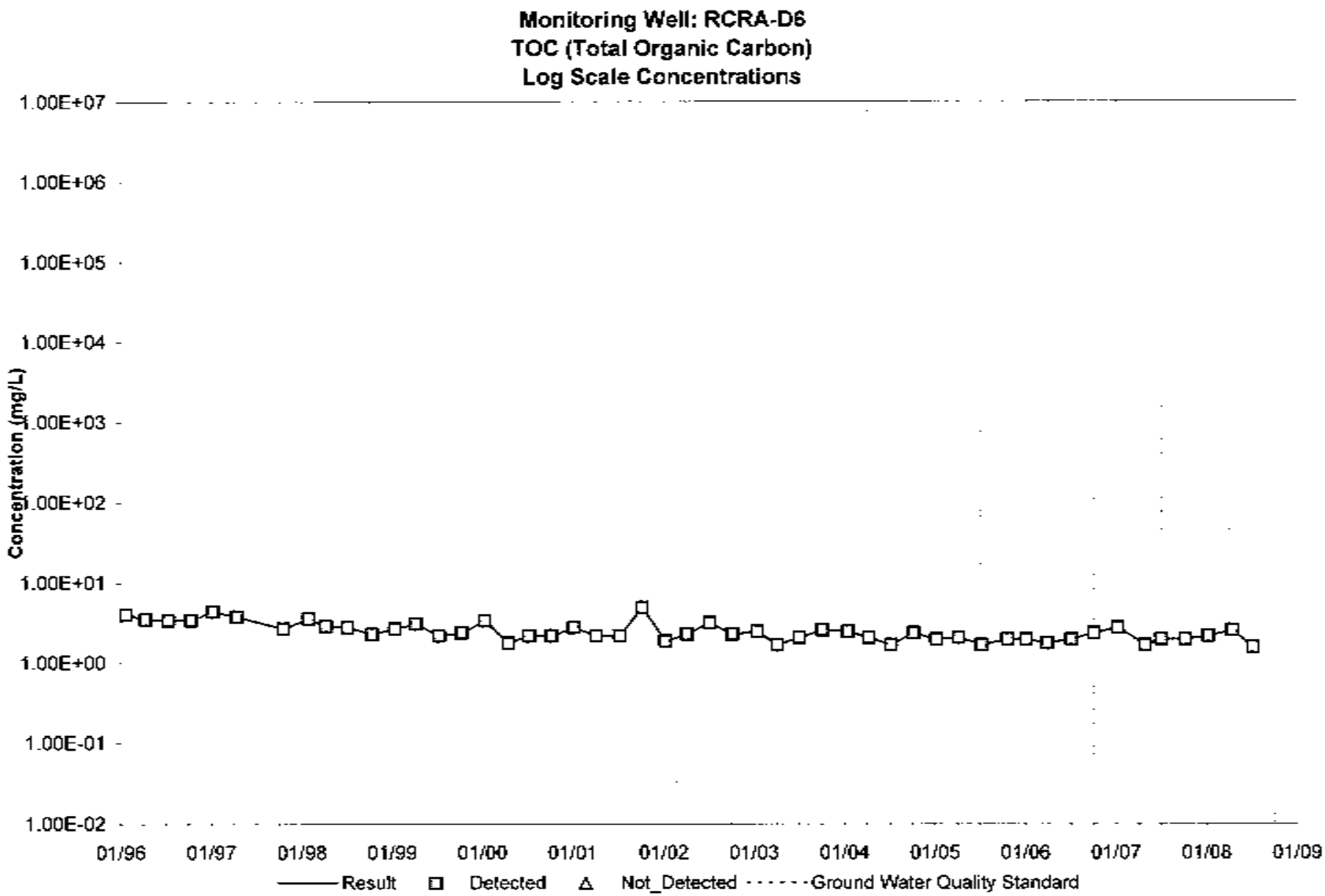
Monitoring Well: RCRA-D2
TOC (Total Organic Carbon)
Log Scale Concentrations

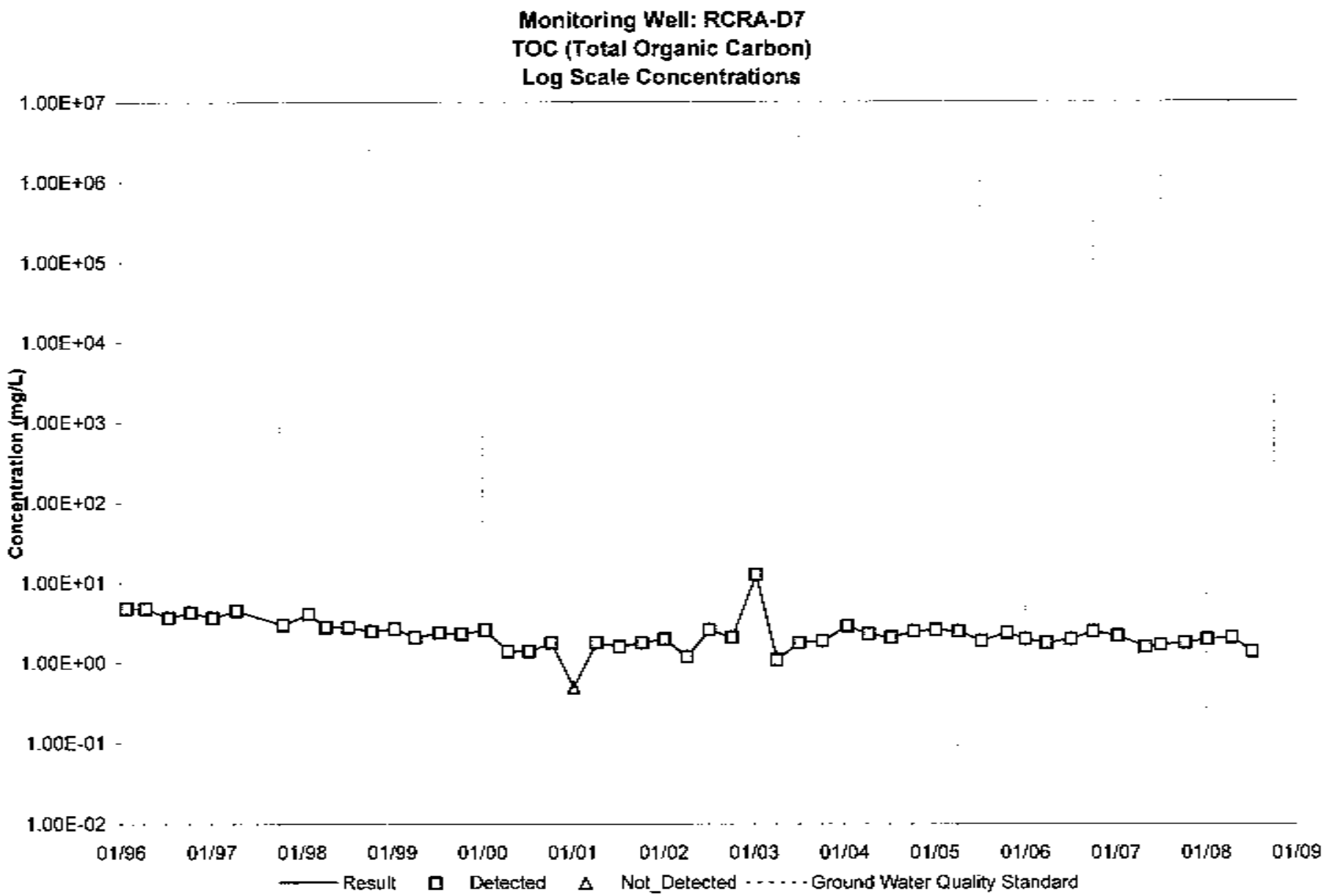


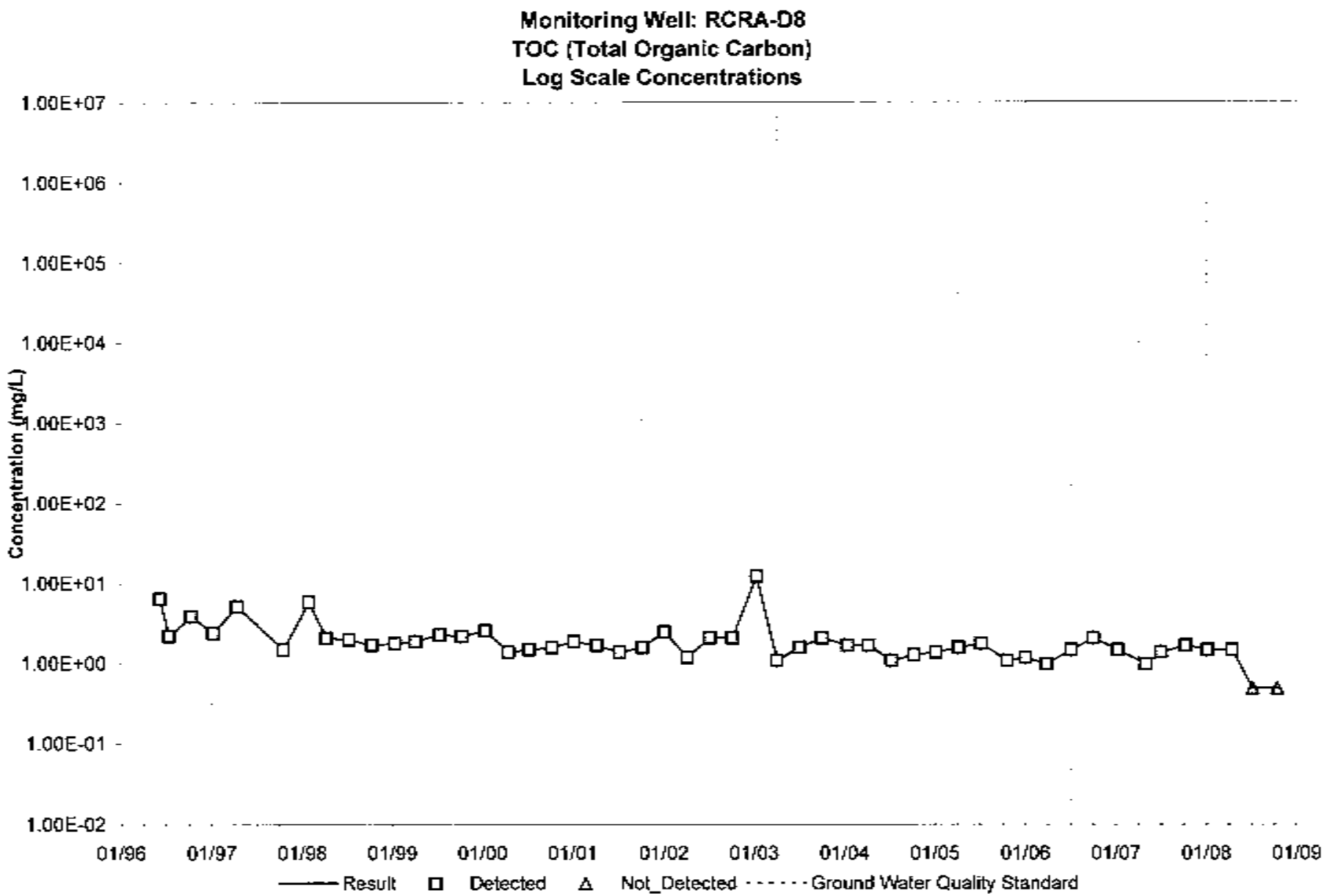

Monitoring Well: RCRA-D3
TOC (Total Organic Carbon)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

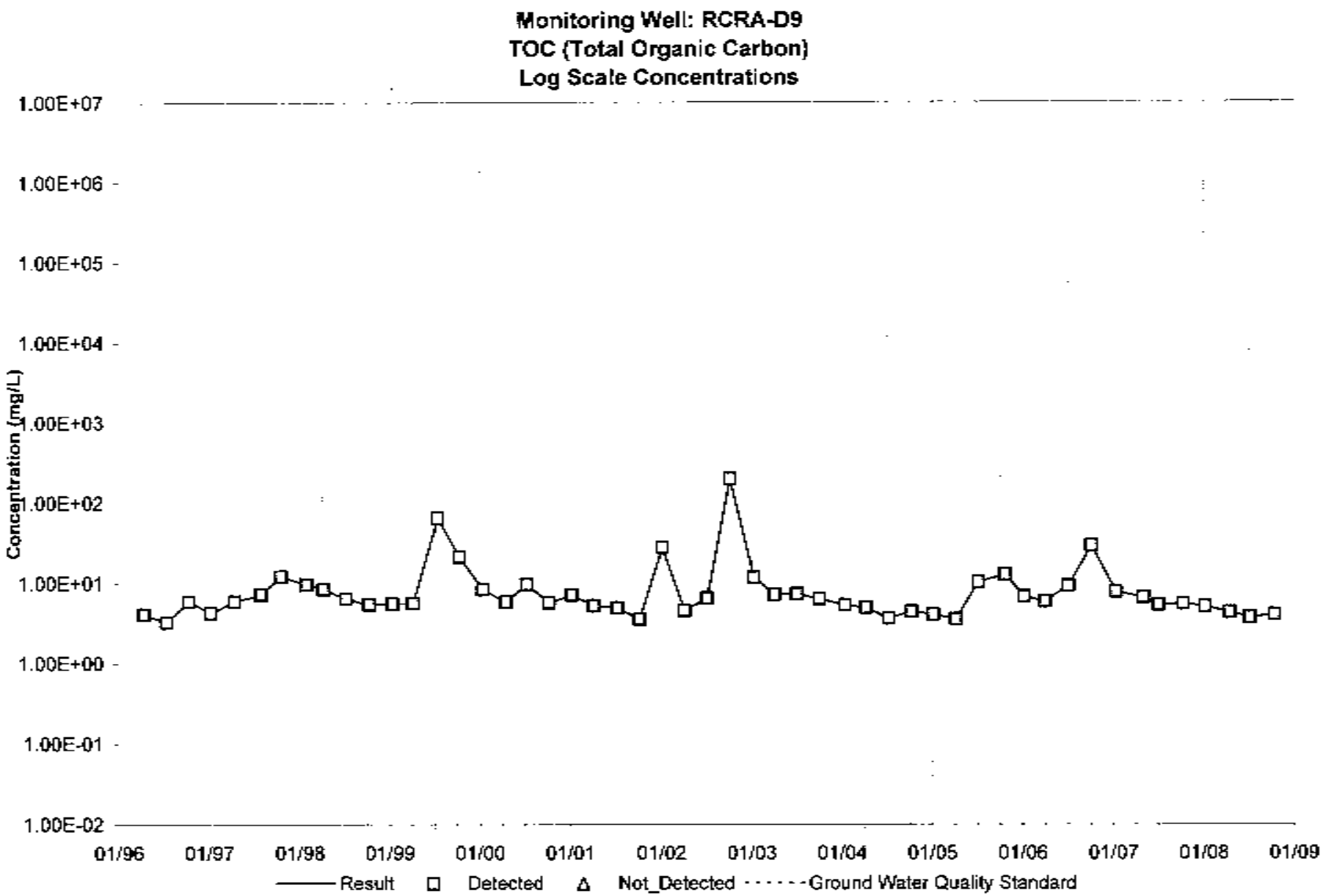

Monitoring Well: RCRA-D4
TOC (Total Organic Carbon)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

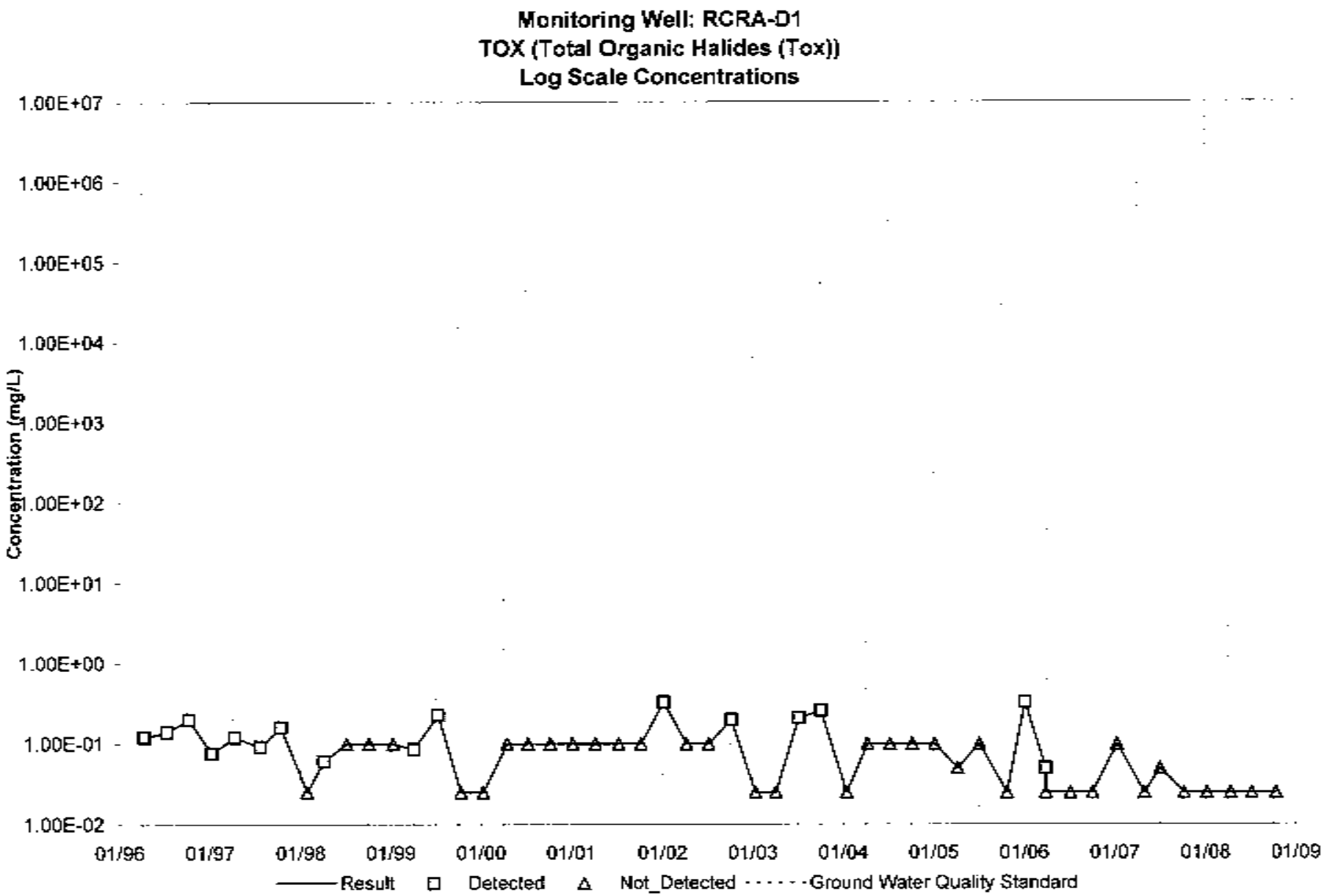

Monitoring Well: RCRA-D5
TOC (Total Organic Carbon)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

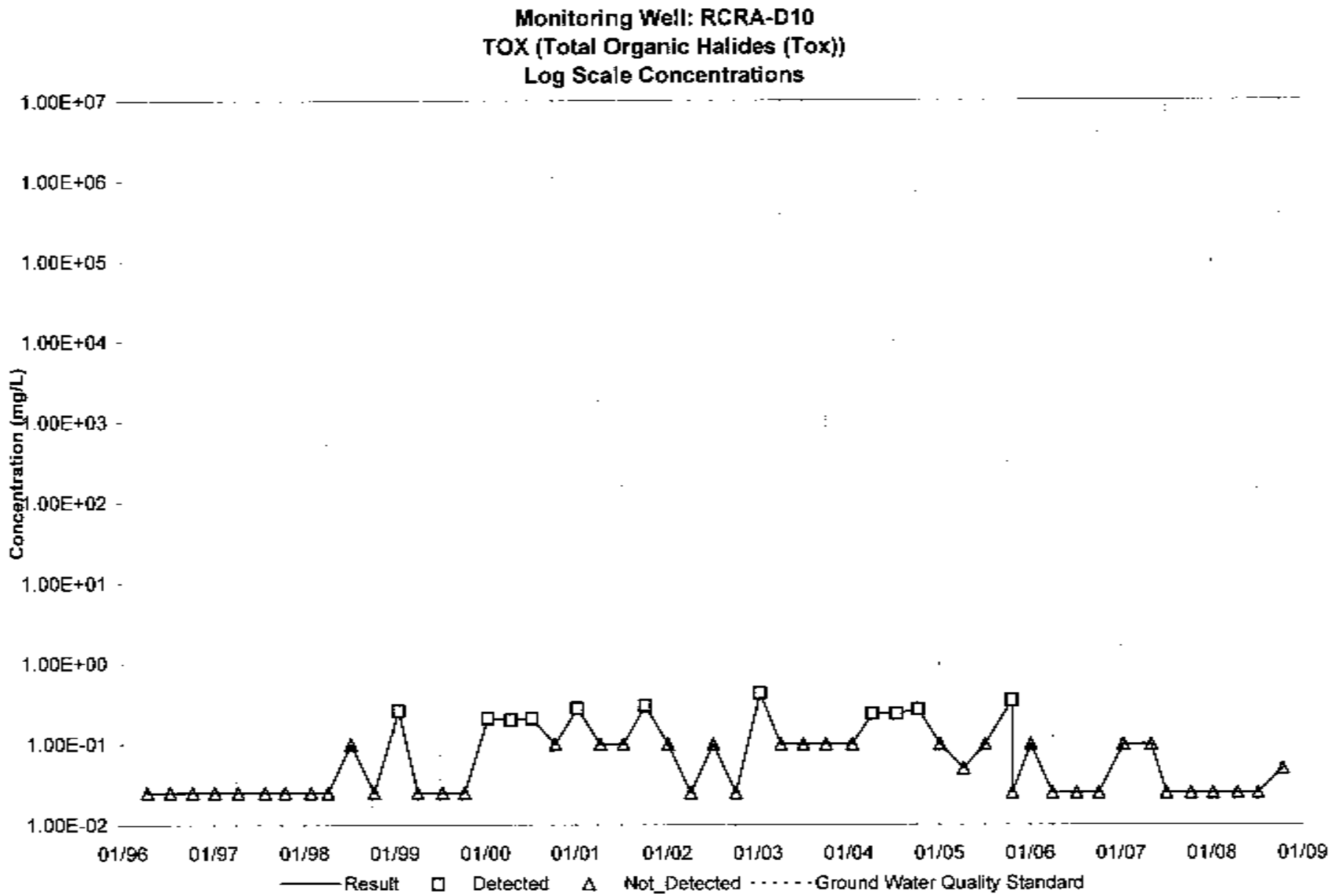

Monitoring Well: RCRA-D6
TOC (Total Organic Carbon)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

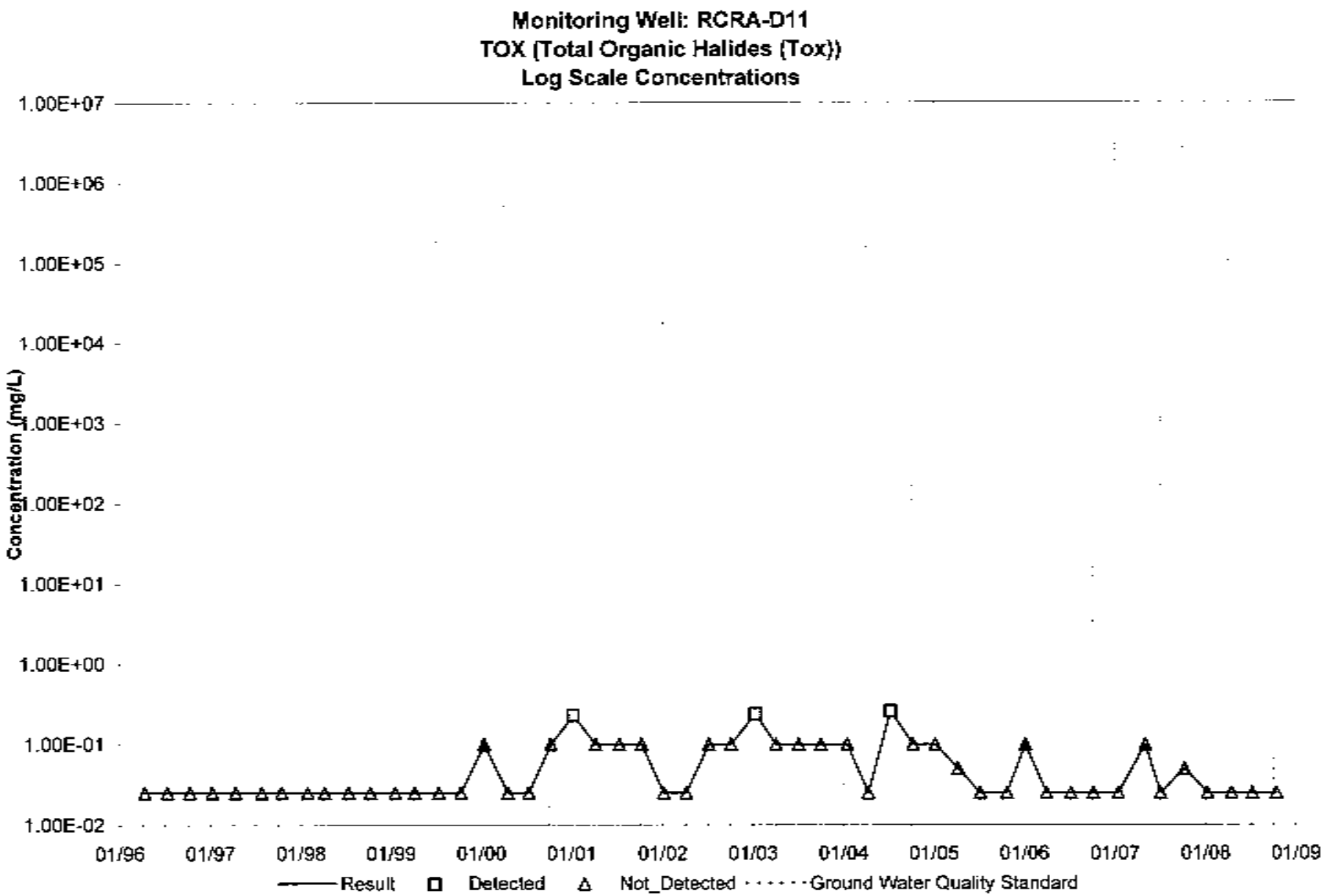

Monitoring Well: RCRA-D7
TOC (Total Organic Carbon)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard


Monitoring Well: RCRA-D8
TOC (Total Organic Carbon)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

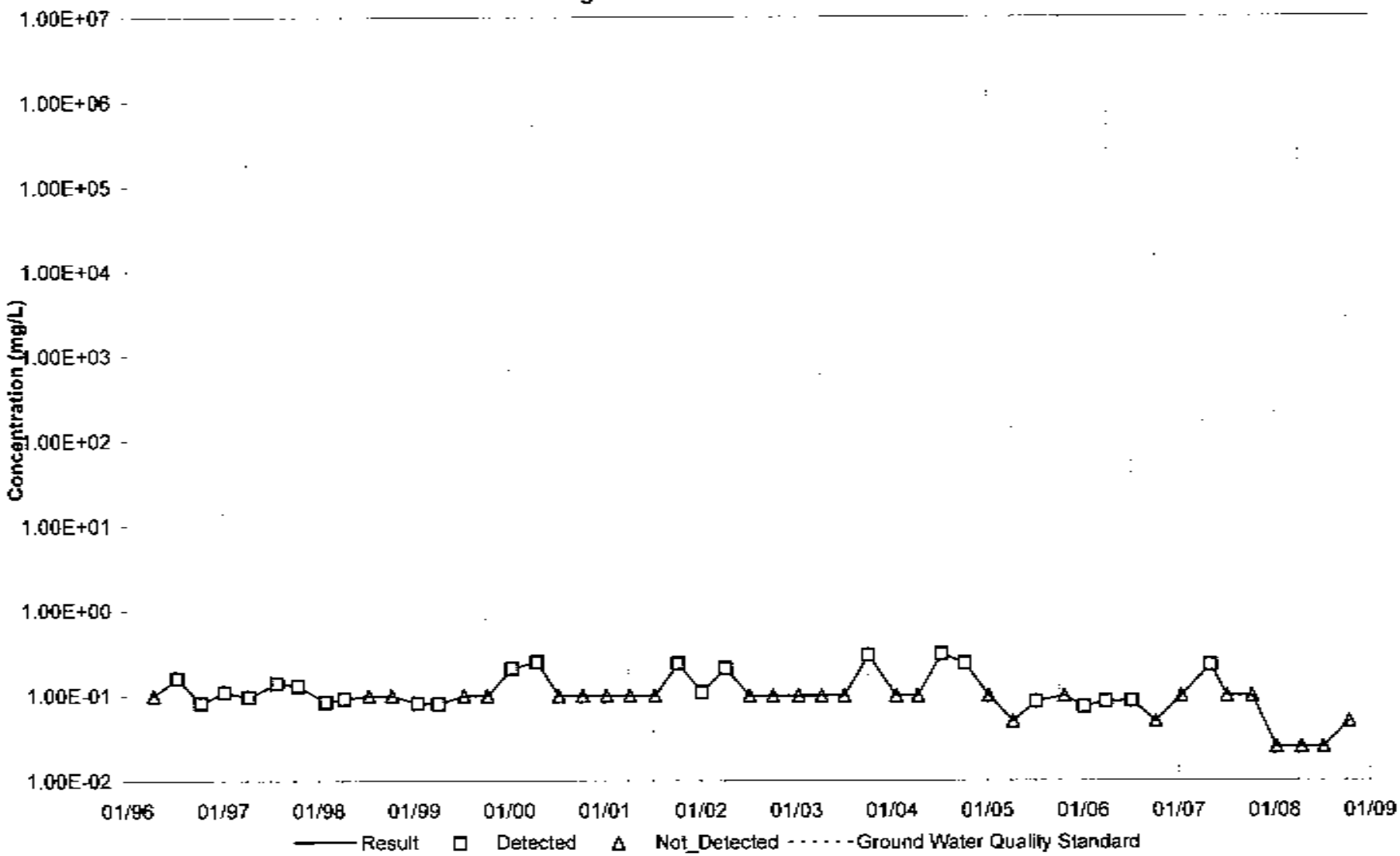

Monitoring Well: RCRA-D9
TOC (Total Organic Carbon)
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

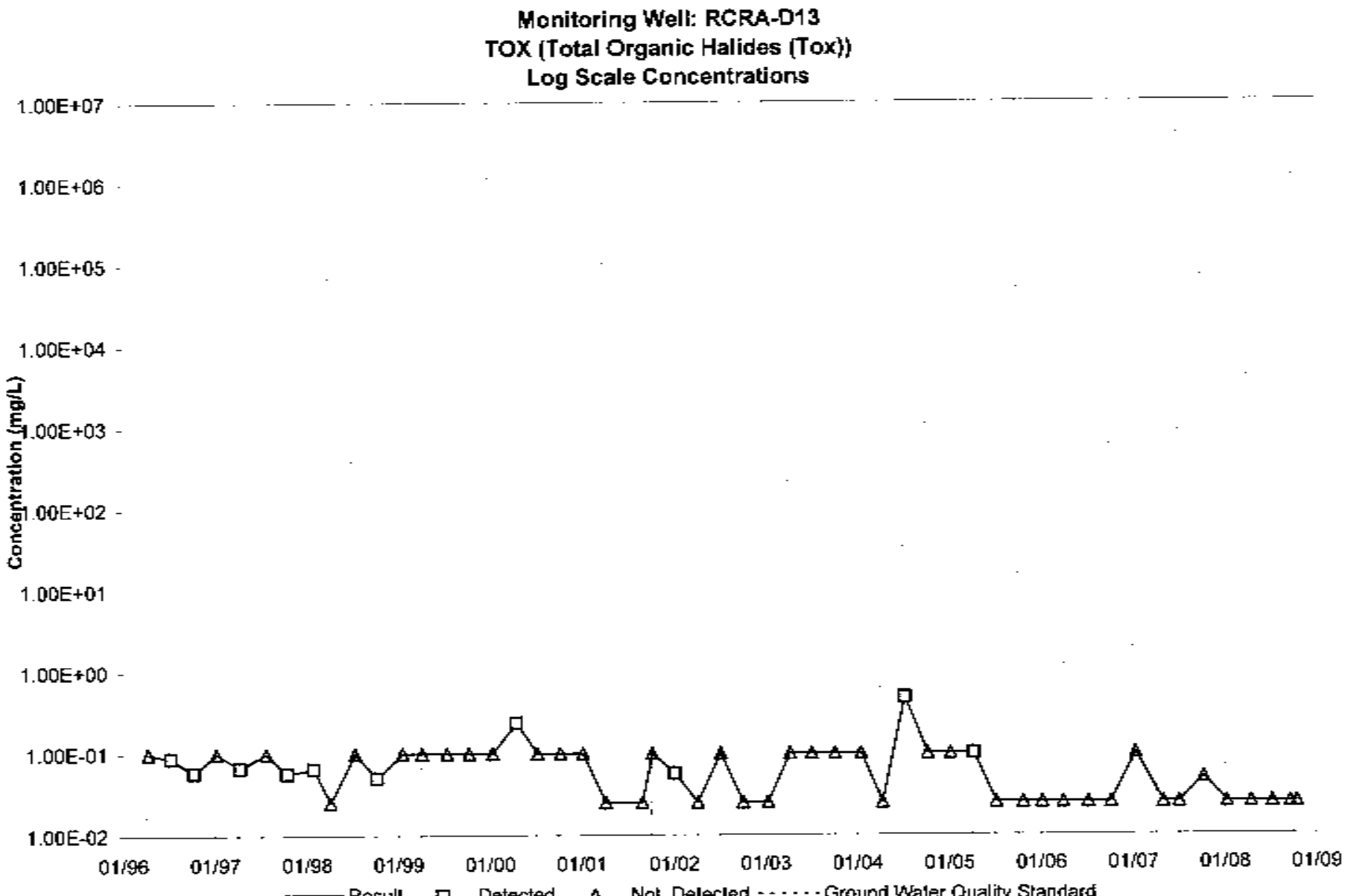

Monitoring Well: RCRA-D1
TOX (Total Organic Halides (Tox))
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard


Monitoring Well: RCRA-D10
TOX (Total Organic Halides (Tox))
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

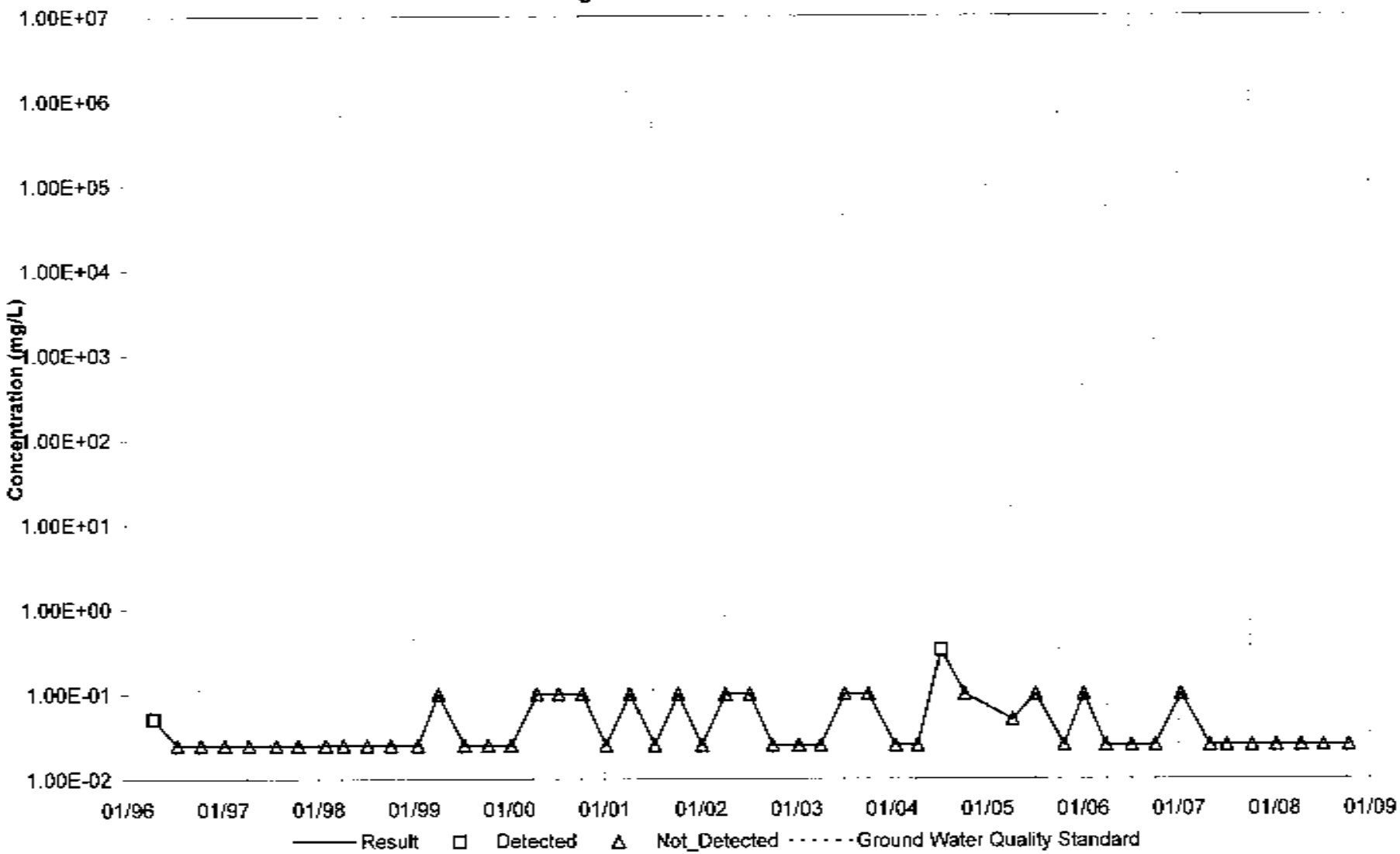

Monitoring Well: RCRA-D11
TOX (Total Organic Halides (Tox))
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

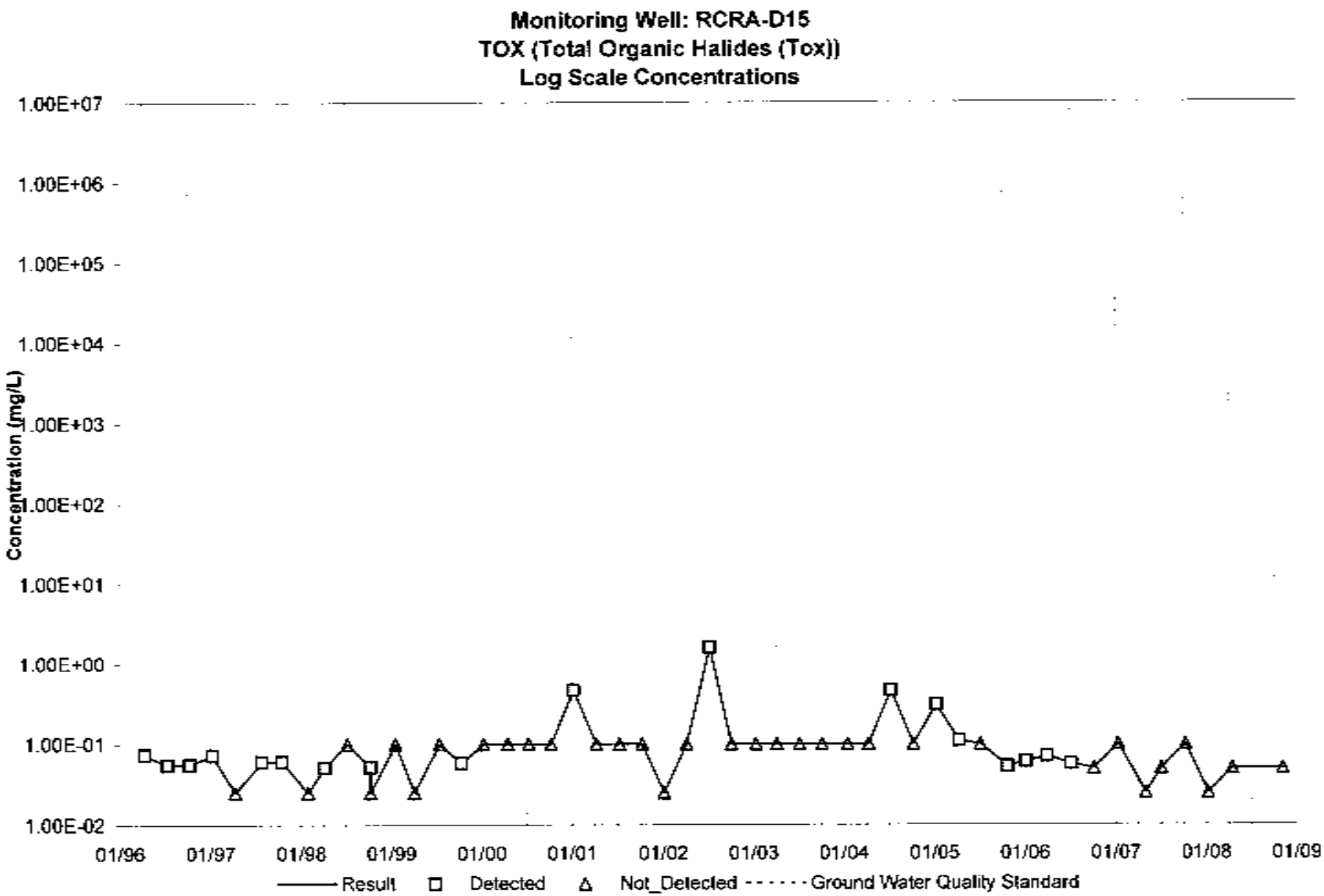
Monitoring Well: RCRA-D12
TOX (Total Organic Halides (Tox))
Log Scale Concentrations

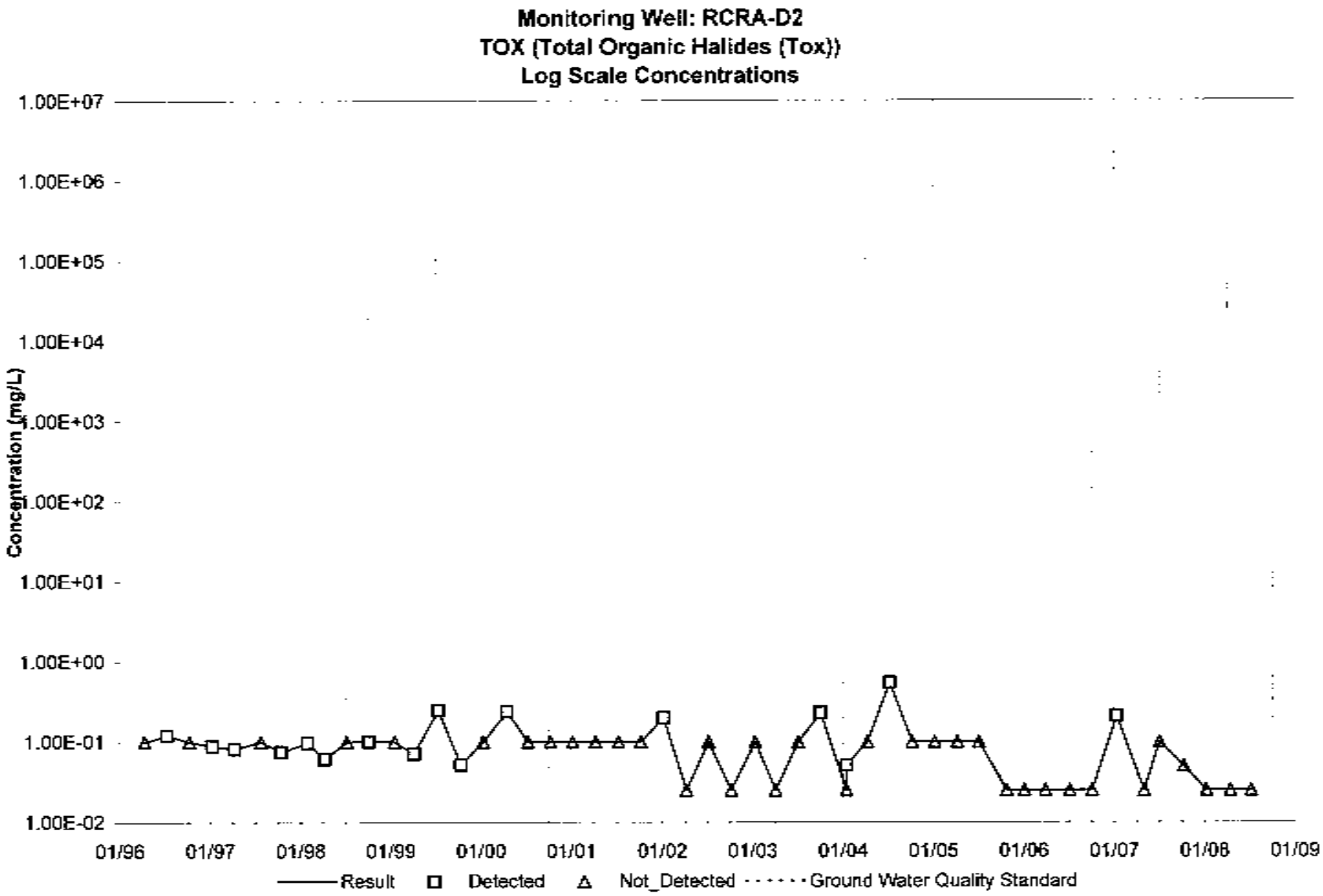


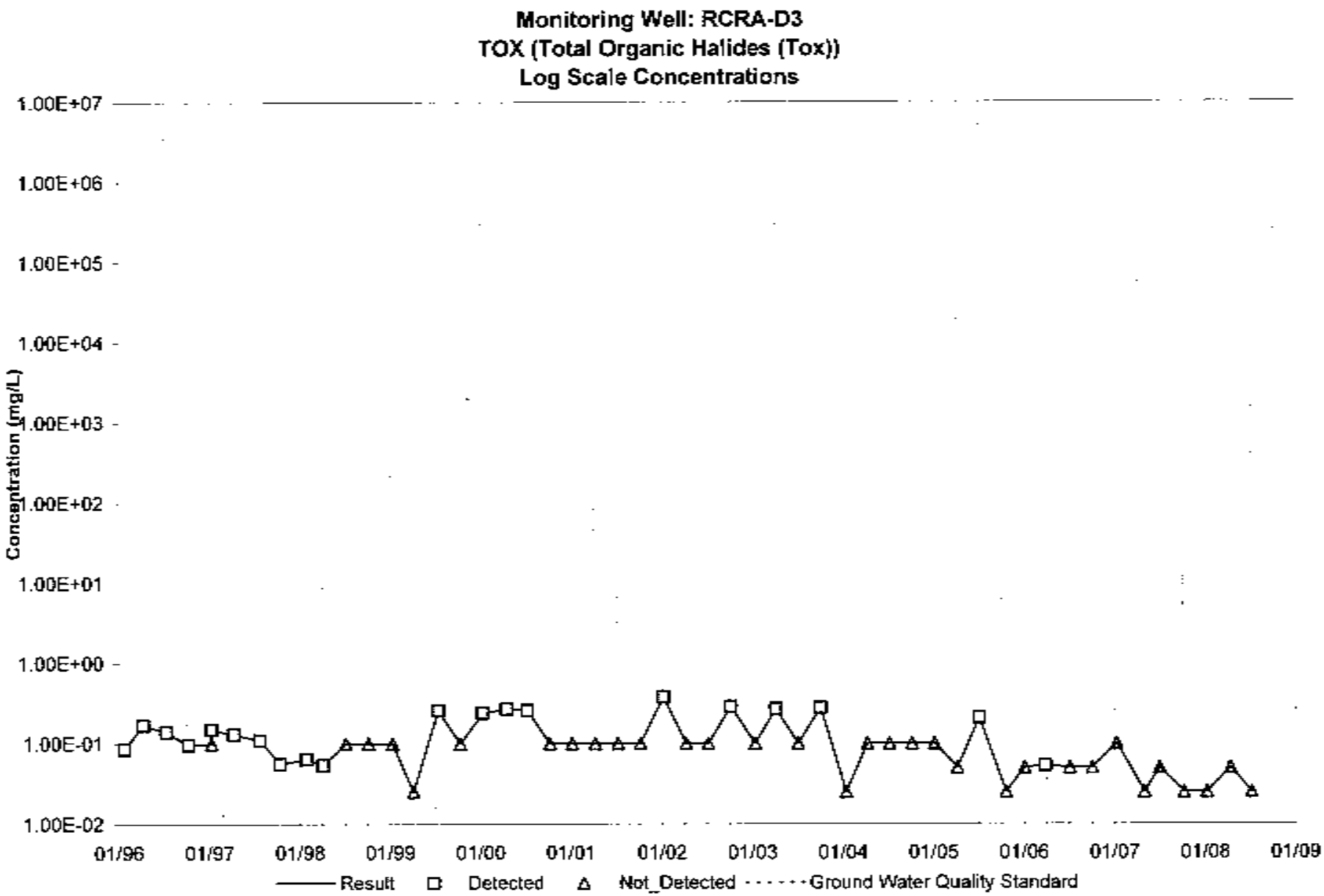

Monitoring Well: RCRA-D13
TOX (Total Organic Halides (Tox))
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

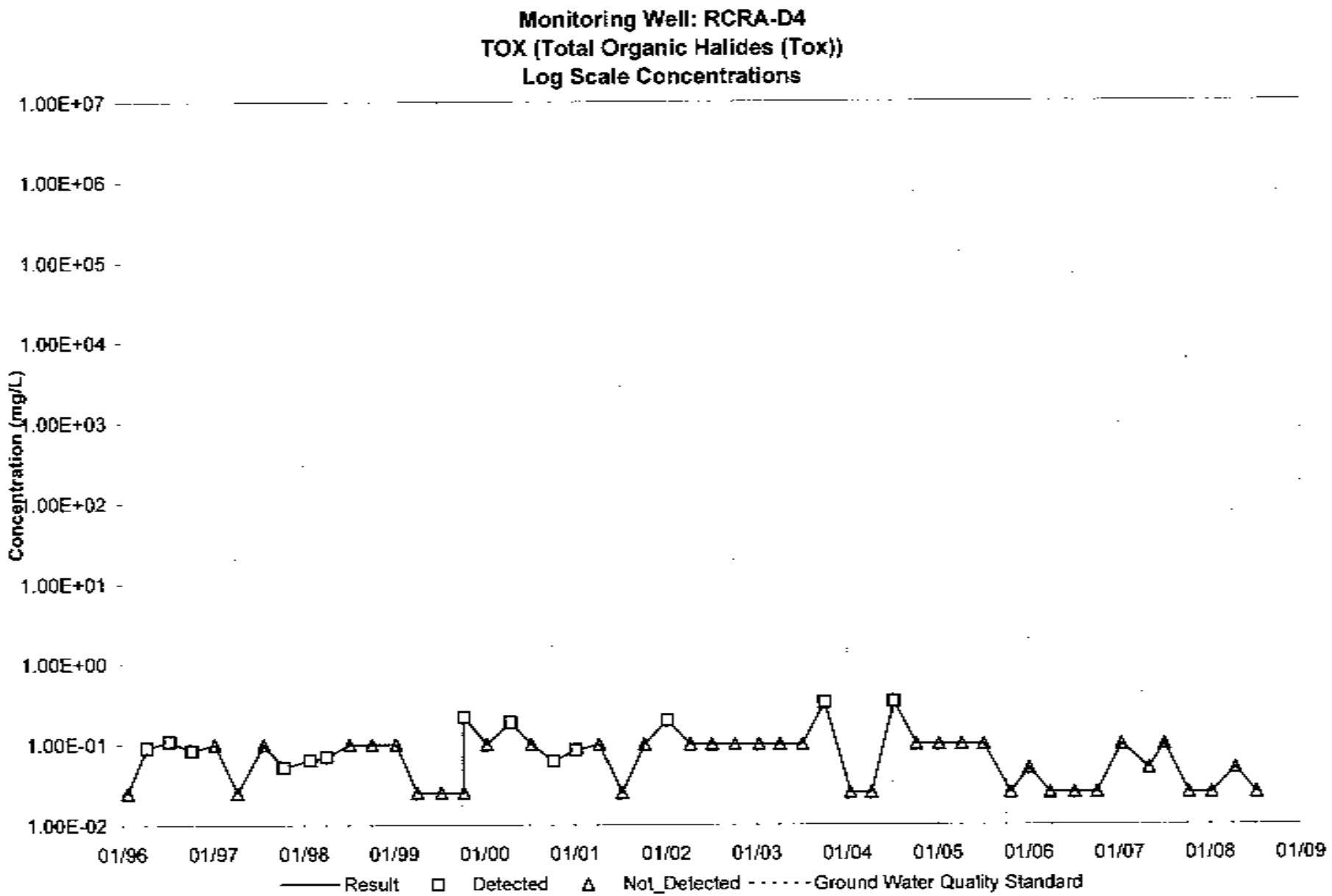
Monitoring Well: RCRA-D14
TOX (Total Organic Halides (Tox))
Log Scale Concentrations

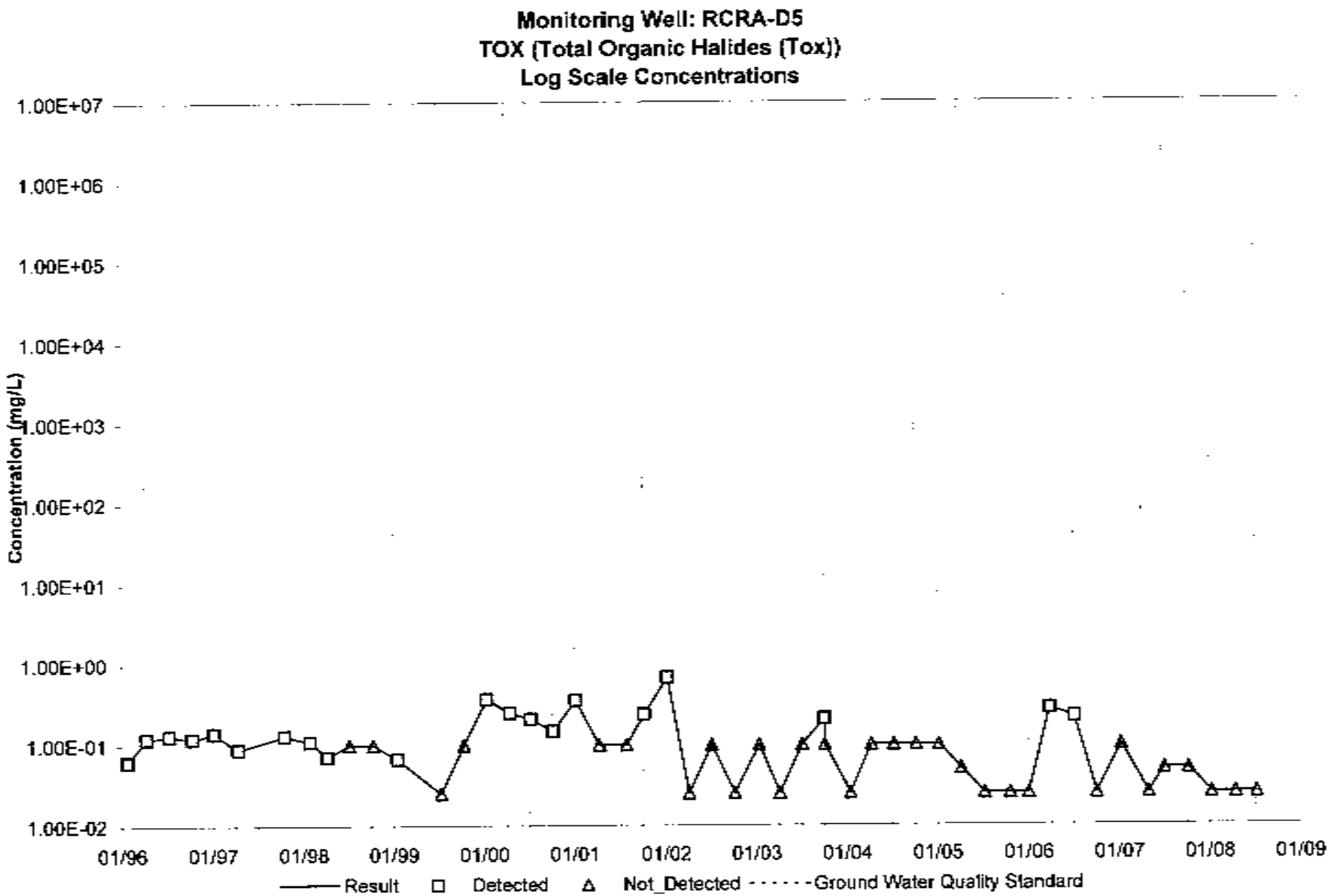


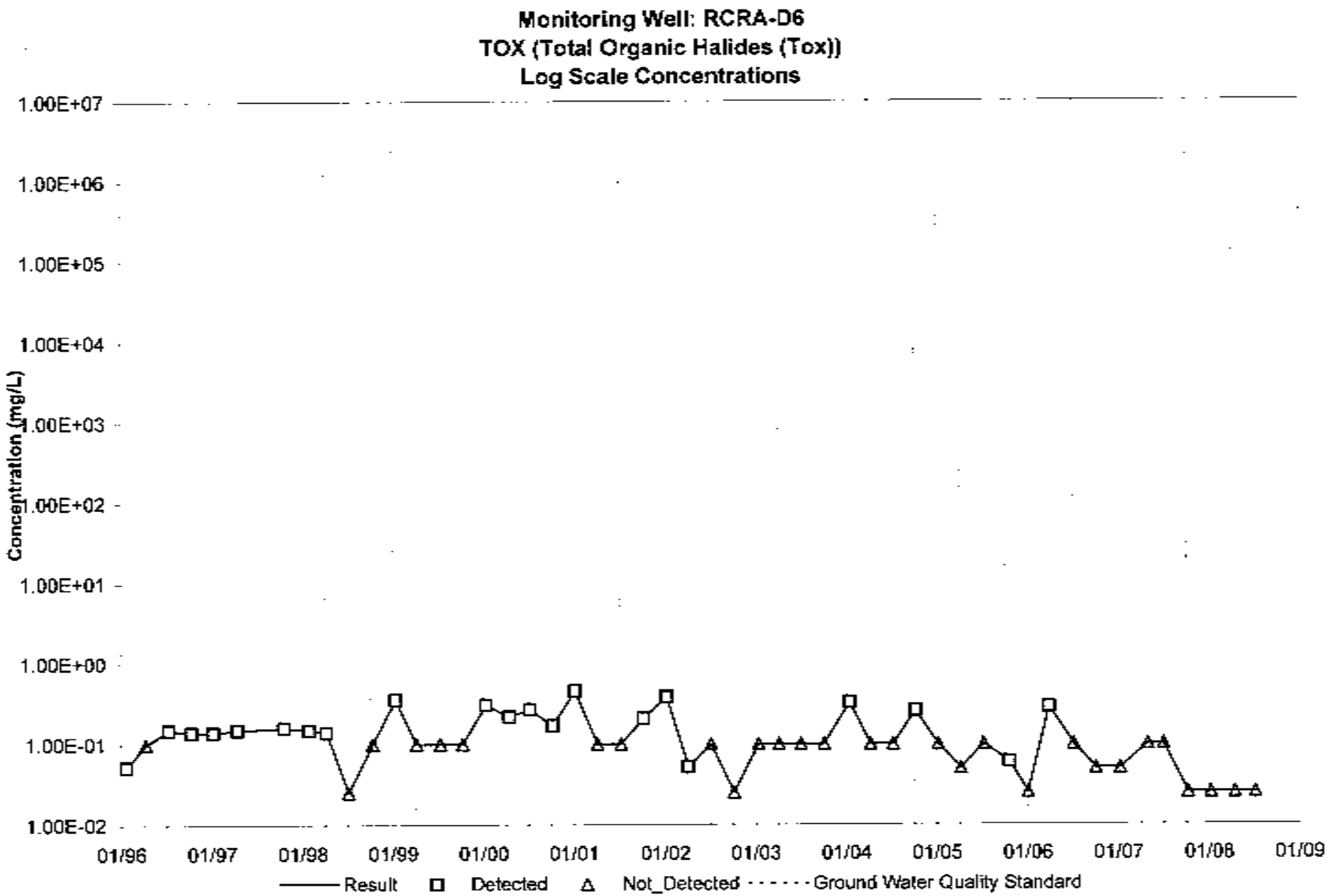

Monitoring Well: RCRA-D15
TOX (Total Organic Halides (Tox))
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard


Monitoring Well: RCRA-D2
TOX (Total Organic Halides (Tox))
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

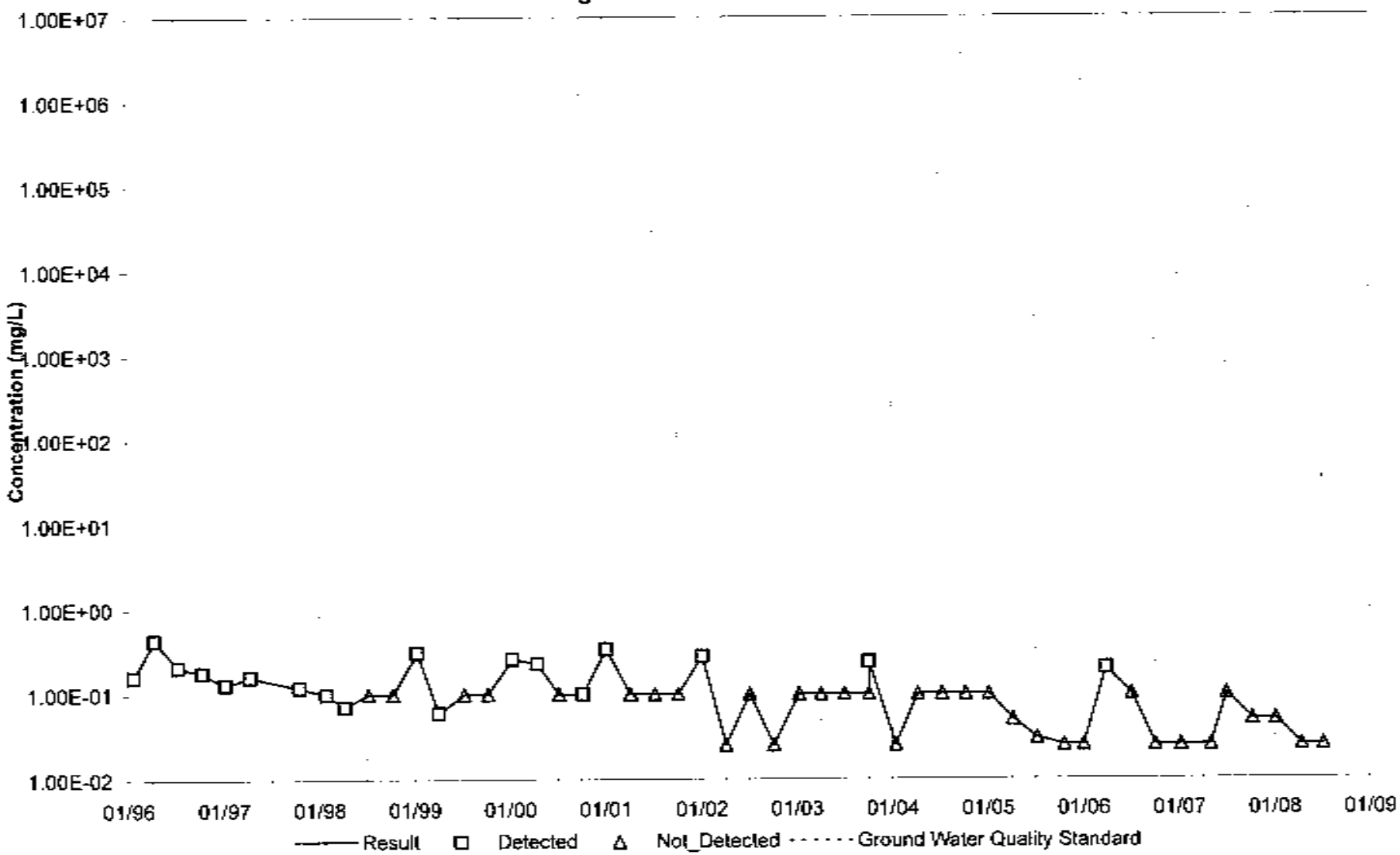

Monitoring Well: RCRA-D3
TOX (Total Organic Halides (Tox))
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

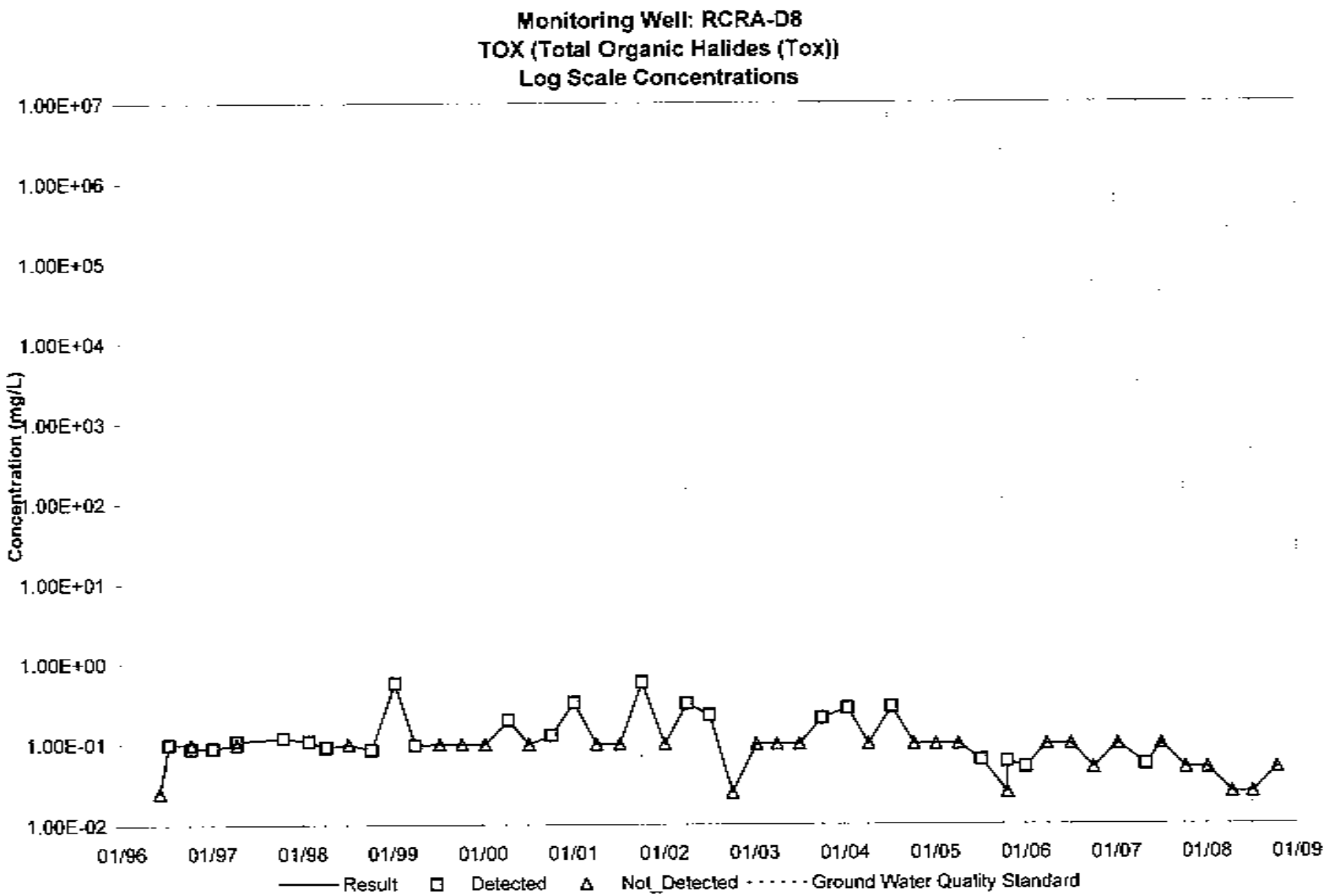

Monitoring Well: RCRA-D4
TOX (Total Organic Halides (Tox))
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

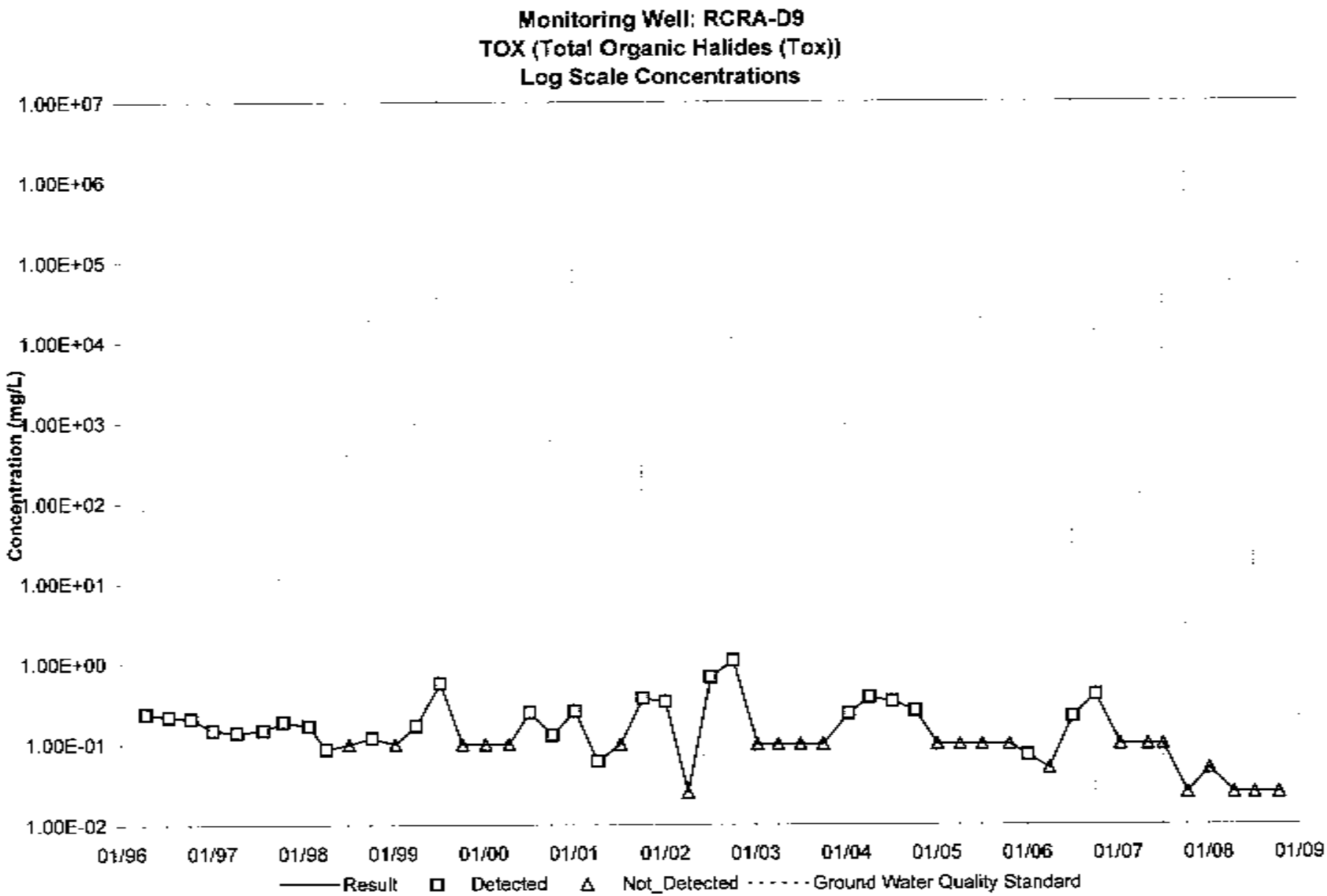

Monitoring Well: RCRA-D5
TOX (Total Organic Halides (Tox))
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard


Monitoring Well: RCRA-D6
TOX (Total Organic Halides (Tox))
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

Monitoring Well: RCRA-D7
TOX (Total Organic Halides (Tox))
Log Scale Concentrations




Monitoring Well: RCRA-D8
TOX (Total Organic Halides (Tox))
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard


Monitoring Well: RCRA-D9
TOX (Total Organic Halides (Tox))
Log Scale Concentrations
Concentration (mg/L)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
01/96
01/97
01/98
01/99
01/00
01/01
01/02
01/03
01/04
01/05
01/06
01/07
01/08
01/09
Result
Detected
Not_Detected
Ground Water Quality Standard

Appendix D

Data Validation Review

Appendix - Wyeth fourth quarter 2008 data review

A limited review of quality control data summary forms was performed for samples collected on 10/21/08, 10/22/08, 10/23/08, 10/24/08, 11/14/08, 12/5/08 and 12/12/08. The following is a report on the results of rejected and negated data identified during this limited review. Analyses performed by the laboratory included TCL volatile organic compounds (VOCs), TCL semivolatile organic compounds (SVOCs), TAL metals, cyanide, chloride, phenol, total organic halides (TOX), total dissolved solids (TDS), total organic carbon (TOC), Gross Alpha, Gross Beta, Radium 226 and Radium 228 analysis.

One trip blank was provided per each sample shipment sent to the laboratory on 10/22/08, 10/23/08, 10/24/08, 11/14/08, and 12/12/08. A trip blank was not provided with the shipment of samples collected 10/21/08. A trip blank was not required for the samples collected 12/5/08. Results were not qualified due to trip blank excursions.

A field blank was collected on the sampling days of 10/21/08, 10/22/08, 10/23/08, 10/24/08 and 12/5/08. A field blank was not collected on the sampling days of 11/14/08 and 12/12/08. The analyses requested for the field blanks included TCL VOCs, TCL SVOCs, TAL metals, cyanide, chloride, phenol, Gross Alpha, Gross Beta, Radium 226 and Radium 228 analysis. Field blanks were not collected for TOX, TDS, and TOC analysis.

Field duplicate analyses were collected and analyzed for TCL VOCs, TCL SVOCs, TAL metals, chloride, TOX, TDS, TOC analysis. Field duplicate analyses were not collected for cyanide, phenol, Gross Alpha, Gross Beta, Radium 226 and Radium 228 analysis.

Summary forms of quality control data, which are listed in the New Jersey Reduced Laboratory Data Deliverables guidance, were reviewed for the data validation task. The laboratory internal quality control program included method and preparation blanks, initial and continuing calibrations and checks, internal standard evaluations, GC/MS tuning, surrogate recovery evaluation, serial dilution analysis, blank spikes, laboratory duplicate analysis, interference check standards, and analysis of matrix spike/matrix spike duplicate (MS/MSD) sets.

Minor excursions were noted during the data review process for holding times, MS/MSD, internal standard, blank, duplicate and serial dilution excursions.

In addition, the following observations were made pertaining to the sample collection:

- Although samples EEE-R02 and EEE-R03 were submitted for MS/MSD analyses, the laboratory did not perform MS/MSD analyses for these samples.
- A sample container for sample XXP3 was received by the laboratory but the sample was not listed on the chain-of-custody record.
- The chain-of-custody record associated with the samples collected 10/21/08 and submitted for radiochemistry analysis was incomplete; the year that the samples were collected was not listed on the record.

The major excursions that resulted in rejection or negation of sample results, in accordance with NJDEP validation guidance, included the following:

- The result for chloroform in sample 38R01 (collected 10/24/08) was flagged as negated, 3 due to blank contamination in the associated trip blank.
- The results for SVOCs including 2-chlorophennol, 4-chloro-3-methylphenol, 2,4-dichlorophenol, 2,4-dimethylphenol, 2,4-dinitrophenol, 4,6-dinitro-o-cresol, 2-methylphenol, 3/4-methylphenol, 2-

nitrophenol, 4-nitrophenol, phenol, 2,4,5-trichlorophenol, and 2,4,6-trichlorophenol in sample EEE-R 01 (10/21/08) were rejected (Rejected, R, 81A) due to the low recovery of the associated surrogate in the sample to indicate a major accuracy excursion, in accordance with NJDEP validation guidelines.

- The result for pentachlorophenol in sample CCC-R 01 (10/21/08) was rejected (Rejected, R, 81A) due to the low recovery of the associated surrogate in the sample to indicate a major accuracy excursion, in accordance with NJDEP validation guidelines.
- The results for bromomethane, chloroethane, chloromethane and vinyl chloride in sample RCRA-D3 01 (10/21/08) were rejected (Rejected, R, 87) due to the low recovery of the target analytes in the associated MS sample to indicate major accuracy excursions, in accordance with NJDEP validation guidelines.

The remaining minor excursions detected would not require rejection or negation of data based on NJDEP data validation standard operating procedures.

Based on the limited review performed, in general, both field and laboratory quality control results indicated that the data produced during the sampling and analysis program, which are presented in this report, are valid.

Considering the complete data set for this investigation, the overall data usability in terms of data that has not been rejected or negated is greater than 95 percent, which meets the criterion of greater than 95 percent.

Final review of data by: _____

Karen Storne Date
Senior Scientist/Data Validator

Appendix E

Impound 8 Leachate Monitoring Data

Appendix E
Leachate Monitoring Results
Wyeth Holdings Corporation
Bound Brook Remediation Program

Cell 1

Monitoring Date	Average Leachate Detection (Secondary System) Quantity (gpad)
October 1, 2008	218
October 8, 2008	37
October 15, 2008	17
October 22, 2008	5
October 29, 2008	258
November 5, 2008	38
November 12, 2008	8
November 19, 2008	16
November 26, 2008	23
December 3, 2008	17
December 10, 2008	10
December 17, 2008	448
December 24, 2008	37
December 31, 2008	20

Source: O'Brien & Gere Engineers, Inc.

Cell 2

Monitoring Date	Average Leachate Detection (Secondary System) Quantity (gpad)
October 1, 2008	0
October 8, 2008	26
October 15, 2008	20
October 22, 2008	31
October 29, 2008	0
November 5, 2008	20
November 12, 2008	22
November 19, 2008	17
November 26, 2008	0
December 3, 2008	0
December 10, 2008	1
December 17, 2008	4
December 24, 2008	1
December 31, 2008	14

Source: O'Brien & Gere Engineers, Inc.

Appendix E
Leachate Monitoring Results
Wyeth Holdings Corporation
Bound Brook Remediation Program

Cell 3

Monitoring Date	Average Leachate Detection (Secondary System) Quantity (gpad)
October 1, 2008	0
October 8, 2008	311
October 15, 2008	2
October 22, 2008	307
October 29, 2008	0
November 5, 2008	0
November 12, 2008	310
November 19, 2008	943
November 26, 2008	0
December 3, 2008	0
December 10, 2008	46
December 17, 2008	0
December 24, 2008	421
December 31, 2008	712

Source: O'Brien & Gere Engineers, Inc.

Cell 4

Monitoring Date	Average Leachate Detection (Secondary System) Quantity (gpad)
October 1, 2008	0
October 8, 2008	0
October 15, 2008	0
October 22, 2008	0
October 29, 2008	0
November 5, 2008	14
November 12, 2008	0
November 19, 2008	20
November 26, 2008	0
December 3, 2008	0
December 10, 2008	2
December 17, 2008	0
December 24, 2008	0
December 31, 2008	0

Source: O'Brien & Gere Engineers, Inc.

Appendix F

Ground water Velocity Calculations

Appendix F - Ground water velocity calculation

1. Background Information
   K: Hydraulic Conductivity
   1.52×10^{-3} ft/min (previous reports)
   i: Hydraulic Gradient (from contour plan Figure 4-3)
   Eastern side calculated from well RCRA-D1 to RCRA-D6:
   $\frac{24.30 - 21.67}{817} = 0.003$ ft/ft
   Western side calculated from well RCRA-D14 to RCRA-D11:
   $\frac{26.82 - 21.42}{860} = 0.006$ ft/ft
   A: Cross-sectional Area
   Q: Discharge
   V: Specific Discharge
   v: Actual flow velocity
   n: Porosity
   estimated to be 0.10 (from Freeze & Cherry 1979)

2. Darcy's Law
   $Q = KiA$

3. Dividing (Q) by (A) to obtain specific discharge (V)
   $V = Ki$

4. To account for porosity, (V) is divided by (n). This is results from the fact that ground water only flows through pore spaces in the material.

   $v = V/n$

The following provides the flow calculation for the gradient determined above.

5. Eastern Side
   Ground water flow from
   well RCRA-D1 to RCRA-D6

   $v = 4.56 \times 10^{-5}$ ft/min
   $v = 23.97$ ft/yr

   Western Side
   Ground water flow from
   well RCRA-D14 to RCRA-D11:

   $v = 9.12 \times 10^{-5}$ ft/min
   $v = 47.93$ ft/yr

Appendix G

Description of Statistical Methods

CYANAMID

RECEIVED
JAN 23 1992
BLASLAND, BOUCK & LEE
NEW JERSEY

To: J. Jerome

Date: 21 Jan 1998

Location: Bound Brook

Copy to: F. Bruey
C. Costello (BB&L)

From: P. Portini

Location: Stamford

Extension: 2685

Subject: Groundwater Monitoring Statistical Test

Reference: Memo, P.F. to J.J., "Impound 8 detection monitoring program", 2 June 1987.

This note relates to a statistical test recommended (ref.) for comparing indicator parameters for downgradient wells with a set of upgradient wells. Intended to properly account for well-to-well (spatial) variability, the t-test statistic is

$$t_i = (y_i - \bar{x})/s\sqrt{(1 + 1/n)}$$

where $\bar{x}$ and s (with n-1 degrees of freedom) are the average and standard deviation of results for n upgradient wells, and y_i is observed for the i-th downgradient well. Critical values based on Dunnett(1955) were recommended to take account of the multiple comparisons problem, which arises when tests are carried out for several downgradient wells simultaneously.

Critical values for the t-test are required for the case where results from nine downgradient wells are to be compared against the distribution from four upgradient wells. The parameters are slightly outside the range given by Dunnett.

The critical value for the t-test depends on:

- The significance level. We understand that the 0.05 level is to be used.

- The number of degrees of freedom for s. This is n-1 = 3 for four upgradient wells used.

- Whether a one-sided or two-sided test is desired. In a one-sided test, only positive t_i larger than a critical value are statistically significant. In a two-sided test, t_i positive or negative is significant if larger in absolute value than the critical value.

- Whether the multiple comparisons problem is to be taken into account. If not, Student's t critical values apply. However, the

expected number of rejections, assuming all k downgradient wells are effectively in the same population as upgradient, will be 0.05*k. Dunnett critical values are intended to control the overall probability of rejection on the assumption of no up- versus down-difference to 0.05. Critical values are percentage points of the distribution of $\max(t_i)$.

- When account of multiple comparisons is to be taken, the number of downgradient wells, k, being compared at one time with upgradients. In the present case, k=9.

- The ratio of numbers of observations for each treatment to the numbers of controls. This is a technical item in the statistical theory. In the present case, the parameter ρ (rho) equals $1/(1+n)$ = 0.2.

We looked into the literature on tabulation of critical values for this test statistic. Dunnett(1955,1964) gives 0.05 level critical values for one and two sided multiple comparisons for $\rho = 0.5$, degrees of freedom 5 or greater, and k up to 9. Hahn and Hendrickson(1971) give critical values for two-sided tests for values of ρ including 0.2, degrees of freedom 3 or greater, and k up to 20. They do not give values for one-sided tests; the value for two-sided level 0.10 is used below as an approximation to one-sided level 0.05. Beohhofer and Dunnett(1988) is the most recent tabulation. This is not readily available, so has not been consulted.

Critical t values for comparison of nine downgradient with four upgradient wells using t_i (i=1,...,9) as above are as follows. Student's t figures are as commonly tabulated for 3 degrees of freedom and 0.05 significance. Multiple comparisons t figures are from Table 2 of Hahn and Hendrickson(1971), for $\rho = 0.2$, df = 3, k = 9 (by interpolation between k=8 and k=10).

	Critical t value for 0.05 significance level	
	One-sided	Two-sided
Student's t: The t_i statistic for each downgradient well is below the critical value with probability 0.95 when y_i comes from the same normal population as $x_1,\ldots,x_4$.	2.35	3.18
Multiple Comparisons t: All t_i statistics for nine downgradient wells are below the critical value with probability 0.95 when $y_1,\ldots,y_9$ come from same normal population as $x_1,\ldots,x_4$.	4.31*	5.61

* Critical value for 0.10 level two-sided test.

REFERENCES:

C. W. Dunnett (1955), "A multiple comparison procedure for comparing several treatments with a control", J. Amer Statist. Assoc. 50:1096-1121.

C. W. Dunnett (1964), "New tables for multiple comparisons with a control", Biometrics 20:482-491. (supersede table 2a and 2b of the 1955 paper.)

G. J. Hahn and R. W. Robertson (1971), "Distribution of the largest absolute value of k Student t variates and its applications", Biometrika 58:323-332.

R. E. Bechhofer and C. W. Dunnett (1988), "Tables of Percentage Points of Multivariate Student t Distributions" (Selected Tables in Mathematical Statistics, No. 11), Providence, RI: American Mathematical Society.

Peter Fortini

Peter Fortini

Biometrika (1971), 58, 2, p. 323
Printed in Great Britain

A table of percentage points of the distribution of the largest absolute value of k Student t variates and its applications

BY GERALD J. HAHN AND RICHARD W. HENDRICKSON
General Electric Company, Schenectady, New York

SUMMARY

A table of $100\gamma\%$ points of the maximum absolute value $|t|$ of the k-variate Student t distribution with ν degrees of freedom and common correlation ρ is given for various values of k, ν, ρ and γ. The application of these tables to problems dealing with the construction of simultaneous confidence and prediction intervals is briefly described.

1. INTRODUCTION

The multivariate Student t distribution appears to have been first discussed by Dunnett & Sobel (1954, 1955) and by Cornish (1954). In particular, the expression for the k-variate Student t probability density function with ν degrees of freedom is

$$f(t_1, \ldots, t_k; \nu, \mathbf{R}) = \frac{\Gamma\{\frac{1}{2}(k+\nu)\}\,|\mathbf{R}|^{-\frac{1}{2}}}{(\nu\pi)^{\frac{1}{2}k}\,\Gamma(\frac{1}{2}\nu)}\,(1+\mathbf{t}'\mathbf{R}^{-1}\mathbf{t}/\nu)^{-\frac{1}{2}(k+\nu)},$$

where $\mathbf{t} = (t_1, \ldots, t_k)'$ and $\mathbf{R}$ is a $k \times k$ element correlation matrix. We shall be concerned with the special case where all off-diagonal elements of $\mathbf{R}$ are equal to a constant value ρ and will denote the resulting probability density as $f(t_1, \ldots, t_k; \nu, \rho)$.

This article provides tabulations of percentage points of the maximum absolute value $|t|$ of the k-variate Student t distribution with ν degrees of freedom and common correlation ρ, i.e. the tabulated values given here are the solutions $u = u(k, \nu, \rho; \gamma)$ to

$$G(u) = \int_{-u}^{u} \cdots \int_{-u}^{u} f(t_1, \ldots, t_k; \nu, \rho)\, dt_1 \ldots dt_k = \gamma$$

for various values of k, ν, ρ and γ. Application of these tabulations to problems dealing with the construction of simultaneous prediction and confidence intervals are indicated in §3. Many, but not all, of these applications have been presented previously in the literature.

Some existing specialized tabulations of $u(k, \nu, \rho; \gamma)$ are given by:

(a) Dunn & Massey (1965) for limited values of k and ν;
(b) Dunnett (1964) for $\rho = 0{\cdot}5$, and $\gamma = 0{\cdot}95$ and $0{\cdot}99$;
(c) Pillai & Ramachandran (1954) for $\rho = 0$ and $\gamma = 0{\cdot}95$;
(d) Steffens (1959) for $k = 2$.

In addition, Dunnett (1964) provided adjustment factors to his tabulations for $\rho = 0{\cdot}5$ to obtain values of $u(k, \nu, \rho; \gamma)$ for values of $0 \leqslant \rho < 0{\cdot}5$. These adjustment factors were claimed by Dunnett to provide accuracy to one unit in the second decimal place over the range $0{\cdot}125 \leqslant \rho < 0{\cdot}5$ and for the extreme case where $\rho = 0$, to give a value which is too high, but even then by only approximately three units in the second decimal place before

rounding. These claims were supported by the results of the computer program described below. In addition, a table of $G(u)$ for various combinations of k, ν and ρ has been developed by Dunn, Kronmal & Yee (1968).

Despite the preceding specialised tabulations, there is, as indicated by Miller (1966, p. 78), a need for more extensive tables. The purpose of the present tabulations is to help satisfy this need. Another related general set of tabulations is that of percentage points of the multivariate t^2 distribution given in an unpublished report by P. R. Krishnaiah and J. V. Armitage for all combinations of $k = 1(1)10$, $\nu = 5(1)35$, $\rho = 0{\cdot}05(0{\cdot}05)0{\cdot}9$ and $\gamma = 0{\cdot}90$, $0{\cdot}95$, $0{\cdot}975$ and $0{\cdot}99$. The square roots of these values, which are given to two decimal places, yield values comparable to those given in the present tables.

Companion tables of percentage points of the maximum signed value of the multivariate Student t distribution have previously been given in an unpublished report by P. R. Krishnaiah and J. V. Armitage for all combinations of $k = 1(1)10$, $\nu = 5(1)35$, $\rho = 0{\cdot}0(0{\cdot}1)0{\cdot}9$ and $\gamma = 0{\cdot}90$, $0{\cdot}95$, $0{\cdot}975$ and $0{\cdot}99$. These tabulations have been published in the literature for $\gamma = 0{\cdot}95$ and $\gamma = 0{\cdot}99$ (Krishnaiah & Armitage, 1966) and are applicable for the one-sided analogues of the applications indicated in §3.

2. DESCRIPTION OF THE TABLES

Tables 1 to 4 provide tabulations of the factors $u(k, \nu, \rho; \gamma)$ for all combinations of $k = 1(1)6, 8, 10, 12, 15, 20$; $\nu = 5(1)12, 15, 20, 30, 40, 60$; $\rho = 0{\cdot}0$ (Table 1), $0{\cdot}2$ (Table 2), $0{\cdot}4$ (Table 3) and $0{\cdot}5$ (Table 4); and $\gamma = 0{\cdot}90$, $0{\cdot}95$ and $0{\cdot}99$. Other values within the range of the tables can be obtained by standard interpolation techniques. A recent paper by Tong (1970) provides a procedure which can be used to obtain conservative estimates of the factors for $k > 20$ using the tabulated factors for $k = 20$. Also, some limiting values as $\nu \to \infty$ are given by Dunn & Massey (1965).

The values of $u(k, \nu, 0{\cdot}5; \gamma)$ in Table 4 for all combinations of $k = 1(1)6, 8, 10, 12, 15, 20$; $\nu = 5(1)12, 15, 20, 30, 40, 60$; $\gamma = 0{\cdot}95$ and $0{\cdot}99$ are taken from Dunnett (1954) and are given to two decimal places. The remaining values in Table 4 and all the values in the other tabulations here were obtained using a new computer program and are given to three decimal places.

The basis of the computer program is as follows. The program uses the result (see, for example, Gupta & Sobel, 1957) that, when all off-diagonal elements of the correlation matrix R are equal to a constant positive value ρ,

$$G(u) = \int_0^\infty \left[\int_{-\infty}^{\infty} \left\{\Phi\left(\frac{us+\rho y}{(1-\rho)^{\frac{1}{2}}}\right) - \Phi\left(\frac{-us+\rho y}{(1-\rho)^{\frac{1}{2}}}\right)\right\}^k \phi(y)\,dy\right] g(s;\nu)\,ds,$$

where $\phi(y)$ and $\Phi(x)$ are the probability density and cumulative distribution function respectively of a standard normal variate, and $g(s;\nu)$ is the probability density of S, where νS^2 is a chi-squared variate with ν degrees of freedom.

The program calculates $G(u)$ using 20 point Gauss–Hermite quadrature to evaluate the inner integral and Gaussian quadrature with 10 points in each of four intervals, 40 points in all, to evaluate the outer integral. The program then obtains $u(k, \nu, \rho; \gamma)$ as the solution to $G(u) = \gamma$ by inverse interpolation. Comparison of the values obtained by this program with those from previous tabulations, where available, indicated close correspondence and, in particular, accuracy to the number of decimal places shown; see Hahn (1970) for further details.

Table 1. $100\gamma\%$ *points of the distribution of the largest absolute value of k Student t variates with ν degrees of freedom and common correlation ρ = 0·0, i.e. values of* $u(k, \nu, 0{\cdot}0; \gamma)$

ν \ k	1	2	3	4	5	6	8	10	12	15	20
					$\gamma = 0{\cdot}90$						
3	2·353	2·680	2·909	3·087	3·244	4·011	4·272	4·471	4·631	4·833	5·000
4	2·132	2·402	2·570	2·697	2·803	3·500	3·722	3·887	4·020	4·180	4·333
5	2·015	2·491	2·709	2·865	2·116	2·939	3·430	3·670	3·864	3·837	4·016
6	1·943	2·395	2·662	2·853	2·001	3·074	3·249	3·384	3·493	3·624	3·740
7	1·895	2·314	2·566	2·755	2·650	2·952	3·127	3·259	3·355	3·478	3·584
8	1·860	2·262	2·494	2·650	2·780	2·891	3·035	3·138	3·218	3·323	3·515
9	1·833	2·224	2·447	2·602	2·723	2·819	2·910	3·036	3·110	2·203	3·430
10	1·813	2·193	2·410	2·562	2·679	2·771	2·918	3·039	3·180	3·239	3·358
11	1·796	2·168	2·381	2·529	2·642	2·733	2·876	2·984	3·072	3·178	3·318
12	1·782	2·149	2·357	2·501	2·612	2·701	2·840	2·949	3·032	3·135	3·268
15	1·753	2·107	2·305	2·441	2·548	2·628	2·765	2·865	2·942	3·045	3·170
20	1·725	2·066	2·255	2·383	2·485	2·557	2·691	2·769	2·833	2·925	3·075
25	1·708	2·041	2·220	2·353	2·450	2·528	2·646	2·740	2·814	2·903	3·016
30	1·697	2·025	2·207	2·331	2·420	2·502	2·620	2·702	2·761	2·888	2·976
40	1·684	2·006	2·183	2·303	2·391	2·470	2·585	2·671	2·741	2·825	2·931
60	1·671	1·986	2·160	2·273	2·358	2·439	2·550	2·634	2·701	2·783	2·884
					$\gamma = 0{\cdot}95$						
3	3·183	3·900	4·180	4·364	5·025	5·232	5·538	5·812	5·015	6·259	6·597
4	2·777	3·335	3·745	4·003	4·205	4·386	4·621	4·817	4·975	5·164	5·409
5	2·571	3·093	3·398	3·610	3·789	3·928	4·145	4·312	4·447	4·611	4·819
6	2·447	2·913	3·193	3·389	3·541	3·664	3·858	4·003	4·129	4·276	4·469
7	2·365	2·800	3·058	3·236	3·376	3·489	3·659	3·803	3·916	4·051	4·233
8	2·306	2·718	2·958	3·123	3·255	3·365	3·523	3·660	3·764	3·891	4·059
9	2·262	2·657	2·885	3·045	3·171	3·272	3·420	3·552	3·651	3·770	3·923
10	2·228	2·609	2·829	2·984	3·103	3·199	3·341	3·464	3·552	3·677	3·823
11	2·201	2·573	2·784	2·933	3·047	3·142	3·283	3·400	3·491	3·609	3·749
12	2·179	2·540	2·747	2·893	3·004	3·095	3·236	3·345	3·433	3·551	3·677
15	2·132	2·474	2·699	2·835	2·910	2·994	3·126	3·227	3·302	3·409	3·530
20	2·086	2·411	2·594	2·723	2·819	2·892	3·020	3·114	3·190	3·289	3·399
25	2·060	2·374	2·551	2·673	2·766	2·842	2·959	3·049	3·121	3·208	3·320
30	2·042	2·350	2·523	2·641	2·732	2·805	2·918	3·003	3·075	3·160	3·267
40	2·021	2·321	2·489	2·603	2·690	2·760	2·867	2·953	3·019	3·100	3·203
60	2·000	2·292	2·456	2·564	2·649	2·716	2·821	2·900	2·964	3·041	3·139
					$\gamma = 0{\cdot}99$						
3	5·841	7·127	7·914	8·475	8·913	9·277	9·838	10·249	10·816	11·024	11·559
4	4·604	5·462	5·985	6·358	6·658	6·897	7·274	7·555	7·801	8·037	8·451
5	4·032	4·700	5·105	5·395	5·625	5·812	6·105	6·333	6·519	6·744	7·050
6	3·707	4·271	4·611	4·855	5·046	5·203	5·449	5·640	5·785	5·955	6·250
7	3·500	3·998	4·295	4·510	4·687	4·814	5·031	5·198	5·335	5·502	5·715
8	3·355	3·809	4·080	4·273	4·424	4·547	4·742	4·894	5·017	5·168	5·381
9	3·250	3·673	3·932	4·109	4·249	4·368	4·552	4·678	4·785	4·924	5·103
10	3·169	3·587	3·801	3·959	4·086	4·205	4·378	4·503	4·606	4·739	4·905
11	3·106	3·488	3·707	3·855	3·988	4·087	4·247	4·370	4·470	4·593	4·750
12	3·055	3·416	3·631	3·782	3·899	3·995	4·149	4·269	4·359	4·478	4·625
15	2·947	3·270	3·472	3·603	3·714	3·805	3·955	4·060	4·135	4·239	4·365
20	2·845	3·149	3·333	3·446	3·541	3·617	3·738	3·831	3·907	3·999	4·117
25	2·788	3·076	3·239	3·354	3·442	3·514	3·628	3·713	3·783	3·869	3·976
30	2·750	3·027	3·185	3·298	3·379	3·448	3·555	3·637	3·704	3·785	3·889
40	2·705	2·968	3·119	3·228	3·303	3·367	3·468	3·545	3·607	3·683	3·780
60	2·660	2·913	3·055	3·164	3·238	3·298	3·384	3·455	3·515	3·583	3·678

Table 2. $100\gamma\%$ points of the distribution of the largest absolute value of k Student t variates with ν degrees of freedom and common correlation $\rho = 0{\cdot}2$, i.e. values of $u(k, \nu, 0{\cdot}2; \gamma)$

$\nu \backslash k$	1	2	3	4	5	6	8	10	12	16	20
					$\gamma = 0{\cdot}80$						
3	2·353	2·975	3·367	3·637	3·840	3·997	4·216	4·405	4·557	4·789	4·969
4	2·132	2·662	2·958	3·172	3·337	3·470	3·676	3·833	3·960	4·112	4·303
5	2·015	2·482	2·755	2·945	3·089	3·207	3·370	3·530	3·642	3·778	3·948
6	1·943	2·377	2·627	2·802	2·937	3·045	3·213	3·342	3·446	3·570	3·728
7	1·895	2·306	2·549	2·707	2·833	2·935	3·093	3·214	3·313	3·439	3·577
8	1·860	2·255	2·481	2·633	2·759	2·855	3·007	3·123	3·214	3·328	3·466
9	1·833	2·217	2·435	2·586	2·702	2·795	2·941	3·052	3·141	3·249	3·384
10	1·812	2·187	2·399	2·546	2·659	2·749	2·889	2·997	3·083	3·187	3·319
11	1·795	2·163	2·370	2·513	2·623	2·711	2·845	2·953	3·036	3·138	3·266
12	1·782	2·143	2·346	2·487	2·594	2·680	2·814	2·916	2·993	3·087	3·213
15	1·753	2·101	2·295	2·430	2·531	2·613	2·741	2·837	2·915	3·009	3·128
20	1·725	2·060	2·245	2·373	2·470	2·548	2·669	2·761	2·835	2·923	3·036
25	1·709	2·036	2·217	2·341	2·435	2·510	2·627	2·716	2·787	2·873	2·981
30	1·697	2·020	2·192	2·319	2·412	2·485	2·600	2·686	2·756	2·839	2·945
40	1·684	2·000	2·174	2·293	2·383	2·455	2·565	2·649	2·717	2·798	2·900
60	1·671	1·981	2·151	2·267	2·354	2·424	2·532	2·613	2·679	2·757	2·853
					$\gamma = 0{\cdot}95$						
3	3·183	3·945	4·403	4·727	4·975	5·178	5·493	5·731	5·923	6·154	6·445
4	2·777	3·371	3·725	3·976	4·168	4·320	4·559	4·735	4·868	5·037	5·216
5	2·571	3·089	3·383	3·593	3·760	3·895	4·102	4·261	4·390	4·545	4·742
6	2·447	2·908	3·179	3·369	3·516	3·635	3·821	3·964	4·079	4·219	4·393
7	2·365	2·795	3·048	3·216	3·355	3·463	3·634	3·765	3·872	4·000	4·163
8	2·306	2·711	2·948	3·111	3·238	3·340	3·501	3·624	3·724	3·844	3·997
9	2·262	2·650	2·874	3·031	3·151	3·249	3·405	3·519	3·613	3·727	3·875
10	2·228	2·603	2·816	2·959	3·074	3·168	3·314	3·425	3·517	3·627	3·775
11	2·201	2·565	2·774	2·919	3·031	3·122	3·263	3·371	3·458	3·564	3·703
12	2·179	2·535	2·733	2·879	2·988	3·075	3·213	3·317	3·402	3·504	3·635
15	2·132	2·469	2·660	2·793	2·895	2·977	3·105	3·203	3·283	3·377	3·499
20	2·086	2·406	2·586	2·712	2·806	2·882	3·002	3·093	3·166	3·255	3·367
25	2·060	2·370	2·543	2·665	2·756	2·829	2·942	3·029	3·099	3·183	3·291
30	2·042	2·345	2·515	2·632	2·721	2·792	2·903	2·987	3·056	3·137	3·241
40	2·021	2·317	2·481	2·594	2·679	2·749	2·855	2·936	3·001	3·077	3·175
60	2·000	2·289	2·447	2·555	2·639	2·705	2·808	2·886	2·948	3·023	3·119
					$\gamma = 0{\cdot}99$						
3	5·841	7·104	7·871	8·418	8·841	9·184	9·721	10·132	10·463	10·860	11·330
4	4·604	5·447	5·958	6·323	6·607	6·838	7·200	7·477	7·702	7·973	8·316
5	4·032	4·699	5·085	5·359	5·569	5·739	6·001	6·198	6·344	6·522	6·930
6	3·707	4·263	4·595	4·832	5·017	5·168	5·405	5·586	5·730	5·917	6·147
7	3·500	3·991	4·293	4·491	4·659	4·786	4·984	5·155	5·280	5·448	5·648
8	3·355	3·803	4·068	4·257	4·403	4·523	4·711	4·857	4·975	5·119	5·303
9	3·250	3·666	3·911	4·086	4·221	4·331	4·505	4·639	4·748	4·881	5·051
10	3·169	3·562	3·793	3·958	4·082	4·180	4·343	4·474	4·575	4·700	4·859
11	3·106	3·480	3·699	3·854	3·974	4·071	4·225	4·344	4·440	4·558	4·703
12	3·055	3·414	3·622	3·771	3·885	3·979	4·126	4·239	4·331	4·443	4·587
15	2·947	3·274	3·466	3·599	3·703	3·797	3·919	4·020	4·103	4·204	4·362
20	2·845	3·140	3·318	3·439	3·533	3·607	3·726	3·818	3·890	3·980	4·024
25	2·782	3·052	3·222	3·338	3·425	3·500	3·616	3·701	3·769	3·853	3·959
30	2·750	3·015	3·181	3·289	3·373	3·440	3·545	3·626	3·693	3·771	3·872
40	2·705	2·957	3·116	3·218	3·297	3·361	3·460	3·536	3·598	3·672	3·767
60	2·660	2·911	3·052	3·150	3·224	3·285	3·378	3·449	3·507	3·577	3·663

Table 8. 100γ% *points of the distribution of the largest absolute value of k Student t variates with ν degrees of freedom and common correlation ρ = 0·4, i.e. values of* $u(k, \nu, 0{\cdot}4; \gamma)$

ν \ k	1	2	3	4	5	6	8	10	12	15	20
						γ = 0·80					
3	2·353	2·941	3·288	3·519	3·700	3·845	4·092	4·287	4·475	4·534	4·737
4	2·132	2·668	2·905	3·101	3·260	3·390	3·580	3·690	3·809	3·943	4·113
5	2·015	2·455	2·700	2·880	3·018	3·120	3·254	3·410	3·510	3·630	3·781
6	1·943	2·352	2·584	2·745	2·867	2·965	3·117	3·233	3·325	3·430	3·573
7	1·895	2·283	2·502	2·653	2·768	2·861	3·004	3·112	3·199	3·304	3·435
8	1·860	2·233	2·442	2·587	2·697	2·780	2·922	3·026	3·109	3·205	3·334
9	1·833	2·195	2·398	2·538	2·644	2·729	2·860	2·960	3·040	3·130	3·257
10	1·813	2·166	2·368	2·499	2·602	2·684	2·812	2·909	2·986	3·079	3·190
11	1·796	2·142	2·335	2·465	2·568	2·649	2·779	2·867	2·943	3·034	3·145
12	1·782	2·122	2·312	2·442	2·541	2·620	2·743	2·834	2·908	3·000	3·109
15	1·753	2·081	2·268	2·387	2·481	2·558	2·678	2·760	2·831	2·916	3·023
20	1·725	2·041	2·215	2·324	2·414	2·485	2·606	2·690	2·757	2·837	2·938
30	1·697	2·002	2·163	2·262	2·348	2·419	2·537	2·619	2·683	2·761	2·855
40	1·683	1·984	2·142	2·237	2·321	2·391	2·510	2·587	2·650	2·723	2·816
60	1·671	1·965	2·124	2·213	2·295	2·364	2·479	2·554	2·615	2·685	2·776
						γ = 0·95					
3	3·183	3·918	4·324	4·620	4·846	5·028	5·309	5·520	5·693	5·898	6·156
4	2·777	3·337	3·665	3·894	4·068	4·210	4·430	4·590	4·730	4·891	5·093
5	2·571	3·032	3·329	3·528	3·677	3·795	3·986	4·128	4·242	4·381	4·555
6	2·447	2·883	3·134	3·309	3·443	3·552	3·719	3·847	3·950	4·074	4·230
7	2·365	2·779	3·002	3·164	3·288	3·388	3·545	3·661	3·756	3·870	4·014
8	2·306	2·690	2·909	3·001	3·177	3·271	3·417	3·528	3·617	3·725	3·860
9	2·262	2·620	2·839	2·984	3·095	3·184	3·323	3·429	3·512	3·616	3·745
10	2·228	2·574	2·785	2·925	3·032	3·117	3·250	3·352	3·433	3·531	3·653
11	2·201	2·544	2·742	2·877	2·980	3·063	3·193	3·290	3·369	3·464	3·583
12	2·179	2·517	2·707	2·836	2·939	3·020	3·146	3·240	3·317	3·409	3·523
15	2·132	2·459	2·638	2·755	2·850	2·927	3·043	3·133	3·203	3·291	3·400
20	2·086	2·391	2·569	2·677	2·765	2·837	2·947	3·031	3·096	3·178	3·280
25	2·060	2·355	2·520	2·631	2·718	2·786	2·891	2·971	3·030	3·111	3·211
30	2·042	2·332	2·492	2·602	2·685	2·751	2·854	2·930	2·985	3·070	3·166
40	2·021	2·304	2·459	2·565	2·646	2·711	2·810	2·885	2·943	3·018	3·110
60	2·000	2·276	2·426	2·530	2·609	2·670	2·766	2·838	2·897	2·965	3·056
						γ = 0·99					
3	5·841	7·038	7·740	8·240	8·633	8·952	9·414	9·730	10·074	10·428	10·874
4	4·604	5·402	5·874	6·209	6·467	6·675	7·000	7·249	7·449	7·688	7·991
5	4·032	4·655	5·026	5·284	5·486	5·649	5·902	6·096	6·258	6·448	6·689
6	3·707	4·239	4·545	4·764	4·936	5·071	5·285	5·449	5·582	5·742	5·946
7	3·500	3·967	4·241	4·435	4·583	4·704	4·899	5·048	5·165	5·307	5·477
8	3·355	3·783	4·031	4·207	4·343	4·452	4·626	4·755	4·861	4·990	5·154
9	3·250	3·646	3·879	4·041	4·167	4·268	4·427	4·549	4·647	4·765	4·916
10	3·169	3·545	3·768	3·916	4·034	4·132	4·277	4·392	4·484	4·588	4·732
11	3·105	3·464	3·671	3·817	3·928	4·019	4·160	4·269	4·357	4·453	4·593
12	3·055	3·400	3·598	3·737	3·844	3·931	4·065	4·170	4·254	4·350	4·484
15	2·947	3·267	3·444	3·571	3·668	3·746	3·869	3·962	4·039	4·131	4·247
20	2·845	3·135	3·301	3·418	3·506	3·574	3·685	3·769	3·837	3·921	4·030
25	2·789	3·063	3·219	3·327	3·410	3·477	3·581	3·660	3·725	3·802	3·900
30	2·750	3·016	3·166	3·270	3·349	3·415	3·514	3·590	3·650	3·720	3·810
40	2·705	2·959	3·103	3·202	3·277	3·337	3·433	3·505	3·562	3·629	3·712
60	2·660	2·904	3·040	3·134	3·207	3·264	3·353	3·421	3·477	3·542	3·622

Table 4. 100γ% points of the distribution of the largest absolute value of k Student t variates with ν degrees of freedom and common correlation ρ = 0·5, i.e. values of u(k, ν, 0·5; γ)

ν \ k	1	2	3	4	5	6	8	10	12	15	20
					γ = 0·90						
3	2·353	2·919	3·283	3·452	3·621	3·765	3·902	4·117	4·249	4·390	4·510
4	2·132	2·592	2·863	3·048	3·186	3·295	3·468	3·597	3·701	3·824	3·930
5	2·015	2·436	2·682	2·833	2·970	3·055	3·207	3·332	3·415	3·525	3·656
6	1·943	2·332	2·551	2·701	2·816	2·905	3·047	3·153	3·238	3·340	3·469
7	1·895	2·254	2·471	2·612	2·720	2·805	2·938	3·033	3·110	3·215	3·338
8	1·860	2·215	2·413	2·546	2·651	2·733	2·860	2·955	3·028	3·124	3·239
9	1·833	2·178	2·369	2·500	2·599	2·679	2·801	2·893	2·967	3·055	3·167
10	1·813	2·149	2·335	2·462	2·559	2·635	2·755	2·846	2·916	3·002	3·110
11	1·796	2·126	2·303	2·433	2·527	2·602	2·718	2·805	2·875	2·959	3·064
12	1·782	2·107	2·286	2·408	2·500	2·574	2·687	2·773	2·841	2·925	3·026
15	1·753	2·066	2·239	2·355	2·443	2·514	2·622	2·704	2·769	2·847	2·945
20	1·725	2·027	2·193	2·304	2·390	2·456	2·559	2·637	2·699	2·773	2·867
25	1·708	2·004	2·166	2·274	2·356	2·421	2·522	2·597	2·658	2·730	2·820
30	1·697	1·989	2·147	2·254	2·335	2·399	2·499	2·572	2·631	2·701	2·790
40	1·684	1·970	2·125	2·230	2·309	2·372	2·468	2·540	2·594	2·657	2·735
60	1·671	1·952	2·104	2·207	2·284	2·345	2·439	2·509	2·565	2·622	2·716
					γ = 0·95						
3	3·183	3·957	4·269	4·538	4·743	4·916	5·176	5·372	5·529	5·718	5·952
4	2·777	3·310	3·518	3·833	3·995	4·130	4·328	4·482	4·605	4·753	4·939
5	2·57	3·03	3·19	3·48	3·62	3·73	3·90	4·03	4·14	4·29	4·43
6	2·45	2·86	3·10	3·26	3·39	3·49	3·64	3·76	3·85	3·97	4·11
7	2·36	2·75	2·97	3·12	3·24	3·33	3·47	3·58	3·67	3·78	3·91
8	2·31	2·67	2·88	3·02	3·13	3·22	3·35	3·46	3·54	3·64	3·76
9	2·26	2·61	2·81	2·95	3·05	3·14	3·26	3·36	3·44	3·53	3·65
10	2·23	2·57	2·76	2·89	2·99	3·07	3·19	3·29	3·35	3·45	3·57
11	2·20	2·53	2·72	2·84	2·94	3·03	3·14	3·23	3·30	3·39	3·50
12	2·18	2·50	2·68	2·81	2·90	2·98	3·09	3·18	3·25	3·34	3·45
15	2·13	2·44	2·61	2·73	2·82	2·89	3·00	3·08	3·15	3·23	3·32
20	2·09	2·38	2·54	2·65	2·73	2·80	2·90	2·98	3·05	3·12	3·22
25	2·060	2·344	2·500	2·607	2·688	2·752	2·852	2·927	2·987	3·059	3·150
30	2·04	2·32	2·47	2·58	2·66	2·72	2·82	2·89	2·95	3·02	3·11
40	2·02	2·29	2·44	2·54	2·62	2·68	2·77	2·85	2·90	2·97	3·06
60	2·00	2·27	2·41	2·51	2·58	2·64	2·73	2·80	2·86	2·92	3·00
					γ = 0·99						
3	5·841	6·976	7·639	8·104	8·469	8·746	9·186	9·527	9·797	10·123	10·552
4	4·604	5·364	5·809	6·121	6·361	6·554	6·856	7·088	7·267	7·485	7·764
5	4·03	4·63	4·98	5·23	5·41	5·55	5·80	5·98	6·13	6·30	6·52
6	3·71	4·21	4·51	4·71	4·87	5·00	5·20	5·35	5·47	5·62	5·81
7	3·50	3·95	4·21	4·39	4·53	4·64	4·82	4·95	5·06	5·19	5·36
8	3·36	3·77	4·00	4·17	4·29	4·40	4·56	4·68	4·78	4·90	5·05
9	3·25	3·63	3·85	4·01	4·12	4·22	4·37	4·49	4·57	4·68	4·83
10	3·17	3·53	3·74	3·88	3·99	4·08	4·22	4·33	4·42	4·52	4·65
11	3·11	3·45	3·65	3·79	3·89	3·98	4·11	4·21	4·29	4·39	4·52
12	3·06	3·39	3·58	3·71	3·81	3·89	4·02	4·12	4·19	4·29	4·41
15	2·95	3·25	3·43	3·55	3·64	3·71	3·83	3·92	3·99	4·07	4·18
20	2·85	3·13	3·29	3·40	3·48	3·55	3·65	3·73	3·80	3·87	3·97
25	2·788	3·055	3·205	3·309	3·388	3·452	3·551	3·626	3·687	3·759	3·852
30	2·75	3·01	3·15	3·25	3·32	3·39	3·49	3·56	3·62	3·69	3·78
40	2·70	2·95	3·09	3·19	3·26	3·32	3·41	3·48	3·53	3·60	3·68
60	2·66	2·90	3·03	3·12	3·19	3·25	3·33	3·40	3·45	3·51	3·59

3. Applications of the tabulations

Given below are a number of applications of the tabulations. Further details and numerical examples are given in an unpublished technical report by G. J. Hahn.

3.1. *Prediction intervals to contain all of k future means and when the estimate of σ^2 is pooled from several samples*

A simultaneous $100\gamma\%$ prediction interval to contain k future observations is an interval which will contain the values of all k such observations with a specified probability γ. Hahn (1969, 1970) provided tabulations of factors for constructing one-sided and two-sided simultaneous prediction intervals given the values of a past sample of n observations from the same normal distribution. Also, Chew (1968) suggested two approximate procedures for obtaining such intervals.

The percentiles given here can be used to obtain the required factors in the preceding situation. However, they also apply in more general cases where (*a*) one desires simultaneous prediction intervals to contain the means of all of k future samples from the given normal population, where the ith sample is based on m_i observations ($i = 1, \ldots, k$); and (*b*) the given information consists of a single sample to estimate μ, but several samples to estimate σ^2.

In particular, let $Y_1, \ldots, Y_n$ be the known values of n random observations from a normal distribution with mean μ and standard deviation σ and let $\bar{Y}$ denote the mean of the given sample. Also let S^2 be an estimate of σ^2 which is independent of $Y_1, \ldots, Y_n$ such that $\nu S^2/\sigma^2$ follows a chi-squared distribution with ν degrees of freedom.

Let $\bar{X}_1, \ldots, \bar{X}_k$ be the unknown sample means of k additional samples, based on $m_1, \ldots, m_k$ observations from the same normal distribution, where the $\sum_{i=1}^{k} m_i$ additional observations are independent of one another and are also independent of $\bar{Y}$ and S^2. If $m_i = m$ ($i = 1, \ldots, k$), i.e. all future samples are of the same size, an exact two-sided simultaneous $100\gamma\%$ prediction interval to contain all k future means is

$$\bar{Y} \pm u\{k, \nu, m/(m+n); \gamma\} S\{(1/m)+(1/n)\}^{\frac{1}{2}}.$$

In the general case, where $m_i \neq m$ ($i = 1, \ldots, k$), conservative two-sided $100\gamma\%$ simultaneous prediction intervals to contain all k future means are

$$\bar{Y} \pm u\{k, \nu, \min_i m_i/(n+\min_i m_i); \gamma\} S\{(1/m_i)+(1/n)\}^{\frac{1}{2}} \quad (i = 1, \ldots, k).$$

The preceding result follows readily from a theorem by Šidák (1968) and is sharper, i.e., leads to shorter intervals, than some approximations previously suggested by Chew (1968). Specifically, Šidák's theorem is as follows. Let $X_1, \ldots, X_k$ be multivariate normal variates with zero means and variances 1 and under probability law $P_{\lambda_1, \ldots, \lambda_k}$ with correlation matrix $\{\lambda_i \lambda_j \rho_{ij}\}$ for $i \neq j$ depending on the k parameters $\lambda_1, \ldots, \lambda_k$, where $0 \leq \lambda_i \leq 1$ ($i = 1, \ldots, k$). Also let S be a positive random variable which is independent of $X_1, \ldots, X_k$. Then

$$P(\lambda_1, \ldots, \lambda_k) = P_{\lambda_1, \ldots, \lambda_k}\{X_1/S < u_1, \ldots, X_k/S < u_k\}$$

is a nondecreasing function of each λ_i, $0 \leq \lambda_i \leq 1$ ($i = 1, \ldots, k$). A simpler proof of this theorem than that originally given has since been obtained by Jogdeo (1970).

3.2. *Multiple comparison between k treatment means and a control mean*

The problem of the simultaneous comparison of the means of k treatments with that of a control group has been considered by Dunnett (1955, 1964), and the latter reference provides tabulations as described in §1. In particular, let $\bar{Y}, \bar{X}_1, \ldots, \bar{X}_k$ be independent sample means from a control group and from k treatment groups based upon $n, m_1, \ldots, m_k$ independent observations, respectively, from normal distributions with unknown population means $\mu_0, \mu_1, \ldots, \mu_k$, respectively, and a common unknown variance σ^2. Let $\nu S^2/\sigma^2$ be a chi-squared variate with ν degrees of freedom that is independent of $\bar{Y}, \bar{X}_1, \ldots, \bar{X}_k$.

Then if $m_i = m\,(i = 1, \ldots, k)$, i.e. each treatment involves the same sample size, a set of k exact two-sided $100\gamma\%$ simultaneous confidence intervals to contain the true mean differences between the control group and each of the treatment groups are obtained as

$$(\bar{X}_i - \bar{Y}) \pm u\{k, \nu, m/(m+n); \gamma\} S\{(1/m) + (1/n)\}^{\frac{1}{2}} \quad (i = 1, \ldots, k).$$

In the general case, where $m_i \neq m\,(i = 1, \ldots, k)$, it follows from Sidak's (1968) theorem that corresponding conservative two-sided $100\gamma\%$ simultaneous confidence intervals are obtained as

$$(\bar{X}_i - \bar{Y}) \pm u\{k, \nu, \min_i m_i/\min_i (m_i + n); \gamma\} S\{(1/m_i) + (1/n)\}^{\frac{1}{2}} \quad (i = 1, \ldots, k).$$

3.3. *Simultaneous confidence intervals to contain all of k population means*

Assume that $\bar{X}_1, \ldots, \bar{X}_k$ are independent sample means based upon $m_1, \ldots, m_k$ independent observations, from k normal populations with unknown means $\mu_1, \ldots, \mu_k$ and unknown common variance σ^2. Also let $\nu S^2/\sigma^2$ be a chi-squared variate with ν degrees of freedom that is independent of $\bar{X}_1, \ldots, \bar{X}_k$. Then a set of exact two-sided $100\gamma\%$ simultaneous confidence intervals to contain all of the $\mu_i\,(i = 1, \ldots, k)$ is obtained as

$$\bar{X}_i \pm u\{k, \nu, 0{\cdot}0; \gamma\} S\{1/m_i\}^{\frac{1}{2}} \quad (i = 1, \ldots, k);$$

see Miller (1966, p. 71). If the correlations between the sample means are not all zero, the preceding expression still applies, but is conservative. This result, too, is a consequence of Sidak's (1968) theorem.

3.4. *Simultaneous confidence intervals to contain k regression coefficients*

Let $B_1, \ldots, B_k$ be the least squares estimates of the parameters $\beta_1, \ldots, \beta_k$ in the linear regression model

$$y_i = \beta_1 x_{i1} + \beta_2 x_{i2} + \ldots + \beta_k x_{ik} + \epsilon_i \quad (i = 1, \ldots, n),$$

where y_i is the observed value of the dependent variable, $x_{i1} = 1, x_{i2}, \ldots, x_{ik}$ are the known values of the $(k-1)$ independent variables and the ϵ_i are independently normally distributed random variables with mean 0 and common variance σ^2. Also let $\mathbf{X}$ denote the design matrix of the n independent observations with typical element $x_{ij}\,(i = 1, \ldots, n; j = 1, \ldots, k)$ and let $c^{(i)}$ be the ith diagonal element of the matrix $(\mathbf{X}'\mathbf{X})^{-1}$. Finally, let $\nu S^2/\sigma^2$ be a chi-squared variate that has ν degrees of freedom and which is independent of the y_i.

Then two-sided $100\gamma\%$ simultaneous confidence intervals to contain a subset K consisting of k' of the k regression coefficients are obtained as

$$B_i \pm u\{k', \nu, 0{\cdot}0; \gamma\} S\{c^{(i)}\}^{\frac{1}{2}} \quad (i \in K).$$

These intervals are exact in the special case where the corresponding columns of the design matrix are orthogonal; see Miller (1966, p. 71). For other cases, the preceding simultaneous confidence intervals are conservative, again as a result of Sidak's (1968) theorem.

3·5. *Miscellaneous applications of the tabulations*

The following further applications of the tabulations will be mentioned only briefly. Further details are given in the indicated references.

1. The construction of simultaneous confidence intervals to contain any linear combinations of the population means; see Miller (1966, p. 71) and Dunn & Massey (1965).

2. The construction of a confidence band for a regression line over a finite range; see Dunn (1969).

3. The construction of confidence intervals to contain certain interactions in a two-way fixed effects analysis of variance model; see Dunn & Massey (1965).

4. The construction of simultaneous prediction intervals to contain each of k future observations based on a regression analysis.

5. The construction of simultaneous confidence intervals to contain the true regression equation at each of k conditions.

The last two items are discussed in detail in an unpublished technical report by G. J. Hahn.

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Note added in proof. Part of the unpublished tables of P. Krishnaiah and J. V. Armitage, mentioned in §1, have since appeared in a book edited by R. C. Bose *et al.* (1970), *Essays in Probability and Statistics*, University of N. Carolina Press.

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Some key words: Multivariate *t* distribution; Simultaneous prediction intervals; Simultaneous confidence intervals; Multiple comparisons.

Appendix H

Statistical analysis

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RCRA-D1 *pH Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	6.71	1.90	1.944	7.24	1.98
RCRA D-6	6.74	1.91			
RCRA D-14	7.43	2.01			
RCRA D-15	7.08	1.96			
Variance	0.0023				
T-value	0.672				
Critical T-value	5.61				

RCRA-D2 *pH Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	6.71	1.90	1.944	6.98	1.94
RCRA D-6	6.74	1.91			
RCRA D-14	7.43	2.01			
RCRA D-15	7.08	1.96			
Variance	0.0023				
T-value	-0.011				
Critical T-value	5.61				

RCRA-D3 *pH Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	6.71	1.90	1.944	7.06	1.95
RCRA D-6	6.74	1.91			
RCRA D-14	7.43	2.01			
RCRA D-15	7.08	1.96			
Variance	0.0023				
T-value	0.202				
Critical T-value	5.61				

RCRA-D4 *pH Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	6.71	1.90	1.944	7.08	1.96
RCRA D-6	6.74	1.91			
RCRA D-14	7.43	2.01			
RCRA D-15	7.08	1.96			
Variance	0.0023				
T-value	0.255				
Critical T-value	5.61				

RCRA-D7 *pH Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	6.71	1.90	1.944	6.02	1.80
RCRA D-6	6.74	1.91			
RCRA D-14	7.43	2.01			
RCRA D-15	7.08	1.96			
Variance	0.0023				
T-value	-2.773				
Critical T-value	5.61				

RCRA-D8 *pH Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	6.71	1.90	1.944	6.96	1.94
RCRA D-6	6.74	1.91			
RCRA D-14	7.43	2.01			
RCRA D-15	7.08	1.96			
Variance	0.0023				
T-value	-0.064				
Critical T-value	5.61				

RCRA-D9 *pH Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	6.71	1.90	1.944	6.90	1.93
RCRA D-6	6.74	1.91			
RCRA D-14	7.43	2.01			
RCRA D-15	7.08	1.96			
Variance	0.0023				
T-value	-0.226				
Critical T-value	5.61				

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RCRA-D10 *pH Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	6.71	1.90	1.944	7.21	1.98
RCRA D-6	6.74	1.91			
RCRA D-14	7.43	2.01			
RCRA D-15	7.08	1.96			
Variance	0.0023				
T-value	0.595				
Critical T-value	5.61				

RCRA-D11 *pH Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	6.71	1.90	1.944	7.36	2.00
RCRA D-6	6.74	1.91			
RCRA D-14	7.43	2.01			
RCRA D-15	7.08	1.96			
Variance	0.0023				
T-value	0.979				
Critical T-value	5.61				

RCRA-D1 *TDS Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	610	6.41	6.108	558	6.32
RCRA D-6	1,160	7.06			
RCRA D-14	224	5.41			
RCRA D-15	257	5.55			
Variance	0.5965				
T-value	0.251				
Critical T-value	4.31				

RCRA-D2 *TDS Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	610	6.41	6.108	548	6.31
RCRA D-6	1160	7.06			
RCRA D-14	224	5.41			
RCRA D-15	257	5.55			
Variance	0.5965				
T-value	0.230				
Critical T-value	4.31				

RCRA-D3 *TDS Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	610	6.41	6.108	642	6.46
RCRA D-6	1160	7.06			
RCRA D-14	224	5.41			
RCRA D-15	257	5.55			
Variance	0.5965				
T-value	0.413				
Critical T-value	4.31				

RCRA-D4 *TDS Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	610	6.41	6.108	506	6.23
RCRA D-6	1160	7.06			
RCRA D-14	224	5.41			
RCRA D-15	257	5.55			
Variance	0.5965				
T-value	0.138				
Critical T-value	4.31				

RCRA-D7 *TDS Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	610	6.41	6.108	661	6.49
RCRA D-6	1160	7.06			
RCRA D-14	224	5.41			
RCRA D-15	257	5.55			
Variance	0.5965				
T-value	0.447				
Critical T-value	4.31				

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RCRA-D8 *TDS Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	610	6.41	6.108	357	5.88
RCRA D-6	1160	7.06			
RCRA D-14	224	5.41			
RCRA D-15	257	5.55			
Variance	0.5965				
T-value	-0.266				
Critical T-value	4.31				

RCRA-D9 *TDS Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	610	6.41	6.108	436	6.08
RCRA D-6	1160	7.06			
RCRA D-14	224	5.41			
RCRA D-15	257	5.55			
Variance	0.5965				
T-value	-0.035				
Critical T-value	4.31				

RCRA-D10 *TDS Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	610	6.41	6.108	312	5.74
RCRA D-6	1160	7.06			
RCRA D-14	224	5.41			
RCRA D-15	257	5.55			
Variance	0.5965				
T-value	-0.422				
Critical T-value	4.31				

RCRA-D11 *TDS Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	610	6.41	6.108	285	5.65
RCRA D-6	1160	7.06			
RCRA D-14	224	5.41			
RCRA D-15	257	5.55			
Variance	0.5965				
T-value	-0.527				
Critical T-value	4.31				

RCRA-D1 *TOC Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	1.3	0.26	0.183	1	0.00
RCRA D-6	1.6	0.47			
RCRA D-14	1.0	0.00			
RCRA D-15	1.0	0.00			
Variance	0.0519				
T-value	-0.719				
Critical T-value	4.31				

RCRA-D2 *TOC Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	1.3	0.26	0.183	1.1	0.10
RCRA D-6	1.6	0.47			
RCRA D-14	1.0	0.00			
RCRA D-15	1.0	0.00			
Variance	0.0519				
T-value	-0.345				
Critical T-value	4.31				

RCRA-D3 *TOC Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	1.3	0.26	0.183	1	0.00
RCRA D-6	1.6	0.47			
RCRA D-14	1.0	0.00			
RCRA D-15	1.0	0.00			
Variance	0.0519				
T-value	-0.719				
Critical T-value	4.31				

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RCRA-D4 *TOC Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	1.3	0.26	0.183	1	0.00
RCRA D-6	1.6	0.47			
RCRA D-14	1.0	0.00			
RCRA D-15	1.0	0.00			
Variance	0.0519				
T-value	-0.719				
Critical T-value	4.31				

RCRA-D7 *TOC Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	1.3	0.26	0.183	1.7	0.53
RCRA D-6	1.6	0.47			
RCRA D-14	1.0	0.00			
RCRA D-15	1.0	0.00			
Variance	0.0519				
T-value	1.365				
Critical T-value	4.31				

RCRA-D8 *TOC Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	1.3	0.26	0.183	1	0.00
RCRA D-6	1.6	0.47			
RCRA D-14	1.0	0.00			
RCRA D-15	1.0	0.00			
Variance	0.0519				
T-value	-0.719				
Critical T-value	4.31				

RCRA-D9 *TOC Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	1.3	0.26	0.183	4.1	1.41
RCRA D-6	1.6	0.47			
RCRA D-14	1.0	0.00			
RCRA D-15	1.0	0.00			
Variance	0.0519				
T-value	4.822				
Critical T-value	4.31				

RCRA-D10 *TOC Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	1.3	0.26	0.183	1.2	0.18
RCRA D-6	1.6	0.47			
RCRA D-14	1.0	0.00			
RCRA D-15	1.0	0.00			
Variance	0.0519				
T-value	-0.003				
Critical T-value	4.31				

RCRA-D11 *TOC Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	1.3	0.26	0.183	1	0.00
RCRA D-6	1.6	0.47			
RCRA D-14	1.0	0.00			
RCRA D-15	1.0	0.00			
Variance	0.0519				
T-value	-0.719				
Critical T-value	4.31				

RCRA-D1 *Specific Conductivity Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	951	6.86	6.501	686	6.53
RCRA D-6	1,601	7.38			
RCRA D-14	340	5.83			
RCRA D-15	379	5.94			
Variance	0.5554				
T-value	0.036				
Critical T-value	4.31				

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RCRA-D2 *Specific Conductivity Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	951	6.86	6.501	729	6.59
RCRA D-6	1601	7.38			
RCRA D-14	340	5.83			
RCRA D-15	379	5.94			
Variance	0.5554				
T-value	0.109				
Critical T-value	4.31				

RCRA-D3 *Specific Conductivity Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	951	6.86	6.501	797	6.68
RCRA D-6	1601	7.38			
RCRA D-14	340	5.83			
RCRA D-15	379	5.94			
Variance	0.5554				
T-value	0.216				
Critical T-value	4.31				

RCRA-D4 *Specific Conductivity Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	951	6.86	6.501	638	6.46
RCRA D-6	1601	7.38			
RCRA D-14	340	5.83			
RCRA D-15	379	5.94			
Variance	0.5554				
T-value	-0.051				
Critical T-value	4.31				

RCRA-D7 *Specific Conductivity Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	951	6.86	6.501	1112	7.01
RCRA D-6	1601	7.38			
RCRA D-14	340	5.83			
RCRA D-15	379	5.94			
Variance	0.5554				
T-value	0.616				
Critical T-value	4.31				

RCRA-D8 *Specific Conductivity Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	951	6.86	6.501	485	6.18
RCRA D-6	1601	7.38			
RCRA D-14	340	5.83			
RCRA D-15	379	5.94			
Variance	0.5554				
T-value	-0.380				
Critical T-value	4.31				

RCRA-D9 *Specific Conductivity Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	951	6.86	6.501	581	6.36
RCRA D-6	1601	7.38			
RCRA D-14	340	5.83			
RCRA D-15	379	5.94			
Variance	0.5554				
T-value	-0.163				
Critical T-value	4.31				

RCRA-D10 *Specific Conductivity Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	951	6.86	6.501	435	6.08
RCRA D-6	1601	7.38			
RCRA D-14	340	5.83			
RCRA D-15	379	5.94			
Variance	0.5554				
T-value	-0.510				
Critical T-value	4.31				

Appendix H - Statistical Analyses
Wyeth Holdings Corporation
Bound Brook, New Jersey Site
Impound 8 Facility Ground Water Program
Fourth Quarter 2008

RCRA-D11 *Specific Conductivity Analysis*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	951	6.86	6.501	469	6.15
RCRA D-6	1601	7.38			
RCRA D-14	340	5.83			
RCRA D-15	379	5.94			
Variance	0.5554				
T-value	-0.420				
Critical T-value	4.31				

RCRA-D8 *Chloroform*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	1	0.00	0.365	0.31	-1.17
RCRA D-6	1	0.00			
RCRA D-14	1	0.00			
RCRA D-15	4.3	1.46			
Variance	0.5319				
T-value	-1.884				
Critical T-value	4.31				

RCRA-D7 *Tetrachloroethene*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	1.00	0.00	0.883	0.32	-1.14
RCRA D-6	1.00	0.00			
RCRA D-14	1.00	0.00			
RCRA D-15	34.2	3.53			
Variance	3.1192				
T-value	-1.024				
Critical T-value	4.31				

RCRA-D8 *Tetrachloroethene*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	1.00	0.00	0.883	0.38	-0.97
RCRA D-6	1.00	0.00			
RCRA D-14	1.00	0.00			
RCRA D-15	34.2	3.53			
Variance	3.1192				
T-value	-0.937				
Critical T-value	4.31				

RCRA-D11 *Trichloroethene*

Upgradient Well	Upgradient Conc.	Upgradient Nat. Log	Upgradient Avg.	Downgradient Conc.	Downgradient Nat. Log
RCRA D-5	1.00	0.00	0.568	0.43	-0.84
RCRA D-6	1.00	0.00			
RCRA D-14	1.00	0.00			
RCRA D-15	9.7	2.27			
Variance	1.2906				
T-value	-1.112				
Critical T-value	4.31				